of course could not accomplish the in as short a time as one fitted with ssary conthe herd much needless worry the attendants much fear. About the o time I began dehorning all heifers by simply removing the hair from the $\Perp$, button-like protuberances and rub $\frac{5}{5}$ with the potash after moisteniug the ton with water. It was quick did the
olttle pain, soon healed, and did i perfectly. A few ceuts' worth of
is potash would dehorn fifty calves. caution should be taken to wrap the k with paper or cloth, for if you have sores or cuts on the fogers it will give her development of your nervous sys. her develop,howeyer, I lave uscd cou-
i. Lately, trated lye witw s whatever, snd does the work effectIn the ceration care must be taken to put on foo much water, as it would down apd endanger the eyes. a a number of applications I have never ed to accomplish the end sought, with exception, and with noevil results. The eption mantioned was in the case of a
nising young Exile of St. Lambert, chased a little more than a year ago. was a little too old at the time, perhaps, I rous of dehorning him without the yisfly of sawing them off in later deval lent, I made the application on the old filready protruding. One horn was Jally checked in growth, the other 1 ft etarded. As time went on this horn nuch delight in using it, showing his mition to be quite pugnacious. A few $u_{\mathrm{s}}$ ago this horn, was quietly removed rag stal as could be sesired. ay preferable to dehorn in calfhood by us chemical process. I do not enjoy
fr blood drawn, and such is uuavoidin any other process. The gouge is haps the most cruel method, and may woided as such, and the saw is only exable when grown animals of recognized le are to be retained in the herd.
aving the younger cows and heifers dened, it was decided to use the saw on ee last winter, which we could not expert was employed, and the work s quickly done. No effect could be iced on the flow of milk for a time, but the course of a ew weeks there was
ceptible increase, caused, no doubt, by ceptible increase, caused, no doubt, by e had formerly been quite a tyrant over - others, and even at times dangerous to : attendants, yet so valuable as a butter $r$ we could not decide to sell her. Uns fast in her stall she required the entire ble for her individual use, and I could : suppress a feeling of satisfaction when,
going to the barn one morning, a few is after her horus were removed, to see and seven others peacefully eating ength previously devoted to fighting Y now be devoted to the manufacture of 1k, and the younger animals may eat,
nk or rest in perfect freedom from disak or 1.
bance.
is not at all improbable that a few deles of dehorned cattle may result in a ain of hornless Jerseys, and $t$
$\nabla$ will then have been secured.

John L. Shawver.

## rights and duties of labor.

In the sweat of thy face shalt thou eat ad," is a natural law which, when not ease, misery and premature death. rrom this it follows that it is man's right labor, and if he is by nature, or lack of ceation, unfitted to conduct a business of own, he can, with his Maker at his k , demand as his right
$m$ others more fortunate.
abor has a right to secure by honorable nbination the largest pay possible, and demand for the individual in its ranks
lugh pecuniary return from his work to ible him to support the wife of his iom and those who, in obedience to the
ine injunction to increase and multiply 1 replenish the earth, he may bring into $s$ world without any will of their own. abor has the right, as well as the power,
this country to make and unmake s; a right to insist upon it that the law olies alike to the corporation and the rest man in its employ; and any fair a would concede it the right to secure
is that would benefit the toiler, as long
as those laws are secured by the use of the
ballot or other legitimate means. In short, the laborer has every right that belougs to auy man or set of meu on earth, and should be encouraged iusecuring and maintaining them.
But these rights carry with them correspondiug duties, which are as natural ant divinely ordered as the rights themselves Duties which it is the bounden obligation of every laborer to learn and make his rule
of actiou.
the toreh, using dynamite, wrecking railroad traius, destroying factories, defying authority, aud taking humau life are not amoug the recognized requisites to the prosperity of Americau institutious, or among the methods that sane, law-abiding men would adopt to crown the toiler with the houor aud dignity of true manhood.
In short, it is the duty of labor to elevate itself, win divine approbation, aud command the admiration of true men everywhere by assumiug all and shirkiug nouse of the
Itis the duty of the laborer to recognize the duties devolving upon men everywhere, as

right of an employer to have control of his own business; to remember that the mas-
ter mind conceiving or conducting a great enterprise is worthy of respect; that in countries where the workman is not a slave the wonderful enterprises that make this country famous would be impossible without corporatious; that although wealth is the result of toil, labor and capital privileges; that a contract between labor and capital is as binding upon the laborer as it is upon the capitalist; and that labor after being paid for its services according to contract, has no right to claim part owner ship of the works iu which it was em-
ployed, notwithstanding the belief of a ployed, notwithstanding the belief of a
few honest cranks and the loud assertions of some political demagogues to the contrary.
It is the duty of labor to study the interests of its employer as well as its own, to hus gained, and in case of strikes (which should very rarely occur) always to appeal to reason and law, never to prejudice and the firebraud. It is the duty of labor to shun the saloon as it would a pestilence; to transfer its enormous patronage of those warts on the body politic to savings banks or building associations, remembering hat with the wages paid in this country there is no valid reason why all workingmen having good health should not be the
owners of the properties they call home. It is the duty of labor to guard zealously and with a jealous eye the public school system; to educate itself beyond the point where it would be capable of believing the appeals made to ignorance and prejudice by the average labor agitator-appeals which are in nine cases out of ten so much moral dynamite hurled at the very foundation of our liberties, our institutions and our laws -and to make haste in condemning a system demanding that a man be kept employed no matter how obnoxious he may be to an employer, simply because he beongs to "the union," aud that seeks to guarautee to all workers in he same line equal pay, no matter what their individual bilities or attainments may be, as one that lowers the
dignity of labor, insults its intelligence, annuls its pres tige, robs it of its influence kills its ambition, and gives the lie to its nobility.
It is the duty of labor never, under any circumstances, to interfere with the in right to earn his bread by honest toil, and to recooniz
that saying to a man who desires work, "You shall not because I will not," is cruel, narchistic, devilish, and contrary to every principle of honor and right,
liberty, a stab at human rights.
It is the duty of labor to honor and respect the government of which it forms such an important part; to be patriotic, to ennoble the individual worker, and nuaintain its dignity as a whole by respecting law and having regard for order, and to bedr in constant remembrance the fact that breaking contracts, appealing to prejudice, interfering with trade, ordering boycotts, hobnobing with anarchists, assessing men who are at work to maintain thousands of others in "masteriy duactivity,") swiogiag
well as to recoguize the supreme necessity of ridding itself from the tyranny of its own
leaders.-B. L. Beck, in American Miller.

## TO ANCHOR WIRE.FENCE POSTS.

I have a good many wire fences on my farms, and more yet to build. I was troubled for a loug while about how to an-
chor the end posts, corner posts and posts chor the end posts, corner posts and posts in low places, crossing hollows, etc. I send you drawings of the plan which I adopted, which is simple and perfect. If followed, there will be no more trouble about posts drawing up out of the ground. The plan is fully explained by the accompanying cuts. For corner of fence, use brace aud anchor on each angle of fence. Illinois. alexander Barber.

## THE BUSY BEE IN JUNE.

There must be promptness in putting on surplus boxes or sections whenever the hives become crowded with bees. Let there be starters of thin foundation placed in each of these sections, and the sections put into a section-holder. These holders are simply frames made according to the dimensions of the hive, of such depth as to equal the depth of the section, with slats sunk in the lower edges of the frame flush with its edges, and at proper distances for the ends of the section boxes to rest on The holders may be put on the top of any hive, with or without a honey-board between them.
The manipulation of the bees to secure the greatest amount of honey is the great end to be attained this month. To accomplish this end successfully, the followiug hints will be in place:
Even in good seasons some apiarists meet with disappointment, owing to the error of allowiug too great a space in the brood-chamber for the storing of honey. Wheuever this is done there will be difficulty experienced in getting the bees to avoided by removing all combs from the brood-chamber that are not absolutely


End of Fence
needed for breeding purposes. The num ber needed will depend upon the prolific ness of the queen. Some queens will require eight or nine, while others will not use more than half that number of frames. My rule is to reduce the chamber to the number of frames that are actually utilized. Remove all frames filled with honey from the brood-chamber, filling up their places with dummies. These are sinply frames with thin boards nailed on the sides. The bees will thus be crowded for supers.
After the season is over, the frames of honey removed at the beginning will have
ample stores for winter, feeding must be resorted to. The price of one pound of houey will buy, at the present price, several pounds of sugar. Heuce the profit of securing the honey in the above way,
though it may necessitate some sugar feeding.
Where pleuty of old comb exists the same course can be pursued with new swarms. These can be confined on five combs for a brood-chamber with a sectionholder filled with sections ou top. Bees will, as a geueral rule, enter them and commeuce storing away the surplus nectar.
Such colonies in the fall ueed more combs and plenty of food.
It can be inferred from the above that the queen is an important factor in securing a large honey harvest. Let no queen, except au imported or otherwise valuable one, remaiu in the apiary over two years. Young queens, like young stock of any kind, are superior to old ones. When col onies of desirable stock to breed from cast swarms, a good opportunity is then afforded to supplaut all old queens with queencells from such colonies. This will secure young queens without expense. To avoid in-and-in breeding, it is well to introduce from time to time new blood. If the new strain is desirable, it will be beneficial to effect a cross. The following plain method of introducing queens will be found ef ficient: Nake a wire cylinder five inches long on a broom-handle, by winding wire cloth once and a half around and fastening it with a thread of the wire to keep it in shape. Take it off and insert a cork o piece of wood in one end and fasten it with tacks. Cut out a piece of stiff honey comb with honey sealed over, for the othe end. Put your queen to be introduced in this cylinder and plug the open end with the honeycomb. Having captured and re moved the old queen, place the cylinde with the new queeu between the combs holding it in position by pressing the combs together. Shut the hive and give yourself no concern about it. The bees will do the rest by liberating the queen through the end of the cylinder
stopped with comb. Wm. Ballantine, in stopped with
Farm Journal.

## stones and stone fences.

There are persons still clinging to the be-
lief, if their word may be believed, tha stones by abrasion or erosion, wear and tear, furnish the land with some fertilizing As these
As these rocks, of the advanced age o ity of geologists, have lost so little of their bulk in this time, or since man came upon the earth, that it cannot be estimated, it may be assumed that what they have give off, even if it be a rich fertilizing material enough to the fertility of the soil to b taker into account. At all events, lhe far mer with rocky land may as well fertilize
as though there were no rock there. It is a problem what to do with stones ered and encroached upon by stone land covis simply immense. The stone fence on some farms takes up a strip of land four to who lets his fences tumble who farme who lets his fences tumble, who does not eight or ten feet wide, and alongside are where are covered by stone fences, and in many cases these feuces are of no use-
serve no purpose; that is, the fences be-
tween mowiug lots or cultivated fields. tween mowiug lots or cultivated fields.
One farmer, to get rid of these fences,
dumped them all into a dumped them all into a ravine, scooped a and as a result added nore fertile land to
his farm besides that occupied by the
fences. But the farmer who determines to get rid of stones will get rid of them,
and he must do so if he would bring all his farm into bearing. But it is hard work.
If there be a place to bury them, the farmer
hesitates about beginning such back-breakhesitates about beginning such back-breakthe work goes on at odd times and is soon
over. There is satisfaction iu having a
farm free from stones and stone fences, better looking farm, a more productive farm and a farm worth more in the market

## Hood's Cures



Hood's Sarsaparilla
fully recovered. I feel well and am well." D. Mr.
(1) (1) farm
garden and field notes.

Tthe free use of harrows, big the free use of harrows, big
harrows and small harrows, harrows and small harrows,
gives good adrice. The har-
rows (smoothing-harrow, drag) deal of labor, and often loss of crop. The narro margin between winter and sum-
mer which we call spring, was this year especially small; much too small to gire
us a chance to plor and prepare the us a chance to plow and prepare the
land in the proper way and in' the time best suited for the work. Consequentlr, soil was still a little wetter than desirable, and in other cases when already too dry to
handle well. As a rule, the soil "worked bad," and came out in lumps. The free ed to to get the soil in good shape. But eren what was planted early, and apparlate heary rain, and baked with a hard crust by the hot sun following the rain.
It reall look . as if the earlr-planted peas, potatoes, sweet corn, etc., would hare little chance to break through the crust. The smoothing-harrow drawn by oue horse, and pnlverizes the hard crust better than any other tool I know of, and peas, corn
and potatoes hare no trouble to come up all right. I have just harrowed my early potatoes and late peas once more. How it same time how it stimulates the deeprooted crops
It is the small, annual weeds which we hare to fear. They come up in such
rast numbers, on neglected soil, that ther threaten to choke ont what we wish to grow. I have little fear of thistles. The
harrow, of course, does them no harm; but they are limited as to numbers, and can be easily kept in check with the hand-hoe, o with sharp-bladed cultivators
For such crops as peas, potatoes, $n$, et I-adrocate aud practice deep planting, fo
the very purpose of giving ns a chance to use the harrow freely and thoroughly. Fo marking out the rows I use the Planet Jr horse-hoe, with furrower and marker at tachment. Strike out a straight furrow I do this by setting a line of stakes, and let the horse be guided by them. The marker marks out the next row. Fertilizer we again follow with the furrower, mixiug soil and fertilizer and deepening the fur-
beans, peas, etc., I do not press the or for beans, peas, etc., I do not press the
furrower down quite so much, strew the furrower down quite so much, strew the
fertilizer and plant the seed at once without going with the cultivator in the same furrow again. When the seed is dropped,
we adjust the covering (hilling) blades, and we adjust the covering (hilling) blades, and
the roller in place of the furrower, and the roller in place of the furrower, an
then corer, the horse walking in the bot tom of the furrow or trench. All this is qnick work, but should be done well and somerrhat ridged. I usually roll the planting. The next operation, about a week or ten dass later, is harrowing once direction of the rows, loosens the crust, if such should have been formed in the
meantime, and kills all small weeds. I have harrowed potatoes when several
inches high, and even on rather stony soil inches high, and even on rather stony soil, happy effects from the operation.
Our dealers in agricaltural implements now offer a kind of harrow-cultivator; that is, a cultivator haring a set of harrow-teeth
instead of regular hoe-blades. With these you can run not only close to the rows, but sven right through them at the earlier ing injury to potatoes and corn. But if through the rows, you might as well use the smoothing-harrow, and do the work at and killing weeds in potato and corn fields, after the plants have become too large for beans, peas, etc., I use the Planet Jr. horsehoe again; adjusting the narrow hoes up the soil in good style, and may safcly
be run quite close to the plant $;$ : so close indeed, that cutting out the thistles, i
there arc ans, is about all the hand-hocing required
Hllling or Lerel? - The question
not is yet far from being definitely settled
in the mind of the average farmer. Soil, seasun and depth of planting hare some bearing on the subject. In average dry rather hare my plants rooted rather deep 1F, and keep the surface nearly level, in order to preserve the amount of moistur which is needed for healthy growth. Whe the seed potatoes are placed three or fou
inches deep, the crop will be produced jus inches deep, the crop will be produced jus
below the level surface, and the least tritle o hilling would suffice to cover up the stray specimen inclined to come through to the of hilling" at the last cultivation, for the double purpose of covering up the weeds just starting at the time that the size of the plants compels us to abandon furthe working among them, aud also of indicat
ing the exact location of the rows which otherwise might be hard to find if digging be put off until the plants hare en tirely died down. But I do uot see much
use in hilling corn, especially not in the excessive fashion yet practiced by mos farmers. Level cultivation is good enough for me.
Sweet Corn.-This year I had about an usnally $y$ ailable for corn. My predecessor corn for fodder purposes. The seed was planted thickly, and the stalks had to be cut before ears had formed. I do not think much of these sappy stalks. There is little snbstance in them. Ears should form,
anyway, either to be utilized separately, or to be cut up with the fodder. Most people in my place would hare planted the ordi-
nary field corn. I have planted the whole nary field corn. I have planted the whole always sells readily, at not less than ten cents a dozen. The crop requires far less labor than field corn, as we save the husking. All we have to do is to break off the ears when fit for the table, and take them times the money that you can make from ordinary field corn, and that is what we are after. In the fall I can buy what corn I want fo $\qquad$ Joseph.

## the vineless sweet potato

The rineless is a white potato, and a distinct rariety, called also the "bunch" sweet potato. The Grant and Texarcan description of the vineless: Dark green foliage, thick and short rine one and a half two feet long, and will not strike roo rariety with these characteristics. I had to send to Teunessee for my supply, and for some ueighbors here, and pay four dollar per thousand by express. All the plants
of this kind raised there are grown, sold and spoken for long iu adrance by cus tomers at home, who know what these and will not They more than six hundred to eight hundred plants per bushel.

## Orchard and Small Fruits.

## PEACH-BORER.

This well-known pest, so destructive to orchards, is very widely disseminated The parent insect is a moth having trans parent wings and a slender body, and re-
sembles certain wasps and hornets. The moths certar wasps anthern states about the middle of July to the end of August; in the South, in some localities hey appear as early as the first of May The female lays her eggs singly on the bark at the surface of the ground. These nch loug, and of a dull yellowish of an They are fastened in place by a gummy matter which the female secretes. As soon s the egg hatches, the nuaggot work channel, which is soon filled with a gnm channel, which is soon filled with a gnm
or jelly-like mass that exudes around the base of the tree. When full-grown, the larra, or grub, is orer half an inch long and nearly a quarter of an inch in diamter. It is whitish-yellow in color, with a reddish grubs may be found of different sizes al hrough the fall and winter months; some quite roung associated with others nearly During the winter they res channels they have
with guun. Iu badly-infest Occasionally this insect attacks the
from the ground, bnt wherever it works the exuding gum invariably points out the

Whecrawls to the surface and makes a leathery pod-like case, made from its castings, gum and silk, which is about three quarters of an inch long and of a brown color. Thi
is formed in groores in the surface roots, or inch below the surface of the ground. I this condition it remains three weeks or more.
Remedies.-There are many remedies rec ommended, but the safest and best plan is to go over the trees in the early spring and again in the early fall, and cut out the borers with a knife Some growers ar successfully trying the plan of putting ordinary fine wire mosquito-netting around the trunks of the trees after taking out the borers. This netting is quite inex
pensive, and will last for sereral rears if pensive, and will last for sereral years if giren a heary coat of paint before using
It should extend three inches below the ground. Washes of various kinds have been recommended for applying to the trunks, but are not generally effective One of the best is made of soft soap and cement, containing a small amount o Paris green and carbolic acid. Another i n ordinary whitewash made by adding one fourth as much plaster of Paris as ime, to which is added a small amount o Paris green. If washes are used, they hould be applied just before the time for which may be ascertained by examination, and be kept enerred as often as necessary to keep the corering intact during the egg-laying period.

## KEROSENE FOR BLACK.KNO

Repeated experiments at the Massachuetts agricultural college have shown the blat value of kerosene as an antidote for lack-knot, and I think that institution rork in this lin pubsh tract from the Rural New-Yorker is confirmatory f the great ralue of this remedy
"My next-door neighbor had serera plum-trees bearing fine fruit, and all died overed with knots, but before dying I had secured a few sprouts and had some fine
young trees, on which, when they were young trees, on which, when they Were ut on the trunks some inches long. Haring filled a small sewing-machine oil-can Fith coal-oil, I gave the knots a dose; they stopped growing, but in about a month few more made their appearance and some old ones began to swell again. Then another dose finished them. The next year last summer) a few spots appeared; they were treated before they broke ont, and all he trees are now very thrifty, only scarred here the large knots were, as the knots died and fell off like loose bark, leaving lead spots orer which the new bark is growing. If the trees are rery badly
affected, it is better to cut them down, they affected, it is better to cut them down, they
are so unsightly. The oil does not seem to have any bad effect on the sonnd part of the tree, but like all other medicine, too much might be injurious, but I'd rather kill it trying to sare than let the disease

## THE BEE NEIGHBORHOOD

Continued observation has led to a quite general belief among our best horticulturists that bees are the main agents in the ferilizing of our fruit blossoms, and that eighborhoods well stocked with bees have, one year with another, better crops
of orchard and small fruits than those rholly or nearly destitute of these busy vorkers.
This is called to mind by the following ignificant extract from the Cunadian Horulurist
'I would invite any persons who may be incredulous on this point to visit in a professedly bad fruit year-say during August or the early part of September-the localLet them carefully view the country lying a radius of two miles from the apiary tself, and they will find that in almost every case the frait-trees are laden with
heavy crops, while ther will observe as they get farther from the ricinity of the apiary (supposing that not many bees are ept in the country around) that the fruit crops steadily deterioratc
"I am convinced that so soon as bee keepers and fruit-farmers bcgill to recognize the importance of the one industry in elation to the other, more prosperous shall not onls hear of better fruit harvests, shat oi larner returns of honey, also,
 "THE GRAMGER"

## 

Many inquiries reach me in
relation to fruits that can be successfully grown here I will quote, in reply, the words of the late Hon.
I. F. H. Claiborue, who on the coast many years. He says he peach, pear, pium, pomegranate, berries, dewberries, bláckberries, per
mulberry, papaw or custard-
melons of varjous kinds grow in , and melons of various kinds grow in the sea-shore we find in addition the ge, citron, lemon, shaddock, jujube, na, olive, and occasionally the pineregard to oranges, he says at the time
rote he koew of orange-trees that had bearing sixty years. Since then sever freeze in 1886 destroyed most
e orange-trees as far south as the Florapes, but there are now bearing orange es along the coast.
ice in half a century orange-trees in rulf states (save in some favored locabed to the rigorous touch of the frost . In the winter of 1879 the temperefell too low for them. Some, how survived. Again in January, 1886, a
wave of unusual severity swept wave of unusual severity swept
award to the gulf, destroying nearly orange-trees down to the Florida Some trees here and in southern
ana escaped. There were some siana escaped. There were some trophe. There were groves along the , protected by bodies of water or by $t$ trees on their northern sides, that ptions are recorded, one of which came $r$ the observation of the writer, and is $h$ mentioning.
ccupied a cottage during that winn Berlin street, near Napoleon and h were a number of very fine orange.

It was soon apparent after the e that these trees were lost. In an adng place, at the corner of Berlin and
ania strects, stood a large number of orange-trees, none of which were usly injured. The escape of these was a puzzle, and it was some time $d$ in the fact that immediately north em stood the residence and other
lings of the owner. This circumstance, her with the additional one that the ie and warmth from the house fires rted, to some extent at least, warmth icy atmosphere, saved the trees. e were like instances in that city of nity from the effects of the freeze,
the trees were similarly situated. an important hint, and when the valuable "Treatise and HandOrange Culture," written by the
W. Moore, of Florida, or that por it relating to the selection of a nor an orange grove, the circum e referred to came vividly to mind. lumber of correspondents have asked The best answer to such questions in to the orange groves of a number y intelligent and progressive gentle in New Orleans. A conspicuous e is furnished by one who has at ai probably the finest orange grove on ast. It would be unwise for any one
into growing oranges exclusively as mercial venture, for in case of a uctive visitation of frost such as that nuary, 1886, or later, when the trees bloóm, failure in many cases is inevears, grapes, figs and pecans, to say g of other fruits and vegetables, culture is recommended. A favorn to a grove (as will presently be , together with proper selections of will reduce the risk of failure to the mum and result, no doubt, in much faction to the owner.
erviews with a number of the older nts along the coast relating to the culor oranges, show that this most here for many years. Indeed, it is led that for at least one hundred year urished on Mississippi sound. When first introduced can doubtless be
is that not long ago it was an industry of no mean importance here. There are par-
ties now living who have shipped huudreds of barrels from this section to the Ncw Orleans market.
The history of the orange and of all of the citrus family of trees is one of much iuter est. Gallesio's writiugs on this subject furnish is valuable, but does not come within the scope of this letter. They rewithin the scope of this letter. They re
veal the high value placed on citrus fruit as far back as 1566, and show that the orange occupied the first place amoug fruits wherever it could be growu in Eu-
rope. "From the first it was valued," says rope. "From the first it was valued," says
Mr. Moore, "not alone for the beauty of it foliage and the quality of its fruit, of which the juice was used iu mediciue, but also for the aroma of its flowers, of which the essences were made. Esseutial oil is in Europe, largely distilled from the tende shoots, rinds of the fruit and leaves of the trees: The most dclicate perfumes and oils
are obtained from the flowers. Marmalade is made from the sour fruit. Citric acid and coucentrated lemonade come from the lemon, while the citron yields that delicate conserve bearing the same name, for which we pay high prices. Many of these prodproduced on the orange plantation at comparatively little cost."
The orange is classed among the most healthful fruits which a beneficeut creato has given to mankind. "If you would
ward off sickness from yourself and family, provide each one with an orange to be eaten daily before breakfast." Such is the advice of oue whose opinions are entitled to credit. The beauty, the excellence and the healthfulness of the orange entitles it cau be grown with reasonable certainty of success. Two or even three fatal freezes in half a century will not keep those who appreciate its merits from its cultivation Mauy trees in fortunate situations survived the freeze of 1886 . The lesson is a
valuable one, and will not be lost upon intelligent and careful growers and lovers of this superb fruit. It is suggestive, also, to nurserymen and amateur growers alike. Hardy varieties, like the Satsuma, will be endure a lower temperature, possibly produced. The value of the orange is too high to permit its cultivation to decline while there remains a reasonable probability that it may still be grown in the perfection which has so long marked its cultivation on the coast.
T. H. G.

Ocean Springs, Miss.

## EXTRACTS FROM CORRESPONDENCE.

From Washington.-Lewis county cannot is excelled for fruit and herries. Hop raising will be doubled this seasou. Grain aud vegetahles do well. Trains are hringing newcomers nearly every day. Our county is timher has to give way for other industries. Fir timber makes good lumber, while
cedar timber makes good shingles and posts, heing of durahle quality. Logs are found in timber lying on the ground with trees six feet in diameter grown over them, thus showing one hundred years' growth, and yet sound
enough for shingles. Our markets are good. enough for shingles. Our markets are good
Butter is 30 to 35 cents per pound; eggs, 20 to 25 cents per dozen. We have lots of land that can he bought at reasonable prices, and a live me can make a good living.
B. B. P. he can make a good
Napavine, Wash.
From Texas.-We are out in southwest Texas, a sunny, summer land, Where rose may hloom in the open yard all the year. Bee touio, one hundred and ninety miles west of Houston and forty miles from the coast at Aransas Pass. You will understaud why ou climate is mild hetter when I tell you that w about on a line of the orange-growing dis trict of Florida. But the heat of our summer is tempered hy the ever-refreshing sea hreezes. assured this year. This is a great winter vegetahle couutry, which is a profitahle indus-
try for northern shipment. Almost all fruits except apples, including oranges, do well. Ou leading farm crop is cotton. The staple is fin and yield heavy, hecause of the long picking season-July to December.
very new and uudeveloped. range stock country, with greeu grass all the year, and it is ouly recently that the hig pasfares have hegun to be cut up and offered $\$ 10$ per acre, easy payments. This is hringing in many good people. Bee county is a geutly rolling prairie country, some open, some
brush. There is timber enough for posts and fuel. The soil is a sandy loam, very fertile, fuel. The soil is a sandy loam, very fertile,
roads. Beeville, the couuty-seat, with 2,500
populatiou, is a good, growing town; it has populatiou, is a good, growing town; it ha climate is uot only very mild, bat healthful The air is dry aud pure. There are no swamps, breezes from the salt sea. throat and luag troubles come here to get le to help us develop this graud, new Beeville, Texas.

Fron Thashington.-The Kennewick valley is the extension of the Lower Yakima valley from the mouth of the Yakima down the The lands opposite the mouth of the Snakc had less cold weather the past winter than an other part of the Northwest. Four weeks
would cover the time that the suow covered the ground. When there was three feet of show in the sound country, we had noue. This
is accounted for by the frequent occurrence of the chinook wind. The lowest point of the
valley is about 330 feet above the level of the sea. Fine land can be bought for $\$ 35$ per acre. It can easily he cleared of sage-brush. Pork part of the United States. Butter is shipped in from the East. The wheat-fields on the valley furnish wheat at a low price when it i needed. Peach-trees, one year olds, can be purchased for four cents ingly. The lack of raiu does not prevent this being the greatest agricultural country in the world, for irrigation gives water whenever
needed; and the dryness of the atmosphere makes this the hest hop country in America We have an abundance of the
well-water. 'Fruit, vecetahles,
harley, oats, potatoes, onions, hops, tobacco alfalfa, timothy, etc., do well here, as we hav
a variety of soils from alluvial to sandy soil. We have good schools. Lumher is very cheap, helow Kennervick, on the Columhia. The over one hundred miles along these irrigated lands. Our early potatoes hriug the highest they are the first in market. We raise twenty eight hnndred pounds of hops to the acre; and welve hnndred pounds per acre the Kennewick, Wash.
. B. E.
From Iowa.-The county-seat of Madison county is Winterset, with a population of 3,000. Winterset can boast of as many good stores as any town of its size in the state.
There are three hanks, churches of all denomThere are three hanks, churches of all denomthe state. The soil is a deep, rich, hlack loam adapted to almost all cereals that grow in this latitude. Small fruits and all kiuds of veg tahles grow in great profusion. Madison one of the hest stock counties in the state. We have had several creameries huilt within the past year. Our native hlue-grass affords abundant pasture for stock seven months in orchard-grass comprise our cultivated grasses and clovers. Land that sells now for $\$ 50$ per acre could have heen hought two years ago for getting "out of sight." The renter has to pay from $\$ 3$ to $\$ 5$ an acre, cash. A great many renters are going to Nebraska and Kansas,
where they expect to better their circum-
with springs and creeks. She has all the ston she needs for huilding purposes. There is now and then a sawmill, hut the hest timber has of white oak, hurr oak, red oak, hlack and White walnut, hlack and white hickory, hack berry, ash, all varieties of elms and some hard
maple. Wages are reasonably good. Men who have families, so they can board them selves, usually get from $\$ 25$ to $\$ 30$ per month
during the husy season. Harvest hands get rom $\$ 1$ to $\$ 1.50$ per day, with from the first of July until the first of September. We are handy to market. W the capital of the state. There are some draw hacks here as well as other places. The climat very warm-often the temperature rises to oue huudred degrees in the shade-and as fal comes on the thermometer gradually drop stays there for three or four days at a time,
 great drawback for the poor man is that the land here is owned in tracts of 160 to 1,000 acres in one farm, making it impossible for him to

Frox Texas.- Montague county is one of the group of Red river counties located in the

northwestern portiou of the state. The county is about equally divided between timber
and prairie laud. The soil is a rich, sandy and prairie laud. The soil is a rich, sandy
loam, sometimes dark, and very productive of corn, cottou, oats, millet, rye, sorghum, sweet plums, pears, apricots, cherries, grapes, blackberries, etc. Wheat on the prairie yields
about twelve hushels per acre. Fruits, vegabout twelve hushels per acre. Fruits, veg-
etables, berries and grapes grow to perfection and yield abundautly. Sometimes peaches get killed by a late freeze. This county wil the golden shores of California. The timbered lands are best adapted to fruit and grapes; the prairie best to grain. Being located in the
upper edge of the upper cross-timbers, we upper edge of the upper cross-timbers, we
have about the last belt of timber north and have about the last belt of timber north and vegetables, the country uorthwest of this being one vast prairie, not adapted to these
products. We have a fine market from here products. We have a fine market from here
to the Panhaudle of Texas, and New Mexico aud Colorado, which country is traversed by main line of the Chicago, Rock Island aud Texas railroad runs south through the county, crossing the Fort Worth and Denver road at Bowie, giviug good shipping facilities in all
directions. The timher here is mainly post oak and hlack-jack oak, scruhby and low.
Several small creeks run through the county, but they usually go dry in summer, except the larger ones. There is very little bottom or
swamp lands along the streams. Good drink-ing-water cau be had by digging from twenty to sixty feet; the water is clear, cool and well tasting. The altitude here is 1,100 feet, and we
get a good south hreeze all summer. The temperature is ahont an average of forty-one degrees in wiuter and eighty-three degrees in summer. There being no local causes for sickness, we enjoy as good health as in any por-
tion of the country. Good puhlic schools are conveuiently located over the county; they county taxes are 65 cents per $\$ 100$. The county has a population of about 20,000 ; of that numher there are only ahont sixty negroes. Our
people are cosmopolitan. Hospitality is a noted feature of our society. We have none of the rough frontier element. Every man regardless of politics or nationality. I receive many letters asking me to state the hest portion of Texas for a man to move to. That wishes to engage in, Texas heing so large, having 274,356 square miles of territory, and the should first decide just what he raisiug, what farming, what kind; if stock what line. But $I$ advise all to come and see the country, provided they wish to make a
change, and decide where they wish to locate, put never (unless you have plenty of money) 11, the state; they gave done much to misrepresent in



## WESTERN FARM LANDS

A pamphlet descriptive of the farm lands or Nebraska, Northwestern Kansas and Lastern Colorado wh he mailedis, Gen'l Pass A n application to P. S. Eustis, Gen'l Pass. Agt.

## CALIFORNIA




## (1)

## THE POULTRY YARD

## heap eggs and the cost.

Eas being low in price do not pay. Such is a frequent exwintcr, however, that the prices
are high, and the very low prices occur only during the summer. We believe that a larger profit
is secured during the summer than in winter, and we are willing to admit that prices are as low as they will fall, also. In winter the hens lay fewer eggs than in summer (a fact demonstrated by the
high prices attained), hence we must affrm the proposition that the tarmer has more eggs to sell in summer. Now, it is ered in preference to numbers and prices. The poultry-houses in winter must be made warm, the food and water
for the hens must be supplied regularls, for the hens must be supplied regularly,
and the labor bestowed upon the flock is quite an item, while the cost of the food is very great. Disease is also ulore prevalent, and it is seldom that more than a portiou of the flock will be producers. In the the whole of their food for themselves, they will lay a large number of eggs, and food consumed is of a kind that really , worms and refuse is used in prefcrence to grain or other foods.
Eggs in summer,
Eggs in summer, thercfore, are produced
for a very nominal sum, and an som for a very nominal sum, and on some farms they are produced at literally 110 cost what-
ever, the prices obtained being all profit. It matters not what a comparison of prices obtained in summer and $\pi$ inter mas show, the farmer is benefited only so far as that Which he secures as profit is concerned. labor, and cheapness in the cost in every department. Erery farmer is willing to in warm weather, as they are then able to do more for themselves than he can do for them, and the fiock pays in summer be-
cause the cost is reduced to the minimum figure.

## POULTRY DISEASES.

There are but few diseases of fowls in summer. Cholera is very rare, as in many thing else, roup and indigestion being frequently mistaken for it. Give fresh air at night, with plenty of fresh water during
the day. The doors and windows of the poultry-house should be open both day and night, and if an open shed can be used
for roosting, it wrill be found superior to the poultry-house. Grain will cause bowel disease if fed too liberally during the warm weather

## AN EGG-CASE

For those who have eggs to save we give
design of an egg-case, by Ir. Thomas C a design of an egg-case, by Mr. Thomas C.
Pope, of New Jersey. It may be made of any size preferred. The eggs are turned by taking out a tray of cggs, placing an
empty tray over them, grasping both trays tightly at the ends and then turning them over, which brings the lower tras on top tray for the next one to be turned.
yards with roosters are used, they will keep several months in this case. Simply lay the eggs on the trays, as no packing

## GREEN FOOD IN SUMMER.

Green food is the natural food of fowls in the summer season. It is cooling, possesses all of the elements required, and is more readily obtained than any other kind of food. Being bulky, it contains water, and promotes digestion by distending the bowels. Though not as nutritious as meat
or grain; yet more of it is consumed, and if or grain; yet more of it is consumed, and if
of a varicty, it supplies all the wants of the flock
If the farmer will economize with the food at this season, using no grain, he will find tha his hens will keep in better health and conditiou than if they are fed on grain or other concentrated food. The greatest drawback to the keeping of poultry is not but the fowls are insufficientiy supplied, cost of their maintenance is more than it should be. The surfeiting of a fowl with cive to thrift or egg production.
cive to thrift or egg production.
There is an enormous waste of food in the summer by the lack of judgment in feeding. Grain is giveu lavishly, when in fact it is the most unsuitable food that can be allowed during warm weather. Grass is superior to auy other food now, and if hens are confined and cannot have the ruu of a grass-plot, the green food may be cut up fine and fed to them, and it may be given three times a day, in which case a small quantity of ground oats or corn-meal may quart of the ground grain so used a teaspoonful of salt being first intimately mixed with it. If it is found necessary to give somcthing else than green food, let it be lean meat, or meat and crushed (or
ground) boue, giren once a day, a pound to twenty hens being ample. The hens will lay more eggs when supplied with plenty of green food than when allowed grain treely.

## SITTING HENS AND NESTS

When the sitting hens leave their nests before the hatch is due, it is an infallible indication of lice, and the nests should be taken outside, cleaned of the contents, the swabbed with kerosene, to which a lighted match may be applied. If the nests crowd the poultry-houses, causing room to be restricted, they may be left outside at this
season, by being placed against the fences and partially covered with brush.

## WATER-TROUGHS.

A fountain may not hold enough water in summer. The best mode of smpplying water during warm weather is to have a large trough, which may be made of
boards. Empty the water outevery morning, clean the trough and fill it full of fresh water for the day.

LICE AND WARM DAYS.
It requires but twenty-four hours for a poultry-house to be overrun with lice
when warm summer days occur. The importance of keeping the house clear of lice is, therefore, apparent. It is not difficult to keep lice down if the work of so doing is not neglected. It is due to the delays so often indulged in, which give lice an opportunity to multiply and swarm over every portion of
the house, that makes an exthe house, that makes an exare satisfied to attempt to destroy lice once or twice during the season, considering that it will be sufficient, but lice multiply very rapidly during the prevalence of warm weather, and that only per-
sistence and patience will clear them out. If once the lice are destroyed, the louse will need attention only, perhaps, but it seldom that all of the pest seldom that all of the pests
Iu the illustration, $A A$ is the body of $\mid$ few escape they will soon replenish the uare, nailed four inches apart, on which the trays slide, aud K is one of the trays. This arrangement is a great labor-saving one, as the eggs in each tray may be easily turned in half a minutc. It is best not to have the case too large. 'Trays Lolding culty than larger turn cges at leas
number that met their fate previously To keep down lice is to keep the hens orerrun the quarters the hens will become dcbilitated and gradually die off.
I Cure Dyspepsin, Constipation


## BOTTLE DRINKING-FOUNTAIN

An inexpensive drinking-fountain mas be made by fastening an ordinary quart bottle to a board, as shown in the illustration, A being the board and B B the elamps which hold the bottle in place. A hook, or loop, at the top of the board will serve to hang the bottle to the wall of the poul-try-house. A piece of wire should be attached to the mouth of the bottle, to
prevent the bottle from resting on the prevent the bottle from resting on the bottom of the drinking-pan underneath. down in the pan, and the pressure of the atmosphere will prevent the water from


Bottle Dringing-Fountain.
flowing out of the bottle only as it is lowered by the drinking of the water by the fowls. If preferred, the elamps (B B) may be attached to a post or to the wall, and the filled.

## EXCELLENT REMEDY FOR LICE

On wash-days save the soap-suds, and to each tub of the suds add one or two quarts of kerosene emulsion, the method of pre paring which is no doubt now well known as it has been gifen to our readers fre
quently. Stir the mixture well, dip each hen in the suds and apply to the poultry houses and yards with a sprajer or garden watering-pot. This may be done on every wash-day for the premises, but the hens should be dipper only once, as they will keep themselves clean with the dust bath

## MOULTING HENS

This is the time for sume of the hens to begin to shed their feathers, which is known as "molalting." Bear in mind that the early moulting hens are the ones that lay in winter, as they finish the process before winter eomes on, and are then in good condition; hence, do not sell off the hens that cease laying and begin to moul It requires about three months for a hen to
get rid of her old feathers and put on net garb.

## A DUST-PIT

Dig out a place about a yard square and foot deep, and sift the dirt back into the pit. This will provide an excellent dusting place for the hens, and will cost but a few
minutes' labor. Let it be in the sun, away minutes' labor. Let it be in the sun, away
from shade, and after each rain take up th dirt and sift it again, so as to have it as fin and diy as possible

## HIGH ROOSTS.

High roosts will injure the feet of the , There is the case if the hens are fat especially as it is just as easy to construct the roosts so as to afford more comfort to the hens by haviug the roosts near the floor.

## CORRESPONDENCE

OATMEAL FOR Poultry.-Oats are cheap, and can he procured in the ground condition or as whole gralns. They are most serviceable refuse. The better plan of feeding ground oat Is to sift them, using the finer portions for stock. But lu fecding such material some car is uecessary, or danage will be done in caus ing the crops to become bound, and Whlle th wust be given with the coarse materg must be given with the coarsc material. In feedmg youg che nithe is better than f corn-meal, half a pint of fine bran (ship stuff), and add enough milk, buttermilk, whey or clabber
tencr, and then add sufficlent a stiff consis to heat it through, provided it is not mado too

## soft. Bcfore adding the milk, mix with the dry meal a teaspoonful of ginger, red pepper

 and three teaspoonfuls of ground bone, lin. seed-meal and ground oyster-she!ls. Mix the whole thoroughly and feed to young chicks morning and night as much as thes will eat will grow little to disease At noon aire them os much wheat as they will eat, or chach one day and wheat the next. The corser parts of the oatmeal should be mixed as follows: One part oatmeal, one part bran and two parts corn-meal; add to each quart of the misture a teaspoonful of salt, add half a cupful of linseedmeal, half a cupful of ground bone and half a cuptul of oyster-shells; mix with millk or hot and at night feed whole grains. It is not nec essary to feed adult fowls at noon, unless it be green stuff. A little meat should be given wut the soll finseedmeal it can be done, but the milk, inseed-meal and oatmeal are largelyMarietta, Ohio.

## INQUIRIES ANSWERED

## Lice and Scaly Legs.-W. W., Swanton ru

 hio, writes: "A Are lice usually" foutd on scaly"legs, and , What is the remedy in such case?" Reply:-If the legs of fowls are corered with the scale, the lice will find harboring places on them. The remed 5 is to cil the legs once a reek, a mixture of one part kerosene and three parts of sweet-oil being excellent.
Lameness.-Mrs. M. L. Writes: "I noticed
that some of my fowls are affected as though that some of my fowls are affected as though appearing on the bottom." Reply:-It is probably what is knowh as thich injure the the ground, especially if they are fat had heavy.
Egre-eatiug.-S. S. Earton, Wis., Write:
"Please give a method of breaking hens from: "Please give a method, of breaking hens fromi the egg-eating habit.
REPLY:-Use cover
 ing the box from the foor prevents the hens from eating egss

## Duelinings.-Mrs. MI. K., Chesaning, Mich writes: "How should I feed young duckling

 that are expected to hatch in a few days ?",REpLY:-Duckling should hare soft food entirels, with plenty of drinking-wate
so that their bodies will not become
mister corn-meal and ground meat, scalded, is exxel
lent. Chopped grass, chopped vegetable tops,
cooked potatoes tnrnips, ol anething tha
they will eat will also be found beneticial.

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## Queries.

## READ TEIS NOTICE



## Soja Beans.-F. F., Rainbow, Cal. Soja beans can be obtained from T. W. Wood \& Son,

 beans can be obtained froWaterproofing.-D. N., Bauman, Ill. Cloth coated with boiled linseed-oil, to which a
little white wax cut with turpentiue has been added, will be waterproof.
Osage Orange.-J. J., Deadwood, Oregon.
It will be better and cheaper in the end for It will be better and cheaper in the end for you to get Osage-orange plants than to raise
the plants from seed. Most nurserymen list Osage-orange plants at moderate prices.
Harvesting Orchard-grass.-I
Hillsdale, Pa. Cut aud bind orchard-grass as you would wheat, when three fourths of the heads have turned a brownish color. Set it the top with a band, to prevent the wind from shattering out the seed. Withiu two weeks it will be ready for the thresher. Any wheat-
thresher can be used for threshing orchardgrass, by having a riddle made for the purpose -one with small meshes-and by closing up little carefnl experimenting will be necessary to get started right.
Cucumber-bng and Wireworm.-"Subscriber," Lewisburg, W. Va., writes: "Can you give me a remedy for the striped cucum-
ber-bug and wireworm?" ber-bug and wireworm
Reply by Joserf:--I have just "doctored" my vines, which are at this time breaking ground. I simply throw a big bandful or two of to bacco-dust and bone-meal,mixed in a bout Where the plants are just pushing through. mixture, or either ingredient aloue, in larger doses. This is repeated as often as seems re materials, but it helps, if faithfully and liberally applied. For the wireworm, plow the ground in early autumu.
Late Cabbages.-C. E. S., St. Paul, Minn., writes: "Please give jour opinion in -regard well fitted for cabbages in other respects, and pastured. The sod is not very tough. When is the best time to break the land, and when to set plants for late crop?"
Reply by Joseph:-From jour own de-
cription, I wonld plant cabbabes with the expectation of a good crop. Break the land at once and get it in as good shape as possible, rotted manure, wood ashes or fertilizers, by all means put them on. Then set the plants. If rather late in the season, as probable at the time this gets into print, you can still plant Early Winningstadt or other medium earlइ
variety, or perhaps even the standard Flat variety, or perhaps even the standard Flat
Dutch, such as Surehead, etc. Give good cultivatiou, and you will be reasonably certain of


VETERINARY
*) ©onducted by Dr. H. J. Detmers. 5 t
Professor of Veterinary Surgery in Ohio State


Unbilical Hernia.-J. W. W., Wauneta, ruptured. One is a yearling and the other is ix weeks old. The ruptures are close to the colts were two weeks old."
ANSWER:-Please see the numerous answers recently given under the bead of "Umbilical
Hernia.'
A Lame Mare.-T. A. R., Vernon, Ala. I cannot answer your question. It is ofteu
difficult enough to determine the seat and nature of a lameness if an examination can be made, and it ls utterly impossible to make a characteristic symptoms are given. All communications reachlng me on or before the
twelfth and twenty-fifth of the month, re spectively, are answered: in the papers of the first and the fifteenth of the following month.

Shakes Her Head.-Z. W., Wales, writes: 'I have a mare that commenced to shake her head a year ago last spring. When the spell attacks her, she acts something like a horse bothered with a bot-fly. At first she did not act that way very often, but now she does so

Answer:-First see to it that the harness,
collar and bridle in particular, is well fitting aud docs in no way disconmode the animal. If there is uothing wrong in that respect, and ascertain if there is anything abnormal and report again. I think, though, your find some defect in either the collar or bridle Ringworm.-W. R. M., Mealey, Oregou. Paiut the dlseased parts of the skingworm Paiut the diseased palts of the skin oucc a
day or every other day with tincture of iodiue or if you prefer, softeu the crusts with soft-
soap, wash them off next day with warm wate and a brush, and then wash them ouce a da With a five-per-cent solution of carbolic acid. but at the same time thoroughly clean and disiufect the premises where the cattle are kept. If you ueglect this, a reinfectiou is apt

Skin Disease-Probably an Ear Fistula. -M. S., Wallace, Neb. It is sometimes very skin diseases, especially if the same bas to be based upon a superficial description and no opportunity for examiuation is giveu. Thereproper diet does not effect a cure, you may mended $\ln$ these columns iu similar.cases. The other case complained of is probably an
ear fistula, which possibly contains at its bottom an erratic tooth. Have it examined
aud probed by acompetent person. The treatment requires a surgical operatio
A Sick Cow.-N. G. H., March, Me., writes: "Please tcll me what is the matter with my or drink anything. She is fat and will bring a calf in about two weeks. She can bardly gct up, and Wheu she does she staggers aud is so weak that she cau hardly walk.
First, the --There are several possibilities. First, the cow may have twins, or at any rat
Secoud, she may suffer from chronic indigestion and bloating. Third, she may suffer from some lung disease. There are still other possi-
bilities, but the cause of the trouble undoubt edly will have been revealed before this reaches jour

Probably 8 wine-plague-Ringworm.J. A. S., Sargents, Cal., Writes: "Last winter their fore legs, and upon trying to make them their fore legs, and upon trying to make them
get up, they would go tumbling over and over in their efforts to do so. Others got weak hind the loins, so that they could not use their up aud stand around. Most of them died inside of a week. In all cases the bogs were over six months old and fat.- What will cure about their eyes?
ANSWER:-Your hogs, very likely, died of swine-plague.-Your calves, it seems, are affected with ringworm, in regard to which "Ringworm" in this column.
Two Questions.-J. R. G., Galesburg, Kan., Writes: "I. When one of my horses drinks wate for it? tail between her legs and kicks up at her belly as if flies were on her."
healthy the forse is otherwise condition of the soft palate. There may also be other causes. Whether any treatment is applicable will depend upon the result of a careful examination aud the nature of the
cause. The prognosis also depends upon the cause. 2. Your mare probably has slight at intestinal worms, or numerous larve of the bot-fly.
Had Distemper.-M. A., Loyalton, S. D. writes: "I have a four-year-old mare colt that bad the distemper very hard. An abscess formed under the jaw, but now it is all healed up. She rcfuses to eat or drink, and lies down most of the time." Sometimes she looks around at her side
ANSWER:-It is possible that your mare, case of distemper, has metartatic or pyemic abscesses in interior organs-perhaps in the mesenteric or other lymphatic gland. If such abscesses are small and limited in number, the pus may become inspissated, and the animal posslbly may live, but wlll bardly ever be strong and vigorous.
Probably Fits of Vertigo.-R. E. N., Fairfax, Iowa, writes: "I bave a mare that is work up like she did last summer She wat to rub and likes to be scratched along the back-bone. Part of the time sbe has a good appetite. She had two staggerlng spells. The first time she fell down when 1 was second time she stopped still, staggered and put her head down almost to the ground. I am feeding corn and two-year-old oats. She is not fat, but is smooth and has a glossy coat of hair."
f vertion :-It seems your mare has attacks moldy, If the food she gets is musty or sound food, and if, and give ber bealthy and ly-does not fit, but presses upon the jugulari
make it it. As to the itching seusation alons
the back, you fail to give any the back, you fail to give auy clew concerniu and glossy coat of hair, which is hardly eve be there are chickeu-lice in your stable. Damaged Knee-joint.-N. C. D., Ashland,
Oregon, writes: "I have a horse that ran against something and bruised his stifle-joint ened to break. I used a liniulent of saltpeter and vincgar, aud the swclling went down. foot a little in traveling. About three months the joliut against the stable door, and has not
been able to work since. He drags his foot joint is not swelled, but there seems to be a
callous growu over aud above the joint. The
left side of the hip has fallen left side of the hip has fallent away some." treatment will do any good iu such on old and
invetcrate casc. It ought to have bcen at invetcrate case. It ought to bave bcen at-
teuded to in the beginning. A timely repositiou of the partially dislocated knee-pan, and
applications of cold water would have been iu
place. It is too late now. Too narrow stable place. It is too late now. Too narrow stable
doors are dangerous.
Diseased Eye.-C. H., Hartline, Wash., matter, running from the inside corner of the ese. The ball of the eye seems to be clear. I
have treated it with drs salt, also salt and water, but without effect."
ANSWER:-If pus is discharged from the inuer angle, there must be suppuration or an
abscess, which is hardly probable unless the eye has been wounded, or there is a foreign body between the eyelids, which, of course,
must be removed. To apply dry salt and salt and water to a diseased eye, ory salt and sal healthy eye, is bad practice, causes too much
irritation, and necessarily iucreases the in irritation, and necessarily iucreases the in-
fammation. In cases of catarrhal inflammation, mild astringents in shape of an eye water-for instance, a solution of nitrate of
silver, oue to two grains to an ounce of distilled water-are indicated; and if much irritation exists, a mild narcotic-for instance, grains to an ounce of distilled water-may be
used until the irritation has subsided. Either of these eye-waters may be applied three times capped with a rubber bulb, which can be ob tained in almost any drug-store.
Wants to Know what Ailed the Mare. "Please tell me what ailed my mare. She was all right at night. Iu the morning she was unable to get up. I moved her outin the yard. but did not roll over. I gave her twenty drops of aconite in warm water, which seemed to make her worse. After two hours I gave her a foal that we judged bad been dead for several bours longer than she had been sick. Her time was not up for six weeks. Next morning she was able to eat. She improved very fast day. The day and up to 3 A . Ir. of the next shook like one with aguc, and died very quietly a few bours later. I had ber opened and found the lungs very little congested, the hear the intestines, botb large and small, all right. In ber stomach was half a pint of bots, with One half of the lining was destroyed and very



should have done. She had been worked to
plow aud harrow, but not hard, she
plow aud harrow, but not hard. She bad not Axswer:-If there were nowherc auy morbid
changes nor iuflammatious than some bots in changes nor iuflammatious than some bots in mare dicd of, aud her death must be a mystery. The description of the casc, however, would but theu there must have been conspicuous donet tell you, but what you should not have not have given inedicinc to the animal as long
as you did not kuow what ailed her.

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(1) In firrsild

THE LITTLE ARM-CHAIR
Nobody sits in the little arn-chair It stands in a corner dim
But a white-haired mother And yearningly think king of hims,
Sees through the dusk of the loug ago The hoom of her hor's sweet face
As he rocks so merrily to and fro. Sometimes he holds a hook in his hand Someitimes he hencil and slate,
Eometimes a pencil
And the lesson is hard to understand, Avd the figures hard to mate;
But she sees the nod of his father's head, So proud of the lit tle son,
And she hears the word so ofren said, Thes were wonderfnl dass. the dear, , weet days, When a child with suans hair
Was hers to scold, to kiss, aud to praise, At her knee in the little chair.
She lost timm hack in the hus. rears,
When the great world caught the man. When the great world caught the man.
And be strode a was past hopes and fears

But now and then in a wistrul
Like a picture out of date, Like a picture out of date,
She sees a head with a golden gleam
Bent orer a pencil and slate. And she lives again the happy day,
The day of her forng life's spring,
Whed
When the small arm-chair
The center of eversthing.
AND THE GREATEST OF THESE IS LOVE.

WIxLL, by ginger! the old
sauire has got beat once
in in his life, hasn't he?"
said Jake Wells, one of a said Jake Wells, one of a
group of loungers in the
rillage store at B- one rillage store at B - one
rainy afternoon in $A$ pril.
"TThat he "That he hås," respond-
ed one. a man that's always had his way," said an "What now? Has some one gone back on
him for taking usurs, or got one of his "fast" him for taking usurs, or got one of his "fast" a neighboring farmer who was well known to
be jealous of the squire's skill in breeding horses.
swallow than either of those would be, much as the old fello
the first speaker.
"Richard has run away from college and
narried a ballet-dance," married a ballet-dancer."
"Oh, Jakee. Jake,"" remonstrated one who had not spoken before, "don't make it any
worse than it is."
i. Whell, it don't make any difference Thether "Well, it don't make any difference mhether
she dances, sings or performs, they are all of
one sort, and that's not the squire's sort, one sort, and that's not the squire's sort,
either," replied Mr. Wells.
""TTell it will have to come prettr straight before I beliere that as smart a young fellow
as Richard Stebins, and one that could have his pick among all the girls in this town, has of that sort," said the previous șpeaker
earnestly. "Or me either," said Tom Eaton, removing
his pipe. "'There's nobody in this town that's better acquainted ${ }^{W 1 \text { th }}$ the Stebbins' than
am , for $I$ have worked there, off and on, for more than twenty years, and I shouldn't hare
blamed Dick a bit if he had run arwas from the Ste bins has brown meaner and stingier every
sear since his wife died. But for all that, you can't make me believe that auy girl living has

## smartest,

"Well, it comes straight enough for any of
ou to beliere," asserted Jake Wells, "O Richard's friends told a friend of some of David they wrote her."
Mr. Carter, the merchant and postmaster had orerheard the most of the above conver-
sation while attending to the latter duties, and coming out from behind the counter, said:
"I ain't a-going to sas a wrord about this un"I ain't a-going to sas a word about this un-
fortunate affair except what I know to be true.
tnd that is that no correspondence between Ind that is that no corresposdence between office in more than two town.",
everybody's mriting in
"Is that a fact?" "You don't say so!" and other like exclamatlons were made. and the
men looked at each other as though the main men looked at each other as though the main
facts of the case were now settled.
"There ain't but one smarter man in this town, or never was, and no farmer makes
anything like as much money as the squire but I suppose he's an awf ful obstinate man finish his rcmarks, for Tom Eaton interrupted
 luow half as much as I do about that man's
temper. He has conquered everything and everybody, and will.,
'n't you? 'V
The abore conversation gives a fair illustra-
tion of the prevalent opinions regardin
Squire Stebbins and his son.

With that well-meaning familiarity and inquisitiveness commou among cou utry neigh-
bors, several attempts were made to ascertain the truth fulness of these reports from Maria; dared question the squire on such a personal matter, it remained a subject of wonderment matter, the summer came and went without bringing Richard for his usual vacation, when it was accepted as a certainty and gradually at the farm-house and to all appearances the squire himself had forgotten that he ever hada son, and, as he had declared to Jaria, was as "hale, hearts and ambitious as he was at forty years of age.
No doubt he felt somerwhat humiliated and disgraced by the rebellious and defiant con-
duct of his son; but he was too en self-approval and conceit to have one disturbing thought of blame on his part, and liis heart was hard enough and his will strong
enough to banish all thoughts of him from his life.
What the heart hunger and emptiness of Maria's life was after Richard, as it were, had
dropped out of it, the reader can have no just dropped out of it, the reader can have no just
conception unless they, too, could have seen the mechauical way in which she performed her household duties, aud the pathetic, long-
ing look in her eves, so strangely at variance with the hard lines and sharp features of her face and her passionless air
Thus the years came and went. It would iudeed be difficult to find a more vigorous specimen of maniood at serenty, yentans or well preserved as physicalls, he had no more disturbing thonghts of old age and death than Io the majority of men at fifty years of age. on ooening a bulky letter, postmarked Boston, and finding it contained another sealed envelope addressed to himself in the wellknown chirggraphy of his son, was to burn it
unopened. On second thought, however, he modified his anger enough to peruse it before doing so.
My Dear Father:-
I cannot heliere that after all these
nine sears you are still unvilling that $I$ should ad
nine jears you are still
dreess on woul in this was, especially when I a ssure jou
confortahile living for ms famils.
of my wif's sent for ws to come here, and after
doing so. he assisted me to ztuds medicine.
now have an excellent practice, and ami steadily
paying my indehtedness to him, and snpporting my
famill, consisting of my wife, two sons and two
danghters.
I have long heen sorry for my haste in marrying
without seeking your consent, but aside froun that. have never for one minute regretted the step, for no
one easerea m more oloving. true and nohle -minded
wife and deroted mother than ms Edith, wife and devoted mother than my Edith, and we n
have evers prospect of a happy and succeesiful life. I do oot needo or want financialal susiscessanculu, hife.
assurance the
ant you and Jlaria had forgiven my hosish impetnosity and could rejoice in our happiness and
prosperitr, would remove every shadow and complete
 fed delighted at a reconciliation and an opportunits to make your acquainnance and win your respect.
With heartfelt lore to hoth yonriself and alarin
the hope that fou are iu good health, I remain

Sincerels Your Son,

"The obdurate young rascal," said the angry
ather. "He will write in a very different tone father. "He will write in a very different tone
from that before he hears from either myself from that before he hears from eind into the fire went the letter that was sent freighted with many hopes.
After a few months came another lett 1 ike import, this time forwarded from Spring. field, and ayain a third one, addressed to John or Maria Stebbins, and sent as near as Brattle
boro; but as all met the same fate, further efforts at reconciliation were abondoned.
Oh, if on! 5 the contents of one of themm could have been known to two anxious, searning brought, for JIargaret, in her far-away eastern
home, was even more distressed than Jraria home, was even more distressed than Mraria
because more sensitive) regarding the whereabouts and fate of Richard.
When she had first written, censuring him for the step he had taken, she had uo idea but
what he would soou repent of his folly and anger, and make satisfactory overtures for reconciliation with his father. And until he
did so, she felt that it would be disrespectful and uujust to her fath
ountenance his acts.
Yet when nearls three years had passed Yet when nearly three years had passed
without such result, she could endure the self-rproach and suspense no longer, and forgivencss if she had in any way misjudged or rronged him. This, and sereral others gone to England, and consequently never reached him.
Filled with anxiety and self-condemnation, Margaret appealed to her father, and en-
deavored to soften his obdurate heart and persuade him to go or send to Boston and see If some trace of Richard could not he obtained. But though she wrote agaln and again, and
appealed to different sides of his nature, no appealed to different sides of his nature, no
rcference was for a long time made to the subject in his replies.
Nelther was this part of Margaret's letter more than two years, until in reading one the more than two years, until in readid:
squire became very angry and sald:
"Confound that girl Nargaret. I have en wred all her impudence that I shall, and she will know it
into the fire.
"Why, fath
Why, father, $I$ am sure she meant no hario It was the boldest
made to her father formark that Maria had at the result.
"She can get just as mad as she choose, replied her father, vehemently. "I can flad ways enough to dispose of my property with out leaving it to such presumptive, ungrateful children as mine are.
When IJargaret was told by her father that if she could not write without attempting to control his actions and manage his affairs, sbe need not write at all, she was given more of an insight into his relentless, unforgiving nature than she had never known. Showing despairingly:
'John, haven't you any old acquaintances Boston who would take Richard's forme address, and try and ascertain where he wen John Armstrong, wh
astily, replied kindly:
"Perhaps. I will think the matter over, Margaret."
Mr. aud 3rs. Armstrong had given almost uninterrupted service to missionary worl for ver thirty years, and been exceptionally happy in doing so; but now that both were Well past middle life and the former in delicate health, they determined
Regretful as were both to leave the work to which they were attached, Margaret was so constantly distressed by thoughts of the barren, pitiful life of her father, the cruel estrangement between himself and son, and the injustice which she had unintentionally hastened the preparation for their deplall hastened the preparation for their departur had been to learn the name of Pichardsold emplovers who spote highly of his ability and faithfulness, and also that his wife was an English girl, and that the family had tnrned to that country iu 18\%2.
While this knowledge certainly afforded Margaret some consolation, it lessened the financial condition would scarcely admit instituting a search in Eugland. All hope then centered on her power to overcome her father's anger and gain his assistance
In the midst of their preparations Margaret and her husband were in turn stricken with a terrible fever, from which the former narrow escaped with her hife, and Mr. Armstrong never recovered sufficiently to risk the fatigue and exposure of the
Iu ministering to and comforting the cheerful, uncomplainning invalid, Margaret had little time for disturbing thoughts of others. And which, though it flled her soul with seenest anguish. was not embittered by one poignan regret or unforgiven act, with the cruel inhuman conduct of her father and brother, and resolutely and praserfully determined that when all was over and the form of him who had made the best years of her life beautiful had been laid by the side of her son and daughter, who were waiting to welcome him,
she would derote herself to effecting a reconshe would devote herself
ciliation between them.

## Chapter V.

Seldom had Maria Stebbins been more astonished than when, after reading Margaret's nd the date of her departure for home band father said:
"Well, I guess Margaret has had a pretts hard sort of a life, and I am glad that she is coming home, for she may get some enjoyment here with her old friends.
"Yes," answered Maria, with a glad heart, Iam too. But do you think she means to tay with us?"
"Why, she is probably too poor to do any thing else. Plaguey few ministers are any kind of managers, and ther probably never made much more than a poor living. Yt cer-
tainls is her plain duty to, and see if she can't tainly is her plain duty to, and see if she can't answered the squire.
Her father's unusual show of pleasure at Iargaret's anticipated return was now fully underst to say a nother word. The John referred to was the twenty-year-old son of Rebecea, whose name had been changed from Truman when a reconciliation was effected between the father and daughter, who two years previously had been sent by his sagacious mother to "live with father, and relieve him
Naturally enough, JJaria was Jealous of his influence over her father, and his usurpation of the place that rightly belonged to Richard, and as policy and deceit were impossible to er nature, her treatment of him had several times aroused her father's anger. But all unleasant thoughts were quickly dispelled rin tion of her sister's return.
Margaret Armstrong, indeed, possessed all the virtues of her mother and much greater farce of character. Unlike Richard the an
tagonism of her intense nature had never been aroused, nor had she ever been compelled
to live on the defensive. On the contrary, the controlling influences of her life had been
such as tended to develop and strengthen the such as tended to derelop and strengthen the
better side of her uature, to broaden and liberalize her mind and to make her charitable and forgiviug torards the ignorance, weak ness and sins of others, while at the same time they had made her a self-controlled and to study and. Her life had been devote to no one could have been better fitted for the work she now set herself to accomplish.
She did not expect success to be easp. She knew that it would tax all her resources of mind and heart to the uttermost; that it woul require all the patience, wisdom and love she gained by father at Was this self-conceit and arrogance? No, in deed. It was a beautifnl example of the faith she had many times tested and that had nere failed her. She knew that she was right, that she was working in harmouy with a "and that to her human limitation mould be added infinite patience, Wisdom and love.
Is it
Is it any wonder, then, that she came home beautiful a life that for more than four-scor years had been dominated by its rulgar meaner nature?
She had a well-defined plan of action. Sh would lose no opportunity to minister to the least of his physical wants, and to sur round him with an atmosphere of lore. Sh would never combat his opinions for argument's sake or defy his wishes anless they sary she would convince him by a sharp, decisive battle that she was in no fear of his anger or rengeance, but was subject to mor than earthly father.
doubted the sincerity of more for her mother, and as sh aloue had been able to influence the noble concluded that whatever tended to arraken memories of her in his heart mould be soften ing and uplifting influence
"Father, what do you suppose grieves mos of auything since I came home?" asked she, as they sat on the piazza togethe
Naturally expecting that she referred to Richard's absence, he looked at her defiantly, and said:
frobody erer knows what a woman is going Fot heeding his cynical reply, Margaret aid tenderly
It is tbat nothing but the old furuiture the house looks like mother. All the flowers,
and even the lilac-bushes she loved so dearly, are dead and gone

## are dead and gone

列 the stern, hard lines of her father's face showed something of the couflict of emotions ordinary sharp way.
"Well, that sort of thing was Maria' business, not mine. Nobody hindered he from taking care of them.
Neither excusing or joining in his censure of her sister, Margaret asked pleasantly
"If I get some more this fall, can John plant
them out nicely?"' "r out nicely
not me", ant you had better ask him, not me," and the squire resumed his readiug yel Jsargaret immediately won the entire sympathy and confidence of Maria. A com mon sorrow knit their hearts together as no amount of happin ef extolling the rirtues and abilities of Richard, nor did Margaret of hear abilities of
ing them. A his letter, and the details of the rupture, as fa as known to Maria, were gone over, and though the latter was nerer sauguine of Ma garets power to couquer her fathers ang ing her brother, she set clung with a pathetic hope and trust to her sister's confldent assu ance that she should compass both
There was not a day when Margaret did not fiud some opportunity to soften her father asperity and to unobtrusively do kindly act she did not recall some pleasing inctdent of her old home life. In doing so she neve hesitated to mention babs Richard's name in an incidental way, but carefully avoided in troducing it when not necessary. Of the home life during the interrening years she seldom spoke, and only ouce in speaking to her father had she referred
Richard and himself. Christmas holiday scason in Boston, an several days after her return, when sittiug aloue with her father, she said, in a dire way and without having made any attemp to lead the conversation up to it
Richard and his that Rear after he was morried but and thre in Boston last week I learned several othe hings about them."
The idea of any member of his family daring to introduce a subject that they knew wa offensire to hlm, and with the quiet, deter
mined air of this woman daughter, was a astonishing revelation to the squire, and for once he was too confused to speak. His colo his seat; but Jiargaret, not the least discon
certed by his angry, defiant looks, continued calmly:
"I found the firm that Richard worked for, more obliging, efficient, faithful man in their employ. And the minister who married them knows the family well, aud said they were exceptionally intelligent and well educated, and R
girl." $\quad$ The squire's discomfiture was almost pitiful. Hargaret herself expected to see him leave the room or order her to stop talking; but for once he was compelled by a power he could not ing directly into his face, he said:
"Well, if you his face, he said:
follow him up, you can, but don't ever tell me of it again. If you hadn't been a womau, you never would have done it now." Not heeding his threat, she replied in the same calm, decided manner as before:
"I honored, not lowered myself, and next summer I shall go to England aud find them, if it is a possible thing."
"Go to England!" said the squire, astonished at her boldness.
"Yes, indeed, I shall," answered Margaret, with deep feeling, "for I shall never know forgiven for the injustice I have done him" "Well, you had better take done him." little means you have got than to throw it away in such a fool chase as that. That's all the good it does for me to board you at actual age. I guess if you had seen the independent, defiant letters that he wrote me, you wouldn't go to England whining after his forgiveness," and the squire looked as though he had an
argument that would convince her of her argum
"Were you not just as independent and deant to your father when you were twenty ears old?" asked Margaret earnestly
ut he answered quickly.
are ass of $m$ didn't
"If Mr. Lock mood was right Richard'"
just as noble a woman as your wife was. But whether she is or not, the brother that my mother died to give me shall know that I am his friend, if I can possibly find him.' "You-" But the squire was interrupted by the entrance of Maria, and their conversa-
tion stopped at a most opportune moment. tion stopped at a most opportune moment.
For a few days after this the squire treated For a few days after this the squire treated
Margaret with a marked indifference. But she gave no indication of knowing it, and the armor of severity and coldness, with which he vilnerale to devotion which constantly ministered to his comfort in thoughtful, unobtrusive ways.

> Kathernve B. JoHnson. Ke continued.)

## (To be continued.)

## SAM'S STRATEGY.

Farmer Kendrick had brought in a pile of snow-covered logs, and as he banged
down on the hearth, Carrie started up.

Five o'clock! Oh, I had no idea it was so
ate. I must be going.
"Allow me to accompany you, Miss Brovn."
"Let me see you home, Carrie?"
once.
"I prefer to walk alone," she said, smiling on oth cavaliers.
"About the
ight," said Fred, a nxious
"T I have Fred, anxiously.
said the village beauty, a rosy tint suffusing er cheek.
"But,Carrie, I thought itwas settled between s frown.
"Was it?"
"You know it was."
"Fred was I had forgotten."
Fred was silent. Captain Logan's soft voice broke the silence.
" exact no promises," he said gallantly, spot, Miss Brown may draw her own conclu-

## Carrie was silent.

Fred Jones had loved this pretty, bright-eyed damsel ever since they were children together, and Captain Logan, who had come down to
spend the holidays, with his cousins, the Kendspend the holidays with his cousins, the Kendricks, had become so fond of those bright blue
eyes and that golden hair that he had proeyes and that golden hair th
longed his vislt into January.
'Pon my word, she's a regular beauty," said the captain, staring through the tiny window-
Fred Jones glanced quickly up at him, as if
Fred Jones glanced quickly up at him, as if the fireplace; but he refrained from any such demonstration.
"A beauty," went on the captain, "and it's a f the bumpkins that vegetate in this wilderness. Sam, you young villain, are my boots lacked yet?
The farmer's hired boy, who had just come in to warm his purple hands at the merry red "'No, they ain't,"
"Why not?"
"Why not?"
Cause I 'ad no time.
said the captain. Sam glowered the stairs.

The next night was perfect for sleighing and love-making. The roads were gl
a silver crescent shoue brightly.
"Couldn't be better weather," said the captaiu. "Sam, where are the sleigh-bells?" "Dunno. There's them old jingles iu the
garret that used to beloug to Deacon Joc Keudricks, that used to beloug to Deacon Joc Keudthat Mary "Pshaw! What do you take me for? There is a pretty little striug somewhere, for I saw them when my cousiu went out yesterday."
"I ain't seed nothin' ou 'em," said the boy stolidly. any more come, Sam, don't make yourself ou the farmer, laughing nevertheless, for the captain's airs were wearing out his welcome. "I guess they are out in the barn chamber You better go with him, captain, if you expect to find 'em; our Sam's dreadful thick-headed when he chooses to be.
"Come aloug, my fine fellow," said the captain, collaring Sam and marching him off in the direction of the old, red barn. "We don" need any lantern in the moonlight, that is oue
comfort. Where are the stairs?" demanded comfort. Where are the stairs?" demanded the captain, as they entered the bar'n.
"Up with you, then," said Logan, but Sam shrank back.
"II wouldn't, not for fifty dollars," said Sam "Old John Kendrick hung himself from the he stands up there with a rope around his nect every moonlight night."
"Stuff and nonsense," cried the captain] in accents of contempt. "You cowardly lout, stay where you are, then, and I'll go myself." 'He sprang lightly up the rounds of the ladder and disappeared throug
"Where is it?" he called.
"Where is it?" he called. "The ghost? Right under the middle beam "Blockhead! I mean the where-
"Blockhead! I mean the string of bells." 'I don't know where they be and whe more, I don't care."
"I'll settle with you, my fine fellow, when come down," said the captain, threateuingly, as he groped about in the dim light which either end of the barn chamber. "Don't hurry yourself, cap'n," rejoined Sam in a jeering tone.
As the captain plunged into a dark corner there was a jingle, and the string of bells, sus pended from a nail, hit him directly on the neck, so like the grasp of death-cold finger that he could not but start.
they are Catch 'emtain, nervously. "Here they are. Catch 'em, Sam! Hal-lo! where' And it took th
And it took the worthy captain fully sixty seconds or more to realize that the trap-door
was closed and fastened on the lower side. wan to the window and threw it up, only to see Sam speeding up the hill.
"Hal-10-o-a!" yelled Captain Logan. "Come back, you scoundrel! you ill-conditional lout you imp of evil!"
Sam turned around and executed that peculiar gyration of the fingers in connectiou with the nasal organ, which is supposed to express "Ye extremity of scorn.
"You will find the ladder on the barn floor, cap'n," shouted this young rebel, "an' don't be afraid o' the ghost; it's very harmless if you
"But, Sam-Sam, come back! I'm to be at Mr. Brown's at half-past seven.
"Don't worry!" bawled Sam. "Miss Carrie won't have to wait long before Mr. Fred'll be
The capta
in an ecstasy danced up and down on the floor the crest of the hill. He knew very well if he possessed the lungs of Boreas he could make no one hear.
He sat shivering down ou the hay, starting nervously at the souud of horses' feet below, and thinking how disagreeably a bar of moonlight, which streamed down from a crack in the roof, resembled a tall, white figure standing under the center beam. He could almost the captain jo around itsneck. Pshaw! And dew on his brow, even in the freezing atmos phere of the barn chamber.
and that was to be done?"' he asked himself, would have answered: "Just nothing sense, Sam had outwitted him. And pretty Carrie and Fred Jones, with his red cutter and great chestnut-colored horse! The captain was wild at the thought; surely he was vanquịshed.
"I won't wait another minute for him," said her blue eyes. "Go on, girls, I shall spend the evening at home
"There's plenty
sleigh, Carrie," coaxed her for you in our Brown would be glad to have you along." and either, pouted Carrie."As is an escort of my wer I'll stay at home an mend stockings, and I never, never will speak to Captaiu Logan again."
Charlie Brown was on the point of arguing the matter with his sister, when the doo opened and in walked Fred Jones.

Where is the cap
"I don't know," said Carrie, tartly, "and I d "Will you go with me?"


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"Yes, I will," said Carrie, her eyes lighting
and shy smiles dimpling her lips. "Of course," said Fred, "I can't expect to make myself as agreeable as the city captain,
but-"
"The "The captain, the captain," cried Carrie, a name. I never want to see him again. What
a nice new cutter this is, and how easy the a nice new cutt
"Carrie," whispered Fred, as he touched up "is it for always?"
"Yes, always," she auswered.
"Jerusalem !" said Farmer Kendrick. It was past ten o'clock at uight, and the old gentleman had come out, as usual, before retiring to family were all the dumb members of his John Kendrick's ghost come to life again poundin' like all possessed on the barn"It's me-e! It's me-e!" yelled the captain "Unfasten the trap-door and let me out!" Slowly the farmer lifted the ladder to it climbed the creaking rounds and uudid the hook from the hasp.
"How iu all creatio
"How iu all creatiou came you here?" hede-sleigh-ridin' with the gals?"
"It was all the doing of that villain Sam!" gasped the infuriated captaiu, his teeth chattering with rage and cold. "I won't stand this
sort of thing. I'll leave this place to-morrow." sort of thing. I'll leave this place to-morrow." the prospect of losing his guest was not unpleasant. "I'll talk seriously to Sam."
"So will I," gnashed the captain. "I'll break very bone in his body."
But Sam was nowhere to be found, and the first ones of the returning party brought thc Carrie Brown had been announced.
The captain left for home next day, and pretty Mrs. Fred Jones has never seen him since. Wheu the wedding came off Sam reive him the dyspepsia for a week.- Waverly Hagazine.

HOME.
Real childreu would as soon expect the sky to fall then the them. Whatever they may be doing, the sense they do not consciously think of it, it is
always there as an underlying comfort. They Will go to it from school, from work, even from
play talking all the way to their companions, thinking, one would say, of anything but
home. But see how steadily they go toward it
all the while, they take no step out of the
way. Aud when they come in, how naturally


## PATENTS (2mw





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SOMETHING FOR YOU TO LEARN.
"There, little girl, don't cres.
Thes have broken your doll. I know, And your tea-set blue and your playhouse, too, But childish of the long ago
There, lith troubles will soon pass by-
There, little girl, don't
They have brokeu your slate, I know, And the glad, wild ways of jour school-girl
re things of the long ago
But life and love will soon pass by-
There, little girl, don't er
There, little girl, don't cry
They have broken your heart, I know, And the rai
dreams
re things of the long ago. Are things of the long ago. There, little girl, don't cry.
-James Thitcomb Riley.

WISDOM VERSUS WOMAN; OR. THE WISE WOMAN ON THE FARM.

THE Fourth of July dawned gloriously upon the Mc.Allister farm. The white mist still resting weirdly on the
prairie, seemed unwilling to prairie, seemed unwilling to cool, moist breath reached to the billtops that were green with the growing corn and golden with the ripened grain. The they left their roosts seemed determined all the world should know that they were awake, and as they did not wish to sleep any longer, no one else on this farm should sleep, either.
Fire o'clock is an unseemly hour, but long before this the housekeeper must
hare been astir, for breakfast was ready, and freshly-washed milk-pans shining in the sun attested the tireless industry of a
willing hand. As the day advanced tbe willing hand. As the day advanced tbe farm-hauds, one by one, gathered in the
shade of the barn, waiting for the signal to go to the field; each prophesied a very hot day, as the rays of heat were already beginning to quiver over the fields of grain the sound of cannons and crackers mingled with the roices of the workers, as they called from field to field some message of haste. And now the motber of the house-
hold appears at the door with her bonnet on, casting uneasy glances up the hot, dusty road. A big, fat horse stood patiently awaiting her pleasure; her pans and jugs was at her elbow with a long list of errands to attend to for him, while protesting against the hot drive in the sun and her errand to the city.
"I must go, Joe," said she. "This is the third day Miss Latterday has set for her tle fresh air. Poor, good woman! If I can add to her happiness with a little fresh air I am sure I ought to be willin
knows, Joe, I give little enough."
"But to come in harvest-time, mother, how inconsiderate!" said irate Jo

Joe's mother conceded with a sigh that under the buggy-seat, and came crawling she was tiresome. "But she is a good woman, Joe, a very good woman! It is my fault if I am not benefited by her visit." So off she started on this errand of love
and charity, not at all intimidated by the noise and the smell of powder coming from the city.

into the yard as if a year from date was quite time enough.
It was two oclock before the dinner was over, and as Mrs. McAllister had been up pany long hours, and was in the habit of leeping after the noon meal, she looked longingly at her lounge, but heroically joined her friend on the porch. Miss Latterday, seated in a bis arm rocking chair, was see-sawing for dear life; not a fternoon by going to sleep
But the longest day will have an endand it is a pretty long day if you arise with the dawn on the Fourth of July. Soon after dark Mrs. McAllister began to close up the house for tbe night and as Miss Latterday thought it was barbarous to go to bed at nine o'clock, she was left on the porch alone, peep-a-booing with the moon through the clouds and the trees, long atter the others had long morning-this endless motion on the porch continued; in the sun and out of the sun, rickety-rock over the uneven boards, tireless, and joyous as a child.
But to-day Mrs. McAllister claimed her nap, and went into her darkened room, while Miss Latterday commenced again her saw-horse. At last quietreigned; the cricket was heard as usual singing in the parlor; the swallows rumbled in the chimney; the noisy rooster sounded his note under the window. Sweet sleep gently stilled the tired hands; peaceful slumber closed the tired eyes. Suddenly a cry came from the orchard-a proonged, painful "Oh-h-h!"
Mrs. Mrallister flew to the door with her petticoats dangling to her heels, her thair hanging over her face and ber eyes blinded by the sun, glaring in the light.
"Maria, where are you?" she called.

Here!" came a subdued roice from among the beehives. "What is the matter?"
"Nothing much. me."
"What are you doing with the bees?"

## I was catching them."

her mission in the cool hours of the morn ing, it was fully noon before Diss Latterday was ready to leave the city. She had so many last messages to give; so many littie many bundles to prepare for this week's isit in the country. She was thin and wiry, and never too warm, and sat on the shady side of the buggy; Mrs. McAllister was fleshy and always steaming, and now with the sun burning her shoulder, grew each moment seemingly more uncomfort able. The horse taken from the pasture was lathered with heat; the jugs and pans, filled with delcctables from the city, were fast liquifying into unexpected elixirs; but
Miss Latterday suiffed the air with her
something. It is always something, Joe. July when they ask to coune; yet poor Miss Latterday has so little enjoyment in lif that if she wants to come I will go and
Miss Latterday was alone in the world, and sceking ly worrls in season and out of
scason, to fill her destiny by regenerating this world that had gone so far astray in its mission of usefulness and bappiness


## M. C. Crocheted Leaf Lisertion

sharp littlc nosc, proclaiming each moment er delight. The lights on the meadows,
the shade in the woods, the foam of the clouds and the songs of the birds, filled her heart with joy and her lips with costatic exclamations. Mrs. Mr.Allister listened to a tirade on madder-lake, cobalt, sky blue and green, the colors that went to
makc the shades of this beautifullandscape. make the shades of this beautiful landscape.
She forgot her household carcs, her son Joe waiting for his diuner, her ruined stores
"Catching bees! Are you crazy
By this tine Maria had ent house, holding both hands clutchingly orer her face.
"I have read when bees are swarming," she said, "if jou are not afraid of them you can take them up in your hands and put them in the hive, and they will ot sting you. I saw a bunch on ot sting you. I saw a bunch on n apple, and as I was not afraid disturb, I thought I would not disturb you, and I went to put them in the hire, and-and
see they have stung me."
see they have stung me."
Her thin lips were full and Her thin lips were full and
pouting; her nose was swollen into a club; her eyes were hardly to be seen, and for the rest of the day, in a darkened room, were coutent to be closed to nature's beauty and alluring joys.
The next day, when Mrs. McAllister retired for her afterdinner sleep, she begged Maria to keep quiet, as this nap was essential to her usefulness for the keep quiet was impossible, though for a time the rocker was hushed on the porch. She was so happy in the enjoyment of country life, that any time was to be regretted not employed in its novel pastinues. Soou she was heard in earnest conversation with the calf, that was comfortably sleeping under the peachtree.
"Come, calfie, let us take a little walk. You must be tired sleeping all day. Nothing is so wholeome as a little exercisc
Untying the calf they started najestically on their promenade She held the strap firmly with one hand, patted its the other she affectionately patted its glossy back. The calf went slowly and contentedly for a few steps, then taking hope began to make effort to gain its liberty, tossing its head, whirling, circling around Jaria, throwing up its
heels, and anon giving forth a bleat of dissatisfaction.
"Hold onto him," called Joe from his load of hay just entering the barn-yard. Maria.
"Tie him to a tree:" called Joe
"I am going to. I'll get him there," answered Maria, with fluttering breath and strength fast giving out.
At last the calf gave a movement so unexpected that she came down on her knees, while it continued backing down the walk, humbly followed by Maria. In consideration of her calf, Mis. McAllister sent Joe to her assistance; and short of wind, its tongne hanging out with the heat, it was secured to the fence.
"This is what we call a sweat bath at the Sanitarium," panted Maria. "Now let me get some water and give it a cold dash to cool it off, as we do at the Sanitarium.'
The water was not permitted for the calf, but Joe advised her to use it herself and leave the calf alone in the futur
In gratitude for Joe's kindly assistance io thus securing the calf, Miss Latterday came out into the barn-yard at milking time and offered to try her hand at milking. She was very voluble in her opinions how cows should be cared for. "Always salt. Plenty of salt and plenty of water. And then I have read that you shouid milk cow's so," taking Joe's seat and holding onto the two right-side udders.
'You think I can't milk, but see!" W'ith that she doubled up her fingers, and sent a little stream singing into the bucket. Mollie doubled up, too, and almost jumped out of the pen; with one whisk of her foot she sent the bucket rattling down the hill Poor Maria fell over against the fence with "Oh of horror.
"Oh, she has hit me! She has broken my leg!"
"Yot much," said Joe, unsympathetically.
"I should think not by the looks of this bucket," recorering his bucket, and endearoring to straighten out its curvatures. "Look at your hands! How do you think you can milk with such spikes as those? You had better go iato the potatopatch; they will be of more use there hoe ing out weeds."
Sure enough; the beautifully-trimmed nails were not intended to claw at a cow, Thus rudely dismissed she slowly wandered back into the house, but not in the least discouraged in her efforts to be useful. The longer she remained on the farm, the more she expatiated on country living. She wished she owned a farm. She was sure
she could make money. She would raise

## m. C. Crocheted leaf insertion

The explanation of abbreviations is as follows: Ch, chain; st, stitch or stitches sh, shell or sis
First row-Make a ch of 68 st. 1 sh in ninth st of ch ( 2 tr , ch $1,2 \mathrm{tr}$ ), ch 2, miss 4 st, 1 tr in the next st ( 1 ho ), 15 ho (ch 2 , miss 2 , $1 \operatorname{tr}$ in next st), ch 2 , miss 4 , 1 shell in next st ( 17 ho in all, between the shells), ch 2,1 t in last st of foundation chl, cli 5; turn Second row- 1 sh in sh ( 7 ho, 4 tr) twice ho, 1 sl, ch 2,1 tr, ch 5 ; turn.
Third row- 1 sll, 2 ho, 4 tr, 1 ho, 16 tr, 8 ho sh, ch 2, 1 tr, ch 5; turn.
Fourth row-1 sh, 9 ho, $10 \mathrm{tr}, 1 \mathrm{ho}, 4 \mathrm{tr}$, ho, 1 sh, ch 2,1 tr, cl 5 ;'turn.
rifth row- 1 sh, 2 ho, 4 tr, 1 ho, 4 tr, 7 ho, tr, 4 ho, 1 sh, ch1 2, 1 tr, ch 5 ; turn. Sixth row- sh, 5 ho, 16 tr, 1 ho, 4 tr, 1 ho, tr, 2 ho, 1 sh, ch 2, 1 tr, ch 5; turn. Seventh row $-1 \mathrm{sh}, 2$ ho, 7 tr, $2 \mathrm{ho}, 4 \mathrm{tr}$ 1 ho, $10 \mathrm{tr}, 6 \mathrm{ho}, 1 \mathrm{sh}$, ch 2, 1 tr , ch 5 ; turn. Eighth row- 1 sh, 1 ho, 4 tr, 7 ho, 4 tr, 1 ho, 4 tr, 1 ho, 7 tr, 2 ho, 1 sh, ch 2,1 tr, ch 5 turn.
Ninth row- 1 sh, 2 ho, 4 tr, 2 ho, 7 tr, 1 ho 4 tr, 1 ho, 16 tr, 2 ho, 1 sh, ch 2,1 tr, ch 5 turn.
Tenth row- -1 sh, 3 ho, 10 tr, 1 ho, 4 tr, 2 ho, 7 tr, $3 \mathrm{ho}, 4 \mathrm{tr}, 1 \mathrm{ho}, 1 \mathrm{sh}$, ch $2,1 \mathrm{tr}$, ch 5 ; turn.
Eleventh row-1 sh, 5 ho, $7 \operatorname{tr}(1 \mathrm{ho}, 4 \mathrm{tr})$ wice, 6 ho, 1 sh, ch 2, 1 tr, ch 5; turn. Twelfth row- $1 \mathrm{sh}, 5 \mathrm{ho}, 4 \mathrm{tr}, 1 \mathrm{ho}, 7 \mathrm{tr}$ ho, 4 tr, 5 ho, 1 sh, ch 2,1 tr, ch 5 ; turn. Thirteenth row- $1 \mathrm{sh}, 4 \mathrm{ho}, 4 \mathrm{tr}, 3 \mathrm{ho}, 7 \mathrm{tr}$ ho, 4 tr, 4 ho, 1 sh, ch 2,1 tr, ch 5; turn. ho, 1 sh, ch 2,1 tr, ch 5 ; turn.
Fifteenth row-l sh, 8 ho, 4 tr, 5 ho, 7 tr, ho, 1 sh, ch 2,1 tr, ch 5 ; turn. Sixteenth row-1 sh, 1 ho, 7 ho, 1 sh, ch 2,1 tr, ch 5 ; tur解 17 ho, 1 sh, ch2 tr, ch 5 ; turn.
Repeat from secoud row for the leugth required. Ella MoCowes

## m. C. CROcheted leaf lace

The explanation of abbreviations is as follows: Ch, chain; st, stitch or stitches sh, shell or shells; tr, treble or trebles; dc double crochet; sc, single crochet; ho, hole or holes; * or ${ }^{\text {*** }}$, repeat.
Take a chain of 100 stitches.
First row- 1 sh in ninth st ( $2 \mathrm{tr}, \mathrm{ch} 1,2 \mathrm{tr}$ ), ch 2 , miss 4 st, 1 tr, in the uext st ( 1 ho ), 22 ho (ch 2 , miss 2,1 tr in next st), ch 5 , miss 5 1 sh 2 , chi, ir in next st, ch 1 , miss 3 1 dc in next st, ch 4 , miss 4,1 sh of 3 ti ch $1,3 \operatorname{tr}$ in next st. ch 1 , miss 4 ,,$~$
last st of foundation ch, ch 2 st; turn.
Second row-l sh ( 3 tr , ch $1,3 \mathrm{tr}$ ) in sh, ch $1,1 \mathrm{dc}$ cunder first st of $4 \mathrm{ch}, \mathrm{ch} 4,1 \mathrm{sl}$ ( $2 \mathrm{tr}, \mathrm{ch} 1,2 \mathrm{tr}$ ) in $\mathrm{sh}, \mathrm{ch} 5,1 \mathrm{tr}$ in fourth s of ch, * $\mathrm{ch}^{\prime} 2,1 \mathrm{tr}$ on tr ; repeat from "until you have *** $14 \mathrm{ho}, 4 \mathrm{tr}, 7 \mathrm{ho}, 4 \mathrm{tr}$, ch 2 ( 1 ho ) $1 \operatorname{sh}(2 \operatorname{tr}, \mathrm{ch} 1,2 \mathrm{tr})$ in sh, ch $2,1 \mathrm{tr}$ iu third st of 5 ch , ch 5; turn.
Third row-1 sh in sh, 2 ho, 4 tr, 1 ho, 16 tr, 5 ho, 10 tr, 4 ho, 4 tr, 2 ho, ch 2, mis 1 st, 1 tr in next st, ch $5, * 1$ sh in sh, ch 1 , 1 d c under first st of $4 \mathrm{ch}, \mathrm{ch} 4,1 \mathrm{sh}$ in sh ch $9,1 \mathrm{sc}$ in 2 ch, ch $1 ;$ turn.
Fourth row-1 d $\mathrm{c}, \mathrm{s} \mathrm{tr}, 1 \mathrm{~d} \mathrm{c}$, all in loop of $9 \mathrm{ch}, \mathrm{ch} 2$; repeat the second row to **: 3 ho, $10 \mathrm{tr}, 2 \mathrm{ho}, 4 \mathrm{tr}, 9$ ho, $10 \mathrm{tr}, 1 \mathrm{ho}, 4$ tr $3 \mathrm{ho}, 1 \mathrm{sh}$ in sh, ch $2,1 \mathrm{tr}$ in third st of 5 ch , ch 5; turn.
Fifth row- 1 sh, 2 ho, 4 tr, 1 ho, 4 tr, 7 ho 4 tr, 5 ho, 4 tr, 1 ho, 7 tr, 4 ho, ch 2, miss 1 st 1 tr in next st, ch 4; repeat the third row from *.
Sixth row-Repeat the same as fourth row (only ch 3 st instead of 5 ch , after sec-

ond sh) to **, $8 \mathrm{ho}, 4 \mathrm{tr}, 7 \mathrm{ho}, 16 \mathrm{tr}, 1 \mathrm{ho}, 4 \mathrm{tr}$, 1 ho, 7 tr, 2 ho, 1 sh, ch 2,1 tr, ch 5 ; turn. Seventh row-1 sh, 2 ho, $7 \mathrm{tr}, 2$ ho, 4 tr,
1 ho , 10 t!, $\eta \mathrm{hm}, 7$ tr, 6 ho, ch 4 ; repeat the third row from \%.

Elghth row-Repeat the same as fourth ow (only ch 4 st iustead of 5 ch, after secoud sh) to ${ }^{*}, 5 \mathrm{ho}, 7 \mathrm{tr}, 1 \mathrm{ho}, 7 \mathrm{tr}, 3 \mathrm{ho}, 4 \mathrm{tr}$, $7 \mathrm{ho}(4 \mathrm{tr}, 1 \mathrm{ho}$ ) twice, $7 \mathrm{tr}, 2 \mathrm{ho}, 1 \mathrm{sh}$, ch 2, 1 tr, ch 5 ; turn.
Ninth row- $1 \mathrm{sh}, 2 \mathrm{ho}, 4$ tr, 2 ho, 7 tr, 1 ho,
tr, 1 ho, 16 tr, 2 ho, 7 tr, 1 ho, 4 tr, 1 ho $0 \mathrm{tr}, 3 \mathrm{ho}$, ch $3,1 \mathrm{sc}$ in first st of 4 ch, ch 3 ; from *.
Tenth row-1 d e, 8 tr, 1 d c , all in loop of 0 ch , ch 2,1 sh in sh, ch 1,1 d c under first st of 4 ch , ch 4,1 sh iu sh, ch : miss 3 ch , " 1 tr iu first t of next 3 ch, miss 2 st , 1 tr on tr, 4 ho, 4 tr, 2 ho $4 \mathrm{tr}, 1 \mathrm{ho}, 10 \mathrm{tr}, 2$ ho, 10 tr, 1 ho, 4 tr, 2 ho, 7 tr', 3 ho, 4 tr, 1 ho, 1 sh, ch 2, 1 tr, ch 5 ; turn.
Eleventh row-1 sh, ho, 7 tr ( $1 \mathrm{ho}, 4 \mathrm{tr}$ ) twlee 6 ho, 4 tr, 2 ho, 7 tr, 6 ho, ch 3 ; repent the third row from ".
Twelfth row-Ropeat the same as tenth row
ch, 1 tr on next tr, 3 h 4 tr, 1 ho, 7 tr, 2 ho, 4 tr, 5 ho, 1 sh , ch 2,1 tr h 5 ; turu.
Thirteenth row- $1 \mathrm{sh}, 4$ ho, $4 \mathrm{tr}, 3 \mathrm{ho}, 7 \mathrm{tr}$, 2 ho, 4 tr, 6 ho, 7 tr, 1 ho, 10 tr, 1 ho, ch 1 , miss 2 ch, 1 tr on tr, ch 3 ; repeat the third
how to arrange the hair
Tan shoes and stockings are worn with everything, and iu the dust are much more serviceable than black. Black, though, is to be preferred for dress occasions.
Embroidered white dresses will be worn
to be laundered, this can be looseucd and the top putf ironed like stralght goods. Flowing hair sllghtly curled is very bocoming to uost girls, and preserves their girlish look much better thau doing the hair up in too severe stylc. Many girls look older at fiftecn than they do after-
will keep it flat. For tho bordcr, wind the wool five times around the finger; crochet two chain, then eatch it under the ring and fasten; then two more chuin, and fasten into the nain shawl. Very good-sized ones can be bought for one dollar, which is
cheaper than trying to make it onesclf.


Fourteenth row-Repeat the sameastenth | so much again this summer that one can row to ${ }^{*}, 1$ tr ou second tr, ch 1,1 tr on next tr, 1 ho, 4 tr, 2 ho, 10 tr, 4 ho, 4 tr, 3 ho, 7 tr, 8 lio, 1 sh, ch 2,1 tr, ch 5 ; turn.
Fifteenth row- $1 \mathrm{sh}, 8$ ho, $4 \mathrm{tr}, 5$ ho, 7 tr , 3 ho, 4 -tr, 4 ho, ch 1 , miss 2 ch ,
ch 3 ; repeat the third row from *
Sixteenth row-Repeat the same as tenth ow to, 1 tr on secoud tr, ch 1 , miss 2 ch
 ch $2,1 \mathrm{tr}$, ch 5 ; turn.
Seventeeuth row- 1 sh, 23 ho, ch $5,1 \mathrm{sh}$ in sh , ch 1,1 d c under first st of $4 \mathrm{ch}, \mathrm{ch} 4,1 \mathrm{sh}$ in sh , ch 1,1 s c in 2 ch of previous row, ch 2 ; turn.
Repeat from sccond row for the length required.

## Ella McCowen.

## EMPIRE DRESS.

For a half-grown girl there is no dress so pretty as the Empirc. The waist lining is fitted as any other dress, but the outside material falls in flowing lines. The one we illustrate is very pretty in any soft wool goods. The crossbands of ribbon tie at the waist in the back, and can havo either long or short ends, as preferred. The
sleeves are very full; and if made n wash material, make the sleeve entire to the shoulder of the coat-sleeve pattern, and put the puffs on it. Then scw the top puff into the armbole securely, but only baste in the main sleeve; then, when it is
utilize some of those laid by for a season or two, by putting a wide hem under the embroidered edge. This, with perhaps new sleeves, will convert an old dress into a new one. Whitedresses are always the best thing for a joung girl, and always look well. Even a cheap one is preferable to a tawdry silk, trimmed profusely.
Beautiful challis are brought on for twenty cents a Jard, that will last one season and wash nicely for another. No matter how plain a whito d
large sleeves it is all right. $\qquad$ Ltuc:

## doilies and bralds.

Through the summer one likes some kind of simple needlework to take up, and these linen doilies seem to be just the thiug. Baste a square of linen the size you wish upon a piece of stiff writing-paper to follow, and outhine this with the narro braid; then use fancy stitches or spider webs to fill it in, put one row of the braid arouud the linen, and when it is tinished so you can rip it off the paper, crochet a fine edge all around it

These braids come in price from five to fiftecn cents a yard, and make very good foundations for different kinds of needle work stitches. The Roman cutwork pat terns could be followed with it
Shawl Corner.--This is made of ice-wool taken double; that is, you work two balls a once. Commence in the center, and form i

They answer for throwing over the head when sitting out in the evenings. Christie Irving. PAINTED SLATES.
In our rage for home decoration many aseless and ugly things have been admitted to our favor, where they cannot retain a lasting regard. It is expedient to clear away the ornaments which we have out grown at least once a year. If one has mimmens garret, a collection of old fashioned garments, articles of furniture afford many a hearty laugh, and for the afford many a hearty laugh, and for the
sake of laughing they may be worth saving.
When a little article is both pretty and useful we do not make fun of it; thorefore
a certain combination of slates won my approval at a glance.
If the slates are large they will be too heavy to make as safc a pocket as if they be of smaller size. A big wall-pocket will get full, and sometinic, with the weight o itself and its contents, down comes the whole with a crash that unnerves the housewife for a whole day
If you buy new slates, get one five by eight inches in size for the back of the pocket, and have the front of the pocke formed by another measuring four by six inches. Take a strip of strong, thick can vas two inches wide, cover it with red plush and tack it to the edges of the two slates to form the bottom and sides of the pocket. Beantify the slate-frames with a coat of bronze or gilding. Daisies are painted on the slates, or you may use any design you prefer. Use oil paints, and dip your brush in turpentine quite of ten. This will prevent the oil from spreading on the slate and allow your brush to proceed rapidly. Brilhant red ribbons are used to enhance the effect. A rich cord of the same color is tacked around the edge of the outer slate. A sponge and slate-pencil are at tached by means of very narrow ribbons, so that the front of the pocket may be used as a memorandum.
I said "if you buy slates," because it scems that this would be a pretty way to keep the slates which some dear children had carried to school when they were wee toddlers.
Artistic mothers have many ways of showing how precious are the inementoes of their darlings' babyhood. Iu a mother's bedroon I recently saw a photograph of her two childreu taken when they were quite young. She hall fashioned the frame herself, and along the top ran this couplet:

解 thoughts, my tenderesi care,

## everywhere.

SHOPPING.
All kinds of family shopping done satisfactorlly. Specialtles in infants' clothes, art materials aud linens. Inclose stamps for reply. Christie Irving, 120 Maple Ave., Springfield, Ohio.
Bothing new milk will take out most ruit stains. Dip the articles in several times. Another way is to dip in sour buttermilk and dry in the sun. Wash in cold water, and dry two or three times daily. Ciothes-piss boiled a few minutes, and quickly dried, once or twice a month, become more durable
FOR poison-oak, bathe in cream and guu-

## (Fint fitmusthold.

## VISIONS OF CHICAGO PIRACY

Ef Jer goin' to see the circus called the big ChiYe'd better cut Yer wisdom teeth an' sharpen 'em with care
about,
For they'll skin ye like the mischief

They're goin' to charge fer gazin' an' a extra lump fer thinkin', fer drinkin?
$\qquad$ Theyils stin sel ilie the mischief

It's a cent apiece fer coughin', an' jes trice as much fer sneezin';
A nickel ef ye hold yer breath an' two of 'em fer breathin'
shilling fer a whisper an' a quarter fer
They'il skin yel ilie the mischief
watch
out!
They'll tax yer fer the privilege o' walkin' on
the ground,
matter ef ye go a bead or ef ye,turn around,
An' jes because
a doubt-
They'll skin se like the mischief

HOME TOPICS.

SCMMIER SQUASH.-The common rookneck summer squash is and cut them in slices about a quarter of an inch thick, lay
them in salted water, with a plate on top to keep them under. Let the slices lie in the salt-water half an hour, then wipe each one dry and dip them first and pepper them and fry to a nice brown in lard or good drippings.
Painted $W$ alls.-From time to time articles are published setting forth the dangers to be found in wall-papers, and there is no doubt that where one layer of paper
after another is put on \#alls, as is sometimes done, it is injurious to health. Our houses at best are illy rentilated, and porous walls must absorb much of the
poisonous exhalations of the body, the dors from cooking, the steam from the hot suds of wash-day, etc., to say nothing of the tobacco smoke which permeates everys nook and corner of many houses. It erable to any other, as they are impervious to odors or moisture and can be washed when soiled, or painted orer at small expense. While a painted wall may lack the rich decorative effect of one covered witb
modern paper, yet it can be made to harnonize with the idea of a quiet home, and pictures will do the decorating. A rough-finisbed wall when painted is considered more artistic than one with a smooth surface. A soft, undecided blue blue, makes a very pretty color for walls and ceilings. A north room, which lacks sunshine, can be made to look bright and almost sunshiny by painting it cream olor. Very pale pink is pretty for a bed room. A border of paper
a painted wall if one likes.
OLD PEOPLE.-There is nothing more pathetic in the world than old people who have giren up their old home into rounger work is done, that they are uot needed any longer. We know this is the case with some that we have seen. Instead of this, and mother in our household, we should see to it that everything possible is done for their comfort and happiness. If they
have led an active life, they will be happier to still continue to do some light work when they are able. Encourage them to take an interest in the life and work of the family by often

I remember, when I was a girl, of visit- the waist should be tight-fitting, and the ing a cousin who was a widow and had her aged father living with her. Father's comfort and happiness seemed to be first in her mind. He had been a farmer, and missed the old life, but she interested him in her little garden of fruits and asking his opinion and consulting him about everything pertaining to it. No
matter who was there, che was always ready to talk with father about old times ready to friends, or to listen interestedly to his stories, although she may have heard them many times. Meals were served at the hours to which he had been accustomed, and old-fashioned dishes prepared to please him. His comfort was looked after in every may, and yet he was led to believe that he was taking care of her, and his life was made
I know that old
I know that old people sometimes grow retful and faultfinding-sometimes from ill health, when they should be cared for all the more tenderly-but I think it is sometimes because nothing is provided to occupy their attention, and they grow to
feel that they hare outlired their usefulfeel th

If we have no old people in our own household, is there not some whose children have all passed on before, and tho have no one bound by the ties of kindred to look after them. In almost every neighborhood we can find some whose last 5 ears we can help to brighten. We are all hasteniug on toward the sunset of life, and there is no better help toward a sweet and gracious old age for ourselres than a lov-
ing, tender care for the comfort and happiness of others.

Matda McL.
NECESSITIES OF WORLD'S FAIR TRAVELERS.
The first thought that confronts a woman in contemplating this risit is the wardrobe, what shall it be, how extensire, deciding these perplexing questions, take deciding these perplexing questions, take
the miuimum amount of clothing required, instead of the maximum.
Emancipate yourselves at this Columbian celebration of the tyranny exerted by an excessive wardrobe. What has been done can be done. The past few years European tours have been made by women with no clothing except that contained in a valise. I recall one instance in particular of this being done. A gentleman of in make a trip to Europe. As his business required him to travel hurriedly from one point to another, he could not assume the care and bother of a trunk. For this reason he objected to his wife's accompanying him. Woman-like, she was equal to the
emergency. She donned a neat, tailoremergency. She donned a neat, tailor-
made suit, and placed in her traveliugbag a black silk suit, having two waists, one being made high in the neck, the other

With this meager wardrobe mp lady attended many distinguished gatherings, and appeared well dressed, too. Her black silk dress with low-necked waist served for stately dinners and erening wear; for all other dress occasions the black silk with high-necked waist was worn. This trip proved especially enjoyable to both hus and and wife
Would not women whose Mecca is Chicago be wise if they would follow this lady's


## Haiddbag.

example? All the clothes that are absolutey required for this trip are the following: Seamless stockings, with a comfortably-
fitting shoe-one already broken in-two fitting shoe-one already broken in-two
suits of union underwear of summer suits of union underwear of summer
merino or balbriggan, a ruffled or lightweight, quilted skirt of black brilliantine or silk, and a good suit of fins serge in dark blue or gray. The skirt of this suit should be untrimmed, and finished at the raist with a girdle instead ofaband. There hould be made to wear with this skirt a goods. The waist a waist line about six inches. The lining of
outside made full.
The advantages of this suit are, that if the weather is warm, the waist can be belted and worn over the skirt, while if the weather is cool, the waist can be worn with the skirt portion of the waist under the dress skirt, with blouse effect, in counectiou with the blazer.
nectiou with the blazer.
If one expects to stay some time, a black Ohina silk should be taken for special occasions. Either a half-length or full-length casions. Either a half-length or fullength
wrap will be needed. Very desirable long wraps-Newmarket style-can be bought made of cravenette, a new, serge-like, dustproof and waterproof materiai.


## Dressing-case.

The hat for trareling may be an alpine to match the suit worn. A walking-hat hould be worn on the grounds.
A nicely-made wrapper of pretty, fine flannel, or colored cotton goods, will serve both for a night-dress and neglige gown. With reil and gloves, the wardrobe is complete.
With this outfit a trunk is unnecessary. All that is required is a ralise. The GladAll that is required is a ralise. The Glad-
stone traveling-bag is best, or a home-made stone traveling-bag is best, or a home-made
hand-bag, with perhaps a shawl-strap. If a valise is used, it is well to tack a pocket to the lining of one side for stationery.
The hand-bag illustrated is neat-looking and commodious. It can be used to carry much or little, adjusting itself to its contents. It is made as follows: measuring fourteen inches by fourteen inches is made of black broadcloth or serge and lined with sateen. The top is hemmed and a draw-string run in two inches from the top. The lower outside part of the hand-bag is made of a piece of tailor's canras, covered with the material. A pocket is on one side for coin and the hand-
kerchief, and one is on the other side for kerchief, and one is on the other side for
stationery. Leather handles are fastened to the top of this piece. This bottom piece laps over the lower part of the sack, and the bottom of the sack is plaited into it. If a shawl-strap is used, it adds much to the neatuess of the appearance of the package if a corer is made. This is easily made. Cover a piece of canvas twelve inches wide by eighteen inches long with black serge, or serge that matches the suit in color. Roll the articles to be carried together, and attach the shawl-strap in the usual way. A traveling-case is also meeded. It made of a double piece of gray or butcher's linen, with a piece of tailor's canvas betweeu for stiffening. The canvas and inside liniugs are basted together, and strips of elastic and pockets with flaps are sewed to these. The pockets designed for soap, the sponge and mediciues should hare linings of rubber cloth basted in them. After the elastic and pockets are in place, baste the other piece of linen to the canras, and bind all together with tape. One end of the dressing-case is finished with a ring and the otber end with a piece of tape. The flaps, on the sides are laid over the case, and it is rolled up and ied when not in use
It is well in traveling to always take a few simple remecties in case of sickness. It is also well to carry a rubber hot-water
bottle and a syringe. A rubber air-pillow
is a couvenience
Sophia N. Reddin Jenkins.

## STOp THAT Constant Hackisg, by remor-

ng the irritation in the throat, and subduing
any inflammation that may exist there, by

We lore to see children amused, and think the old-fashioned games very healthful pastime for them. Every mother know the time-honored ones of "B Buff," "Hunt the Slipper," "Hide and Go Seek," "Hide the Switch," "Pussie Want a Corner," and others of a similar nature, of which perhaps the children have grown tired, and Te think the suggestion of some new games will be acceptable at this season, wheu children's parties are in order.
"Hunt the Whistle" is a popular game with little English girls and boys, and may become so with their little American cous ins. To play it, find out the children presen Who hare never played the game. Those Who understand it form a circle, each being are sent out of the room. At a giren sig nal one of them returns and is invited to nal one of them returns and is invited to
enter the ring, where she kneels and buries her head in somebody's lap and replies to the questions asked, which should be in relation to frieudships, failings or dislikes Who stole an apple? Who was late a
school? When were you punished? orsim school? When were you pumished? orsin ilar questions. Of course, all such charge are indignantly denied, and so the whis giren to attach a little ribbon the tle on it to the child's back; then he orshe is bidden to rise and prow discovering who blew the whistle. As th accused mores, one after another of th children catch the whiste and The frantic endearor to discorer the whis-
tlers before they can hide the whistle or tlers before they can hide the whistle or
pass on, the astonishment when the sound is always behind the hunter creates roars of laughter, and no end of merriment to the little ones engaged in the play. As soon as the trick is discovered, the discoverer joins the ring of the initiated, and a fresh victim is admitted.

An auction at the close of a children's party is very pleasing to little guests. Give each the means of purchasing the goods offered-say two or three dozen beans, pins or buttons. Let them understand they can buy any parcel they like to that value, can buy any parcel they like to that value,
or two or three smaller ones. Then have a number of trifles wrapped in pretty fancy papers and shapes-a penknife, a ball, put in little boxes; a doll in a long parcel, a game in a round parcel-all put up with a view to deceive the little purchaser as to what it really is. An older boy who is full of life and fun, should be selected as the auctioneer, and can greatly amuse the little people with jokes and laughable remark in offering his wares for sale. go up, and the odd-looking parcels bring good prices, creating great merriment when opened and are found to be so different from what they seem. In a little while the children enter into the spirit of the fun children enter into the spirit of the fun,
and enjoy the game immensely. The last articles sold should be fruits and sweets, when it should be seen to that all share equally in purchasing these articles.
Another game which has the merit of norelty is called "Tossing the Feather." To play it, form the party into groups each group sitting as close as possible to gether in a round ring-about seven or eight children. Then a feather is tossed into the air, one feather for each little group. The aim of the game is to prevent the airy trifle from coming down again and this is accomplished by blowing a hard as the players' strength will allow erery time that the feathers appear to b coming too near. The one into whose lap or upon whose head the feather finally se tles has to retire from the list and wait fo the others to be thus turned out. As the rings of children decrease in number, they can be called from one ring to another, til a solitary victor is left alone. It is usually the merriest children. Who go out first, fo they cannot laugh and blow, hence catch the falling feather.
These and other childish games furnisl musement to restless little ones, and when indulged in relieve the mother many time from the labor of entertaining or watching the children out of mischief

WALL PAPER
 ATH A COMPLETE LADIES CUIOE

## THE DISCIPLINE OF FAILURE.

It has been said by wise men that no one can make a bad figure in the world who understands his talents, and no one can appear well who mistakes them. We as-
sent to this at once. Viewing ourselves sent to this at once. Viewing ourselves
and running over a list of our acquaintances, we know that the successful person are those who are iu the right places. humble pesition, graciously accepted and well filled, excites more admiration in bcholders than the exalted station for which the occupant is evidently unfitted. But just here clash two important traits of ment.

The writer, after reflecting on these op posing characteristics, concludes that am bition should be an impulse of youth.
Contentment should come at uid-life and Contentment should

In gaining self-knowledge there must be the experience of failure. fie doubt the truth, or pity the lack of enterprise, which must have existed in a person who says he has never failed. Fortunate are those whose failures come before success, for come they will sometime. In reading the biographies of noted men, we find that very few of failure, and it may be said of some men who are not celebrated, but who are incidentally mentioned in the history of thei times, that the cause of their obscurity wa an inability to profit by their mistakes.
Failure has either of two effects: It teaches a person that he can never accom-
plish what he has attempted, or it convinces him that he can succeed, though in th past he has followed wroug methods. As an instance of the first, Lord Macaulay tells a striking anecdote:
A certain Mr. Crisp, who lived in the time of Garrick, took it into his head to write an inımortal drama. Mr. Garrick, who was his friend, advised him to be and warned him of the possibility of flat failure. But Mr. Crisp insisted, and there is nothing wrong in that, for a man who thinks he can write must be perse
vering. The drama was a tive-act tragedy vering. The drama was a five-act tragedy,
built on the most complicated plan and embellished with tlights of eloquence. In short, there was nothing natural about it. Its success was impossible. After abso-
lutely forcing it before the public for a few nights one season, the anthor spent all the next summer revising it, with the hope that it would finally gain popularity. But even his friends could not bring themselves was obliged to admit that he had failed. He had every quality except genius to be a successful writer. Information, facie been content to exercise these he might have been a happy and useful man. He should have accepted his limitation. He had attempted what he never could accom plish; but instead of being disciplined by bis failure, he sacrificed everything to his
vanity. He left London, retired to a dis tant country-seat, and there for thirty years brooded over his defeat.
All of us know that there once lived a French writer named Honore de Balzac. Whether we have read his books, or know if he is now living or dead, we at least recognize the name. For all the world to know a man's name means that he is a
success. But when we come to study this man's history, to our surprise we find that before he had one prosperous book he wrote thirty which failed. Thirty times he had the discipline of failure. He lived in the utmost poverty, but so strong was his bent for literature that not even his from his purpose. When he died, at the from his purpose. When
age of fifty-one, in the year 1850, he left forty-five volumes of successful
He is highly praised by that master critic M. Taine, who says, "If you wish to know France in the age when he lived, consult Balzac.
It is said that after his thirty unpopular books he abandoned old ways, in whieh he had suppressed his individuality, and struck out in a new path directed by his peculiar talent and by the kno
previous work had brought him.
In financial affairs many very successful men learned to prosper by means of the discipline of failure. Economy and caution, unless naturally a part of one's disposition, must vindicate their necessity. In many to failure, but force of circumstances.
"Chill penury repressed his noble rage, And froze the genial current of his soul,
Lay be said of many an aspiring and
thy young mau. The wealthy seuator years getting his fortune started. He has years getting his fortune started. He has
not forgotten the ambition of his youth, hedged about by insuperable difficulties, and for that reason lie has been in favor of cheap loans from the governmeut. "Ah," he says, "how many fine chances for speculation I had to let slip merely for the lack of a few hundred dollars!"
In the common, but far from insignif cant, art of housekeeping, how much of final success is tue to the discipline of failure! Loaves of bread burned, loaves not enough baked; cakes that were heavy, pies that were tough; husbands' shirts not properly ironed, towels and table-clothe public vocations, only that family affection turns the failures to merriment. The famous housewife has to earn her fame like any other artist.
sensible cotemporary newspaper remarks that "leaping into success at one bound" and "waking one morning to find fame," are expressions more common in speech than experience. If such things appear to be true, they are preluded by a long, slow, silent season of preparation. Flowers can no more sprout, shoot, bud and blossom i
If, then, we are convinced that we have tried that at which we never can succeed, the part of wisdom is to abandon it at once f, however, we feel conscious of latent power, the words are, "Try, try again." mase of premature discouragement, the race of life much depends ou a deep the race of life much depends ou a deep persistent bravery and a faultless prudence we do not attaiu brilliant success, there is something else in life equally valuable, or more, and that is a self-possessed serenity It is said of Henry Clay that no one ever bore cutting disappointment with an airier grace. His fortitude was none the less noble because it was gracen conspicuously fortunate persons are not satisfied, because the one high ain of their efforts never was reached, from which we conclude that no ans a less he belongs to that small class who have "greatness thrnst upon them." By means
of the discipline of failure we must succced, we nuust grow, or at least we must accept destiny with the "airy grace" which robs misfortune of her triumph

Kate Kayffyan.

## WHAT CAN AMARYLLIS DO?

"Did you say you must have work, Amaryllis?" and Miss Morris adjusted her glasses and looked not unkindly at the young girl with flushed cheeks and eager we will talk it over. What can you do?" "I don't know."
"Can you
"No. I am not educated to teach. I have given a few music lessons, but they never "mounted to anything."
"Could you be a nursery governess?"
'I think not. I don't care for other folks' children."

Can you be a saleswoman in a shop? "Oh, dear, no! I can't stand on my feet "I see the Knitting Core in washing." for help. fond of knitting.
"But this means knitting by machine, and one of the first things I should do would be to knit into my hands.
"You sew beautifully, Amaryllis. Would you be willing to go into Mrs. Cary's "I ?"
hate the needle. I can only do very plain sewing well. I am very sure to get a
nervous headache over it. I can't think of it.'
"Could you be a lady's companion?"
"I wouldn't like to say," Amaryllis hesitated. "I don't like to be ordered to do things-to have any one look at me, and tell me to do this or to do that-it would kill me. I am very sensitive."
"Amaryllis," said Miss Morris gently, "I know that you are timid, shrinking sensitive, but the cold world will not put it in that way. They will say it is a lack of Morris There was a pause, while Miss Morris rested her face in her chin, and could do.
"You are quick and bright, Amaryllis, why not learn typewriting?"
"Irdid try it once," said Amaryllis, woe-
fully. "After I had sent out one letter beginning, 'גIy Dear Friend,' the man said I
was incompetent. I have hated the sight of a typewriter ever since.
Miss Morris looked for a moment as if a dash of cold water had been thrown in her face, and then went on patiently are ueat, tidy and very iudustrious in your own home, why not takいa position as workiug housekeeper in a small family?" "I never learned to cook well. It always ing orer the hot stove"
"How would it do for you to go back to the stockinet mill where you werc inspec tor? You seemed to like it there, and the work was light.
"Yes, the work was light, and my bin the lightest of any, but it injured my health. The air was filled with floating particles of cotton that settled in my lungs; I coughed up almost a whole shirt every morning." "Why not go to the collar and cuff fac
"Oh, I tried that, and nearly lost my eye ight trying to do fine work in a dimly lighted room. All day I was surrounded did everything they could to injure me be cause I would not associate with then. hate such company"
"Why not go to Mrs. Roseberry's shop and learn the milliner's trade?"
"The work is not steady. I could not
earn enough to pay my board half the
"Perhaps," suggested Miss Mor'ris, faint-
y, "you would take an agency"
would rather beg," said Amaryllis, impatiently. "I tried ouce going around with a machine to make buttonholes. The very first place I forgot miy lesson, and
could not make the machine work. The old lady said her fingers had served her for forty years, and she guessed they would take her to the end.
"I know you think I am ridiculously proud, and lack sense, but really, Miss Morris, I have tried," and the tears started to the young girl's eyes. "One friend of mama's persuaded Mrs. Vaughn to take were from six in the morning till hour wight: I was the servant of the servants, with no Sundays, no afternoons, no time ever to myself. I can't tell what I did, or rather, what I did not do-it was something friend of mama's, she treated me as one of the family and paid me in old clothes One day I fainted from sheer exbaustion and was carried to the hospital. I was so tired and discouraged, and I have never ing in one of the stores in New York, but never could earn euough to pay my board. I have done quantities of fancy work, but that does not pay. I have failed in everything I have undertaken. There is no us fitted for anything

## Frances Bennett Callaway.

## SICK-HEADACHE.

There are varieties of headaches produced by various causes, as overstudy, or exhaus-
tion; or by a peculiar state of the system, as the throbbing pain in the head which precedes apoplexy; but these should be prescribed for by a physician. In many cases the cause of the headache is deepseated and must be removed before permanent relief can be hoped for. Neuralgia in any part of the body implies that the nerves are starved and are crying out for food. This must be supplied before the
pain will cease.

There are, however, measures which can be tried to give temporary relief, and no one who has notsuftered from the headache of neuralgia knows what this means to the victim. Camphor and chloral, rubbed to gether until they form a liquid, may be painted over the spot, or a menthol pencil used in the same manner. If these cannot ery hot wrater and a mustard paste applied, taking care not to leave it on long enough o blister. A flannel wet with chloroform will sometimes ease the pain. A cupful of hot tea, followed by a teaspoonful
rianate of ammonia may do good.
A person subject to this form of headach should eat plenty of nourishing food, as fresh meat, all the cereals, vegetables, particularly beans and celery, and drink milk, ticularly beans and celery, and drink milk,
hot or cold, and cocoa in preference to tea hot or cold, and cocoa in preference to tea
or coffee. These may be used as a stimulant in necessity, but not as a regular beverage. Friction of the whole body by rubbing is valuable, and it should be kept warm in cold weather by suitable clothing, with
flannel uext the skin, especially at night.

The teeth should be examined by a dentist and properly attended to. If these and this a doctor must prescribe.
When the nausea from sick-headache is first felt, perfect rest in bed with a tablespoonful of hot, strong coffee, without milk or sugar, given every fifteen minutes for six doses, may ward off an attack. Oxalate of cerium is sometimes very effective.
It can be procured at the druggist's, and should be put up in powders of twenty grains each. Shake one dry on the tongue swallow with a little water, and repeat in an hour. Soda-mint tablets, one every ten minutes until six have been taken, are efficacious if administered early.

Persons subject to sick-headache should regulate the diet with care, avoiding rich food and fats, using lemons freely, drinking the juice squeezed in water. They hould take exercise in the open air, have a sponge bath, followed by brisk rubbing day, and use some simple laxative, if it is nccessary, once or twice. Its use
should not be depended upon or it will increase the difficulty
TO EXTERMINATE ROACHES, ANTS AND

## OTHER VERMIN

Sprinkle powdered borax freely about the sinks, on closet shelves, and in crack about the kitchen where they exist. While destructive to these pests, borax is abso lutely harmless to mankind.
. Borax is also the best preservative known for fish, flesh or fowl, and for these pur poses immense quantities are used; a ligh sprinkling of powdered borax will
them from decay or putrefaction.
Borax is cleanly, cooling and sedative; is good for burns, scalds and wounds. lump the size of a pea, dissolved in the mouth, will allay coughs and throat irrita tion; a pinch of the powder used as a snuf is beneficial in catarrh; and a solution ten grains of borax to one ounce of pure water is a soothing lotion for inflamed eyes It is an excellent cosmetic, allaying al irritation of the skin, and making it sof and white.
It is said that cleanliness is next to godli ness, and borax is one of the most cleanly and cleansing substances known. In the not exist, and with the eradication of dir the germs of many diseases are destroyed There can be no surer way to preserve the healthfulness of the home than by a free use of borax, which cleanses, deodorize and disinfects.-A Transcontinental Way farer, in Good Housekeeping.

## FLANNELS.

Flannels should never be wrung nor writer in the Yew York Ledger. They should be first dipped in quite hot sucs, then rinsed little soap has been put. To get rid of the first suds they should be gently pressed, and after rinsing be pinned out on lines without auy wringing or pressing what-
ever. Press any silk or muslin facings, ever. Press any silk or muslin facings,
bands, etc., but fold and smooth the gar ments and put a heavy weight upon them They will be much more comfortable when thus treated, and will last as long again.

## mending table-linen.

A housewife whose table-linen always does her good service, mends it with flax embroidery cotton of a number to correspoud with the quality of the cloth. Under ragged edges of the tear she bastes piece of stiff paper, and makes a network of fine stitches back and forth over it edges, carrying the stitches about an inch beyond the edges of the cut. Thin places and breaks in linen may be run with the flax or embroidery floss, and towels shouid be mended in the same way.-Daughters of America.
WALL PAPER at FACTORY PRICES
 SHORTHAND

(3) Simday Attemont.

## 11 will be well. I heard this blest assurance

 Flung o'er the borders of the unseen spheres. To walk serenely on and meet the years. Like the sweet voice of some consoliug spirit,Down through the silence of the night it fell. Iy soul's fine ear was rightly tuned to hear it

## 11 will be well. Why should we ever doubt

$\qquad$

He was not aided or controlled by man.
$\qquad$

## ur questioning souls, if we but do our duty

All will be well. Let not our hearts be troubled By passing clouds or shadows that may fall, The glorious end will justify it all. will believe that voice from heaven's portal it spoke to me a truth that is immortal
-Ella Wheeler Wilcox, in Adtance. UNSAFE FOUNDATIONS.

AGOOD and a firm foundation is onceded by all to be indispens-
ble when building any kind of a structure. In our large
cities men expend large sums of money in digging deep and laying such a foundation as that any amount of weight will not cause it to sink or shake. character that they expect them to last come to an end. They calculate that these lofty and artistic structures are absolutely fire-proof.
A distinguished young French scientist is expecting to build a conservatory on
the summit of Mont Blanc, in Switzerland, for the purpose of obtaining better ashim to clear the snow away in order to get a rock foundation. So by some expering the snow to a certain density, he can safely erect his building upon it.

Although he cannot remove the snow, weight of his building as long as it will be needed, yet when this world is wrapped in flames and the elements are melting with ferrent heat, as Peter said it would be,
snow foundations, steel foundations and every other kind of foundation, except that which is founded upon the Rock of Ages, away. What man calls fire-proof will not any longer than a snowball on a hearth. The shakings of God's earthquakes will make every foundation tremble, unless it Man cannot build against God. The only safe way is to believe God's word, conform
to it and be ready when he comes.-The Firebrand.

JESUS AND THE RESURRECTION
"The resurrection of the Lord Jesus is the central fact of Christianity. Christian-elements-a person and a fact. The person and the fact are joined in the condition mouth the Lord Jesus, and believe in thy heart that God raised him from the dead, thou shalt be saved.' The resurrection is to us for righteousness, if we believe on dead.' It is the ground of our justification: 'He was delirered for our oflenses, and was raised again for our justification.' It is the
source and standard of all Christian living: 'If ye then be risen with Christ, seek those
things that are above, where Christ sitteth at the right hand of God.' It is the highest
Christian attainment: 'I willingly suffer the loss of all things that I may know him the measure of God's power in the saints: greatness of his power toward us who
believe, according to the working of his mighty power which be wrought in Christ wht it there is no Christianity and Withtion: 'If Christ is not raised, your faith is urrection is the beginning, the sustentation and the consummation of the Christian life. The ordinance of baptism commem-

## Hapr RELIGION AND bUSINESS

 this age of the man of business who, in this age of speculative and lawless grred, so regulates his financial pursuits by the golden rule as to feel justified in committing them to the care of God, fully per-suaded that his providence will guide him suaded that his providence will guide him to as much prosperity as shall best promote a man, instel and eternal well-being. Such aman, instead of torturing himself with precept, "In nothing be anxious," believ ing that God will "guide his heart and his thoughts." Should that providence deem thoughts. Should that providence deem
financial reverses profitable to his. higher innancial reverses prontable to hisf higher
life, he will gracefully and cheerfully aclife, he will gracefully and cheerfully ac-
cept them. He will not, as John Newton cept them. He will not, as John Newton
suggests, like one going to take possession suggests, like one going to take possession
of a large estate to which he is heir, take blubbering because his carriage has broken down, when he is within a short distance of his property, and makes it necessary for him to finish his journey on foot. But looking with steadfast faith on his heavenly inheritance, he will cultivate dition, saying with want nothing but more grace."-Christian Advocate.

## take what you have.

the example of the Israelites with us in to their free gifts for the tabernacle. Each one took such things as he had. Some had gold, others had silver, and still others ha brass. One had stones for the ephod, an other had oil for the lamps, another had spice; some had bracelets, some ear-rings, and some had fine linen. In fact, they all had something, and each took of the things he possessed, whether it were little or large, of much value or of but small worth. And it does not appear that he who had but was not equal to what another had. The small gifts were as acceptable to the Lord, if they were the best the owners had, as were the greater gifts of those who possessed them. This is a beautiful, noble, inspiring example. The application to ourselves is pertinent and forcible. Take what you have, be it ever so small, to the prayermeeting, the conference-room, the Sabbathschool, and the treasury of God's house.
Make no agology for the littleness of the gift, if it be the best you have.

There are great multitudes of lowly lives lived on the earth, which have no name among men, whose work no pen ever records, but which are well known and unspeakably dear to God. They make no make life beautiful and noble noise to God's most potent ministers are noisel God's most potent ministers are noiseless.
How silently the sunbeams fall all day How silently the sunbeams fall all day
long upon the fields and gardens, and yet what joy, cheer and life they diffuse! How silently the flowers bloom, and yet what sweet fragrance they emit! How silently the stars move on in their majestic marches around God's throne, and yet they are suns or worlds! So Christ has many earthly are never known among men as workers, whom he writes down among his noblest ministers. They do no great things; but they are blessings, oftentimes, perhaps, unconsciously wherever they go.

## HE CARETH FOR YOU.

Speaking on the subject of "rest;" Mr. Moody said in one of his addresses in Eng land recently, that Christians should not people seem to take a morbid pleasure in ral:ing up all the sorrows of the past; to these they add the burdens of the present;
then they look ahead and anticipate a great many more trials than they will e
perience in the future; they tie them all together, swing them across their shoulder, and go reeling and staggering through the world with the accumulated load. If they should come to a warm religious meeting moment and say to themselves, "What a er do they leave the pew than the old load of trouble is shouldered, and they are as the Lord, for he careth for you

## A TOBACCO-STINKING BREATH

is not nice to carry around with you. If you are tired and want the means of an immediate guaranteed tobacco-habit cure
Smoke mailed free. Write to-day.
Address THE S


WHAT IS FAITH?
What is faith? It is a belief in things hich we do not see. "It is very difficult to believe in what you cannot see," you say. Well, whether it be difficult or not, you do so every day of your life. You would like to grow some gay, lovely fowers in your garden. You purchase a packet of seeds. There are a number of little, dry, hard, dark atoms-not in the least like the bright blossoms you want. But you are seeds of the fow who knows, that these are grow; so to grow; so you take them and put them into
the ground. That is faith. Then, after a few weeks you see a little bit of green appear above the earth, and your are quite happy. right." But it is not a flower; it is up all little bit, as it were, of green grass, and y a not a single one of the colors which you are looking for in your flower. And yet you feel quite certain that it is all right. That is faith again. And then at last, after more weeks of sunshine and shower, the full, glorious flower bursts forth in all the Then you need no more faith in this mat tel, for you see the flo

## SONGS IN THE NIGHT

It is said of a little bird that it will never learn to sing the song its master would have it sing while there is light in the hears, but learns a snatch of every song it melody of its own. But the master cover the cage and makes it dark all about the bird, and then it listens and learns the song that is taught it, until it becomes its own. Ever after that it sings that song in the light It is much so with us. We will not sing the song God would have us to sing till he tion. Then the voice of the blessed Savior can teach us a new song, and ever we wil sing it in the light he gives. The sweetes songs are sung by those who have come our darkness, and God "wo guch jo and peace in believing, that our songs, begun in the darkness of sorrow, like the angel anthems over the plains of Bethlehem, shall roll on in perpetual fullness o Christian.

SINGULAR
The skeptic who says he hasn't faith enough to believe in anything at all, will go peacefully in a car on a night expresstrain, reasonably sure that the engineer




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## STERLING SILVER

 rampad olt Dr Thompson's Ejo-Water

## furn Ğlramings.

## MAIZE FOR THE NATION'S EMBLEM,

Upon a hundred thousand plalns Its banner rustled in the breeze, From coast to coast bet wixt the seas.

It storms the hills and fills the vales It marches llke an ariny grand, The continent lts presence hails, Its beauty brightens all the land
Far back through history's shadowy pag It shlnes, a power of boundless go The one unfailing wealth of food. God's gift to the New World's great need, That helps to bulld the nation's strengt Up through beglnnings rude to lead
How stralght and tall and stately stand Its serrled stalks uprlgbt and stroug What grace and charm to it belon

What splendid curves in rustling leaven What richness 1 u its close-set gold What largeness in Its clustered sheaves New every year, though ages old! America from thy broad breast It sprang, beneficent and bright, Of all the gifts from heaven the best,
For succor and delight.
Theu do it honor, give it praise ! A noble emblem should be ours;
More glorlous than a myriad Howers, And let the states their gariands briug Each its own lovely blossom-slgu; But leading all, fet maize be king, Holdiug Its place by right divlne -Celia Thaxter, in New England Magazine.

TMPROVING THE FARM. wo young men, by the sudden death of their father, were left learued the mason's trade and the other desired to be railroad engineer. They there fore determined to sell their new posses sion. But no buyer appeared. Several at the place admired the buildings, conveniences aud broad, smooth fields, but made no offer. At last an clderly man, after going over the place "Bovs, the farm is fertile, it lies right, is "Boys, the farm is fertile, it lies right, is
ou a good road and near enough to market and social privileges, and the buildings suit me, but-" and there he stopped "Well, what is it?" exclaimed the elder "Is the price too high? Haven't you any thing to pay down? Can we not come to
some understanding?" "Yes," he replied some understanding?" "Yes," he replied "I have the purchase mouey in my pocket your price is reasonable, if- On my way here I passed an orchard bending with beautiful fruit, and neu were picking and barreling. Oh, how fragrant it all was! At my time of life I could never hope for such buy." In vain the owners urged him to a different decision, eveu reducing the price of the place $\$ 500$ and iucluding a pair horses. The suggestion was a potent one however, to the owners. had three acres planted to trees,

The following spring the area was doubled, only three varieties being chosen
(Porter's pippins and Baldwins) (Porter's pippins and Baldwins), and the young men went "to work for a year or
two to make the place salable." The trees grew apace, and so did the youths. At the end of two years the farm was so different in appearance and so full of interest that they hardly thought of leaving it. The and characteristics of borers, and going still further, had become interested in other insects. The other had visited the fruitful orchard of the neighbor mentioned and had mounted a hobby-horse. Five years from the setting of the first trees an offer of more money was made to them
than their original selling price, but they than their original selling price, but they of double their old price would be no temptation. They have learned to bless the old gentleman for not buying them out, and
no other spot on earth is so dear to them no other spot on earth is so dear to them. The trees have not yet yielded much iu money, but the farm has been made to pay in other directious, aud the owners are more than satisfied with what at first was termed their "bad luck." To-day they acknowledge what many an older man has proved, that fruit-trees have a potency not
only to increase farm values, but one's interest and general welfare, even before the lucious fruit is borne.-Hollister Suge, in

THE PIGEON AND POULTRY HOUSE. Many designs havo been publlshed of compina of these designs have not tried the plan of these designs have not tried the plan and pigeons in the same house, the pigeons in the upper story. Usually these desigus are for poultry alone, and to please the pigeon fancier, an annex in the roof is added.
Poultry and pigeons should not be kept in the same house. The writer has tried it to his dissatisfaction and loss. If a flock of pigeons be kept for "looks" or for "company," the top of the heu-house may serve as a nesting-place, but if auy attempt be uade to cultivate for squabs or for fancy, they must be separated.
As far as heard from, all hens and cocks have lice. The cleanest house is not free rom them, even if it be whitewasher very week, and lice like heat, rise-climb up as far as they can get if the temperature coutinues to agree with them. When a house is built to accommodate both hens and pigeons, one over the other, the floor between is not made as tight as it would be if exposed to the weather, and if it be made tight-tight as it can be with matched boards and glue, the matching will shrink. There will be shrinkage somewhere anyway it may be built, and upward will triveling to lice host. The lice as squabs-the younger the better.
Usually, pigeous over poultry-houses are under the roof, an intolerable hot place for any creature, except pigeons and lice. Pigeons appear never to be too warm, and lice delight in a temperature of one huudred and over. The roof of the house, often, dred and over. The roof of the house, often,
if uot usually, is not high enough above the floor to allow a person to stand upright, unless in an A roof in the center, or if a lean-to roof, on one side.
Now, the man who keeps pigeons for profit or pleasure must be able to get into every part of it convenieutly. The nests and the floor must be kept clean, and it is often necessary to catch pigeons in the loft. To do all this, bent double, or on
hands and knees, especially when the temperature is one hundred or more, is enough to cure a man of the fancy.
If pigeons cannot have a house of their own, they should have a room where a person may stand upright in every part. Then the fancier may control his birds without breaking back and losing temper, and without swinging in the loft the terrifying catch-net on the end of a pole when it is desired to catch a pigeon. In another paper I propose to give a plan of a pigeon-
house, and a plan of a pigeon-loft iu a house not desigued exclusively for pigeons.

> GEORGE APPLETON

## the farmer's "nooning."

On many farms the farmer and his men rush in to dinner at twelve o'clock, eat dinner in fifteen or twenty minutes, often bolting their food in less time than that and then rush back to the field again Apparently, the farmer thinks that every minute saved in the middle of the day is gain, but it is uearer the truth to say that he shortens his life every time he takes dinner that way. That must be the result no other is possible from the nature of things
The man who lives to eat fiuds great enjoyment cluring the meal; but really, if he does not overload his stomach, tho height of enjoyment comes at the close of the uneal, when the appetite is satisfied and the
body is in repose. There is then a seuse of absolute contentment. Then comes the drowsy feeling, which if yielded to leads to delightful sleep, refreshing, if the digestive organs run against no snags iu their attempt to work over for the maintenance of mind and body the coutents of the stomach.
It is a law of nature, common to both men and animals, that between the eating and the resumption of labor, there shall be an interval of rest. Nature demands it, and will have its revenge sooner or later if ciful to their animals than to themselves. The farmer will say, "Let the horses rest awhile," but he does not rest till he gets to his bed, and even then, possibly, owing to indigestion, the result of bolting his food, may find only unrest.
Not long ago a man exclaimed at the din-ner-table where we were sitting a few minutes after dinner, "I must go to work or I'll fall asleep." That is exactly what the farmer ought to do after dinner. What!
Sleep in the middle of the day-the busiest time-in haying-time? Yes, sir, if you
want to live out your days, and do more
work in the afternoon aud do it easier, take a nap after dinner-a nap of twenty miuutes or half an hour.
It has been said by eminent medical long his life by the workinginan may pro long his life by the simple act of lying fia on his back in the middle of the day, be
tween eating and the resumption of work If a man lie this way for only five ininutes it is a better tonic than any of the so-called bitters. There are twenty-four cushions in the spinal column. The longer a man is on his feet, the more these cushions become
dopressed. During the war a man who was of the required height-just up to itescaped the draft by remaining on his feet for some time-as long as ho could-before flattened out his vertebral cushions so that he fell under the required height.
In this lying flat, every muscle is relaxed and rests. To sit in a chair and nearly fall ut of it from dozing and nodding is not a few minutes, and you will see the wisdom a few
of it.

Another feature of the farmer's nooning is important. Many a man has gone to diuner hungry, with a keen appetite, and had it dulled and the edge turned by
what he saw and smelled in the diningoom. No man who has worked in the lot sun all day wants to eat in a hot kitchen
with the pots and kettles still simmering with the pots and kett
The setting of anything goes a great way A poor picture nlay appear to advantage in spoiled by the frame. Exactly so with a dinner.' A rich and costly dinner may be erved in such a way as to turn a man' appetite, aud a scant, plain dinner may appeal to the appetite and whet it by its sur-
rouudings. A spick aud span white tablecloth is not food, but it seems to make food aste better.
Crockery and glassware are so cheap now that it costs very little to set a table to in vite appetite, as well as the table or the millionaire loaded with cat glass and glass on the table the better, for it is cool and is cooling in appearance.
And flowers, eveu wild flowers, give the table an aristocratic appearance. The object of a dinner (eating) is not only to fill ach. The farmer wants to rest whjoyment he cau from the dinner, eaten slowly, from the conversation and from sowly, from the conversation and from ner, of all meals, and of the "nooning," and life will be longer, and will be more enjoy
able. ble.

## MILKING-TIME

A few suggestions in regard to summer management may not be out of place at this time.
It is a good thing to enforce the rule of perfect quiet; no loud talking or any distracting noise. Keep the stable per respect to let the cows remain outside ten or fifteen minutes after they come to the yard. Absolute regularity in the hours of milking. Consider the cows and all that pertaius to them a part of the regular busiuess of the day, to be done inside of the working hours. Always have a feed
of bran in the mauger at night. It will of bran in the mauger at night. It will
bring them from the pasture better than a dog, and is the cheapest way to get them to the stable regularly. In case of cold uucomfortable rains, or bad weather of any kind, put the cows in the stable even in midsummer. It will pay. They always charge the owuer for any discomfort and take their pay in milk. Each milker should milk the same cows every time. Make a rigid rule that the cows shall have all they cau eat. If the pasture in midsummer will not furnish it, provide it some other way. Never delude yourself with the idea that you can make a cent by
withholding food from the cow. This folly prevails very widely. Indeed, we may say a majority of the dairymen iu the United States and Canada will not provide a liberal supply of food for their cows
when the pinch comes in July and August. when the pinch comes in July and August.
The protit from milk is low at that time, butter and cheese bringing low prices That fact seems to blind them to the importance of keeping a cow up to
strong flow. The best a majority will do strong flow. The best a majority will do
is to feed a little watery, immature sowed corn. It helps a little. But the cows everywhere are short of feed at that time. A real square cow farmer, one who unhis cows have all the feed necessary to
make milk when they are giving milk,
He must do this in order to get the best profit out of them the whole year round. - Hoard's Dainyman.

## SHORT FURROWS.

Some mell complain of hard times who sleep themselves into poverty. Don't complain of your wife's ex
Dehorning is cruel, when it is done with a club in the hands of an angry man. Why don't those fellows who know the short roads to success ever try them?
The wonala who tells others how, does not always keep her own house the tidicst. Stand around with your hands in you pockets aud sce how quick you will get rich.
The commandment to rest one day in sceven is just as binding on your horse as it I wouldn't give much for that man who doesu't feel a thrill of joy every time he reaches the top of a hill.
To the industrious farmer uo birds sing so sweetly as the robins, who strike their first
Ing. making upon your horses. The more they making upon your horses. The more they
love you the better service they will give.

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OIIV dれtictlatll.
A NEW YoRk state editor the other da
Wrote a head-line "Alleged Treason in China,
aud was horrifed to see it run through th aud ras horrified to see it run than "Alfred Tennyson in China." Falks Tho are ambitious of writing for the magazines, and are not discouraged When a
manuscript has been rejected two or three
times, will learn with pain of a confession made bs a y youug man employed as a copy
reader on a popular magazine. He owned that he and a man holding a like place on auother magazine had a prirate mark which was iu-
tended to advertise to each that the other had passed upon and rejected a manuscript. He
insisted that this mark was placed upon only insisted that this mask wancerits as were hopelessly bad, but
such manusirit
the possibility of co-operative copy reading must strike terror to ambitious youn

WHO MAKES THE FASHIONS
The able, estimable and public-spirited
women who denounce crinoline really have as Tomen who denounce crinoline really have as
little control over the fashion of the clothes
ther are wearing now or will wear in the thes are mearing now or will wear in the
future as the least known of their sex. Their opinions about crinoline are as admirable as
thes are futile, simply because with fashions
as with much else in the work of life, women seem in practice strangely lacking in the
wort of invention and design. The fashions of women are made for them, and in this re-
spect strongly resemble a great, perkaps the
general body of feminine opinion. The Longeneral body of feminine opinion. The Lon-
don Spectator has been of late sagels consider-
ing the origin of fashions in the civilized ing the origio of fashions in the civilized
TWorld, and its conclusion is that
"There is no ruling mind, no system of deThe leading dressmakers of London and Paris
find their ad rantage in varying their designs elty achieves any success, Whether it be in
London or in Paris, it is immediately copied by other dressmakers, and its general adop-
tiou is as rapid as that of a slang word. Equally rapid is its course toward exaggeration; its
salient features are further and further enlarged until the exaggeration becomes gro-
tesque, the reaction sets in, and fashion But the origin of fashions really admits of a
fuller explanation. The current feminine separate factors: First, the current manufacdress designers at Paris and London; and third, the ruling infnences of society, pri-
marily at these capitals and secondarily at all the large capitals of the civilized world. Take
the fabrics first. The designs and patterns Which are to be worn in costis fabrics next
fall and winter were first sketched out last spring. The number of firms which make the
high-priced fabrics that settle the first trend of fashion, or eren of the lesser but still more
important textiles which have an individnality of their own, 1 s not very large. Six or designs for fabrics for next fall began to be France chiefly, and to a lesser degree in Ger pleasure of the publio is as hard to predict in mand and present consumption, and the
successful manufacturer can make a shrewd guess a 5ear or a year and a half ahead what
designs, of the many submitted to him, will colors and new objects of interest also play
their part and decide what shall be the notable
For next year, so far as the manufacturers
go, this is sas good settled. The patterns of season are already as good as settled by that ple book. But here the second factor comes
iuto play in that small group of artists in in any other field. Every moman knows how few are the dressmakers who can give "stsie"
to a. gown when the fashion is already estab-
lished; but the number of people the world orer who can create a newf fashion is so smal
that they can almost be counted ou the fingers There are doubtless unknown Worths piningin
Oshkosh; but rare as the capacity is, it can onl₹ be exercised in the centers of fashion, be-
cause ouls there can a neer style affect the
world. Here comes in the third factor the ruling influence of the world of fashion at
London aud Paris. This is determiued by the generál condition and color of soclety. This
nfuence was garish and meritricious under
asters, and has had since then more than one period of expausion and collapse.-Philadelph
Press.

NATIVES OF HONDURAS WHO ARE AT HOME on Land or in the water.
Frank Fisher, "are a peculiar people, like other natives of the tropics, do poo min-
gle with the whites, holding aloof, for that matter, from the other natives.
"Originally from Africa, they still maintain their tribal relatious and singular customs,
Physicalls thes are a fiue race, beiug coal black and very muscular. Their language harsh and guttural, its rocabulary consisting
of only about seren hundred rords. They an count up to three in theirown tongue, an most impossible to learn their language. They are nomadic, and go from place to place alon the coast. Some families have half a doze momen are comparatively good lookiug, and all have a most graceful and erect carriage
They carry mater-pitchers on their heads very skilfully
dens women do all the vork, and carry bur dens on their backs that rould crack the re idlers. The women have no standiug in the family relations, and the wife does not eat with the men. They are as much at home in the water as on land, and the women paddle the dugout canoes. The babies learn to swim
almost before they can walk. As a race ther are wonderfully cleanly, bathing several times they are rers neat in their scant attire. os fise rer filal, however,aud when on grandfather, the next for the father, and so on They will not sell their fish to the whites other natires until their own families are supplied. In brief, they are one of the few races in the world who h
mingle with other people
"British Honduras is a crown colony, and of its 30,000 population there are about three hunAmerican colons of about trenty people at making. Ther are mainly from Kentucky and it is a prosperous colony. The colony is
healthful for a tropical country, and there has not been a case of sellow-ferer for several hausted. Great quantities of logwood are also shipped to Europe. We ship only bananas and plantains to the Cnited States, shipping Orleans. The great problem with us is labo We need immigration, and Sir lones, the governor, is a rery progressive man the world. We have no railroads beyond a tramway drawn bs mules, penetrating plan tations for about six miles. There is not
telegraph instrament or liue in the province, ernment buildings. We have no money of our own, but use the silver of surrounding repubican money is equal to $\$ 8.60$ of the money

## use."- Frashington Evening Sta

DON'T SEE TOO MUCH.
Very miserable people are those who go through the World seeing too much. They
plume themselves upon their ability, and plume themselves upon their ability, and
proclaim everywhere the wonderful secrets their sharpsightedness has discovered. They offenses of friends, neighbors and trifling We are not at all obliged to them for what hey rereal. On the contrary, we are continto light, or our friend's dear little secret weakIt is not hard to gain much peace of mind bs studying the art of judiciously shutting other people's errors aud mistakes. Nas more, let us refuse to see anything except what stauces are fortunate, people are well-meaning nd industrious, happiness abounds, and we fortune.
A fool's paradise, sou say? Perhaps. But I doubt if a fool's paradise is not better than the heaven of the people who would carry thither sible imperfections.-Harper's Bazar.

## COUNTERFEIT GEMS.

It would perhaps be difficult to determine kill is exercised in imitating mones or in counterfeiting precious stones. But there is this marked and essential differeuce between the tro processes: the one is a crime, and the
other is a lawful industry of large dimensions, in which capital and scieutific
penls and liberally invested. In fact, if counterfeit dlamonds or other ems would hare sust eanse to be ashamed of them. For they are, after all, not a rude Fith the rare and costl5 originals which the With the rare and costly originals which they
so nearly resemble. They are glass, but

common glass. Instead of sea saud or white
quartz, the clearest rock crystal is the base of
common glass. Instead of sea saud or white
quartz, the clearest rock crystal is the base of
their composition, constitutingabout fifty per their composition, constitutingabout fifts per
cent of the rhole. Of the other fifty per cent nearly half is carbonate of soda, to which are the mass being finely porrdered, melted in a than diamonds there are coloring materials of appropriate tints aud shades-peroxide of manganese and Cassius purple for rubies, ox sapphires, and so on. The glass is produced in a sheet, or plate, and the stones-not exactthus applied, jet almost deserving to be called so in rien of the care, patience and
dexterity which are required in their man ufacture-are cut from the plate, and sen

## THE LIBBY PRISON WAR MUSEUM

 Of the many attractions outside of the which there is so much interest centered as 1889 this celebrated prison was remored from Richmond to Chicago and converted intowar museum. The project was undertaken b a syndicate of the best-knomn business me
of the city, whose enterprise mas conceived i a commercial spirit, but has attained national reputation. A project such as thi
was never before heard of. To more a brick and stone building the size of Libby mor mountains, was an enterprise that many of the best-known contractors in the West r was made with success. Then the famous old structure was filled with war material that penditure of half a million dollars. The great the countrs, and includes much of the mos raluable material that the greatest civil ma
the world has ever known has left to poster its. The collection includes thousands an
thousands of relics of every description, man of which form important links in the histor of the nation. The old building itself
fraught with interesting memories, and the story of the celebrated tunuel escape of Feb One hundred and nine Union officers made formed one the most thrilling events in th formed one of the most thrilling events in th

## NOVEL NEWSPAPER.

Budapest. The latest news of every sort i sent out from a central office by telephone to
the subscribers, who par for this intelligence, the sum of serentr-fire cents a mont At the central office of this novel newspaper there are two departments, a regular editoria messages, and works them up into leaders o parg ing department, from which experienced the contents of the manuscriptsdelivered from hour to hour by the first department
Two languages are used-German and Hungarian. The news includes stock exchange quotations, financial articles, reports of anl
sorts of entertainments, book reriems, and paragraphs on miscellaneous topics such as The subscribers who receive the news hare on their walls a wooden tablet, from whic their ears, even if they are lounging in easy chairs or lying in bed.
The service of this truly uaique newspape begins at eight o'clock in the morning an has so far had great success.
THE DEVOTION OF A CANINE MOTHER. Half a dozeu small boys, a shepherd dog and her fire puppies, and a box of matches
The dog and her puppies trere kept in ery and feed stables ou East street near Elm street, and the boys Tere looking at the pups through a knot hole iu the side of the building, lighted matches to the knot hole. One of the lighted matches fell through the knot hole The boss, seeing the blaze, ran array for fear, corered by a policemau.
puppies made a heroic effort to save her the spring, and succeeded in carrying them all to
 CRIMSON CLOVER SEED, Dover, Del.

NEWTON'S HEAVE, COUGH and DISTEMPER CURE.

ed alive. She had to leap over a high barrie ried out was all stall, and the last one she car the flames with it in her mouth. Her grief a ot being able to rescue the last was evident, ing back into the flames for it.-Pittsturg Dispatch:

## WHAT FOR?

"What is woman for?" was asked at a meet ing of the American Social Science Associathis reply:
berritchmer soul, for thought, for lore, for mau. She is for this morld and for othe She is for memory and for hope. She is fo dreams beauteous. She is for poetry and art sheis for the fulfimment of the human lmag mate. She is for the household and her anything. She is for life. She is for faith She is for earth and heaven. She is for sum mer and for winter. She is for the glory o out her. She is for delicacy and daintiness She is for youth, for middle age, for old age wearr-footed She is for light. She is the crown of creation, the consummate master piece of nature. It tras Robert Burns who, in an hour of eestasy, sung:
Anld nature swears the lorely dears

$$
\begin{aligned}
& \text { lest work she clabses, } \\
& \text { tice han' she tried on }
\end{aligned}
$$

## THE COST OF HERESV-HUNTING.

## "Heretics" are pretty expensive luxuries,

 Brigg trial The mere board bills of the commissiouers to the recent Presbyterian genera ed to over $\$ 13,000$. Rev. Dr. Bartlett, chairman of the local committee of arrangements a general assembly 50,000 , Whille it is said tha Col. MeCook spent $£ 20,000$ out of his own pockebesides. Howerer, such prices cannot stand,
for vers few will be found making the heroic defeuse in the future that Dr. Briggs has pu on record. lu fact, according to present indi-
cations, the general assembly will soon be

## sillections.

## how grandma danced

Grandma told me all about lt; How she danced-my grandma dancedLong ago.
How she held her pretty head, How her dainty skirt she spread, How she turned her little toes; Smillng little human rose. Long ago.
Grandma's halr was bright and sunny, Really, quite a pretty glrl, Long ago.
Bless her! why, she wears a cap,
Grandma does, and takes a nap
Every single day; and yet
Grandma danced the minuet,
Long ago.
Now she sits there rocking, rocking, Always knitting grandpa's stocking (Every girl was taught to knilt Long ago); ;
Yet her figure is so neat,
I can almost see her now
Bending to her partnerts Bending to her partner's bow, Long ago.
Grandma says our modern Jumping, Hopplng, rushlng, whirling, bumping, Would have shocked the gentle folk, Long ago.
No-they moved with stately grace, Everythlng in proper place; Gliding slowly forward, thén Slowly courtesying back'agaln,
Long ayo Long ago.
Modèrn ways are quite alarming, Grandma says; but boys were charmingGirls and boys I mean, of courseLong ago.
Bravely modest, grandly shy-
What if all of us should try
Just to feel like those who met
In thelr graceful minuet,

## Long ago?

With the minuet in fashion,
Who could fly into a passlon?
All would wear the calm they wore Long ago.
In tlme to comc, if I perchance
Should tell my grandchild of our dance,
"We did, dear, in some such

## Long ago.

## SAVED BY SUNSHINE.

I think the superb health of my family is to a great extent due to the habit we bright day all of the shutters are open, and the entire house gets the benefit of sunlight. It drives away dampness, mold,
microoes and blue-devils, and puts us all microoes and blue-devils, and puts us all
in good humor and health. I cannot imin good humor and health. I cannot imagine good sanitary conditions and dark
ness. Even my cellar is as light as $I$ can possibly make it, and whatever fruit and delicacies need to be shut away from light I put in close cupboards or covered boxes. I have shcets of canvas that can be thrown over them before they are put away, and
always take pains so to arrange that nothing will be injured by an abundance of light. People who live in badly lighted apartments have little color and less health. I for one do not intend to spend my days in an atmosphere of gloom.-Nen York Ledger
always room for discovery.
We hearso much about the material prog ress of the age, our wonderful inventions and the great discoveries that are destined to be of untold benefit to man, that it is well sometimes to take a look through the big end of the field-glass and see how little really has been accomplished in comparison with what remains to be donc. For in truth we have but scratched the surface of the globe to a very small extent. Thc north temperate zone alone has begun to be developed, and it is only a beginningthe wastes of siberia still lying practically zone and the tropics are scarely touched, with their untold wealth of animal and vegetable products, besides the undoubted vegetable products, besides the undoubte
mineral resources which they contain.
The new process of cheapening aluminum, one of the largest components of the earth's crnst, brings into the field of industrial activities a substance which is destined to work a revolution in mechanics and the applied sciences. Who knows what other uses may be found for the com monest materials lying at our feet? The lesson of it all is that there is always room for discovery and that we are nowhere near the exhaustion point of the earth's re-souces.-N. Y. Herald.
It isn't so far out of the way ivhen the little ones ask for "some more spanked cream," meaning whipped cream.

## some points about lace.

It is well to be up on lace lore this season, for with the revival of the genteel, oldidea of the characteristics of the different patterns for which one pays such fabulous prices.
In the first place, all real lace is handmade lace, and is easily detected from the machine-woven imitation, because the meshes in the genuine are apt to be irregmeshes whe gent
The net of the lace is called by laceThe net of the lace is called by lace-
makers the reseau, the pattern is the fleur, makers the reseau, the pattern is the fleur,
and it is in the shape of these meshes that and it is in the shape of these meshes that
lace distinctions appear. The square or diamond-shaped mesh is used in Valenciennes, the six-sided mesh in point d'Alencon, and Chantilly and point de Paris laces have an odd mesh of four-sided big holes, with triangular holes between.
Now, the chief difference between the pillow and needle laces, which are made in but two ways, one with the pins and bobbins, the other with the needle, is in the way the fleur or pattern is worked on the net. Needle lace has a distinctiveness of outline in the fleur, because the pattern is outlined by running a thread in and out of the meshes of the reseau. If the outline is to be very much in relief, as in point d'Alencon, the most beautiful of all needle laces, the outline is corded in with horsehair, and then the pattern made by filling in the outlines with a sort of buttonhole stitch, making a rich and heavy effect like embroidery. The reseau in this lace is complicated, too, by twisting the threads of the nueshes together here and there to make bigger holes, and thus giving a variety to the mesh. This lace is made piece by piece, the pieces joined together by invisible seams. Pillow laces have a flat, smooth pattern and are smooth and soft in outline.

La grippe was so named by Louis XV in 1743, when, during the months of February and March, nasal and bronchial catarrh were epidemic in France. The treatment con sisted in drinking copiously of cold water and in cupping.

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## Gramings

## before going to sleep

Dear Father! all this lovely day My hand has lain so warm in thine Mat all along the fair, flowered way, Follows upon thy day sweet night; When I creep closer to thy heart, Reminded of that hour whose flight Shall make and keep me Thine-apart! Hold me through all the dim, soft hoursHold me, my Father! close and fa As sweetly safe as folded flowers, And wake me with thy smile at last!

## practical education.

Children should learn that which will be necessary for them to practice when they reach maturc age. One defect in the modern school of education is the attemp cover too much ground in the youthfu mind. Better far the complete mastery of a few fundamental branches than a smattering of studies in the higher grades.
It may be said that no man can imbibe too much knowledge, but the fact is that knowledge is not always education. A boy or man may have his head crammed fullo other people's ideas, and yet not be able to digest or assimilate any one line of thought for practical work. It is not what a boy or girl can unemorize, or what they may know of the thoughts of some one else, but it is the capacity to think and to work out the various problems of life within themselves that gives value to education.
In a broad sense, education is the capac ity to use one's own faculties. One may be able to repeat whole pages of rules and formiulas, and yet not be sufficiently educated to apply the same to practical work. We have many instances of college education pletely eliminated from the individual, by the pressure of the cramming process, in filling the head with borrowed ideas. It is the same principle with the mind as is overeating with the body, where the digestion stops. An over-read man may be an under-educated man. It is not what one reads, but what one digests, that gives mental strength.
The main object in education is to set people thinking in their own original channels, to develop the individual channels, thought, to develop the latent power, the thought, to develop indion within the indual to acquire habits of observation and analysis. The tendency of most schools is to turn out ten
or twenty or thirty pupils, all of the same or twenty or thirty pupils, all or capacity as to mental caliber. The ideal education would be to polish up the individual jewels of each scholar, and enable him to develop the originality within him. Of course, this ideal is hard of attainment, unless each individual scholar is taken in hand by the teacher; but the brightest men in after life are those who follow original paths to fortune and success. It is very seldom that a successful man has copied out in new paths, and who has the strength of mind to grasp the situation and work out the possibilities of his surroundings, out the possibilities
We would caution supervisors and school committees against a multiplicity of studies, and against forcing pupils to spend their time over matters which can hardly interest those who are obliged to earn their bread and butter. Of course, there are mauy studies, like astronomy, physiology, ancient history and ancient literature, which are well enough iu their way, but which should hardly be allowed to displace the fundamental studics of reading, writing, spelling and arithmetic.
The necessity of daily labor is one which presents itself to ninety-nine per cent of the community. The school course should be directed to improve the capacity of the pupil with strength and vigor and understanding. If one has the leisure or wealth to follow the higher branches, it is to the advantage of the individual and the community, but it is not to the advantage of the
individual that he should be able to read the stars, and yet not have the ability to read the English language. It is far better to deal with the practical side of life before attempting a flightinto the higher branches. A few studies thoroughly mastered will subserve the purpose of the average individual far better than a superficial knowledge of many branches, part of which are not available for practical life, and the encounter during life.

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## UNSOCIAL PEOPLE

We envy neither the men nor women who canuot speak to a fellow-creature out he formality of an introduction. There is no computing the amount of profit as well as pleasure such persons lose by hedging themselves in with this stupid fence of fastidiousness. We have always found more of this feeling among persons who were touchy on their social position than among thochy on their social position than among
those self-respecting persons who thought those self-respecting persons who thought nothing about it. A great deal of intelligence is floating around the world without being labeled, and those men or women
who have the good sense to recognize this who have the good sense to recognize this
fact and act upon it, not only are educating themselves, but conferring that pleasure which we are all bound by the common ties of humanity to exchange with each other. It seems to us that it is only the uob and pretender who takes a different view of this question.

## A COUNTERFEIT EQUAL TO A GENUINE.

Since dollars are coined out of sixty ents worth of silver, it is no wonder that counterfeiters have turned honest and are getting out dollars containing the same mount of silver as the genuine, and undistinguishable from the mint issue. In former times, when a silver dollar was worth one hundred cents, counterfeiters had to use baser metals, which soon led to their detection. But when the government itself gives a fictitious value to its coinage, who is there to deprecate the acts of individuals who issue a dollar of the same value as the government?

## PERFUMES OF PLANTS.

A German botanist, Mr. Regel, has made public the result of his researches as to the cause of the perfumes of plants, and the factors which diminish or increase them "Light and heat naturally play a very important role. Darkness prevented the de velopment of perfume in flowers of which the buds were only slightly advanced, and when submitted to its influence, and even the plants whose flowers exhaled perfume only at night, lost their odor if compelled to live in continued darkness."

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JULY 15, 1893.


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## urrent omment.

x Haymarket square, Chicago, stands a statue of a policeman with uplifted hand. On the base are these words: "In the name of the people of Illinois I commaud peace." This monument was erected a few years ago in honor of the brave policemen who were killed by a dynamito The principals engaged in this riot were tried, convicted and condemned, some to tried, convicted and condemned, some to
death and others to imprisonment. Recently those serving out their sentences in state's prison were pardoned by the govrnor of Illinois.
If Governor Altgeld wished to test the force of public opinion, he has certainly made a notable success of it. Excepting the advocates of anarchy and the friends of anarchists, the people have most emphatically eondemned the action of the ernor in pardoning these criminals.

Anarchy and Altgeld--both have dishonored the fair name of Dllinois-will remain associated together until the latter is forgotten.
The Haymarket tragedy brought peace. Since the conviction of the rioters, anarchy
has scarcely dared to lift its head in this has scarcely dared to lift its head in this eountry. The governor's pardon may
rouse the spirit of this now silent enemy of society and good government and encourage it to deeds of evil, but his action has called baek clearly to the public mind the events of the past, and the people are on their guard. There is not a single square inch of room in this country for anarchy.
Governor Altgeld's long special plea in behalf of the anarchists, in which he goes out of his way to strike at an upright his pardoning of the criminals. Says the New York Sun:
"The windy, oratorical tone of Governor Altgeld's statement, or misstatement, in the case of the pardoned anarchists,
Schwab, Fielden and Neebe, must strike Schwab, Fielden and Neebe, must strike
every reader of that extraordinary docuevery reader of that extraordinary docu-
ment. It is not a calm and impartial review of the evidence, but the bitter plea of a lawyer for the defence bent upon bullying and overriding the judge and the prosecution. * * Apparently, in the eyes
of the Hon. John P. Altgeld, the anarchists were suffering innocents, while Judge Gary and Mr. Bonfield were ravening and malignant persecntors.
"We do not know whether or not the resort of Know-Nothing turned inside out; that is, a man who thinks that a foreignAmerican. At any rate, there have been reports, for some time, that he was fishing
for the so-called labor rote, and hoped to
be elccted a senator be elccted a senator in Congress by reason
of it. Only a day or two before the pardon of the anarchists the Inter-Ocean published the report that it was his object to make himself sure of the Cook county labor vote. By the labor rote is meant, of comse, not
the vote of laboring men, but the vote controlled by the noisy and worthless agita tors, almost invariably foreigners, of whom

## P

 estoent Cleyeland's proclamation in extra session August 7th, reads as followsWhereas, the distrust and apprehension concerning the financial situation which pervade all business circles have already cansed great loss and damage to our people, and threaten to cripple our merchants, tress and prication to our farmers and withhold from our workingmen the wage of labor; and
"Whereas, the present perilous conditiou is largely the result of a financial policy which the executive of the government be executcd until repealed by Congress: "Now, therefore, I, Grover Cleveland president of the Unitcd States, in perform ance of a constitutional duty, do by this proclamation declare that an extraordinary occasion requires the convening of both States, at the Congress of the Wash ington, on capitol, in the cily at 12 o'clock noon, to the end that the people may be relieved through legislation from pre
"All those entitled to act as members of the fifty-third Congress are required to take notice of this proclamation and attend at the time and place abore stated."

The special purpose for which this extra session of Congress is called is the repeal of the silver law of July, 1890, or, at least those provisions of the law which relate to
the purchase of silver bullion. There being a widespread opinion that the law is responsible for all the present financial tronbles, the meeting of Congress and the repeal of the law will do much to restore
confidence and improve the condition of all kiuds of business, for wwhile at least. The silver law of 1890 is responsible for some of the present troubles, but not all of them. The mouthly issuance of treasury notes, practically redcemable in gold, in dous ayent for silver bullion, is a tremen ment. The silver-purchase provisions of the so-called Sherman law onght to and will be repealed. They onght to hare been repealed last winter. Congress failed to do its duty then. It will fail again if it substitutes for the silver law any financial
scheme involving a depreciated currency. Even an unconditional repeal of the lat will not prove a remedy for all the present business troubles. There are other ques-
tions affecting business of all kinds that must be settled before coufidence can be fully and permanently restored.
If Congress should promptly and satisfactorily dispose of the silver question, it will not be half way through the work before it. It has the tarift question to deal with. Until the policy of the administration on the tariff is clearly defined and ancertainty seriously depressing all forms of business.
The resources of the country are unim-
paired, there is neither plague nor famine
in the land, crop prospects are very promising, but uncertainty aud want of confidence are almost universal. Coufidence Will Congress do it?

## That remains to be seen

$\qquad$

FArmers' bulletin No. 12, recently issued by the department of agriculture, is entitled "Nostrums for Increasing the Yield of Butter." It can be
obtained by applying to the secretary of agricnlture, Washington, D. C. Let every farmer interested in dairying send for it It gives a complete expose of the black pepsin and other frauds that have been so largely advertised in the past few months. fu conclusion the bulletin says
"The actual value of a box of the so-called black pepsin is only a few ceuts, and therefore the enormous profits which are made in its manufacture and sale at $\$ 2.50$ a box can well be imagined. It is not beliered that any further exposition of this bare faced fraud is necessary. We have made an attempt to obtain samples of all the vari-
ons compounds which are sold for producing the effects described. There are many of them, however, which we are not able to get. Farmers can rest assured that any substance which is presented to them for the purpose of increasing the yield of butter above that of the normal belongs to some such class of fraud as has been exposed iu this bulletin.
"The proper way for increasing the yield of butter is to secure a breed of corvs giving milk with a high content of butter fat, providing the animals proper nourishment and keeping them in a clean and healthy condition. The proper treatment of a herd f cows, together with neatness in th dairy, not only will give an increased yield of butter, but will also enable the producer
to get an increased price.
"The best method of making a good and sweet butter in large quantities is careful
selection of cows and careful feeding and selection of cows and careful feeding and
care in the dairy. The proper attention to neatness and the sterilization of the vessels used about the dairy will secure the growth of a ferment which properly ripens the ream and excludes other ferments, which prodnce all kinds of injurious changes in the milk. All vessels used in the dairy should be subjected every day for some time to the temperature of boiling water, to absolutely exclude all putrescent bodies and fermentative processes from the dairy, save those which are necessary to the nor mal ripeuing of the cream. The farmer occasion to invest his money in frandulent nostrums for increasing the product of his dairy and the maguitude of his profits.

S
 appeal to the farmers when he said:
"The Granite Mountain Mining Company prodnced refined silver in the year 1857, or 1888, according to its report to the secretary of the treasury, to the amonnt of nearly $3,000,000$ ounces, at a cost for efined silver of twelve cents an ounce The whole output cost that year was $\$ 36,010$ Coined at $4121 / 2$ grains to the dollar, it would make over $\$ 3,000,000$ of legal tender for orer $3,000,000$ bushels of wheat, the labor cost of which is more than $\$ 3,000,000$. That is, by free coinage, under law, $\$ 36,500$ of mine labor is made and forced to an equality with $\$ 3,000,000$ of farm-labor cost. By law this free-coined silver will, when it Montants only $\$ 36,300$ or mine lab 000 farm labor in Nebraska."

ATER a political campaign and an
election that attracted the attention of the world, the Gcrman gorernment finds itsclf with a majority of the members of the Reichstag in favor of a said that the German army, including
sine the size of any reserves, now numbers firc millions, and that the annual war tax is over $\$ 560,000,000$ -a sum greater than is orer $\$ 560,000,000$ peuditures of our the total annual expeuditures of our own government. Great
as they are, both the war tax aud the size as they are, both the war tax and the size
of the army are to be increased, not for of the army are to be increased, not for
war, but for peace; that is, to make the empire so formidable that no other power dare attack it. Other natious of Europe will strive to do the same. The military system that maintains the peace of Europe by making an armed camp of each country is a terrible burdeu on the people, and must in time break dowu from its own weight. Happy is onr own land without it.

THE South has been makiug an important adrauce in agriculture. A1-
 now largely exceers it in value. In 1892 the value of the cotton crop was about $\$ 315,0 \mathrm{~m}$, ,000 . In the same year the total value of corn, wheat, oats, tobacco, rice, fruits and vegetables was over $\$ 350,000,000$. Diversified crops have overtaken and passed the great staple. No longer is the southern farmer entirely dependent on the success or failure of the cotton crop. The orerquadnction of the cotton crop, with consequent low prices, has forced the southern having been adopted, it will not be abandoned. The new agriculture of the South means a great improvement in the condition of things and a more rapid development of the agricultural resources of the Sonth.

THE annual report of the Ohio state food and dairy commissioner shows
both the efficiency of the work done by Dr. McNeal and the need of his department. During the year ending in May, one hundred and thirty-six prosecutions were brought for violations of the purefood laws. Eighty-three of the defendants pleaded guilty, fifteen were tried and convicted, fifteen were tried and acquitted; six cases were dismissed at defendants' cost and six at cost of the state. Eleven cases are now pending in courts, five of them on appeal to higher courts. It is no wonder that a determined fight has been made against the commissioner and against the laws which he has been enforcing. This ork has been done in the true interests of the people, and they heartily approve

## What our contributors say in this issue of Farm and Fireside about the World's Columbian Exposition, weare fully prepared by a delight-

 ful week's visit to indorse.' To all who possibly can, we say, "Go and see." In no other way can you form an adequate conception of its magnitude and magnificence. It is beyoud description. It will go beyond your expeetations, for it is one of the few things in the world that goes ahead of the brag. Few and small, indeed, must be the souls that, after seeing it, will regret the time and money necessary. The regrets will come from those who do not go and see, although they can never realize how much they have missed. "Go and see," at the best opportunity you canFARM AND FIRESIDE．

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The Advertisers in this Paper．



## （1）ルと よがいut．

WILL It Par to See the
Fair？－I have about a week in Chi－
cago，and more money， too，than I usually earn too，than I usually earn
in that leugtho of time．
et it．The chances are But I do not regret it．The chances are
that I shall go again in the fall to see that I shall go again in the fall to see
more of the horticultural aud agricul－
tural products then on exhibition．I tural products then on exhibition．I
feel well repaid for my first trip，and I fhink it will pay any one to spend，a week or two ln Chicago，who will go there with
his eyes open and ready to learn．The
＂White ＂white city＂is a grand production indeed；
the splendor of old Rome rebuilt in a ferw
 have no conception of the extent aud mag－
nificeuce of the grounds and buildings．It takes a day or two for eren the more expe－
rienced traveler to find his bearings aud rienced traveler to find his bearings aud
get acquainted with the location of the un－ get acruus buildings and exhibits．Fivst of
mall you want a general idea of what there all you want a general iea or what there
is o be sea，and then you can settle
down to the stuad of just the ihings that interest you，individually，more thau
others． I believe that a week or ten days spent in examining the exhibits at Chicago is
worth to any one more than a year＇s course worth to ally one more than a year＇scourse tor，and an interuational aid iu the promo－
tion of civilization．Let everybody go tion of civilization．Let everybody go
who can，and take his family，too，if possi－
ble．School learning is all right，but as a ble．School learning is all right，but as a
means of acquiring knowledge and wisdou is rather slow，especially while the brain
powers lack the training that comes with age．Through impressions of the eye aud contact with the world you can often learn a week．By all meaus，profitif you can by fair offers to everybody．The visit is The next question is，wheu is the best time to go？To people of means，or all who
do not particularly care whether the trip cost $\$ 50$ or $\$ 100$, I would say，go now，before
the great rush．Now you have to pay full fare，but you can go out trains less crowded
than they will be later ou，and on the whole，you will find better accommoda－ tions and greater convenience in traveliug．
The railroads have thus far slown very
little indicatlon to be liboral．A world＇s fair does not como every year，and theso whlle tho sun shines．They are not in the
business of railroading for fuu，nor for the accommodation of the public，but for the dividends they cau get out of it for their
watered stock．It may pay them better， watered stock．It may pay them better，
temporarily，to carry a millou passengers
at full rates of fare，than two millions at
half fare．But this lack of consideration and liberality must and will react agaiust them in the end．Want of courtesy to the puake the idea of goverument ownership of railroads popular．Railroads，if they are for and popular need of cheap fares to the fair．
fares will be reduced，and for ther on the excursions，occasionally，perhaps to a Tery low figure．All ye who have to make every penny count，postpone your trip until the time that the railroads will see fit to gran cheap excursion rates．During September and October，I think，will be a very good tlme for the farmer to visit the fair．At that time the products of the present sea－ son，in fruits and vegetables，and graius，
ill be on exhibition．But you must go prepared to come into big crowds，take such accommodations as you may find，aud
undergo some inconteniences in the undergo
bargain．
How much will a trip cost，besides the railroad fare？That depends．One can speud a good deal of mouey．It is the easiest thing in the world，if you have moues enough，to spend two or three dol－
lars for a dinner at the restaurant，and dollar or so a day for fice－cream soda，five or ten dollars for the various sights and side shows of the＂Midway Plaisance，＂or
a whole pocketful of money for trinkets， sourenirs，oriental jewelry，etc．，iu the Turkish，
bazaars． On the
other hand，you can get along with very little money．Prices in the city
of Chicago are not materially different， even now，from those you find in other large cities．You can．go to a five－dollar－a－
day hotel，or you can find fairly good board day hotel，or you can find fairly good board
and lodging for one dollar a day．You can and lodging for one dollar a day．You can
get a lunch for oue dollar，or for twenty get a lunch for oue dollar，ar according to the places you select． Prices on the fair grounds are naturally little higher．The first thing you want
do is to find and engage lodgings some－ where near the local railroads，elerated wheads or street－cars which run between the city and Jackson park．This leares you
free to take your meals＂on the European plan＂wherever you happen to be．It will be advisable to take breakfast in one of the
numerous restaurants，paying for the same numerous restaurants，paying for the same
twenty，twenty－fire or fifty cents，as the case may be．You may buy a lunch and take it along with you，depending on the you a cup of coffee or tea at ten cents，or chocolate at fifteen cents，or you may drink cold，filtered water，which the grounds fur－ nish you free of charge．Stay on the hearty supper in the city．If you prefer， you may get a cup of coffee and a sand－ wich at the fair grounds for twenty cents or a dinner or supper，consisting of such
things as you select from the bill of fare， for any amount from thirty－five or forty cents upwards．
The rictuals
yood，and will you would have to pay in any good rail－ road restaurant．A most charming，really bazhed in the sea of thousands of electrie lights，as it appears on two or three eve－ uings per week．Add to this a display of
Payue＇s fireworks－the air thick with float－ Payue＇s fireworks－the air thick with float－ H．R．H．Eulalia，the infanta of Spain；the effect is wonderful in the highest degree． You must try to see the grounds on such oc－
casions．Eulalia，by the way，is a woman like many other womeu．She represents king and a friendly nation．During her visit at the falr grounds she proved a
really stronger attraction than the fair really stronger attraction than the fair
itself．Thousauds of people ran their legs off，and stood waiting and stretchiug their necks，just to get a glimpse of＂her royal highness＂and her princely esco has reccived a very favorable opinion the＂Amorican splrit of independenee． Hand－kissing may possibly be permlssible
under some circumstances．Ordinarily， under some circumstances．Ordinarily，
this as well as knee－bending and similar ways of expressing homage to＂royalty＂ are contemptible in a sovereign oltizen of
the United States．It scems that Mrs． Eulalia has at last become disgusted with society＂as she found it in Chicago，and
courteously declined further attention courteously declined further atention
from that quarter．It serves them right． from that quarter．It serves them right．
I do not believe that the good sense of the avorage iutelligent，independent Amer－ ican farmer would allow him to thus cast
his dignity before tho foet of a foreiga
prince or princess．After her Chicago trip she came to Niagara Falls，aud remainer several days．I have not heard that
siugle farmer iu this ricinity to the falls，so close by，in order to get to the falls，so close by，in order to
glimpse at the now famous infanta．
glimpse at the now famous infanta．
The＂Midway Plaisance＂is highly inter esting．Even if you should have no money to spare for the sideshows，many of which have a strong flavor of humbuggers， you will spend some time on this extensive annex．Here you can learn more about ＂what the other half of the world is doing＂ in a day，than by any other meaus in a month．Stroll through the bazaars．You are not compelled to buy a thing；but 1 t is foreign people in their native costumes， and hear them converse in their native tonguos．You find the Egyptian，the Islauder，the Esquimeaux，the South Sea Islauder，the Esquimeaux，the Japanese，
the Chinese，besides representatives of every civilized nation on the globe．You will see them＂at home，＂and observe how they eat and sleep and act．In short，this part
of the Midway Plaisance is one of the most of the Midway Plaisance is one of the most educational features of the fair．
More about the exhibit in my next．
T．Greiner．

## STARTING AN APIARY．

In the midst of general depression of business and sharp competition which，is making all profits small，there are many are looking about for some means by which are looking about for some means by which
they may increase their incones．Besides a man＇s regular business，he may often at－ tend to other matters，which will prove
both a source of profit and pleasure．At both a source of profit and pleasure．At－
tending a garden or an orchard of small tending a garden or an orchard of small
fruits is occupation of this kind，which brings pleasure，recreation and profit． Here，also，may be classed bee－keeping，an ure，to some considerable profit，and to all who have entered into it iu an earnest spirit such an insight into the mys－ teries of insect life as they never befor

Probably but few have any idea of the financial importance of bee－keeping．From reports of the department of agriculture，it is learned that erery state and territory in
the Union reports bees and more or less the Union reports bees and more or less
honey and wax．California is the bauner honey and wax．California is the bauner climate，while New York，Ohio and Ten－ nessee follow next．The annual value of the honey and wax is almost equal to the rice and the hop and the buckwheat crops and bectively，and exceeds our cane molasses nd both maple syrup and maple sugar．It largely exceeds the aggregate value of
Any one who is prompt，careful，patient and apt，may keep bees with some hope of profit．It he is a lover of nature，so much
the better；yet one can hardly care long for bees without developing a lore of nature It is only a few weeks in spring aud sum－ mer that a small apiary needs much atten－ tion，and a few minutes each day will suffice for a number of colonies．
Bees may be kept on a farm，in a vil－ dage，or even in a large city．But bees wil others．As a rule，the best farming dis－ tricts will be the poorest for bee－keeping． Regions which are largely uncultivated，in which there are hills and mountains，in a state of nature，will generally be the best
regions．The reason for this is that in good farming districts all the wild plants which produce honey have been destroyed，while in hilly and mountainous districts these

The beginner，in making preparations for bee－keeping，should first visit an apiary and talk with an experienced bee－keeper， ir possible，see him work a day or more with by reading twenty volumes without auy practical knowledge of the subject．If it is proposed to enter the business for a iveli－ spent in the employ of a skilled bee－keejer． The beginner will not need more than one
colonies to start with．These will increase as fast as he can learn how to man－
age and to take eare for them．The Italiau bees are best for the beginner，becauso they are of a milder disposition than the com－ mon black or German bee．The bees should be in a modern hive with movable frames． Tho beginner does not want to have any－ autuen io shauld be secured for at least one third less than in the spring．
It would be well to have soure one famil－ ar with bees to select the colony for the
iu bees as in other articles．If Jou buy of a dealer，be sure he is a reliable man；but if the beginner must depend upon himself，
then let him go to the apiary from which then let him go to the apiary from which
his bees are to be purchased，on a warm his bees are to be purchased，on a warm
day when the bees are in full flight．The hives from which the most bees are flying re the most raluable，for they will contain the largest number of bees．A heary hive
rather than a light one should be selected， rather than a light one should be selected，
and one which cast a swarm the last summer rather than one which did not swarm．
After the bees are purchased they are to is best done at night，for then all the bees are in the hive；though if the colony is smoked at intervals of half an hour，most of the bees will be secured，even in the day－ time．A piece of wire gauze is tacked over he eutrance，the hive is placed on a spring－ vagon and carried to its new location．
the weatheris at all warm，the whole top of the hive must be remored and the bees covered with gauze，else there is danger of the bees smothering．In the morning be－ fore the bees are liberated at their new home，they may be smoked，and a board placed so as to shade the eutrance to the new location so that there will be no loss． On the wagon the hives should be placed with the frames running parallel with the length of the wagon；in this way they earry best．
The hives should be in a place warm in winter and not too hot in summer．On dry， nèrer on damp soil；they should be away from foot passengers，cattle and sweaty
horses，and where the morning sun will horses，and where the morning sun will
trike the hives very early，so that the bees strike the hives very early，so that the bees inay get early to work．In villages and towns they may be placed anywhere in the the roof．They should be near the house，
the that issuing swarms may be readily seen， and that they may receire attention at odd minutes．．Shade is not necessary，though in very warm weather it is grateful to the ees．If the location is a hot one shade should be provided，and this is eonveniently secured by planting a grape－vine near each hive and training it to a neat trellis，or
few boards may be laid on the hive．The few boards may be laid on the hive．The
hives should not be located where they will e subject to driving winds，as these chil the hives and cause the loss of many bees about to enter them．
In arranging the apiary the hives should be placed near the ground，with a board sloping from the alighting－board to the ground．This enables heary－laden bees to enter the hives much better than if they were elerated．A half brick under each The hives should not be nearer each other than five or six feet，and an irregular order is better than regular rows
The ground about the hives should be kept entirely free from weeds aud high grass．It is nicest to have the ground cov－ ered with sawdust，spent tan－bark or plain sand．The hives should slant slightly to he front，to enable the bees to cleanse them side．Ererything in the apiary should present a neat and attractive appearance． The hives should be painted；white or some rery light eolor is the best，because it will very coolest．
To open a hive，puff a little smoke in at the entrance，wait five minutes，puff some more in，and at once open the hive and
proceed to examine it．If the bees are un－ ruly，give them more smoke and wai awhile；in time the smoke will subdue them．A little chloroform ou a sponge placed in the smoker will answer in place of the smoke．
Remember never to strike at a bee．Do not be jerky iu any of your movements． Don＇t breathe ou them．Don＇t crush any f them．Don＇t squeeze any of theun．Don＇t tand in their way when they are busy This provokes them．If stung on the hand suck the part until all the odor disappears Always have hives in readiness for
swarms，one of which you may expeet swarms，one of which sou the bees begin to build new combs at the top of the rames，you should place on the hives the boxes to receire the surplus honey．Cover theso boxcs well，so that tho heat will not enter the boxes．Don＇t bo anxious to havo the bees swarm．If we can only keep our hives crowded with bees we may expect omo hovey．
Keep a strict account of the bees，and do not buy appliances except as they enable cause you to go slow until Hou kow your real needs．Williver H．Leeman．

## the indian as a farmer.

Regarding the Iudian as a farmer from the standpoint of vantage occupied by his thrifty white neighbor, he does not always shine with an undimmed luster, by any means; but taking hin as a man who
whilestill a savage and with all the inwhile still a savage and with all the in-
stincts of a wild, free life, untrammeled stincts of a wild, free life, untrammelea
by an agrieultural acquaintance, he is really not so bad a farmer after all.
The government, doing all it can to encourage its copper-colored wards in their work, tending to wake them self-supporting, has issued immeuse quantities horses, oxeu, plows and mowers, and fact all farm implements, and strives iu every way to get them to put iu their crops. Of course, seed of all kinds is fur-
nished iu abundance.
To show the Indian's inprovement in this respect, take the case of the writer's
friend, Oue Feather. Four years ago One friend, Oue Feather. Four years ago One
Feather drifted from Canada, where he had been au involuntary exile for somo time, owing to the fact that he, together with many others of Sitting Bull's people, had fled there for refuge from the troops aftcr the Custer fight, and had been afraid, for very good and sufficient reasons, to cross the line into this country until Gen. Nhes was a safe road opened to them to return to their families, from whom maüy of them had been separated. So, wheu One them had been separated. So, wheu One
Feather made his appearance with a wife and four little ones, ragged, starved and and four little ones, ragged, starved and generally demoralized, with his face co
ered with paint, his hair down on his shou ders and an unspeakable expression ferocity aud wildness alout him, he was about as unpromising a specimen as could very well have been found. He hung around the agency for days, and got one of the employees interested in him, and man and given a blue uniform and revolver, and as he already had a gun, his equipment was complete
One Feather, as soon as his appointment on the force was an assured fact, went very coolly to the water-tank in the room where the agent and others were sitting, and pro-
ceeded to wash the paint of his face. This ceeded to wash the paint of his face. This
doue, he had his hair cut, donned his unidoue, he had his hair cut, donned his uni-
form, and the process of recoustruction form, and
was begun.
The next thing was to pick out a site for his honse. This he did, and soon he had cut logs, and as the agent had issued him horses and a wagon and all necessary household goods, he soon had a very com-
fortable cabin up, and was happily settled. One Feather's pay as a policemau was five dollars a montli. Not very much, one sideration all the other things that went with it, it was enough for his simple wauts. He now had cattle issued to him, as he had put up corrals, stables and had plenty of hay. One thing the Dakota farmer can always count on, and that is good hay and
plenty of it, so One Feather was doing famously. He was out with his plow at spare times, and soon had some twenty
acres in oats and wheat. The increase from acres in oats and wheat. The increase from
his stock he sold to the government, which was issued again to him as beef, so it depended on himself to keep well going, now he had started.
In addition to what he could raise by farming, the government issued him rations every two weeks, which consisted corn and baking-powder, so that he soon was able to sell many cattle back to the was able to sell many cattle back to head at about thirty dollars a head, government at about thirty dollars a head,
which had cost him nothing but a little which had cost all he did was to carefully look out for what was given him, and he was far better off than the average white farmer in Dakota with his heavily-mortgaged farm
and struggles to maintain a living against and struggles to maintain a living against
the hot winds that had a fashion of coming the hot winds that had a fashion of coming
along some time in July anc burning along some time in July anc burning
everything up, or a sharp freeze in August that would nip in the bud his later efforts. Against these disadvantages the white farmer had to struggle alone and unaided, and often the fruit of a whole year's work
would be spoiled in a day by the hot, sufwould be spoiled in a day by the hot, sui-
focating blasts that sweep over these wide prairies, and from which there is no propraction. All this One Feather did not care two straws about. If the crop was a failure, he had more seed given him to start in anew, and as the government fed him any-
how, you can see what a very independent farmer he is.
All the little gullies near his house are filled with a most luxuriant growth of hay, and this One Feather gathers in with his
fine new mowing-machine, and having
loated it on lris hay-rack and stacked it iu his corral for use during the rigors of a Dakota winter, he feels that he has done well.
There is a great deal of hauling of govermurent reight and ore feather gets his share of that at about forty-five cents per huudred pounds, so that by a little exertiou he could earn as much more ready money
freighting as he could by raising stock, all of which, under a paternal governmen like ours, is much more like sport than
work, and well paid at that work, and well paid at that.
Oue Feather dropped in to see me the other day, resplendeut iu a pair of braud new sergoant's chevrons and stripes. He had just been promoted from corporal, and looked the pride and satisfaction which ernment's faith and trinst in him. After the congratnlations were over and ho had helped himself to a cigarette, I asked about his crops. He staid he liad a splendid field of oats, aud he expected to thresli about five hundred bushcls. Then he went on to tell me about his little garden of beets, stuashes, turnips and watermelons, and how his childreu eujoyed working in the
garden. He had six good hoosses and soune cight or ten liead of cattle. He was going to sell two of the steers to the agent in the fall, and would get about eighty dollars for theu.
Here was this man, little better thau tramp three short years ago, well along in everything and was going ahead as fast as any white man could.
While One Feather was talking hc had placed his rifle iu the corner, as the polico carry their arms with theu wherever they go, and picking it up, I saw it was a cavalry carbine, such as our troops are armed with "Where did you get this," was my question.
One Feather langhed a little sheepishly and said:
Ol, I got that on the field of the custer fight.
My interest was excited,
"Well, One Feather," said I, "did you have this in the Sitting Bull fight two years ago?"
respouded, "I did, and killed three of the hostiles there at the same tinie that the old chief met his death
Here was a history. It was with great curiosity that I examined the old, battered gun. What an experience it had had! who had been with the fated Custer had left his bones and gun together on the field, and Oue Feather had got the gun, and now had that same weapou and was carrying it under the orders of the governmeut, and had killed threo of Sitting Bull's most trusted warriors with this his-
torical gun, which had taken a most unique torical gun, which had taken a most unique
way of avenging its original soldier owner's death by turning against Sitting Bull, in
people:

## mile rations.

Onie of the first things to be ascertained in regard to producing milk is the food that will produce the most milk at the least ex pense. This questiou I have tried to solve experienceutinc reasoning, but by actual experience. For the last fifty years I have As the milk in this part of New York state is either made into cleese or shipped to New York City, we have been anx ious to learn what kind of food will produce the greatest quautity of milk, which will still be of suitable quality for the
market.
As the result of many experiments, have fonnd that I can get the most milk from corn-meal and still have it of the quality required; but as some will uot agree
with me in regarl to this, I will relate a with me in regard to this, I will relate a
little of my experienco in this line and let readers draw their own conclusions.
After the flush of feed is over in June or the first of July, as the grass becomes dry the cows fall off in milk. In order to keep up the quantity of milk, so that they may do well iu the fall, for which timo we provide after-feed and sowed corn, it short time, until the feed on the farm has a chance to mature.
My feed for that time has been a little corn-meal-about one quart after the morning milking, hefore they are let out to pas ture. This will keep up the milk. Last summer while thus feeding corn-meal that uone could be procnred. They found that uone could be procnred. They wished
me to try oil-meal for ten days, as they me to try oil-meal for ten days, as they
thought it would bring better results. I
took some, paying for it the same as the day from have cost. I had received that nilk. I fed the same quantity of the oil-meal and at the eud of ten days had 463 pounds. They had shrunk iu the ten days 168 pounds. Ithen secured somo corn-meal and fed the ame amount. The cows in ten days gained to 570 pounds, and continued to give bout that quantity. I gained back 107 pounds of tho decrease in milk.
Cottou-seed meal is on tho markot as vonderfnl milk-producing food. I pur ehased some, but could not get the cows to eat it well. I their thonght I would try hat I had been feeding of corn-meal. He ate it well, but in a few days I perceived he was eating his bedding, acted as if he was hungry aud seemed to grow poor. Istopped feeding it to him.
There was a farniers' institute here a few days after that. I asked why my horse had acted as he did, and was told that cottontime, as it lacked something that the animal needed. Then the question arose in my mind as to whether it was profitable or me to buy such food for my animals. I had also to feed them something else to
keep them alive, when ou the same amouut keep them alive, when on the same amouut
expended in corn-meal they thrive very expeny.
Last fall I wished to test wheat bran, and as my barn is heated with a hot-air furuaco aud the water is warmed, I let the cows go thenty-six days with nothing but hay menced to weigh the milk. The first ten lays they gave 2,588 pounds and the next ten days 2,459 pounds; there had beeu a loss f 79 pounds in ten days.
But as I wanted to milk until March I must stop this decrease, so I got 500 pounds of wheat bran, and giving 50 pounds per day the cows gave in the next ten days 2,202 pouuds. During those ten days the milk
had fallen off 257 pounds. I then got the same amount of coru-meal, but as that cost nost per hundred I would, at the same expeuse, give them but 40 pounds per
day. For tho first four days they gave about the same amount of milk; then begimuing to gain, they gave in ten days 2,275 pounds, an increase of 73 pounds. then continued to feed the 40 pounds of corn-meal soaked for tweuty-1our hours in
vater. The first ten days they gave $215 \%$ pounds and the next ten days 2,04 pounds. Thus iu thirty days from the timo I had pounds.
But I wished to be certaiu of my concluion, so tested the brau farther by taking one half as much meal and putting with it enough bran to mako it cost the same as
the 40 pounds of meal had. This I fed for ten days, and the cows gave 1,718 pounds, decrease of 296 pouuds. Thinking I had satisfied myself as to the profit derived
from feeding other things, I returned to corn-meal.
Some say there is uo milk in corn-meal, as it produces too much fat. Now, it is oow that drops her culf and is fat, will give more milk with less grain than ono that is poor. If this fat will return to the not food that makes fat make milk? With a view to helping the farmers, there is being introduced a so-called milk-producing food, made from corn after the sugar and starch are taken out. This may bo rood, but why is the coru any better for having a part of its substance taken away If such is the case, nature must make a
great mistake in producing corn. I lave not written thinking to convince any one but hope that the farmers who read this
paper will investigate the matter and see if am uot correct in saying that I can pro duce the most milk at the least expense

## A RICH FARMING COUNTRY.

The United States covers a large section of country, some of which has been uuder ertility has been largely reduced, whereb he requirements of crops are not as completely and fully satisfied. But there are other sections that contiuued in a wild and uncultivated state until a comparatively recent period, and are rich in those element of fertilit
of crops.
a section of country is found nort f the Missouri river and west of the Mis sissippi, and is included in the Dakotas, a part of Mmnesota, and extending beyoud
the boundaries of the United States into
more we see of the surface and capabilities of our country, the more we become conspecial agricultuin sectious are adapted to sections where the soil, climate aud all other conditions expressly declare, so far as we can express it, an adaptation to the eultivation of corn; another to the eultivation of potatoes, aud yet this evidence is often disregarded and mixed crops
habit.
habit.
The
The section of country alluded to above is ouo especially adapted, because of conditions, to the production of wheat
Through the Dakotas, Miunesota and Man Through the Dakotas, Miunesota and Man-
itoba and portions of Assiniboine the counitoba and portions of Assiniboine the coun-
try islevel and comparatively smooth, with try is level and comparatively smooth, with
a soil that appears to possess a high degree of fertility; it is free fromstones, aud when once broken up is easily cultivated. It is dark or black loam and of great depth, aud that it really is fertile is proven by This condition extends for huadreds of miles; it constitutes what is so well known as the Red river country, and has been few years.
Here seems to be a combination of conditions favorable to wheat production; ohstertile solis to that is from all preparation of the ground, the sowing of preparation of the ground, the sowing of try that is level, aud so, susceptible to tillage by the best possible meaus, and also that will admit of harvesting, etc., by the most approved machinery.
Where a soil is all that can be desired, the profit in any case of cultivated crops comes upon its being carried on upon a magnif icent scale, and here is an instance when as well as in ten-acre patcles Bnt throug this section as far as the eye could reach in every direction, it is wheat, wheat, wheat one would suppose surface enough to produce more than the eutire world could consume, but climatic conditions arise that While it is a prand
tensive section and think of the great possibilities that exist under favorable conditions, it is uupleasant to contemplate the scene under adverse conditions, such existed during our visit to the country a an unfavorable season of the year. The Red river country was not exempt from the severity of our past winter and its at tendant cold and wetspriug. And when we were passing through it about the last week April, the surface was so eovered with watcr that but little could be done toward getting in a crop, which is mostly of the
spriug variety. Large sections were plowed the preceding fall, but were so covered with water as to prevent any kind of work being done; other sections were even less fortunate, being unplowed and yet covered with water.
The
there feeting able nneasiness, for the reason that as a rule the crop is nsually in by the first week iu April. We learued, however, that exseeding was delayed until the first week in May, so while somewhat discouraged at the outlook, they still continued hopeful. It was said that with fair weather the mois ture would dry out of the soil very rapidly While we could not approve of the neglect of machinery, as we uoticed through the conntry, the great number of reapers that were lyiug about were evidence of the immense scale iphon which the wheat culture and harvest are carried on. The presence of immense grain elevators at all the railroad stations was another evidence of the quantities of wheat thatare handled, and so must be transported. Verily, the possibil ities of this country are immense

Wm. H. Yeomans.

## Hood's swimicures



It of poultic a runaing gorer formed.
I was in terrible dition. In about six monthe
my physician removed a piece of bone. I all the time bought half a dozen bottles of Hood's Sarsaparilla, and soon after I began taking it
the sore stopped dickiarging

Hood's Sarsaparilla

## (7) H2 fitut.

## F

GARDEN AND F! $\operatorname{cal}$ D NOTE ighting for EgG-platit.-In my
estimation, the egg-plant stands at tne head as an interesting
crop. Theirlargeleaves, strong growth and mamomoth purple d then the fruit makes a most aspectable dish. But in order to get it we have to fight for it. Potato-bugs are
extremely fond of the leaves, and if they are at all abundant, as they seem
to be this season, even larze plants will to be this season, even large plants will
soon be eaten domu to the bare stalk, notwithstanding all poisonous appli-
cations yon may make. I have given cations yon may make. I have given
the patch in charge of my little bos, six Years old. He takes a tin can, puts in a water, and thus provided hunts the patch the bugs hedcan find on the egg-plants and on the ground under them, and dropping
them in his little can. Atter a week's fight in this manner the bugs seem to be giving np, or at least they hare found food in the potato-patches near, and any egg-plants
well covered with a mixture of tobaceo dust, bone-meal and slug-shot (the same that I use for my melon and squash rines) seem to be safe.
Early Cabbage aid Catclflotrer. early cabbage, but I find that my plants tarted in the greenhonse in Narch, pricked out into cold-frame early in tpria and
planted out in open ground the same Lonth, or as soon as the soil was fit for
working, are really ahead of the plants that were wintered orer in cold-frame and set in open ground sereral days in adrance think we may be well able to save our cabbages, etc., by surrounding the stem or each
plant with a little piece of tarred paper: but if it were not for the high price of
caulifower seed, I think the easiest way would be to plant a few cauliflower-plants for bait, and then
treating the thauliflower-plants, or else by pulling the wilting plants up and
destroying them, roots, maggots aud destroying them, roots, magyots and
all. This destroys many of the enemies and prevents the mischief they would
make in future. I put a quantity of stone lime, some tobacco dust, a little nitrate of soda and of muriate of potash into a barrel
and fill it with water. This liquid mixture is poured down upon the root of each plant, ana it will kill erery maggot that erful stimulant. If the plant is not too far stalk is once all eaten through, and nearly rotted off besides, no treatment will sare
it , but you can at least destroy the maggots. Vegetables in Season.-The great aim of Americans in gardening is to have regbig prices are generally paid for vegetables and regetable is best and tastes best right at its natural time of ripening. Who, for peas come in, or for strawberries in raspgire us the most enjoyment in July, August and September, perhaps October. After that they seem to lose that taste and
flavor which made them so desirable at their proper season. I had a similar experience this spring with lettuce. The had it,
greenhouse grown, during April and May. Usually I am a great lettuce eater, but this fine, glass-grown lettnce did not seem ly of it, and soon grew tired of it altogether. Then came the lettuce from open ground. We cut out plants where crowding, $r$ more the coarse outer leares and jnst
prepare the tender hearts for the table. This makes an enjoyable dish indeed. and I am taking to my lettuce again as a duck
does to water. Every member of may family also comments on the superior quality
of this lettuce orer that which we had from the greonhouse
Earlx Peas,-Early peas are an easy we hare plenty to use and to spare for sale, do not know of a single one of late. But ors who has any fit to pick. Why is this? ally plant these firstearly sorts, the Alaska, Rural New-Yorker, Dan O'Rourke, the table, and none other, you must
prepared to go without peas in the early
part of the season, when peas are a luxury and taste best, and also witiout the peas of real choice qnality, such as the early, medinm and later wrinkied sorts. Tou may be sure there is a rast difference between
peas as to quality, even among wrinkled arieties. I want the best ouly.
ETaporated Tegetables.-I would like to hear from any of our friends whoi have etables. I am told that sweet potatoes can be made into a dried prodnct that will give as palatable dishes as the fresh potato. If toat is true, we have in the evaporating keep sweet potatoes in best condition the orn is an lhe evaporation of sweet results, although perhaps not as good as the canning process does. Bnt canning orn is not a safe operation in the hands of the small producer, while everybody can drr his sweet corn. Then there is asparagus and peas and tomatoes. There can
be no doubt that all these regetables can be preserved in good order by means of the eraporator, large or small, and as things go, we must have these regetables out of sea son, eren if not quite as good as they may be when fresh from the field. The ques sibly one or the other of the FARM AND Frreside family can give us some of his obserrations and tell us how best to man-
age these products for and in eraporating. age these products for and in eraporating.

Orchard and Small Fruits.

WHAT MANURE SHALL I USE FOR MY FRUIT CROPS?
This is a question that every fruit grower has to answer each season, and the proper solution of this problem will depend upon may be placed
In the older sections of the country it is generally best to depend upon the hom snpply of manure, supplemented by commercial manures. In the newer sections
of the country, where any manure at all is needed, it can generally be had cheapest in the form of stable manure, and best results rill follow its use.
The thought that apples need one kind of ertilizer, pears another and strawberries another, each its own special kind, and that it is practicable to gire each its special ness, is a source of much error, and leads to the purchase of many tons of expensire fertilizers each jear which could be dis pensed with. Practically all our fruits proportion to derelop them to their utmost but it may be supplied to some in a differ
In apple orchards, even in the eastern states, it is seldom best to apply nitrophosphoric acid is supplied to the soil, th nitrogen may be added more economically by plowing in a clover crop, which has the power of taking nitrogen from the air, and ground from the decay of its roots and stems. The same may be said, to a limited extent, of strawberry beds, since by grow ing a crop of clover the land is brough into good condition for this crop; only here to be many grubworms. in clorer sod, and they may injure the strawberry-plants which are most safely planted on land that raspberries and blackberries it is not prac ticable to plow in a clover crop; and here We find that stable manure is ono of the as well as plant-food.
One large Wiscon
fruits cut in the blossom, which is so rotten by the following spring that he cultivates
into the soil. In this way he secures good mulch and also a good manure for his bushes and berries.
For pears, again stable manure is excel lent, although it can be greatly supplepeaches, stable manures are notso much in favor, as they are supposed to induce a late fall growth in this tree, and wood ashes is which, like it, contain but very little nitrogen, but large amounts of phosphoric acid and potash, should be used if any are at all -
down that it will require large amounts of

the work must be done when the blossoms are
jnst ready to open; but as it is a matter of ver
general jeneral interest, I give some notes on the gen

## \section*{}

$\substack{\text { Cont } \\ \text { ant } \\ \text { ant } \\ \text { and }}$
er opened just before it would do so naturall

## pose. A paper or cotton bag should now be whitch the whole wht be carried to to keep out pollen insects. I abont tweive hours the stigmas




Wellow dust as soon as thes get quite dry.
When ready, the bag over the Concord cluster
Would be removed and the stigmas dusted
with the pollen from the Worden; the bag



CRIMSOH CLOVER SEED, Dover, Del.

 shriped Bugs.-C. Dit Hull, writes . What
should do with my strawberry bed to get a
third How mant paing crops of berries
ought a bed to raise without being renerred
What ls a sure remedy for the little striped bugs on garden rines? Ererybody has a sure
remedy, but the bugs don't seem to find it Reply:-As a rule it is not a good plan to
take more than two crops from a strawbery
bed, and Jet I do it oceasionalls when the bed
is in good shape after the gathering of the second crop. The plan I adopt is as follows: As
soon as may be the bed is closely mowred and
all the weeds and strawberry leares A plowis then run on each side of a matted
row and all but abont one foot ln width of it
is turned under. The furrorss thus made are
filled with fine, rotted mannre and the cul
tin then thinned ont with a hoe, and special
pains taken to cut out all weeds and old or
weak plants. This leaves the old bed clean, old plants can make new roots. The plants
soon send up new leaves, which are much
hen Oliage allowed to remain, and if we hare an
ordinars season, an abnndance of runuers will a bed mar often be made to produce good
crops for three sears. The simplest remedy
is to prevent their coming near the rines by
corering the latter with mosquito-netting
$\qquad$
sinash and which I keep the plants dusted all
lime, With which
the time untilthey are well started, when they
care for themselves.

Coming method of farming by irrigation. Sure crops bountiful yield in Colorado. Home
market at highest prices. See add. of the Toltec Canal Co in this issue.




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## OIII fixm

## THE WORLD'S FAIR DAIRY TEST

Tnair thorough and rigid is now the world ever knew is now being made at the Colong been the desire of farmers that the different dairy breeds
of cattle should be subjected to just such test as we are now having, in order to learn the true merits of the different breeds fairy cows.
It has caused much pain to the average farmer to know that he could not secure a herd of dairy cows of any breed that would average more than one to two pound, of honest, commercial butter, made from the common farnı keep of dairy ce-ls. To three to five pounds a day right along, made the farmer very sick. If he uudertook in some way to get one or more of these high-record cows and then brought them down to his regular farm feed, no doubt he would find better cows already in his herd, to which he had never paid in his herd, to which he had never paid
proper respect or care, never suspecting proper respect or care, never suspecting
their many good qualities were entitled to their many good qualities wer
more favorable consideration.
It must be borne in mind many of these United States have been ransacked and scoured most thoroughly to select out only
twenty-five phenominal cows of each breed twenty-five phenominal cows of each breed for this great test, cows that had won the premium ribbons many times, and that had great pedigrees and names. Ithink Inever saw seventy-five as good cows together as these. An of them were in good tiesh, different breeds, and nearly all of them in fresh milk when the test began. They fresh milk when udders, and look like perfect reservoirs for milk. They are fed as much grain feed every day as their superintendents dare feed. In fact, every old farmer
will know as soon as he looks at them that will know as soon as he looks at them th
they are crammed with feed and water.
And with all this feed, care and perfect work, not a single one of them averages two pounds of butter per day. The cows are all dairy queens, and look perfectly honest, and are docile and quiet, not a fraction near as nervous over the test as their
owners are, because they don't pan out with a vapor record. It is too early to pass judgment on them, and it is not certain that the cows that give the most milk, make the most butter or cheese, will win the victory, because the conditions of the test require the greatest amount of product and the best quality; and also, any increase in
pounds of flesh they may make during the pounds of flesh they may make
test upon the least cost of feed.
They all feed as they like, and no two of them feed the same amount or same
proportion of hay, fresh clover, grass or ground feed, aud although the board of managers give them all alike the different
kinds of feed at market prices, until the kinds of feed at market prices, until the
test closes and cost of feed is counted and the judges' decision on quality is giveu, it is not possible to tell the result. The cows were weighed at commencement, and will be weighed at close, because all theseitems profit of the breed and actual worth.
I see no chance for cavil over this test. The cows are milked two or three times a day in the presence of committeemen chosen for the purpose, and the milk is then put into cans underseal, and delivered
at once to the dairy building, where it is cooled down. When ready for the separator, it is weighed by Prof. Babcock (the
inventor of the Babcock milk-tester) and inventor of the Babcock milk-tester) and a
record is made of the weight. He saves at record is made of the weight. He saves at
the same time a sample of milk taken from the whole for analysis, and after creaming it the skim-milk is tested to see if any
butter fat is wasted by the separator, and if so, a record is made of that. The butter is then churned, after the creant has been ripened, and each mess has a churn by itself, so all is done at the same time.
Dr. Babcock then takes a sample of the buttermink from each, and it is tested to and if so, a record is made of that fact. When the butter has been worked dry and perfect, the same amount of salt per pouud of butter in each, the doctor takes a sample for analysis, but weighs it with the other butter, so nothing need be lost of the full
yields of butter, to help bring them up within gunshot of the fairy tales told about in their private tests. The butter ma-
chinery used was agreed to by all at commencement was it does seem to me that nothing could be fairer.
There is one chance for oavil that I can
sce, and only one. If one of these brceders food used than the others, so as to win, it is barely possible such a coutingency uight happeu; but probably tho test wil not be so close as to make it fatal on that
account, aud the war of breeds still conaccouns
tinues.
The ensilage furnished by the board is a miserable failure. I uever saw such large body of rotteu feed, that is totally unfit for such use, before. Evcrythiug in
this department has beendonc wrong. The this department has been douc wrong. The
silos, to commence with, are two great, silos, to commence with, are two great, maumoth coucerns, round oues, and have feeding surface exposed to the air large enough to feed three hundred head of
cattle twice a day and kecp the ensilage iu fair condition. I suspect somo one who knew but very little about silos or the requirements of ensilage bossed this whole busiuess. At all cvents, it is a disgraceful failure, and will do the silo cause more injury than its devotees can wipe out for years to come by voice or peu.
From June 10th to 13th I can take my oath that both of these silos were open at the same time aud the eusilage all uncovered in both pits, and great big holes dug into it to find, if possible, some of it fit for cattle
feed, thus exposing needlessly surface enough for five or six hundred head or cattle. Of course, it would ruin the whole business in a very short time wh
seventy-five cows were to be fed.
The silos should not have beeu made larger than from fifteen to eighteen feet square, and from twenty-four to thixty feet deep, and several of them in one building. Then only oue of them should have been opened at a thine, and each feed taken
carefully from the top each time, not loosening up the main body of it. The ensilage would then havo come out nice,
sweet, waru feed for the cows, and would sweet, waru feed for the cows, and would
have made some better showiug thau can now be done.
I am very sorry that this great, un-
necessary failure should havo occurred necessary failure should havo occurred,
and am greatly surprised to see such and am greatly surprised to see such a
miserable failure left ou open exhibition every day. They canuot burn them up or haul this stupendous pile of maure away without exciting serious remark; but they could be closed from view, aud thus hido one of the greatestinistakes
The exhibition of buttcr and cheese at the dairy building hardly meets the expectations of the public. It is impractiplaiu view for au exhibition. It gets off in plaiu view for au exhioition. It gets off in
flavor so very soon that it must be kept in fefrigerator rooms, especially so until after it has beeu judged. Many of the states have a dairy exhibit of their own, but the people must take the judges' report, in stead of seeiug the butter.
A few visitors can be accommodated in in operation, and can see from-separator is this work being done. I notice, however, but few stay any length of time, as there are so many greatcr attractions they can sce much better
This test is a great educator, and will lessen the gullibility of man. It will require a generation of unboru farmers $t$ believe similar tales of the breeders we have accepted so long. The other breeds saud enough to dairy cattle, that did not hav test, show most conclusively that they could not face the knowledge of the people that the famons butter records of their pets if not all bosh, werc too full of casein, salt worn-out pair of steclyards.
Farmers can now congratulate them selves that their task of securing nearly porfect herd of dairy cows is not so dificult as they have heretofore imagined; but they will be very apt to give them better care and feed, and make all the uoney possible in the busincss. This is the only exhibition of stock upon the grounds. Carpenters are busy building stock barns and sheds for the exhibition of all kiuds of stock, which opens August 1st.
It is to be hoped that railroad fares will be lessened and excursion tickets good for thirty days, at least, be given for one cent a mile, or half fare, same as all roads now give to political conventions and "hoss.
races."
By goiug down town to European hotels -the old established houses-it is uo
great trouble to secure good rooms for from fifty ceuts to $\$ 1$ per day, and meals close by for twenty to twenty-five cents. You can pay twice or three times that amount in hotels close by the grounds, and get uo better fare. The crowd is steadily increas-
ing, and the weather is now warm enough
so that teut life in farmer camps is possible ; and better for the health and uorals of the people, because they stay at homc more at nights. Henry Talco
In company with Prof. Hunt and a delegatiou of over twenty students, representing the agricultural and horticultural departuents of the state university, I recently spent a weck at the Columbian exposition. To say that we were delighted with what wo saw is a feeble expression of our satisfaction. The exposition is certain-
ly a graud one, greater in variety and ly a graud one, greater in variety and
extent, moro remarkable in the excellenco extcut, moro remarkable in the excellenco of a large share of its exhibits, than the vorld has hitherto seen.
The main buildings which cover and protect the greater part of tho exhibits, and better than any one thing they contaiu, and artistic skill. The design and rapid erectiou of those fairy wonders is surely a triuuph of mechanical iugenuity, and does honor alike to art, iudustry and man. To see those grand buildings and their conlents is an opportunity of a lifetime, aud it seems doubtful if another exhibition so extensive, so compreheusive, so instruc-
tive, will ever be presented those living to-day can hardly expect to see one.
At the time of our visit the exposition had been open for six weeks, but it was departments the sound of saw and ham mer or the smell of fresh paint saluted the visitor. The authropological building was not open for inspection, and the experment statiou exhibit was still in a state of confusion. By this time, however, the ixtures are all put up and every article
duly arranged for exhibition. duly arranged for exhibition
Any attempt to describe the exposition as a whole in a brief article must be futile.
There is such a wealth of materials, such a universe of inventions and manufacturcd products, that any effort to describe particular exhibits or point out the merits or A few general statements must suffice.
The exhibits are classified under twelve general departments, as follows: (1) Agriculture and forestry, (2) hortica live stock, (4) fish and fishing interests, transportation, (8) manufactures, (9) electricity, (10) fine arts, (11) liberal arts and 12) archæology. With one or two excepions there are separate buildings for each oue of these'general classes, and many
sub-divisions have buildiugs of their own sub-divisions have buildiugs of their own. Agricultural hall, although by no means
the largest, is one of the most imposing buildiugs on the grounds. Its site is commanding and its architecture is most pleasiug. In this building one can see the
choicest agricultural products of every state in the Union, together with similar products from other nations. Great Britain, mauy, Austria, Mexico, Denmark, Sweden, Japan, Paraguay, and perhaps soveral other countries, aro well represented. Thcse products of every portion of the United States, present au iuterestiug and instruc tive lesson of the agricultural progress of world. A floor space equal to au area of six acres is packed with every descripnot only the best now in use, but showing the progress that has been made from the earliest times.
The experiment station exhibit, which is located in the southwest corner of agri-
cultural hall, will be found equally inter esting and instructive. This exhibit intended to give au idea of the range and scope of the work of a model cxperimeut tion of the scieng the application and relachemistry, etc., to the arts of agriculturo and horticulture.
In the galleries among the many exhibits that come under the head of agriculture, we fouud an excelleut display of dairy representing everything pertaining to bee-
reme keeping, besides a large number of exhibits represeuting the various manufactures that come direct from agricultural products. come direct from agricultural products.
The different states have vied with e other in representing their respective agricultural resources. The young but enter prising state of Washington shows a typical farm in miniature, in which are
represented the farm buildings, fields of grain, plows, binders, threshers, etc., at work.
Iow
Iowa makes a fine display of her deep,
fertilo soil and fine cereals, Kentucky proudly exhibits her tobacco, Louisiaua her sugar-caue, so that one can here study the staplc products of each state, and also obtain a good idea of the varied resources of each
The variety and excellence of the products of the southern and far western states was a uatter of uo little surprise to thos acquainted only with the agriculture of
eastern aud central United States. When eastcru aud central United States. When
we seo the resources here displayed by the different states, one can better understand the remarkable material development of this country
If the only end attained by this expositon is to exhibit to the world the progress if it sets forth in clearer light the uuending variety and untold wealth of our natural resources, and slows how these resources are being skilfully and economically developed, it will not have been in vain. And yet, we should not be too self-complacent; the agricultural resources of other countries are by uo means insignificant. The display of the colonial products of Great Britain and France is vast and comprehen sive. Canada, as we would naturally
expect, has an excellent exhibit. There are rich and diversified products from different parts of Asia, Africa, Australia and the islands of the sca. These contributions in the field of agriculture from foreign countries may look meager beside our own, but we must remember that the value of au exhibit is not always to be gaged by the space it fills or by the impression it makes on the wondering gaze of a thoughtless observer. These foreign products have been shipped thousands of miles; they represent a different soil and climate, and the countries coutributing deserve consideration and kind treatment even pared with our own. I Shall have something to say of hort
culture iu my next.

## EXTRACTS FROM CORRESPONDENCE.

Frost ArisansAs--Benton county is sit-
uated on top of the Ozark mountains, and lias
a most delight ful climate




 papers, two roller-mills, fruite vaporators, etc.
Wap have three rairods, four banks, ight
papers and manyother advantages. Our win-
ars are very mill. pars are very mill.
teroat, Ary.

## WESTERN FARM LANDS.

A pamphlet descriptive of the farm lands of Nebraska, Northwestern Kansas and Easton Colorado will be mailed free to any address C. B. \&Q. R. R., Chicago. Send for one and


There is sweetuess in a Glass Jar. There
is comfort and profit if you use these packages
The CRYSTAL CREAMERY CO.


## (9) ITx farm.

## THE POULTRY YARD

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## DOUBLE.GLASS ROOF HOUSE.

 poultry-house in this issue good rentilation. Convenience and shows only four peus, but the sired. There is any length denorth side, three feet wide. Each pen is s by 12 feet, divided from the alley by lath by 12 feet, divided from the alley by lath by 32 feet feet on the inside of the wall. It has a door at each end of the passage way. In summer these doors may be of wire, on frame. The partitions between thepens should be of boards, three feet high, and then of wire netting over the boards. The building mas be of stone, brick or wood. The mindows are of double glass to insure warmth in winter and to may be placed in the middle of each pen, or next the partition, with dropping-board under the perches, and the nests under the boards, or the nests may be made of wire
and hung against the wall. The cupolas

When eggs are sold oft the farm it is simply a change of the forms of the food consumed. A bushel of wheat, which may not sell at a profitable price in market, may It is, after all, but the that are in demand. It is, after all, but the selling of the mheat in another shape, the hens being the mediums, or agents, for manufacturing eggs from other substances. If the farmer can get a higher price for one article than he can for another, he gains the difference; but it will not pay him to keep stock that consumed.

## ENSILAGE FOR POULTRY

A large quantity of green food may be cut up fine aud stored in barrels, hogsheads or boxes, for winter use. To do this properly the green food should be cut when the plants are near maturity; that is, when the seed heads are forming. In this condition the nutritious matter will be arrested in the stalks while on its way to fill 'out the seeds, and will contain less water than if cut at an earlier stage. Clorer, alfalfa, rass of any kind, or even corn will answer. Bear in mind that the point to observe is must be given, \#hich is generally done br placing heary stoues on the cut food, the

## GET READY FOR INCUBATION.

Now is the time to practice and learn with an incubator. You will have but little to lose, as eggs are cheap and the keeping at the proper temperature can be done with but little expense. It is not best to wait until you are ready to hatch chicks for market before procuring an incubator, for you cannot then afford to sustain loses and time will be ralnable. You should learn how mistakes are made, and how to aroid them, while you hare an opportunity to do so with the least difficulty.

## REGULATING THE SUPPLY.

Before sending poultry to market it ould be well demands. If there is a call for broilers the old hens are not wanted. We have seen ads of poultry sent to market, to be sold
saerifice, when the kinds desired by customers were retained at home. Even during the period when chicks bring the highest prices no attention is given the weights, yet it is well known that during the several seasons high prices are paid for chicks of certain weights, when those of lower or higher weights will barely sell It is also a sacrifice to send forrls to market unless they are fat, yet the market is filled with poultry that is in no condition for s a demand for the best, but there is
little demand for some kinds, especially if the season
for those kinds has for those kinds has regulate the supply to, a certain exten by observing the market. The point is to find out the find of poultry pre ferred according f poultry Nokind of poultry wili have for a whole rear, as custom and preference gives the farmer sell all at some time. TABLE SCRAPS.
The scraps from the table are quite an addition to the food, and greatly lessen the cost where but a small flock is kept,

Dotble-glass Roof Hotse
are for ventilation. The roof windows are raised and lowered by a cord and small pulhouse each rindow frem so as to more easily prevent lice. Roosts, nests, etc.,
should be movable. The house can be made of sod in the prairie sections. The house each pen. The design is by Mr. O. A. of the rards and mire fences is shown in the illustration, a description being unnecessary.

FEEDING.COOP FOR SMALL CHICKS.
A coop to prevent fowls from consuming the food giren the chicks, is a design by which he describes as follows: This spring, having need of new feeding-coops, and having no nails conrenient, though I had plenty of "lumber sticks," I cut two pieces
for gable ends (A), the boards being two feet wide at the bottom, tapering to one foot at the top. With a three-quarter-inch bit I bored holes for the sticks; the sticks
being two and one half feet in length, and being two and one half feet in length, and
rounded where they entered the holes.


Feeding-coop for small Chicks. They were driven into the gables and the coop was made. Bore the holes in a straight
line one and one half inches from the edge line one and one half inches from the edge
of the boards. The coop is rery light, and can be set over drinking-vessels, troughs, ducklings from getting into the trough or may be used to protect flower beds from fowls. It is a cheap, easily made and handy arrangement. in reply to an inquirs.

## WHEN TO SELL.

 tis name is applied to all adult males Whether prices are high or not it will not take adrantage by selling t.ow.and consequence whatever when there are allow to go into the barrel and press on the large numbers of fowls, as the proportion rents. If sufficient weight is given on materials they will be pressed as closely As the materials tobacco in a box. exceeding half an inch in length), the will be ready for use in winter, and will be appreciated by the hens. The work of preparing the ensilage is done now, and in directly from the barrel. The green food so prepared will be succulent, and will provide an agreeable change at a time when greatly promote laying. We gire the abore

At all seasons of the year but little demand exists for adult males. The quotations seldom exceed seven cents per pound for what are termed "old roosters," but without regard to age. It will cost more to keep a cockerel six months than to keep monthree months, and ret the three-months-old bird will sell at twenty cents per pound, or three times as much as he will bring if kept three months longer. No doubt it appears foolish for persons to lose the pportunity of selling young birds affirm that too many pursue just affirm that too many pursue just such an unprofitable method. A cockerel that weighs about three cents per pound, as it is a "roasting chicken," but one month more may simply becanse it has dereloped a comb and wattles, and has passed beyond the stage of chickenhood. The time to sell is before the chicks attain the weight of three pounds and when the yards are crowded. pay to keep too many together, aspecially high for roasting chicks the As prices are
to each fowl is too small to be of assistance. There are, however, quite a number of families who delight in the keeping of a few hens, and as the scraps are then of ralue, and the labor insignificant, the flock is sure to give a profit. In fact, where there is a large quantity of scraps, or other waste, we consider it wise to procure a lot of hens in order to consume such materials.

## POTATO-BEETLES AND POULTRY.

All kinds of poultry will eat the soft young of the potato-beetle, and some will even take the adult beetle, but unless the beetle is killed before it is swallowed it will remain alive in the crop, the result usually being the death of the bird. There are many insects which fowls will not touch, for that reason, as the hens have no teeth to masticate them, and must swallow them alive, unless ther happen to strike the attempting to use them as food.

## THE BEST INCUBATOR.

Many readers nrite and ask us to inform them which is the best incubator. The factis that incubators differ, each possessing some adrantage of its own, and is the be in one respect, perhaps. Forme to attempt ignore many that would rival the selected one in many ways. We hare given some at tention to the matter, and we find that opinions differ, as some operators prefer certain makes, while others are partial to other kinds. Much is governed by, the climate the arrangements, and the atteution to be given, as the best depends upon circumstances.

## to start hens to Laying.

If your hens cease laying, the first $d u^{2}$.y sufficient for lice. If you had lice. it nored so severely as to debilita!e them Look in the poultry house for mites, and on the heads and necks for tne large lice If you find no lice, it mearz that sour hens If you find no lice, it mear. 3 that your hens
that something is lean meat, fresh, and pounded bone. If the hens are confined in rards ther will also need chopped grass, Feed meat and keep down the lice, and the hens will lay right on.

## CORRESPON工ENCE.

Experience with Leghorans.-The Ma me, and Imish to correct a mistate in th poultry department in regard to the Brown Leghorns not being sitters. In the first plac I am a great lover of the hens, and am going to tell jou of my experience with the Brown Leghorns. A year last March I sent to breeder and got me a Brown Leghorn cock eral. He rras a dands; he cost me $\approx 2.50$. He with the fiock of mixed Ply poouth Rock; so I took ihree half Bromn Leghorn hens and m rooster and shut them in an old corn-crib. and $I$ :-d the prettiest pullets rou rould mis o see, and all alike. 155 pullets commence to lay in February and lased up into Then thes went to sitting. Tow I here tro with large broods of chickens. One is for eighteen and one for sixteen chicks, and bare three hens sitting. A cat or a rat could not easilyget a chicken from them. I hare always
had from forty to one hundred of half Ply mouth Rocks, and hardly
 they are good lase
of moothers.

-ED.]
Florenably Chicken-pox.-Mrs. D. W. V. Probnbly Chicken-pox.-Mrs. D. W. V.,
Florence, Oregon, Writes: "The combs of my
hens bllster, and then sale off. Thes become
lame. All hare taken it within a week."." chicken-pox. Nothing can be done except to
keep the birds in a dry place, though the
combs may be anointed with sweet-oil. Cramps in Ducks.-F. O. P., Thedford Neb., writes: "I hare a a lot of puns dncks
that began to draw np, walk $B$ few steps. sit
down, turn orer, and die. They hare free range and plentr, of rater."
REPLI:- The difficulty is cramps, due to the ducklings drinking too manch very, cold water,
as well as being chilled by going on the water Scaly Legs.-Mrs. J. D. P., Aurora, Illinols,
rites."My Brown Leghorns hare something sinilar to scale on their legs. They become

minute parasite. The scales also aford a har-boring-place on the legs for llce. Mllx one part
kerosene and three parts lard or lard-oll, and
anoint the legs once or twice a reek. Lameness.-F. W.. Beloit, Wis., Writes
"About five weeks ago one of lame, and walked on the shanks of her lege. not seem to hare the use of her legs."
REPLY:-There is a probability of the lame ness being cansed bs the hen being fat, and
jumplag from a hlgh roost to Lard gronnd. Remore her from
Do Not Lay.-M. H., Horre, Idaho, writes I hare about fortr hens, but get very fen
eggs. Thes pick their o:n n liring, hare gras
and insects and some galn. Ther are in sood condltion. What shail I do to make them
lar:", Ray" Rely:-The cause 1 s probably due to llce
Look on the hears and necks for the large
 smal prorlice them the hens with insect-porrder
and dust-bath of coal
ashes or diry dirt. Foor for Chicks.-G. H. S., Olympla,
Wast. Writes: "What Is. the best food for
chlets about three months old, that are kept cor, ned lu a small pen? What is the cause
of some of them having swollen eses and sore REPLY:-Feed anything that thes will eat, but do not omit chopped grass, and allow
ground bone. The sore feet may be the result
of so man causes that rre canonlr consecture Th so manreauses that we can only consecture
is the one in thls case. It may come Srollen eres usually result froma an overhead




## $\underset{\text { empan this voric }}{\text { Qucticts. }}$

| writes: "Some sears ago I read aboutmoney raising orris-root. Can youanything about curing it, and alsowould be able to dispose of it? Doesflag produce the orris-root?"Reply by Joskri :-The orris-rootmerce ls the root of a species of EuropIris forentina. This being less particusoil than most other irises in cultivaproduced with comparative ease, butthere is any money in its cultivationthan I can say. Perhaps one or the |
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## Remedy for Cockroaches.-J. G. B.,

 vannah, Mo. - One of the best remedies fo as buhach. Dr. Rileynightfall go into the infested rooms and puff it into all crevices, under base-boards, i drawers and cracks of old furniture-iu fact,
wherever there is a crack-and in the morning the floor will be covered with dead and dying or paralyzed roaches, which may easily and persistency in these methods, these pests may be driven out of a house, and they should migrants from without."
Pea-weevil, Chess, Greenfiy, etc.-A. B
Defiance, Ohio, asks: "(1) How can I keep m,
beans and peas from getting bugs in them (2) What causes chess in wheat? (3) What
causes the lice on our house plants, and what Will prevent them from getting lousy? ( 4 ) The ground in our house-plant pots has little
whitish worms in it. Give canse and remedy for the same.
REPLY BY Joseph :-(1) There is no way that I know of to keep the weevil from despoiling
our peas and beans. It is, however, an easy task to kill the egg, or small larva, in peas and
beans kept for seed: Simply put them in a tight box or otber receptacle, and an open bo carbou on top of them, closing tightly.
"Chess" in wheat, like all other weeds, con "Chess" in wheat, like all other weeds, comes
from seed. Use land and seed which are free
from its seeds. (3) Spraying with (or dipping in) strong tobacco tea will clear yonr plant from greenfly. (4) For worms in the soil of

## Asparagus and Rhabarb Under Glass.

 -two., Springfield, Mo., writes: "I have buil tuce. On the north side of each house is abench for raising plants. I would like to try to raise asparagns and rbubarb under those
benches. Kindly give me some information about it. My house is the common three short-span-to-the-south greenhouses?
to grow asparagus and rhubarb under thing house benches. Dig good, large plants in th wherever you can keep them dormant and their roots from drying or freezing. About
six weeks before yon want the crop, prepar the bed nnder the bench by spading or flling
in rich soil consisting of one half loam and one half old compost, and set'out the plants closel together. Then await de
harvesting of the crop. Th condltions, purpose, etc I
Fertilizers for Wheat.-A. E. B., Cam efficial analysis, ammonia 3.69 phosphoric acid 26.61 per ceut) for $\$ 25$ per ton
and dissolved bone (analysis, ammonia cent, phosphoric acid 10.33 per cent, Insoluble phosphoric acid 3.33 per cent) for $£ 20$ per ton Which wonld pay the be
this fall, land to be sorrn
pay at all at that price?"
$\qquad$ sonably cheap at the price given. Whether their application will pas or not, that is more
than I can tell. If your soil needs phosphoric acid, it will probahly pay, otherwise not. I
is, at least, worth the triai, and I would no hesitate to use either, although perhaps pre-
fcring the bone-meal when applied in the fall. If bone-meal is fine and dust-like, the a large extent by the time that plants will
need it. Forspring application I would rather use the dissolved bone, as phosphoric acid in
this form is more immediately available. All I can say is, try it

[^0]
## VETERINARY.

**Gonducted by Dr. H. J. Detmers.nt*
Professor of Veterinary Surgery in Ohio statu

THE COST IS THE SAME Hind

The Hartman Steel Picket Fence






 and as a rule are incurahle. In your case
would advise you to hreed the animal.
It should have been done when the same was

Buffalo-gnats.-H. O. M., Wideawake, KJ
Writes: "Our cows are annoyed hy an insec
closely resembling the common house-fly, bu
somerwhat smaller. They ilve on them in
The
swarms, draw the blood aud produce great
sores which finally form scabs, but are ver
slow in healing. This year they appeared i Sow in. They. torment them incessantly
March. Them irritable and no doubt cause then
make the call them buffalo much, suffering. Some call them buffalo
gnats.,
ANSWER:-Buffalo-gnats (Simulia peccarum) When numerous may become very troullesome Dense smoke will drive them off. It has also
been recommended to take a mixture of an
inspissated tobacco decoction, lard and coal oil, and smear it onto the tender parts of thc
skin of the troubled animals. I cannot speal sof tho gnats of myown experience, and cannot
give oran anther advice in regard to them
May he thai Prof. Bennett, in Lexington, call
Several Questions.-S. D. F., Storrell,
several Questions.-S. D. F., Stowell
Kan, Writes: "While diving my five-year-
old colt, some five months since, he threw his off hind leg over the pole and went so about
twenty rods, Wearing off the bair up near the
body, but not breaking the skin. Some si body, but not breaking the skin. Some six
weeks ago I noticed the leg was swoollen.
He is not lame at all. (1) How can I know
when a cow giving milk bas tuberculosis? (2)
Cansbe be cured? what you describe is a
ANSWER:-Unless way rub in once every other
case of farcy, you may
case of farcy, you may rub in once every ot the swelled veins (?) or lymphatics. If, however
it is farcy (external glanders, any treatment
is out of the question. Al By having the
is
cow thoroughly examiued by a competen
veterinarian, and even then a definite diag
nosis is possible only if the disease is in an
advanced stage of development. If in its in
cipintstage, the true state of affirs can be
ascertained only by a post-mortem exam
Fistulous Withers.-A. W., Saratoga
Neb., writes: "I have horse that has
Neb. Writes: "I have a horse that has a
swelling on the top of his shoulders. No, douht
it is fistula. What can be done for it",
ANswer:-The treatment entirely depends
upon the nature of the case. In all cases
ANSWER:-The treatment entirely depends
upon the nature of the case. In all cases,
howerer, either the existing opening or open-
ings mnst be sumfiently enlarged so that pus and exudates can be freely aischarged. or
new opening or openings, perfectly
draining the bottom of the fistala, must he
made. This done, all degenerated tissue surmade. This done, all degenerated tissue sur-
rounding the fistulous canal or canals must be
destroyed rounciged. This usually is done with caustics,
destroyong them sulphate of copper is ahout
and amon as any. After this has been done, the
as good and as good as any. After this has been done, the
sore bas lost its fistulous character and may
be brought to healing by a simple antiseptic
treatment and cleanliness treatment and cleanliness, like any other
wound. The treatment of any fistula, how-
ever, requires good judgment, prompt action
$\qquad$
Veterinarian. J. W. T., Annville, Pa., writes: "My horse
about five months ago, accidentally run a
splinter in his hoof about an inch below the
coronet The part above the coronet was torn coronet. The part above the coronet was torn
loose. The hoof was cut avay and the splinte
taken out. That part immediately healce
That above the coronet also heaied, bu
that formed abscesses, Which, if not lanced, woul
open themselves. It opened at least at six dif
ferent places. Ihave not used the horse sinc
it

ANSWER:- What you describe seems to be
fistula in the cartilage of the hoof, or a so
called quitter. First pare away the loose horn
and see to it that pns and exuates can be dis
chate
calfed qniter. First pare a way ites can be dis
and see to it that pns and exudate
charged. Then prepare a mixture of corrosive
sublimate, two parts, genuine powdered gum
acacia one part, and water, three parts; mix
sublimate, two parts, genuir, pow ered gum
acacia, one part, and water three parts; mix
these snbstance thoronghly so as to make a
thin paste and put the mixture into a large
test-tube. This done, take some cord not

CURIOSITIES.
We are notcd for doing business with liberal hand. Here is another sample.
In the first place, we dcal in everything that is odd, quaint or curious, from all parts of the world; and publish a hand Homely illastat cathe same Here is one of the collections which we
acturally mail, postage paid, for only one dozen 2 -cent stamps! and if you can find an-
other curio dealer in the United States who moncy, we will give you this collection and pay you for taking it. Come now, this is a challenge.

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$\qquad$ Scallop Shell.
$\begin{array}{ll}\text { Neriten Shell. } & \text { A Fine Sea Bean. } \\ \text { Turk's Cap Sheil. } & \text { Scarlet Sea-Peas. }\end{array}$ Yellow Sea Lace. A Packet of Cotton Seed Indian Money. A Lovely Cactus, rooted.
A Piece of Sea Moss. Snow White Rice Shells. A Beautiful Sea Shell Collar Pin. A Packet of "Singing Sand," from Pablo, Fla.
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## ALWAYS HERE WHEN WANTED.



Wehster Dictionary
25,000 WORDS


## (1) Iir fiverilde.

## A BOY'S MOTHER.

If mother she's so good to me
Ef I was good as I could he.
I couldn't be as good-no, sir-
Can't any hoy he good as hior!


I dou't like her to punish me-
That don't hart-but it hurts to see
Her crin' - then I I cry ; an then
We both cry an' be good again.

My little cloak an' Sund'y clot thes:
An' men my pa comes home to tean
She iopes him most as mnch as me.
She laughs and teils him all I said,
An' grabs menp an pats nuy
An' I hug her an hug my pa

AND THE GREATEST OF THESR IS LOVE.

N 1ohn and $I$ used always to
remember each other remember each other
with a gift on our birth-
days, and I thought foul might enjoy one, tho," ing in February, as ber
father came iu to hreakfast, and she led the way across the room to where
an excellent, life-size crayon portrait of her
side of his secretars.
mother hung bs the side of his secretars.
"A sweet joung wife for a man of eightsfive, isn't it ?", she smilingly added, noting her The idea of a birthdas gift had probabls
nerer entered John Stebbins' mind in all his nerer entered John Steb bins' mind in all his been scoffed at as childish. The complete surprise of this one, the naturalness and beauty again as he stared at it, was too much for cren finally stammered some al most uniutelligible thanks, and on
"Never mind the thanks, father. We shall
cnjoy it about as much as sou, and wben
spring comes, I am going to make myself a
a present of one of Jou." "Come, come," said Maria, "the breakfast is all getting cold
Later on in the morning Margaret was pleased, but not surprised, to hear her father
say, as he sat looking at his gift: "It's wonderful how any one could make such a good likeness as that from those old thing, ve
"Not if it gives you the pleasure I hope, and
ou live to be as old as grandfather was," replied Margaret, smiling.
"There's no reason why I shouldn't, as I see
certainly bid fair to now," said the squire, confideutly.
"That is preoisely what I had thought and hoped when $I$ had it made, and I believe they Will be the happiest years you have kuown prised him almost more than by her gift of
the morning when she stooped orer and imprinted a loving kiss on his forehead.
Indeed, from the das of Margaret's homcher father and the greatest enigma in human nature that he had ever attenmpted to solve. was her low, soft voice and thoughtful, quiet ways. And yet on occasions, so proud and herself as to be unlike any one he had ever How could an inferior, groveling nature like his appreciate the power and beauty,
A long, tender letter from Richard, written on his father's birthday, was another, though yet, if there were lacking any evidence that wholesome and elevating, it certainly was this and previous letters of similar import. instead of hastily reading and muttering of the familly had retired for the night), and of the famlly had retired it in an inner comacross the back of his head, and sat for a long across the back of his heep meditation.

## ame had scarcel 5 been spoken in twenty years

to hare again descended upon the old home
natural father's heart and pleaded for mercy
to her boy, $\{$ know not. Ccrtain it is that
never before, In ali those twenty-one years,
had the squire looked With any degree of
leulency upon the injudicious act of his son.
eutency upon the injudicious act of his son.
Except for the almost crushing so row which
their older son Herbert had caused, Richard's
letter told ouly of continued good health, prosperity and happiness. And yet, strange
to say, this rery success, which a generous to sas, this very success, which a generous,
noble nature would have exulted in, was what t length overcame the better impulses Squire Steb bins' selfish, Findictive nature aud
determined him to stili resist his son's manly etermined him to stili
He had reached that evolutionary stage where ich anfortunate in biness, broken in spirit and with au unworthy wife, might have had a half-hearted, I-told-sou-so sort of beeu allowed to come back to the old farm, where he could be coonstantly reminded of his own shortcomings aud his father's magnanimits, and finally given his lawful share of the precious accumulations, which the old squirc could bs no amount of scheming carry out of life with him.
But the seeds of a nobler, truer manhood, that had surely taken root in his stubborn soul, would have to develop a stronger growth
than now before he could accept the olive than norr before he could accept the olive
branch of Richard, prosperous, influential and branch of Richard, prosperous, influential and
happs, and this withont his assistance and in happs, and this withont his as
spite of his direful predictions.
Never robust, but with a nicely adjusted
balance of muscular strength and nervous balance of muscular strength and nerrous
force, Margaret had endured a surprising nount of Work and care, and had never conidered the possibility of failure in that direction now. But owing to the exhaustlve stantiy subjected during the last four jears
and the unaccustomed rigor of a New England winter, she now found herself in a sadly debilitated condition, from which it was impossible to rally during the cold and rariable weather of spriug. Not in the least disheartments for her proposed trip to England iu June, confident that the royage would complete her restoration to health.
But alas for her plans! Nature has no in-
exhaustible supply of uerve force from which exhaustible supply of uerve force from which
we may draw at will, but a certain amount is pportioned out to each one of us, and when ing is sure to come, as it did to Margaret at a seemingly most unpropitions time.
pelled all thoughts of undertalfectually disfor her brotber at present, and gave Margaret or her brother at present, and gare Margaret horvever, was but transitory. Her splendid ment, her orcrmastering determination to accomplisb her self-imposed task, and the rest and strength that came from her perfect faith
in God, at length compelled her recovery. in God, at length compelled her recovery.
The slight modification of the squire's The slight modification of the squire's himself, and though many times, especially during the past winter, Maria had declared that
"father didn't act like the same be used to," "father didn't act like the same be used to,"
aud Margaret herself had sometimes thought him less harsh and domineering and more him less harsh and domineering and more not feel greatly encouraged at the result of her Knowing how little Emcline's invar aritar garet endeavored at first to conceal herillness, ittle good she had accomplished. But the spark of infinite tenderness, that though it remain dormant, is said to exist in every soul, tinual sufferings, and his efforts to mitigate them were indeed touching. At first these into the house if she felt any better, and in soldiug Maria, and even John and the hired mission that was "sure to make Margaret
Then he made rarious concoctions of roots and herbs, which he assured her would do ten and gathered dandelions, poke-shoots and other "greens" to give her an appetite, and
ater on, wild strawberries and rasperries.
some of his efforts to please her were humorome of his efforts to please her were humorvith a cluster of field-daisies in his hand, and biushing like a bashful lover, said:
"I hate the sight of the pesky thlngs, but you said last summer that you thought they Fere nice, so I picked a bandful for you."
Erery attention, however insignificant, was noted by the patient sufferer, and no
rords can adequately express the comfort and ords can adequately express the comfort and purchased some iittle delicacics at the village, and brought her, it was impossible to repress and glad tears in his presence, for his avess were the slns she felt least onfident of overcoming.
Do you wouder, then, that when he one day ill, Margaret, for if you can't pay it, I will help you," she reverently uttercd the prayer This was the bright slde of their life. But why portray the dark? No life can be suddeufom a mean aud selfish to a generous, noble one. But if, llke Margaret, we now and then catch the reflection of 8 innnite spark, let us,
like her, take heart of grace, and trust that he who implanted it will yct fan it lnto a glorious fiame
nce the eisis mas pable conditions, when nce the crisis rras passed, Marsaret's restora
of spirits, she grew impatient of the enforced delas in looking for her brother, and deter Only once, as we know, had Margaret mentioned these iuteutions to her father, and
until her arrangements for going were nearly until her arrangements for going were nearly
completed, had inteuded wheu doing so to inquire directly if he knew of Richard's exa ever, she decided to kindiy tell him of h going, and leave it to his honor to proffer Fithhold any knowledge he might possess.
But his honor was never put to the test, for unusual and startling noise was heard, and hastening to ascertain its cause, she sawr a terrified horse, with the remnauts of a carriage at his heels, run through the lane, and hear Naria, pallid with fear and excitement, cry : "Oh, Margaret, the horse has
At first sight of the squire, lying in a dead faint on the frozen ground, where he was thrown when his horse became unmanage-
able through fear of a steam thresher on the able through fear of a steam thresher on the road, it really
Of the half dozen and more strong men and women who quickly collected about, Nargar Was the most self-controlled and efficient. It quickly dispatched one man for a doctor and two thers back to the house for a strong broad lounge and four or fire piliows. When he had been restored to consciousness, it was she who quickly saw that his right arm was broken and his shoulder, which had received locatcd; who the blow, either crushed or disarm and uttered soothing, encouraging word as he was lifted onto the improvised stretcher and after arrangiug the pillows so as to affor all possible rellef, walked by his side and
closely watched every moment as he was closely watched eve carried home
slowl
And set, though outwardly composed, tumult of feeling was raging in Margaret's endeavors, her beautiful hopes and strong trust? Was she never to see that stern face lighted with the spirit of forgiveness and peace, and to hear that strong voice tremble With Christ-like emotion? And this fear and tor assured her that unless her father was in jured internalls, he thought that his strong constitution would enable him to pull through. It would, howerer, be "several months before recovered the use of his arm and hand, lic ever did, and there was always danger that
such a shock to a person advanced in life rould result in a general breaking up of his ystem.
During all hls life John Stebbins had never borne a severe attack of sickness, and for more
than fifty ycars he had not been conflned to than fifty rears he had not been conflned to
hls bed. Pcrfectly undisciplined in erery was, no one could expect him to be a model of patient endurance now. Indeed, to be changed, as it were, in the twinkling of an eye, from the full strength of manhood to the powers of a far stronger, nobler nature than
Certain it is that all his meaner qualitic. were aroused and intensified, and no one could have been a more pitiful example of spiritual weakness than he. Every member of the famly was in turn accused of being the inwaited cause of the accident. If he had not had not had so many "confouuded errands" for him to do, or the hired man had not been forerer greasing the wagon and hitching up, he should have got home before the threshingdelays, "if John hadn't put.an old whip in ms wagon, I could have managed that horse well enough," and one day he actually got so ex cited and angry that he declarad that scamp, he wouldn't have had to be running around doing errands in his old age. Even the doctor did not escape his harsh censure, but was several times told that he did not half attend to his business.
Had these fault-finding, refractory mood been spasmodic, everjone would have bee reads to overlook and forget them. But they were not. He had no words of appreciation and gratitude, but was co
Maria and John alternated in caring for him duriug the nights, but otherwise Margaret had the entire care and respousioility, and ueve In all her hife were her powers of phssical en faith subjected to such a strain. Firmly belicring in the power of love to complete the purfication already beguu $\ln$ his hardened, obdurate heart, she insisted that no one should by look or word resent his most unreasonabl this her skill as a peacemaker was often severely tested.
But as week after week passed, showing onl physical improvement, she grew despairing, and at length determined to adopt the heroi method of treatment once so effectual. She
therefore astonished him greatly when, on one of his most aggravating days, she said "Faruestly
ou are the most unreasonable aud Was his strong person I ever knew." Was his strong ieft hand to he raised against
her, or would that furlous, inhuman look be
but calml looking him directly in the eyes, "I should like to know what you mean by uch talk as that," asked he, in excited, passion ate tones, that revealed his anger far more than the words.
"I mean precisels what I said," replied Mar
garet, in the same calm garet, in the same calm tone as before. "I lnow that jou have suffered intensely, aud irritable and complaining. For nearly be weeks irritable complaining. For nearly nin weeks I have ssmpathized with you in four
sufferings and did every thiug $I$ could to relieve them and to make sou comfortable. But you have never given me one appreciative look or and uur word, and are so childish, exactin trying, and you must either do differently or must give up.
Much more to the same effect was said between them, Margaret preserving the same firm, calm manner until ber father's fier woman uttered burning words of reproof with God-like lore in her heart, it was she. If erer a man had the mirror of a narrow, vulgar, unworthy life held fearlessly up to his gaze, it was he. Did it accomplish the good she the controlling power of self and siu to holiness and God? Margaret knew not; for no confession tras heard, no pardon promise given; but she was coatent to her the foot of the cross-and rait.
And the waiting was not long. When the sun breaks through a rift in the clouds, we fee its power far more than on an unclouded da And when the sun of righteousness now an then breaks through the clouds of selfishnes and sin, they who kuow its shining are in stautly warmed by its rass.
"Like as a father pitieth," so did she pity, watchful of her helpless or deformed child, s gently did this mother and daughter lead he trusting father along that shining path who gate is never closed.
"Edith, can you start for America on less than a week's notice?", asked Dr. Stebbins a May. Instead of answering, Edith asked in May. In
surprise:
"What for, Richard?
"Because the trip will do jou good and be in his old age."
"Theu sou haven't heard from sour father," "Mo" replied the doctor; then added hesit. ingl, "at least, not in a,
sense will think reliable."
"Well, if you have faith enough iu the "ent enty sears for one, I surely ought to credit
Do explaiu yourself," said the irife earnestly

For some reason $x$ have thought so much bout father duriug the past six nout that I was often tempted to go home. And night
before last I had such a strangels if dream it was-that I am going right along.' "Do tell me the dream," urged Edith, with an almost frightened look.
"You need not be scared; there was nothing assuringly. "I was buss in musband re mind occupied with ordinary thoughts, with suffe sufferer, when, as Thomas opeued the door, looking precisely like the portrait af mother up in our room. Walking directhy across th room to where I was sitting, she smilingly bld me good-morning, aud stooping over, kissed me tenderly ou my lips, and said in a pleading tone, 'Richard, my darling, Jour father want
sou ; do go.' That is all, little wife, but I can no, shake off the impression it made and am going. Don't fail me. Boston while I go home, or go reconnoiteriu around wherc I used to have a bome," and
"You were right, father, thc flower seeds tha I plauted are couning up nicely, and it isu' quite two weeks yet," said Margaret, as with leading to the piazza, where her father wa reading.
"X knew they would," answered the squirc
confidently. "Nothing is ever gaincd by confidently. "Nothing is ever gaincd by
planting things before the ground is warm planting things before the gelieve it. Sou mother alwars bad the best garde of any one made me think of her when you were diggin out there in the ground. Sue uscd to say that she really enjoyed hariug ber hands in the "Sound
"So do I," replied Margaret, smiling, "and must go and finish that bed before the sun gets up
father?
"Il do, $I$ will get it. You hare had to wait well as I am now," replied the father pleas antly, but with earnestness.
The click of the frontgatc-latch a few min utes later caused Margarct to look ny
nildde-aged inan approached and said:
"Good-morning, madan. Could I get a glass of water, or bustly fong walk, and find the sun very the accldental death, in a painfui manner of tlon was assured And yet, under ber elatho
right around to the side
will gladly give you one,"
As the stranger passed the piazza, he touched his hat to the squire, and remarked that it was a fine morning.
He was a well-looking, dignified man in petacles, and with every appearance of a gentleman. Margaret was therefore greatly
 cause, was met by her father hurrying down the steps, while Maria, greatly agitated, around the corner of the house, follow by the stranger, and crying in a beseeching
voice:
"Oh, father, father, it's Rlchard. Do forgive im!"
But there was no need of her iptercession. The joy and peace that shoue in the old man's face as he was clasped in the outstretched arms of his son, told plainer than auy words could
have done that hatred had been conquered hy Ratherine B. Johnson.
THE END.

## A PAIR OF CHAPPED LIPS.

"Weather like this chaps onc's lips so! A box of lip-salve-the tinted sort," half whis-
pers a girl at the counter of the drug-store, phere I am buying a package of court-plaster. A smile steals over my face-I feel it-aud he clerk who waits on me, after he has takeu the young lady's order and opencd the door for
her, with a gallant bow, says: "', with a gallant bow, says:
Thats their lips. They always waut the tintedot thinking of lip-salve, but of the lips. pair of chapped lips came very near altering the whole course of my life ouce. I'll tell you about it:
I was awfully in love with Marcia Morse, even before I knew her. I used to follow her about; buy gloves at a counter where she was buying some; ride miles out of my way, because she was taking a car in that direction;
listened to the dullest sermons ever preached, listened to the dullest sermons ever preached,
because the church she attended was that which was unfortunate enough to have put the Rev. Mr. Longdrawl into the pulpit, and an introduction, I exhibited an ardor that I an introduction, I exhibited an ardor that do not notice in young people nowadays. I her to set the day-all in six months. Though was studying medicine, I had plenty of money in my own right, and was not obligéd to wait to make my fortune before 1 took a wlife, as most new-fledged doctors do.
Marcia was peculiarly situated. Her widowed mother had married a celebrated for-eigner-I never knew what he was celebrated for, by the way-and was not very anxious that he should know that she had a daughter of seventeen. Therefore, she did not summon her to Italy, where she still at Miss Gariand's nificence, but left was now little more than a boarder, "taking the extras."
The dear mama was good enough to write from the "palace," whence she dated her letters, that she was charmed with what she family. She also sent her "darling daughter" some lovely pearls, and as Miss Garland was delighted to have the wedding take place in her parlors, all was happily arranged. The chances that everything would run smoothly were very great, and but for a pair of chapped lips I presume I should have no stors whatever to write-nothing to look back upon which could make me sympathize with lovers in distress-lf
I was a privileged person at the "institute," and could call and ask for Miss Morse whenever I pleased, and I availed myself of the privilege very frequently.
One evening I ventured to ring the bell at the hour between daylight and darkness which preceded tea-time, and being shown into the parlor, was informed that Miss Morse was out, but would be in soou.
"Shall I light a lamp?" asked the maid. But I replied that I preferred the twilight, and drew near the window to watch for
Marcia's coming. As I did so a voice cried out. Iarcia's coming. As I did so a voice cried out:
"Oh, Mr. Roth, the other chair, please! I'm "Oh, Mr. Roth, the other ch
And when I had, with many apologles, taken the other chair, and was beginning to thank fortune that I had not made an awkwardly
"What frightful weather you do have North! Down in Texas, where I was raised, it is alwass "I
"I should say so," said I. "I suppose that is why girls who come from Texas are always so
charming."
"Do you think so?" cried Miss Patterson, with a giggle. "I thought you North gentle-
men just hated the South young ladies-don't men just hated the south young ladies-don't
you, really?"
I told her that we usually fell in love with
hem at first sight.
Sallie Patterson was a girl no man could help arting with, and she slapped me with a magthen I said:
What a lovely rose you have in your belt! and she allowed me to smell it ith Marcia; I was too deeply in love with her. But I was not expected to it lite a don

## key sallie. "A

Texas there are roses like that bloomiug ou of doors to-day. I declare, I dou't care to g silk floss won't stick to chapped; uaturanlly of a real lady, you kuow-but here they get like a washer-wolman's." "Don't believe it " ">atay I touch out "f them:"
I caught it.
"Why, it's like alahaster!" said I.
"No; they are just as rough-and, oh, in ps!" said she. "You ought to see them."
Satan was cortsiuly at nuy elbow. "Can't iu the dark," satid I. "I monst apply he test of touch.
I caught her about the waist as, I spoke, and Kissed her on the softest, plumpest lips you
can imagiuc. I thought myself challeuged to do it, and I still believe I was. But at this identical moment the iup who had led me into mischief deserted me, aud Sallie Patterson aud I suddenly stood in the center of a bril-
liant illuminatiou.
There was a street-lamp of double-cxtra
There was the door of Miss double-extra inary, and the wretched lamp-lighter had just turned it on full head aud touched it with his flambeau; aud at this ideutical moment Marcia-my Marcia-who had come iu at some side entrance, and being told of my presence, hastened to mect me, entered at the parlor door, followed by the august Miss Garland, Who bore in her hands a farorite student'
lamp. Sallie Patterson shriekéd and fled. lamp. Sallie Patterson shrieked and fled.
groaned. Marcia dropped upon the floor groaned. Marcia dropped upon the floor
dozen little parcels wrapped in tissue-pape dozen little parcels wrapped in tissue-paper
and threw hersclf upon a sofa, where she hi and threw hersclf upon a sofa, where she hid
her face in her hands; and poor Miss Garland, after standing for a monaent in the middle o the room, like a statue of some female Diog enes in search of an honest man, carried the lamp to the center-table and put it down, say ing in a bewildered fashion and with closed eyes, and head moving slowly from side to side "Oh, dear! oh, dear! oh, dear!" Then sh hind her and leaving us together
"Oh, Marcia!" said I, goiug dowu upon my "Don't speak to me!" said Marcia.
"But I want to explain," said I.
"I don't want any explanations," responded Marcia. "I never, never, never wish you to speak to me again; aud if you don't goat once I shall ring
the door."
"Marcia!"

## "arcia!" I moaned.

Marcia, "and adess me as Miss Morse," sai Garland to protect me." Nothing could move her. I was obliged t go away at last, and the next morning a not summoned me to an interview with Mis Garland She gave me my letters, my ring, and a mes could not survive esteem," and informed me that Miss Sallie Pattersou's parents had been requested to recall her to her home in Texas And I went away, inteuding to shoot myself. It is self-evident that I did not do so, but I wa most unhappy.
I must have been very romantic, for I neve in the sea as ever that there were as good fish myself robled of love forever, and after sun dry vain attempts to make my peace, I joined a party of friends who were about to make
the tour of Europe, and was absent from America three years. In all that time I neve forgot Marcia, or ceased to think myself the most wretched young man alive.
"doing" Europe carefully coming the from vesuvius, which we had left for a bonne

A large party made the ascent on the day we sought the spot. We took horses at Resina at looked like the moon a seen throngh a telescope.
There were our men, an English party o eight-four wives and four husbands, and an Amcrican party of tweuty from one hotel All the ladies wore rells, as well as some of the men. A crowd of guides and boys were
mixed among us. It was hard clim
It wast hard climbing up the cone, and when sink dowu and rest crater were glad to I found my place directly
Who sat very near the equator, and it occurred to me theu, as it has mauy a time since, tha fatigue are very apt to take great trouble and fatigue themselves very much in order to
reach some celehrated spot, where they sit dowu at once and discuss some personal mat ter that might as well have been talked over
iu their owru parlors. The lady nearest ne iu their own p
was doiug this.
"General stamper is ages older than I am," I was really proud of him on wesome day. And I'm to scud all our furniture down from New York when we get back, from the finest upholsterers. This is our wedding trip. I was so surprised to see you at the hotel." "I am glad you are happy,"
lads gently, and a little sadly.
"But aren't you ?" cried the first. "Oh, dear! Who was that handsome man with you at the
"My step-father," replied the second lady",
"Count Y-"."


Harvesting is hard work. It makes a man perspire, but when evening comes, after resting and cooling off, a tub of clear water and a cake of Ivory Soap will make him feel like new. The bath will open the skin pores, and fit him for a good night's sleep. Ivory Soap costs less than medicine and will do more to keep the man in good working order.

## THESE THREE EPITHETS <br> Best-Fitting <br> Best-Wearing Best-Looking <br> Showtrinit Half-Hose <br> They, or their equivalents, occur in nearly every testimonial. send for descriptive Shay Stocking Con, Lowell, Mass,

"And didn't you ever make up with your $/$ Beeman' amirer", went on the questioner. "Why,
don't say that. Did you think he was making

Beeman's Pepsin Gum. lose to me real for truc? Now, you needn't try
to get up. I will talk. He never, never had en words to say to me before that! I don't care what you think of me; I'll tell the truth. I led him on to try to kiss me. I didn't think he'd dare. Why, he never cared that for me! You've been dreadful to him, I say. Now,
The
The other woman was struggling to rise, thile the speaker held her by the skirts, and ell forward toward the crater.
Her companion gave a shriek.
just in timenion I caught her me to lead her to a safe place, while her friend was seized upon by an old gentleman with Thite mustache, and dragged away. The green veil was orer the face that rested in had no doubt whose waist my arm encircled, I had no doubt whose waist my arm encircled,
and I whispered in her ear: "Oh, Marcia! oh, my darling! I never for a momeut loved any one but you-forgive me and let all be as it used!
Did she? Oh, yes
and countess thought iu Italy. The count "charming," and our unhappy estrangemen soon seemed to both of us like a bad dream but when that girl said "chapped lips," it all
came back to me in a rush. Bless you, it all happened years ago. That court-plaster I was buying was for our little Fcray, Who managed naking a toy boat
nt sailing in.
My wife and Mrs. General stamper are the
My wife and Mrs. General Stamper are th
best of frie nds. We named the glly for her.
Mary Kyle Dallas, in New York Buar.
YOU DON'T HAVE TO SWEAR OFF using tobacco, if you will take No-TO-BAC
the wonderful, harmless, guaranteed tobacco abit cure; it costs but a trlfe, and the man who wants to quit will find in NO-TO-BAC permanent cure. Sold by druggists. Send fo
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(G) Wr dutw hold.

If, sitting with this little, rorn-out shoe And scarlet stocking lying on my knee, nuer the little feet had pateredthough and me,
I could be reconciled and happs, too and look with glad eyes toward the Jasper
, in the morning, when the song of bird Reminds me of a music far moresw
listen for his pretty, broken words
And for the music of his dimpled feet, could be almost happy, though I heard
could be glad if, when the day is done; And all its cares and heartaches laid away And, with a heart full of sweet yearning sar,
o-night 1 m nearer to $\mathrm{m} F$ little one
By just the travel of a single day.
If I could know those little feet were shod In sandals, wrought of light in better lands, And that the footprints of a tender God Ran side by side with his, in golden sands, could bow cheerfully and kiss the rod, Since Benny was in wiser, safer hands. If he were dead, I rould not sit to-day And stain with tears the wee sock ou my knee.
would not kiss the tiny shoe, and sar, Bring back again my little boy to me! would be patient, knowing 'trras God's way And wait to meet him o'er death's silent sea.
But oh! to know the feet. once pure and white, The haunts of vice have boldly ventured in Hight
Hare been wrung crimson in the clasp of
sin! night,
I fear ms boy could hardly enter in.
DRESS

THIS all-absorbing snbject never gives us a bit of rest. Until to know what we must have, cisions till late find every modiste so crowded as to make it impossible to get anything done.
A white wool suit made now will be serviceable until late fall. The pretty hows a pretty style, using black relret as trimmings.
The new jacket, with effective shoul ders, is made in velvet, lined on the shoul ders and revers with silk. This makes a rery lovely accessory to a plain, gray suit
making the silk linings pale pink or cherry scarlet, or the numerous shades of heliotrope
ash dresses the cross-orer bodice is


White Wool suit. only letting the ends come The summer outing costume of lawno grenaline, with a shoulder-care in accor-
dion-plaited white silk and a large gives a very summery iook to the fair wearcr.
Uuder hodices can be made of soft mus
thereby aroiding so many seams,
be drawu into shape with ribbons.
With the full skirts comes the necessity for a skirt to hold out thin dresses that cannot be made with crinoline. Jake a skirt of mohair and line the rufle in front with crinoline to the knees, and to the waist in the back.
These are best kept entirely for walkingdresses. All street apparel, to be kept in nice order should be changed for house dresses in the house, as sitting about in a good dress spoils it very much. Alpaca is also very nice for these skirts. After wearing the soft silk skirts, everyone is loth to go back to starched white ones, or stiff ones of any kind; but if the full dresses last, something of that kind must be worn

Worth predicts such an entire change from the present strles before Christmas as to make the present dresses seem quite out of style; so it will be best to make fe
dresses while everythiug is so fleeting. dresses while everythiug is so fleeting. L. L. C.

## FOR GOOD HOUSEKEEPERS

There are few things in which a good housekeeper takes snch real comfort and satisfaction as in a Tell-filled pantry. If, as she opens jar after jar in the winter, to add to a meal and make it more appetizing,
each is found to be rers good-neither caneach is found to be vers good-neither candied nor sour, jelly not too thin, but of the consistency that just "turns out" beauti-fully-we will forgive and sympathize with the honest pride that she feels in her ability to present well-prepared sweets to such good condition, howerer.
As the season is now beginning when jelly-making, canning and preserving must hare full attention, I venture to offer some personally-tried recipes, never found wauting.
Wey been the bery season. Never have uently better or more plens time, but freparatively few persons care for strawberry preserves. Canned they are not entirely satisfactory, and preserved they are "too weet." But to please all, I give a recipe or each. Be sure that no soft berry, with even a sight spot of decay, has escaped
your notice. Only the best fruit should be used for canning or preserving.
This recipe for canning is about the same as Mrs. Rorer gives in her cook-book. I had tried it before, and none could be better. Each glass jar, rubber and lid must be examined. If all right, lay the jar down on the shelf of the range, or where it will mantelshelf, putits rubber and lid. Measure the berries, after carefully picking and washing, and to each quart allow half a pound of granulated sugar. Use a por-
celain-lined kettle. Put in the fruit first and sprinkle the sugar orer it; let it stand an hour. If sou want them clear and firm, add powdered alum, quarter of a teaspoonful to each quart of fruit (I never use this, but pensable). Boil slowly over a moderate fire five miuutes, skim cleau. Have a hot, tin plate beside you on the side of the range; set the jar
on this, fill two thirds on this, fill two thirds
with fruit aud the remaining third with juice. Wipe quickly the edge of the jar until dry, slip on elastic and lid without delay and screw very tight. The Set the jars on the kitchen table to cool, aud keep in a cold, dark closet. Next morning closet. Next morning
try the lids; you may be able to give them one more turu.
This recipe for preserving strawberries is given in "Common Sense in the Household," \arion Harland's most excellent book of recipes: Weigh one pound of granulated sugar to each pound of frult. Put in your kettle over the fire until the sugar melts; boil twenty-five miuutes fast. Take out the fruit with a skiumer aud fill your cups or tumblers three quarters full. Boil the syrup five minutes longer, fill up the cups and seal While hot. Keep in a cool place that is dry

Blackberries mar be canned in the same manner, except that they require bnt one quarter of a pound of sugar to a pound or quart of the fruit
Last winter I used,my blackberries in making blackberry paste, or mush, as it is called. The recipe for this is: One quart of berries, add one teacupful of water and put on the fire to boil. Put in two tablespoonfuls of corn-starch, mixed very smooth and ladded slowly as soon as the berries boil. Some prefer it quite thin; if so, one tablespoonful of corn-starch will be

sufficient. Sweeten to taste. Put in a glass dish as soon as it cools a little. Serve quite cold. Eaten with cream, no sweet can be a more acceptable addition to a supper-table. Currant jelly is the good housekeeper's realth in the culinary department. A friend suddenly appears to dinner. You thought to do without dessert to-day. You
need not. In twenty minutes you may need not. In twenty minutes you may, which all will enjoy. To each person allow oue tablespoonful of jelly, one tablespoonful of powdered or graunlated sugar (the former is better) and the white of an egg. Put all in a deep bowl and with an eggbeater whisk the mixture until it is so stiff that you may hold the bowl upside down without the mixture falling out. Half fill your porridge-saucers with milk, float on it three small islands of the pink dessert, that
will be pronounced as good as it is pretty. With roast lamb or mutton a turned-out tumbler of this bright red jelly is an appetizing addition to the meat. For a sick person, if the physician approres, two tablespoonfuls of the jelly in a glass of cold Whater is a refreshing drink. Your ingenuity will snggest many uses for currant jelly. It seems to fit in anywhere. It is so unfailing too, and by this recipe it for rears. No heating of sugar, no under or over boiling. Follow these simple directious and you have beautifully clear, bright red jelly that turns out and stands up, and red jelly that turns out and stand
is not hard nor ropy in the least:
Good, ripe currants are neccessary. Pick out all the leares, but do not stem the currants. Wash them thoroughly and put in jour preserve-kettle, which should be porcelain. Do this before breakfast. Staud it back on the rauge where the berries will get hot, but not boil, covering the kettle. By the time breakfast is over the currants will have welled and many have burst. At once mash and strain through a flannel jellybag. Have cups and tumblers ready To each piut of juice weigh one pound f powdered sugar, but do uot add to he juice, for the latter must first be boiled just twenty minutes; then the ugar must be added with a wooden or ilver spoon and stirred until all is dis olved. Fill your glasses and set awa o cool. The next morning cut whit tissue-paper to fit the iuside of the glass, dip the paper in brandy and spread ove the jelly. Cut brown paper or letter paper-old letters will do-and paste tightly over the glasses. Keep in cool, dark closet.
To preserve cherries, use a pound of sugar to a pound of fruit. Las in rour kettle fruit, then sugar, and put in all the juice you have. Boil until the syrup begins to thicken; it is then reads to put up. We use self-sealing ready to put up. We use self-sealing
jars for our cherries. To can them, we jars for our cherries. To can them, we take half a pound of sugar to a pound of
fruit. The juice that flows out iu the fruit. The juice that flows out iu the
toning is mixed and boiled with the sugar, and well skimmed; then add the cherries and boil five minutes, and serve while at this heat.

Hope Holiday.

## SHOPPING.

All kinds of family shopping done satisfactorily. Specialties in infants' clothes, art materials and linens. Inclose stamps for reply. Christie Irviug, 120 Maple Ave Springfield, Ohio.

## MOTHERS' CLUBS.

Many women, and especially those on the farm, lead more or less isolated lives, and from force of habit and circumstances nat urally narrow down to the confimes of their own homes. This should not be, and one of the sources of development, both socially and mentally, is a mothers' club.
Shall Tre describe one?
On invitation of Mrs. Shields, a dozen ladies met one afternoon at her home. When all were assembled and greetings had been able to or ing permission to read an accouut of oue recently found in a paper.
After reading of paper and a little discussion, it was unanimously decided to organize such a club subject to their owu organize such a club subject to their our and secretary elected to hold office six and secretary elected to hold ofice six
months, and these, together with a committee of two more, to be the executiv committee.
They decided to hold meetings regularly every two weeks on Wednesday afternoon at the different homes. The first half hour to be devoted to the discussion of curreut events, to keep them in touch with the outside morld. This tras to be followed by an hour's discussion of some important subject-although the time could be extended by a rote of those present. A topic Was chosen and leader appointed by the execntise committee at each meeting, for the following meeting. Also the leader for current erents, so that each leader had two זreeks to prepare herself in.
The leader was expected to have a short paper, though some choose an informal talk, it being easier, bringing out the main points of the subject, to be followed by a discussion in Which all took part.
As each member took up the work en thusiastically, really hoping to derive benefit herself and help the others, the meetings were from the first very interest ing, aud soon the young ladies asked per mission to join, and were gladly accepted So popular did the club become that when winter came and the hnsbands and brothers had more leisure, they, too, asked to join.
The subjects taken up then became more general, but still were all along the line of home life or intimately connected with it. With the coming of the second summer the meetings were again giren over to the ladies, Who decided to discuss purely wom anly, chiefly wifels and motherly, themes These proved valuable to all, and especially to the younger members of the club.
When winter came the men were again welcomed, and the meetings proved eren more interesting than formerly, and more than one yonng man and monan becamo

better litted for fatherhood and mothernood because of these meetiugs, which f $f$ r augh we know are still being contivi. d.
Among the niany quest:uns discussed, as shown by the serw. tary records, were. "Home Fiemedie cad symptoms of Disease of Chiirliood," "Ventilation and Sanitary Cnislitions of Our Homes," "Literature for Children." "Care of Infants," iting Schools," "Parents' Relation and

Duty to the School and the Teacher," "Food," "Water," "Houie Amusements," "Heredity," "Prenatal Culture," "How to Reach Careless and Uninterested Mothers," "How to Counteract the Inflnence of Poor Home Training," Mother's Duties towards Family and Society," "Father's Influence aud Duty," "Father's Obligation in the Home," "Recreation for Children and the Whole Family," "Card Playing, Dancing, Roller Skating and Kiadred Anusements."

A discussisn on the question, "Aro the fathers in this age of rush and work cloing thoir full share and fulfilling their dutios to family and home? 'Or are they not, unconsciously perhaps, but by habit and custom allowing responsibilities which properly belong to them to fall upon the shonlders of wife and mother?" continued for three snccessive meetings with unabated interest, and the facts arrayed and truths brought home, fonud lasting lodgment in the minds of every member; which was proved by the changed and happier relations in many homos.

Clara Sensibaugh Everts.
WISDOM VERSUS WOMAN; OR, THE WISE
WOMAN ON THE FARM. WOMAN ON THE FARM.

Part II.
"You are so wise, Maria! You aro such a wise woman! No one would suspect you of being so wise!" smiled Mrs. McAllister sarcastically. She could not endure to hear Joe's farming gainsaid. Joe never had nade mnch monoy; but he made her a good living, and she had strong faith in that propitious season for his wheat that was to frnctify and ripen into a glorious harvest, when his fortune wonld be mado and her inconie no longer price of hogs and honey.
"Let ns sell ont," said Joe, mauy a bndding springtime; but when the autumn breezes blew, he turned over his stubble land and put back into the ground all his year's grain, and-waited.
said to Maria, "and knows so tauntingly said to Maria, "and know so much abont hay-field and run the hay-rake, and show hay-field and run the hay-rak
me how it ought to be done?"
Maria consented with alacrity; nothing


## Sumimer Outing Dress.

 would glve her more ploasure. She flannted into her hat and ont into the field before Mrs. McAllister could find words to object Jerry, the long-eared donkey, patientlywaiting in the shade, was slow but steady, though a little hard to start. Joc mounted Maria on the rake, then giving her the reins left her while he took the men into another part of the field.
"Drivo up," he called, as he saw her vainly tngging at the reins.
"Hi, hi, there! Go on! What's the mat-
ter with you?" said Maria to hor steed. "That she thinks she's driving?" grinned Sandy, one of the men.
"Hi, hi, thcro! You'ro a nice-looking, long-eared boast! Cau't you move any-
thing bnt your cars?" "hing bnt your cars?
"Hit him with the relus," called Joe.
Maria leaned forward aud gave hin a vicious whack with tho end of the reins on his fat haunches. Commotion followed in
the harness. Maria seemed to be flyiug in the harness. Maria seemed to be flyiug in
the frantic circling sweep of the arms. Tho the frantic circling sweep of the arms. The
right wheel completely lost its orblt; and down came over iron finger with a crash on a pilo of stones concealed in the woeds. The men halloed "whoa," and ran hurriedly to her assistance. Arrs. McAllister heard tho cry, saw from her window the excitement, and terrified, ran to within
spealking distance. Tisions of Joe gettiug killed haunted her daily
"Oh! is any one hurt?" she called tearfully.
"Who," said Joe; "I wish they were."
"What is the matter?"
"I have brokon my rake."
"Oh! is that all? I an glad it wasu't yonr leg."
"I wish it were Maria's leg! I wish somebody had kicked me when I was fool enough to put her on the rako! Wish I may be kicked if ever Idoit again! I don't want any woman helping me."
Joe was too angry at himself to hear Maria's apology, and she meekly followed Mrs. Mcallister back into the honse.
"Do keep away from the men," chided Mrs. McAllister. warmly. "Yon are like a hare shot through the head, when you try to be so very smart."
Was it this luckless speech that stirred Maria's gall? Mrs. McAllister was enjoying her first good afternoon sleep since Maria's appearance on the farm, when Joe's
voico came sharply, impatiently at the voico cal
window.
"Mother, mother, if you don't come and take this latter-day saint out of my barnyard, I'll break her neck!"
"Oh, Joe, don't speak so!" exclaimed his nother in alarm.
"I'll break her neck, I say! I am that "gry I'll break her neck!", "W

## "What is she doing now?"

"Why, she is out here argning with the inen-blowing off on the eight honr system, and the devil knows what. I can't get the men to work; and I want yon to take her ont of my barn-yard."
Mrs. McAllister hurridly pinned np her garments and followed Joe. Joe's men were an important appendage to the farm; no ue shonld tonch Joe's men. At her call Maria came, smiling
"Don't you talk to the men," said Mrs. MceAllister, as soon as she conld speak.
"I am old enough to talk to the men, I shonld think, if I want to."
"Don't you talk to Joe's men. He won't lave it, and I won't have Joe annoyed. It is a pity yon can't be quiet."
Mrs. Mcallister again trotted her into the house, and seated her in her rocker with an emphasis that was meant to keep her there the rest of her visit.
How restless Maria was! How tireless in her efforts to make herself nseful! There was not a loose board on the garden fence that she had not noted and vainly feuce that she had not noted and vainly
tinkered. She sighed over the historic thistles, blooming unmolested in the pasthistles, blooming unmolested in the pas-
ture; she grieved over the fallow-gronnd in the corners, where blackberries should now be ripening in the sun. There was not a cranky gate haulting on one hinge, or a creaking door grating on two, that she had not belabored in ffuitless efforts to reform. If Mrs. Mcallister endeavored to sweep, there was Maria, where the dust flew thickest, so deeply interested in the recital of some experience that the stayed broom was no suggestion that her presence might be unwelcome. She chatted at her elbow as she followed her abont the honse, to the confusion of her memory, and the useful suggestions how this or that should be done, but causing Mrs. McAllister niany useless steps to elrcumnarigate her and a aroid an ineritable collision.
"Do yon cool your milk so?" she said in surprise, as she saw the flowing milkbucket standing in the water." "Why, at
the creannery they let it cool slowly, and then, in air-tight cans, put it in lce-water."
"Bnt if you haven't any ice?"
"Oh, I don't see how yon live without
ice! A nineteenth ice! A nineteenth century farm onght to produce both ice and gas to keep np with the times.'
Yet how exnltingly happy was Maria in
ll these varied pursuits. all these varied pursuits. Happlness
danced in crery crinkled curl; it fluttered danced in crery crinkled curl; it fluttered
in her petticoats, as she tripped from tree in her peticoats, as she tripped from tree
to troe, from field to field. One little farm grew too small for her light-hearted gloe. grew too small for her light-hearted gloe.
"I aun going to take a ramblo," she said, "I an going to take a ramblo," she said,
siniling radiantly upon Mrs. McAllister. "Don't say you can't sleep this afternoon." She stood equipped at the door, at high noou, a big sun-hat on awry, a cotton unbrella, aud a 'package of papers under her arm. She scofted at being too warm when such a breeze was blowing; she smiled at being afraid of cows in the pasture-lot. Oll she started, and a Sab bath stillness reigned uver the houso.
How healthful was overything!

ast rays; a white shirt-front is secn on the hill; a deep voice is heard calling: "Sook-y!" Every head is up in auinstant; very tail falls motionles
"Sook-y!" comes again. There is a move-"Sook-y!" And onward they rush, in oue wild, tumultious gallop. The dust flies heavenward as Maria crawls earthward and slowly wanders toward home. Tattered and weary sho sinks into her rocker, and finally sighs: "I have had an adventure.
This closed her week's visit. On the morrow she was wild to attend a wonlau's meeting, held in the city. Dust and heat wonld not deter, dificulties in no way allayed her zeal, and as the horse was in use in the lay-field, she started ofl on foot.
"Oh "Oh, Joe, I am mortificd to death to havo ner-time.
"Is sho gone? Did slo walk? Why, it is hot enough to melt the grease out of hor whaleboues," cried Joe, with a smile. "Yes," again sighed his mother, "I could not keep her."
"I an glad of it, mother," said Joe, making very long gestures with a very broad is, I would work it out of him, or he would die in the harness.,
"Now, Joe, that's enongh," said Mrs. MceAllister with another sigh and her right hand upheld protectingly before her friend's retreating footstcps.
"I tell yon, mothe:, if I had a cow as restless as she is, I-I wonld nail her up to the barn-door, if I had to go to Jerusalem for the nails."
"Now, Joe, I say that's enough."
"There are some things, mother, that won't thrive on a farm; and I guess too much learning is one of them. And I tell you, an idle woman, that thinks she knows everythiug, is just dangerons. Don't yon bring Maria here any more. Let her stay in towu, where she can have plenty of ice and gas, and where she can cultivate her finger-nails and keep up with the times. We don't need her out here."
"Joe; I say, Joe, that's enough."
Adaline Reed.
the farmer and the newspaper man.
Many men think that newspaper men are persistent dunners. By the way of comparison, let us suppose a farmer raises one thonsand bushels of wheat a year, and sells this to one thonsand persons in all parts of the conntry, a great portion of them saying, "I will hand yon a dollar in a short time." The farmer does not want to be small, and says all right. Soon the ono thonsand bushels are gone, but he has nothing to show for it, aud he then realizes that he has fooled away his whole crop, and its̊ value is due to him in a thousand little driblets, consequently he is seriously embarrassod in his business, becanse his debtors, each owing hin one dollar, treat it as a sniall matter and think it would uot help mnch. Continne this kind of bnsiness year in and year out as the pnblisher

does, how long wonld ho stand it? A momont's thought will convince any one that a publisher has causo for persistent dunning.-National Labor Trilnene.

I Cure Dyspepsir, Constipation
and Chronte Nervous diseases. Dr. Shoop's
Restorative, the great Terve Tonic, by
newly
newly diconvered newly discovered principle, also cures stom-
ach. 110 arer and kloney discases, through the
and


## (G) ut fitmondiotid.

## AS WE GROW OLD.

As we grow old our yesterdays Seem very dim and distant; We grope as those in darkened ways Through all that is existent; Yet far-off days shine bright and clear With suns that long have faded, And faces dead seems strangely near To those that life has shaded As we grow old our tears are few,
For friends most lately taken, But fall-as falls the summer dew From roses lightly shakenWhen some chance word or idle strain, The cords of memory sweeping, Unlock the flood-gates of our pain For those who taught us weeping. As we grow old our smiles are rare For those who greet us daily, Or, if some living faces wear
The looks that beamed so gail From eyes long closed-and we should smile In answer to their wooing, Tis but the past that shines the while Our power to smile reneming.
As wrow old our dreams at night Are never of the morrow;
They come with vanished ple
Or dark with olden sorrow;
And when we wake the names we say Are not of any mortals
But of those in some long dead day,
Passed through life's sunset portals.

## W

HOME TOPICS shing.-The hardest work to be done in the house is the weekly ing, and in many homes, much as it is to be regretted, there seems no way but for the mistress of the house to take this heary task on her already overloaded shoulders. To begin at the begining, a clothes-hamper, with a eover, set in the wash-room or wood-shed, aud in this should be put all the soiled clothing, towels ete., taken from the rooms every day. No soiled articles should be kept in the bedroom closets, as unwholesome odors will accrue and the air of the room be vitiated. All pieces that are damp must be dried before putting them in the hamper or there will be danger of mildew. I have seen a barrel with a cover recommended as a receptacle for soiled clothing, but a basket hamper is best, as it permits a circulation of air. If a barrel is used, let the small boy have a gimlet and anuuse himself by boring it full of holes.
If one must do the washing in addition to the other housework, it is best to make Tuesday the wash-day. Monday the house can be put in order and arrangements made for easily-prepared meals. Then Ionday night sort the clothes into two grades, the finer and cleaner in one and the coarser and dirtier in the other. Put these to soak in tepid water in separate tubs, soaping all dirty spots and streaks. In the morning put the ringer on the tub of fine clothes and ring them out, put them in the boiler in cold water in which you have put a tablespooonful of coal-oil or gasolene to each gallon of water, soaping the soiled places again. Let these boil about five minutes, and in the meantime wring out the clothes from the other tub.


Take the first clothes from the boiler and put into clean, warm water and put the thers to boil in the same way as the first. The clothes will need but very little rubbing, many of them none, but after being wrung from the tub the second time, nust be well rinsed and then passed, piece water is letter than soft for the bluingwater, and the clothes must not lie in this water or they will bocome streaked with
the blue. As fast as a piece is immersed wring it out.
To make starch, take the quantity needed for the washing, wet it with cold water, and then pour in boiling water, stirring constantly, until the starch thickens and looks clear, then set it on the stove and let it boil five minntes. Put in a half teaspoouful of coal-oil to a quart of starch, take out enongh of the thick starch for shirts, eollars and euffis, and thin the remainder for dresses, skirts, aprons, etc. The starch should be used as hot as the hands cau bear and well rubbed into collars, cuffs and shirt-bosoms. If this is done and when dry they are dampened, by dipping them into a thin, raw starch, and rolled tightly for an hour, they will iron nicely. A convenient way to hang up collars and

Perhaps there is nothing in all human intercourse that indicates so sensitively as a letter, whether refinement is, put on as a thin veneer on the outside, or whether comes from the very being of the writer.
A lack of refincment and education are most noticeably indicated.
By using perfumed, colored or fancy paper and conspicuous monograms
By using fancy colored inks.
By using soiled or crumpled paper, or
half sheets, or paper that does not fit the
By writing down one page and up anothe which gives your correspondent the impression that you squint with both eyes. By writing a feeble, timid hand, with pale ink and a scratchy pen.
By using large capitals, pretentiou

cuffs is to take a piece or stout muslin and double it so it will be about six inches wide and as long as required. Sew buttons on one long edge about an inch apart. The cuffs and collars can be buttoned to this as fast as they are starched, and then to hang them on the line, pin the other edge of the strip to the line.
Another wash-day convenienee is a clothes-pin apron. I described this a few years ago, but will give it again. Take a yard and a quarter of denim or ticking. Cut a strip off the side for the belt and then double the piece, round off the lower corners, slope the sides and cut out a piece ners, slope the sides and one half, as in the illusfrom each side of oue half, as then these places, then lay this piece on the other aud bind the two together, hollow it out a little at the top to make it fit the waist and put on the band with a button and buttonhole to fasten it. This makes an apron-shaped loag with an opening into it on cither side, and is the handiest kind of a bag for clothes-pins.
I hone the time will soon come when the laundry-work will be taken out of the home, as the spinning, weaving, cheesemaking and, to some extent, butter-making have been. When a laundry is established in every neighborhood, a heavy burden will be lifted from mans a toil-worn woman. Maida McL.

## betrayed in writing letters

A cultured gentleinan, speaking one day of a lady whose society manners appeared courteous enough, said: "But when I received a letter from her, addressing me as "Esteemed Friend," that was all I wanted to know of her education."
"How often," said a lady distinguished for her social position, "do people write their own deatl warrants in their letters!" And they never know it-there is the pity.
Howells, in one of lis stories, gives a pathetic little incident of a young girl writing for the first time to her lover.

Ford received Egeria's letters the next morning. He examined its outside, as people do that of letters coming to them in a strange handwriting, and be bestowed a derisive curiosity upon the person who could choose that outlandish shape for a missive."
flourishes, and spreading a small quantity of affection over the page with a great deal of ink.
By using abbreviations, such as $\mathcal{\&}$, etc, "dr" for dear, and "aff" for affectionately "Resp" for respectfully is about as re spectful as slamming a door in one's face and "yours ete." is even worse.
By writing slovenly sentences and leav ing off the subject, as, "Received your let ter. Will answer soon." It would be courteous to say, "I have received your letter and will answer it soon."
By using slang words
By folding the sheet awry. Untidines in any form in a letter is intolerable.
By writing personal affairs on a postal ard.
By losing one's temper.
By writing in a florid, ornamental style, which is as much out of place in a letter a a sermou would be in a morning call.
By writing to a stranger for advice or in formation and neglecting to inclose a stamp for reply.
By sticking the stamp to the sheet instead of lcaving it loose, or putting it neatly through a slit in the paper.
By directing the envelope upside down.
By placing the address very high or very ow, or squeezing it in one corner.
By putting the stamp on cornerwise or npside down, or in any way except in the upper right-hand corner, with an even margin all aronud it."

Frances Bennett Callatify.

## LITTLE ACCESSORIES.

Evening Bag.-This useful article can be made of plush, velveteen or chamois, lined with silk. It is very convenient to carry a fan, gloves, slippers and a few toilet necessitics, when going out for the evening. It should always contain bottle of smelling-salts for emergencies. Tonler-box Pincushion.-This can b very easily made either from a pasteboard box or one of the pretty willow baskets that contain tca. Any adornment can be put upon them-a band of ribbon with jnst enough cotton batting on it to receive pins, or the whole top can be padded to be used as a pincushion. The box is good as a receptacle for the numberless little things one needs about a toilet.

Night-dress Sachet.-This receptacle for holding the night-dress is made of linen lined with quilted satin, and any prefer erable sachet-powder is used; when arranged it is put right in front of the pillows.
Marie Antoinette Work-table-Any one the least handy with tools can fashion this quaint little table. It should stand two feet and a half from the floor, and be foot and a half wide. The receptacles are lined with canvas embroidered in eross stitch, though the adorning can be to suit the room it is to oceupy. Shirred silk and fringe would trim it nicely, or a severely plain linen trimming which could be taken off and washed when soiled, is very desirable.
These pretty things about the houseshow up the housekeeper. A house without these little accessories is a very plain place.
L. L. C.

## SOMETHING SPICY.

Does the thrifty housekeeper, when she takes down her spiee-boxes from the kitchen cupboard to grate a sprinkling of nutmeg into the apple pie, scatter a pinch of clove or allspice through the custard or pulding she is preparing; some ginger into the delicious soft gingerbread, o ground cinuamon over the "brown Betty," always know where these aromatie ingre dients come from?
A knowledge of the little things which we make use of in our daily lives often widens the horizon of our thoughts and enlarges the scope of existence for our minds.
I believe it is George William Curtis, in his little book, "Prue and I," who tells how he used to go down to the wharves where the merchantmen were lying, and placing his hand on the tarred ropes, summon up the vision of foreign ports from which they came; be eharmed with their beauties and inluale the scent of their spices. But the little nest of japanned boxes eontaining the spices themselves discounts the touch of the tarred ropes ten to one. I remember, wheu I was a hittle ehild, I went to chureh with a dear old lady who used to carry tied up in one corner of her immaculate linen pocket-handkerchief, quite a number of cloves. As children were ex pected in those days to attend both mornpected in those days to attend both morn
ing and afternoon services, my sisters and I often grew restless in the midst of the I often grew restless in the midst of the
meeting. To allay this restlessness on our meeting. To allay this restlessness on our part, the knot in the handkerehief eorner
was uutied by the old lady, and with an was uutied by the old lady, and with an
air of solemn secrecy a few eloves were air of solemn secrecy a few eloves were
handed to the one sitting next to her. Thes handed to the one sitting next toher. Thes
were passed on with the same air from were passed on with the same reached the offender, who, it was expected, would receive them as a reproof for her misbehavior and a bribe not to do so any more. She then sat back and nibbled at them and behaved herself, if she had any conscience whatever. For many years eloves had for me an odor of sanctity, in addition to their own peculiar oriental fragrance.
The clove-tree is an evergreen which grows in the Moluccas, or Spice islands lying in the East Indian archipelago, east of India and south of further India and China. The principal islands of this arch ipelago, which iucludes a great number are the Moluccas, the Philippines, and Jara, Sumatra and Borneo. The clove-tree is likewise a native of Java and China.
Its botanical name is Caryophyllus aromat icus. It grows to about the size of an ordinary cherry-tree, from fifteen to thirty feet in height, and begins to bear fruit between the ages of seven and ten years, It is possessed of considerable longevity, and sometimes lives to be from one hundred to one hundred and thirty years old although serenty-five years is the arerage


Novelty Pincushion
It has a large elliptical leaf; that is, oblong with rounded ends. Its flowers, which have a purplish tint, grow on short stalk in those clnsters the botanist calls corymb. It is very gencrally known that the clove is an unopened flower-bud. Did you eve notice the resemblance of this spice, with its long body and small, round head, to little nail? From this resemblance is
derived its name, either from the Latin derived its name, either from the french clou. Both of- these
clane
sources are given. Both words mean nail also the Spanish clavo and Italian chiovo.
The point and body of the nail is formed by the long floral calyx. The head, if you will take pains to dissect it, you will find composed of closed dried petals.
The clove is first of a greenish color. As it grows it becomes palo yellow; when It is only after it has been dried that it assumes the dark color, almost black, with which we are familiar.
A few trees have had the record of the almost miraculous yield of 1,100 pounds in one year. This, however, is quite phenomenal, the average production beiug 5
pounds, and 238 pounds to an acre of pounds, and 238 pounds to an acre of
these trees being about what is usually these trees being about what is asualy
expected. Every part of this troe is aromatic owing to the presence of a volatile oil, but the clove itself-the fruit-more essen-
tially so. tially so.
The nutmeg, which has a wider geographical distribution than the clove, also grows in the Spice islands. It attains a greater height than its neighbor, often reachiug to a stature of fifty feet, although sometimes not more than twenty or twenty-ilive feet.
The two trees somewhat resemble eacli other, and the term of their tenure on life is about the same
The botanical name of the nutmeg is Myristica moschata. From ten to twelve pounds of nutmegs and mace are produced by each tree yearly; but as the trees are
planted further apart, the average yield of planted further apart, the average yield of
the acre is less. The nutmegs, while growthe acre is less. The nutmegs, while
ing, remind one strongly of peaches. ing, remind one strongly of pace is the seed of
The nutmeg we use asspice the fruit which, in growing, resembles a peach. The substance known as mace is a covering called an aril, which adheres very closely to this seed. The outer fruit, which has a groove running down one side,
bursts at the proper time and exposes the mace and inclosed nutmeg. When the mace is dry it can be readily removed. Its taste is similar to the seed it contains, only stronger and more pungent.
Medicinally the nutmeg is esteemed as a stimulant for the stomach, and is a preventive of flatulency. It should not, however, be experimented with by those ignorant of its properties, as in large doses it has narcotic peculiarities, and may even produce coma.
The cinuamon-tree, which grows in the island of Ceylon, south of India, belongs called because Daphue, when too closely pursued by the amorous Apollo, was changed into a laurel.
The cinnamon-tree is the Laurus cinnamomum, and it is the thin inner bark of the tree which is used for spice. The cinnamon-
tree, however, has a first cousin, the cassia, tree, however, has a first cousin, the cassia,
whose thicker, more woody and less whose thicker, more wed "middleman," delicate bark, the wicked "midaleman, who stands between ceylon and
wife, often substitutes in its place. Because it is cheaper he takes it upon himself to "mix those babies up.
Eugenia pimenta, which is cultivated in the West Indies and Jamaica, is planted in rows called "pimento walks." We have all seen the allspice, or pimento berry, times without number. It is small and black in color. It takes its uame from the fancy originating in somebody's minc

an herbaceous pcrenuial. It does not at tain a great height; its leaves are long and poiuted, and it preseuts large spikes o beautiful blossoms. The creeping-stem, or
root stock, grows beneath the surface of root stock
the soil.
Ginger, as a remedy for various and sundry of those ills which flesh is heir to, is too weli known to need further exploitation from us.

Minnie W. Batnes-Mitller. ROSE PESTS.
Mr. Editor:-Last year our rose-bushes were very much tronbled with the rosebeetle, or bug, and also with the rose-worm. Please give a remedy.

Edward J. VanMarter.
Mercer county, New Jersey.
Answer:-Make a strong suds of homemade soap and water, and to each gallon of the material add a tablespoonful of ker-osene-oil, mixing it thoroughly. Apply to the infested plants by means of a good syringe or force-pump. Use this material twice a week, and during tho iutervals syringe daily with cold water. This treatment will rid the foliage of the "roseworms," or "slugs," which are the larvo of an insect, and also of leaf-hopper and aphis. The beetles which eat the flowers can only be eradicated by sprinkling the buds and flowers with Paris green or other buds and flowers with Paris green or other
poisonous materials, in the manner in poisonous materials, in the manner in
which the farmer treats his potato-viues to kill the potato-beetle.

SUGGESTIONS FOR PICKLES AND PRESERVES. To prevent preserves from sugaring, add a little tartaric acid when cooked.
Preserves need only tying up with several thicknesses of paper, over which put a cloth, but should be looked over occasionally, and if sigus of fermentation appear just heating them again will correct it. Stone
these.
We would recommend all young house-
We. keepers in buying their jars, etc., for canuing fruits, to get nothing but glass or tone ware. Everything is better put up in these, as the acids in so many fruits acting upon tin are apt to make them very unwholesome if not positively injurious. Tomatoes, peaches and other canued fruits may then be wrapped with paper to keep the light from them.
In gettiug vinegar for pickles, always try to get cider vinegar, as the other kinds frequently eat up the pickles entirely or cause them to turn soft. Too strong vinegar should be partly diluted with water. All pickles should be tightly sealed, to prevent air reaching the vinegar, as this kills it. It should always be poured on hot as it comes to the first scald-never allowing it to boil.
Never put up pickles in anything that has held any kind of grease, and never let them freeze.
If pickles are put up in brine, it should Iways be strong enough to bear an egg. Usc coarse salt, in proportion of a heaping pint of salt to a gallon of water.
The nicest way to put up pickles is to put them in bottles and seal while hot.
To Clarify Pickles.-The scum which rises on the top of pickles can be remedied by putting a slice or two of horse-radish in the jar, which soon sinks to the bottom,
taking all the scum with it, vinegar clear.
How to Keep Pickles from Gettina Sort. To one barrel of pickles, when in brine, add one half bushel of grape leaves.
This will keep This will keep
them sound and them sound and
tirm.
TO SEAL UP TO SEAL UP
CANS OR JARS.Sans or Jars.thoroughly, pour into the cans;
have ready three
that it is an "all-around" spice, uniting in one the separate flavors or cinnamon, cloves and nutmeg.
Ginger (the leaving out of which always makes the pumpkin pie and the gingerbread more palatable, and the addition of which, figuratively speaking, is an im-
provement to the human compound) is found in both the East and West Indies, and in Africa and China. It is produced from the rhizome, or creeping-stem, of the Zingiber, or Zingiber officinale. Ginger is
without breaking it, and it must be taken out of the water to finish filling it. Care must be taken not to fill the hot fruit higher than the water on the outside of the jar before removiug it, or it will be sure to
break. This will answer for filling jelly break. This will answer for filling jellyglasses also.
List of Frutt in Preserves.-
$\left.\begin{array}{l}71 / 2 \mathrm{lbs} \text {. of cherries, } \\ 71 / 2 \mathrm{lbs} \text { of sugar; }\end{array}\right\} 1$ gallon of preserves 14 lbs. of blackbe 14 llbs . of sugar, $\qquad$ 5 quarts of jam. Six quarts of $\qquad$ and one half pints of juice, which, with five and one half pounds of sugar, make nine tu lers of jelly. Two quarts stemmed
rants make rants make two
pints of juice pints of juice, two pounds of
sugar, makethere tumblers of jelly
Piccalillet.2 dozen large cucumbers, chop ped
quarts smal onions, whole 1 peck green to-

## ped,



1 dozen green peppers, chopped,
1 head cabbage, chopped.
Sprinkle one pint of salt over this, and let it stand over night, then squeeze out very dry. Put, in a kettle

1 gallon of rinegar,
1 pint of brown sugar,
/4 pound box of Coleman's mustard,
$1 / 2$ ounce of turmeric-powder,
ounce of cinnamon,
tablespoonful each of allspice, mace celery seed and a little horse-radish Cook the mess slowly two hours, then add two hundred small pickles, just as it is to come off the stove. Add the mustard last, as this thickens it aud it is apt to
burn.
Bottled Prckles.-Pour boiling water over them and let stand four hours; to very gallon of vinegar take

1 teacupful of sugar,
teacupful of salt,
1 teaspoonful of pulverized alum, 1 ounce of cinnamon bark,
$1 / 4$ of an ounce of whole cloves.
Boil spice and vinegar and pour over the pickles; seal while hot.
Cucumber Pickles.-One hundred green cucumbers about two inches long will fill four glass quart jars. Soak tweuty-four hours in rather strong brine. Then pour this number of cucumbers use

3 quarts of pure cider vinegar
1 cupful of sugar,
ounce of whole cloves,
1 ounce of stick cinnamon,
1 ounce of small, black peppers,
A little horse-radish, sliced, and A few small red peppers.
Scald the cucumbers in the vinegar. As soon as the vinegar is scalding hot, dip then out, fill the cans, and then pour the
vinegar over them till the can is full. Seal hot.

Spleen Cherries.
9 pounds of fruit,
4 pounds of sugar,
1 pint of cider vinegar,
$1 / 2$ ounce of cinnamou bark,
$1 / 2$ ounce of whole cloves.
Let the syrup come to a boil before putting in the fruit; cook the fruit until the skins break; theu take out the fruit and boil the syrup dowu until thick; pour overfruit hot.
Currant Jelly.-Wash and strip the currants from the stems, and put them in a prescrving-kettle; mash them as they get hot and let them boil half an hour; then turn them into a coarse hair sieve or jellybag, and let them drip. Wheu through and pour into the kettle to cook. After it has boiled about ten ninutes put iu the heated sugar, allowing a pound of sugar to a lint of jelly, and the jelly will sct as soou
as the sugar is dissolved-about threo quarters of an hour. Rhubakb and Apple Jelly.--Cut up
your rhubarb and wash it; put on the fire without auy water at all. Take good, sour apples and pare and quarter, and cook in a
very little water. Strain the juice from both, and put them on the stove to cook
for fifteen minutes. Then add the heatcd sugar, threc fourths as much sugar as juice. Boil hard for tweuty minutes; turn into
glasses and set in the sun, if possible, for glasses and set in the sun, if possible, for
half a day. Seal the next day. Pineapple Presfryes.-Pare and slice
the apples; then weigh them, and to every pound of fruit use a pound of sugar; put a layer of the slices in a jar and cover them
with a layer of sugar; aud thus proceed mntil the apples and sugar are used up; let apples out of the syrup, cook the syrup till it thickens, replace the apples and boil
tifteen minutes; take the apples out of the fifteen minutes; take the apples out of the
syrup and let them cool; then put them in syrup and let them cool; then put them in
the jars and pour the syrup over them. A
few pieces of ginger root boiled in thesyiup will improve it.
with a thick rind; cutinanyshape desired. lay themin strong salt-water for two or three days, then soak them in clear water for frequently; then put them in alum-water for an hour' to harden them; to every pouud of fruit use a pound of sugar; make a syrup of the sugar and a few small pieces of take out the lemon and root after the syrup has been boiled, and add the watermelon; it and put it in the jars, pouring the syrup it and it.

## CANNING GREEN SWEET CORN.

I will give my recipe for canning green would like to know it. Go into the garden and pick as much corn as you wish to can at one time; husk and silk itas for cooking,
then cut it off the cob and weigh it, and to
 Put it over the fire and put enough water
in to cover it and boil fifteen or twenty minutes, stirring it pretty thoroughly, so and it will keep. Be sure that the acid as well as the corn is resh. When you wish to use
a can of corn, open it and put it in the
frying-pan; salt and pepper to taste, and a can of corn, open
frying-pan; salt and pepper to taste, and
add a little soda to take avay the sour taste add a little soda to take away the sour taste
of the acid. In every other way, except
the soda, prepare it as though it was just the soda, prepare it as though it was just
freshly cut from the cob, and you will have a dish far superior to dried coru. E. W. H.

## Tokongy BY ALIGE B. STOCKHAM, M. OVER 25 SEASS PRACTIE:

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## (Gur Simday gitternoon.

Wait for the morning-it will come indeed, As surely as the night has siven need; The searning eyes at last will strain their No more unanswered hy the morning light;
No longer will they rainly strive through tears To piere the darkness of thy do outst and fears,
Bot, hathed in hanlus derws and rass of dawn, But, hathed in halmy dews and rass of dawn,
Will smile with rapture o'er the darkness gone. Wait for the morning, o thou smitten child,
Scorning, scourged, persecuted and reviled, Scorning, scourged, persecuted and revilea, dense
Infinity of $g$
Wait thou fo of gloom to lead thee thence-
for moorning-it will come, indeed,
as the night hath given need.
-James Whitcomb Riley.

## the landing of the pilgrims.

THE corner-stone of the mon-
ument of Jew England's greatness is the landing of the
pilgrim fathers. We could
nerer see the reason of this. never see the reason of this.
It would hare been a great deal more heroic of them if thes had not landed. After a long and unpleasant
sea royage people are generally anxious to sea royage people are generally anxious to
get on shore. The shore was there for the pilgrim fathers. There was plenty of it,
such as it was. If it didn't suit them, that such as it was. If it didn't suit them, that
was their fault, not theshore's. They went there of their own accord. Thes might just as well hare sailed down to New Am-
sterdam aud landed there, in a good harbor. Had they done so they could hare grown
up among a good, solid people, under libup amovg a good, solid people, under librespectability. But that did not suit them.
Thes wanted to make life generally unpleasant; they wanted to burn witches and themselves, and of course, they had to take
up with the meanest part of the country. heroism of the pilgrim fathers. They act of landing. Of conrse they landec. got to the other side of the river?
Now if you want real heroism, go down
to Castle Garden auy steamer day and look to Castle Garden aus steamer day and look
at the hardy son of toil, who has been crowded out of the dense population of the
effete monarchies of Europe, and has come with her arms full of twins and seren in-
fauts who can walk, and a mattress and an old grandmother, and a tin plate, and a jug has only to pick up a cobblestone out of gold mine. There's where your heroism No, that's so; but there is an able-bodied boarding-house beeper who wants to lure
him into a palace of bliss and assay his gripsack. Now Mr B. Biglin gently insinuates himself into his confidence, and wants
serentr-five cents to take his trunk three blocks up to Schmitzenheimer's Cosmopol-
itan hotel. Then there is the gentleman Who will change the gold money of the bathing-checks and not-good-for-one-dollar advertising greeubacks. Likewise there is
the friend from the new arrical's native rillage, whom the new arrival doesn't re-
member at all, but who is ecstatically glad to meet a man who speaks the dear old lan-
guage, and who will take him up-stairs into a back room and show him a pretty, game,
where he will relieve him ofall thatis truly sides these, he encounters the gentleman
$\qquad$
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$\qquad$
$\qquad$
$\qquad$

## All the lepers found in the Hawraiian

 mandate is issned requiring all lepersreport themselves to the health officer
report themselves to the health officer
their district. He inspects them and $r$ ports them to the sheriff, who has the leper
removed to the Isle of Woc. The law is rcmoved to the Isle of Woc. The law is
binding on rich and poor, native and
foreign, men and women, as the isolation of the few is the only hope of safety for the
many. About eight hundred lepers are at present upon the island.
The village has its churches, schools, stores and government offces. The resa white meriatendent is Mr. Clayton Straun Honolulu he went to Philadelphia. While there the loathsome lepross declared itself. He immediately returned to the Sandwich islands, that he might end his days on Molokai. Miss Cummings, in her description of this settlement of lepers, thus speaks of one who, though not a leper, has chosen it as his earthly sbiding-place. She sass:
"One there is who, in pitying lore to these "One there is who, in pitying lore to these ontcasts, has roluntarils taken his place for life in their midst. Father Damieu, a young Roman Catholic priest, resolved some years ago to derote himself to this work, and following in the Master's steps, seek and strive
the wilderness
the wilderness."
It was truly a noble act; for apart from the dails horrors of his surroundings, there must be the ever-present knowledge that he may one day derelop symptoms of the
Hitherto that devoted life has been mer difully preserced, and the good young father continues to be a center of brightuess and sunshine in that sad colony.
The Protestant congregation is in charge fae Protestant congregation is in charge a native pastor, himself a leper (there are sereral such on the island), and the
poor little childreu born to such a heritage of woe are taught by leper teachers in two chools
Latterly, a company of rolunteers has
been formed, though it is hard to see what been formed, though it is hard to see what
pleasure these poor creatures can derive in playing at being soldiers.
The greatest success is the leper band, for the whole community thoroughls enjos celleut, and is led by a young girl with an exquisite voice-truly a nightingale in

## THE LORD'S PROMISES.

The Bible nowhere promises us exemp te shall not go into the furnace, nor into the deep waters; but it does promise that the fire shall not consume ns and the waters shall not overllow us. In the midst of the trial it shall still be trell with as. By our
side in thrnace there shall be one is like the Son of God, and we shall come garments. It is not said that Christians tianity derelops manhood; it rastly el larges the sphere of life. It gives a broad surface across which the winds of adversity
may sweep. It gives greater possibilities of enjorment; and these make greater
trials certain. A Christian mau is higher and deeper and broader than oiber meu. He is more fulls dereloped in all his suffered unspeakably more than any othe man who ever lived could suffer. He had in himseli all the nolleness of man and al capacities of suffering than other men posStoical indifference to pain is an er idence of a coarse and brutal nature.
feel, aud set to do and dare, is to be trul noble.

Lost everything.
Often we hear it remarked that such a one "has lost everything." And what has
he lost? Has he lost his voice, his eres, his ears, his reason, his understanding, his judgment, his conscience, his will? Oh, none of these; but a man who has "lost have lost some land, which others owned before he was born, and which lies now ever. He will be found to have lost some money, which others had last year, and
which was in his possession yesterdar, which some one else has to-day, and which some other one will have to-morrow. He
has also lost a house; but the house is standing, and people are living in it a smaller house, or he may be speedils laid in a narrow house which will afford him shelter when no other house is open for The
after all, seem to be so serious. A little soil, a little shining ore, a littlc comfort and transferred to others, as ther had previously been transferred to us; and we murnur and complain about our losses. We do not
courage, faith, intelligeuce, understanding judgment, conscience, powers of body faculties of mind. These are things which
we may hold fast when we have lost the possessions on which we doted, but yt which form no part of our most valuable
What shall it profit a man if he gain the whole world and lose himself?. And so loug as a man has not lost himself, what do these other matters amount to? Let us see that we hold fast our true treasures; that moth nor rust cau corrupt, or thieres break through and steal. Let us have the assurance that our possessions are bejond the reach of flood or flame, of moth or rust, of thief or robber-an inheritance incorrnpti ble, undofiled, and that fadeth not awas reserved in hearen and ready to be revealed

## THE SAINTS' INHERITANCE

God says in Dan. 7:27: "And the king dom and dominion, and the greatness of the kingdom under the whole hearen of the Most High, whose kingdom is an ererlasting kingdom, and all dominious shall serve and obes him." What a picture of encouragement is this to every child of God. Especially so amid the ities of Zion. Along the ages, Christians of all names hare been assiduously engaged in building up a kingdom for the saints inheritance. But in no age have the chil dren of God been as active as now. In al lands the gospel trumpet is blown loud and long to add willing snbjects to the divine kingdom. The soung people's moremen is certainly a great factor for accumulating the great possessions of the saints' inher itance when Jesus comes. Our Lord says society, union, leader, president, editor, secretary, pastor, convention, gathering and worker of every sort shall have par
in making up that glorious inheritancer in making up that glorious inheritance which our adorable Lord shall give to his children when Jesus makes the new
hearens and the new earth.-Young Peo

## A CHILD'S MEMORY OF ITS MOTHER.

 Suppose that a woman, haring the abilit trait, and write a complete description herself, of her mental gifts, characteristics childreu might from them form an estimate of their mother. Is there any one of us alltured face sweet, calm and thoughtful Who would not make the most of erery not write of her geutleness, truthfuiness, and amiabilitr, enlarging, as far as con scieuce would allow, upon her virtues, an glossing over her faults? Would she om forgotten her dignits under the stress temper, had been uujust or indifferent. Now, have you ever thonght that in th memories and hearts of children $\pi$ are das by day paiuting our portraits
writing our memoirs? Erers mother indulges in outbursts of tewper, in which her face is transformed with anger, may with sorrow and mortification feel that she has placed these scenes on record, in th ization would lead her to soften and bean tify her harsh words and actions.

## bearing the cross.

Simon Peter saith unto them, "I go fishing." How uatural for man ont of sigh of Jesus and hard pressed with temptation fishine up hope and turn his attention to fishing, or some other secular business, in before him.
Many Christians continue to want to walk by sight instead of by faith. When thes are in heariness on account of mall ifold temptations, straightway they think they have lost their religion and turn thei attention to secular pursuits, when God has called them to work in his vineyard. When the cross bccomes heary, the tempstrong and they feel like laying the cross down and running away from duty. They forget that a crown awaits him who faith fully bears his cross and endures to the

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## CORN.

TAmerica the world is indebted for the corn-plant, the grandest forage crop known. Aside from its value as stock food, it has a
specific value as food for hungry men and women, and as such kes high rank among the food crops of the United States. The fodder, or stover, of corn, properly harvested and cured, has
a feeding value equal, if not superior, to timothy hay. In digestive matcrials, American trials show that83.2 per cent of the dry matter of corn is digestible, or, including the stover and cobs, that 68 per cent is digestible, while timothy is but 57.1 per cent digestible, or nearly twelve ponnds less than corn. Relying upon the above data it
would require more than five and a half tons of timothy to be equal to the yield of digestible matter in a crop of corn yielding sixty bushels to the acre.
The corn-plant adapts itself to quite a wide range of latitude. Classed as a subtropical plant, we find it adapting itself in varieties which have been modified by long-continued planting and selection to
the rigorous climate of Cauada and northern New England, where it ripens to perfection nine out of ten seasons. In point of production of grain to a given area, corn seems to thrive best nearer the north-
ern limits of its greatest attainments. In Maine, New Hampshire and Yermont, the average yield per acre is from thirty-three to thirty-five bushels, leading all the other great agricultural states embraced in other isothermal limits.
Corn is unequaled as a fattening food, and is indispensable in the dairy to the production of the best butter. It may be said
to be the foundation food in profitable to be the foundation food in profitable
dairying. And what gives it additional value in this direction is, its relative cost of production is less than with auy other food of the same value. As a renovating crop in the rotative course it holds first place, involving less hard labor in its cultivation, while the constitutional function of its broad leaves, like all of its class, turn to account the supplies of plant-food nature farmer supplies.
It is in the rotation of crops wisely arranged and persistently carried out in the farmer's system, that corn is produced at minimum cost and its valuable character availed in the preparation of the soil for succeeding grain or root crops, or for a crop of clover or grass.
Objections have been raised against grow-
ing corn because of the ammount of hard labor involved in its cultivation. Adhering to old methods the objections are measurably valid, but adopting later meth-
ods which improved machinery makes possible, these objections are removed.
There is no crop grown of equal value as stock-food that the substitution of machinery for hand labor in its cultivation is po fact that corn gives the maximum yield for the minimum amount of tillage cost.
As a soiling crop the corn-plant is unequaled, and a feature in its production which makes it valuable above other forage crops, is the great length of time it can be fed
in the green state, for properly cultivated in the green state, for properly cultivated
it may form the chief soiling crop from July till frost comes, and then the remainder forms a valuable addition to the forage supply of the farm by filling the silo, a use
to which the corn-plant is better adapted to which the corn-plan
than any other grown.
The coarse manure of the cellar and yard is duly appropriated by the corn, as it is a gross feeder. Some goodrill gives the plants a quick start and carries them along till the coarse manure has become properly decomposed to be appropriated by the corn
The cheapest fertilizer for corn comes from the farmer's own premises, and the
closer all the droppings of the stock are closer all the droppings of the stock are
saved, the more valuable does it become. But there is economy in using chemical fertllizers, because the crude manure from the cellar is not appropriated by the plant early in its career.
Trials have shown that the yield of corn is greater in surface manuring-applying to the furrows before the harrow is put on. Ferment the mauure in the soil rather than in the cellar, when used for corn.
It depends somewhat upon the use to be ing. The drill system will give more brlk
for the silo, while the check-row method gives laser wass and sounder corn relative 1y. vantage to profitable disposal of the crop, advantage to proitable disposal of the crop,
which adds materially to the profits. which adds materially
Whichever method is adopted iu planting seed with a variety which is known to mature well before frosts.
Drilled in with rows three and a half feet apart, thrce kernels to the foot, the crop standiug till the ears begin to glaze, will give fifteen to twenty tou's of fodder per acre, and preserved in the silo and fed to cows in connection with a small amount of hay and a suitable nitrogenous ration of grain, will be equivalent to five or six tons of timothy or common mixed-grass hay.
The main expense for labor in cultivating the corn crop is in harvestiug. Cutting by hand in the field is as yet the most practical way. A machine does not leave it in yood condition to gather up. If to be dried for shelled corn, stack it in the field till cured. Depositing at once in tho silo from
the field, cut to half-inch lengths, seems to be the most economical method. It costs from five to cight cents for each bushel of shelled corn to husk it, and no gain is made to its nutritive properties; shelling and carrying to mill and grinding costs ten cents more, say fifteen cents in all-one fifth of its selling price, or twenty per cent of its value. There is a small loss in the silo, but if finely cut and solidly packed the loss is less.

## WEATHER WISDOM.

The subject of weather wisdom or weather prognostics is not of recent date. The ancients carefully observed the sky and clouds and actions of birds and beasts.
In the earliest record of all nations we and references on weather phenomenon, and the only way of explanation was by
superuatural agencies. But more light is being thrown on this science continually, Our forefathers noticed the sky, clouds and the movements of animals and plants, so that certain kinds of weather followed ertain appearances. These conclusions have been thrown in proverbs and sayings which in many cases are correct, they being explained by the more recent disco eries in weather science.
For many years the subject has beeu shrouded in mystery; at one time meteorologists believed that by a record of the mean temperature, barometer height, clouds, wiud and rainfall, some dependence could be relied upon it. In fact, a great advance was made. Statistics of the rainfall was of great commercial importance; further than that, little was accom-
plished. Au example from Arbercromby illustrates the inefficiency of this system of statistics,
as it was called. Napoleon requested Laplace to make calculations as to then winter set in in Russia. The latter found that on the average it set in during January. Napoleou made his plans accordingly, and his army was lost.
Not until the introduction of daily symnoptic charts was there any great advance made which showed the atmospheric pressure, temperature, etc. These charts are constructed by taking the readings of the barometer at a great number of places. The readings are then marked down over throngh the places having the same pressure. By noticing several of these charts called a cylone a and a high depression, called an anti-cyclone. The cyclone is always circular in form and moves in an eastern
or uortheastern direction. The anti-cyclone often, though not al ways circular, is stationary. The lines drawn through the places of equal barometric height are called isobars, and the iutensity of the wind is always dependent on the closeness of these isobars; the only apparent difference between the cyclone and anti-cyclone area is in the intensity or steepness of isobars.
Meteorologists during the last few years are making their studies and workings on the symnoptic or isobaric charts.
A weather bareau has been established under the authority of the secretary of agriculture, and all pains are being taken to unveil the curtain that enshrouds weather science, and all endeavors are being made to reach better results for the good of our people. Voluntary observers are in nearly every county of the several
states, and their reports are sent to central offices in the state. Daily charts are issued from the several central offices showing the pressures, cyclone and anti-cyclone areas, with a forecast of the weather.
At present a forecast cannot be made for
six hours, and at the most not over a period day is a very great help to the people. The day is a very great help to the people. The
weather bureau is doing much for the peoweather bureau is doing much for the peo-
ple. Life and property are saved. With ple. Life and property are saved. With
the many daily newspapers, which all givo a forecast of the weather and the uses o cold wave signals and other signals, one is able to prepare for unusual extremes. By
the workings of the weather bureau, all people are bencfited. There is not a siugle class of people that does not receive much good from the bureau.
Certainly the farmer receives great benefit from the weather bureau. How many fields of wheat and other grain have been saved from destruction by the knowing of approach of wet wcather and the ofwner obeying the warnings. Surcly, the

farmer, if any, person, should hail its suc| $\begin{array}{l}\text { cess and wish it God-speed toward it } \\ \text { further perfection. C. W. Burketr. }\end{array}$ |
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bill
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found that placard on the walls, Post $n 0$ sills,',
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He was going to propose to her, and he pre
frum:
drum proposal with the folloring conun-
"Why, he asked, ", "st sour house m

## $\xrightarrow{\text { Iti is }}$

"Chicago contains only the world's fair, but
his house contains the world's fairest

## SHE GOT THERE.

IWas the hour of sunset in the United



 "Jen," he said, breaking a long silence.

## "Heaps

The sun disappeared hehind the Raccoon hills, and twilight fell. Insensibly the gal heared a long, quivering, tremulous, trem-
bling sigh. Insensibly the man hitched to-
"Jeu, s'posin'?" he queried as
straight into the gathering darknes
"S'posin' what, Tom?" she answered as she thumped the life out of a mosq.
But he stuck there, while the darkness grew on his mule, and an owl in the stramp gare ntterance to his lonely cry. Her heart was heating wildly, but a gal critter must wait
for a man critter to ask her. Insenslbly they "Jjen, s'posin' yo'r pop was eat np by a b'ar?"
"And yer mam was ter get the breakhone
fever and die?"
He got stuck agaln. He pleked up a chlp nerrous manner, while the owl Thooped it up for the next fire minutes for all there was in he knew she was red back to her sh "And s'posln' yo'r hruther Jim shonld git
$\qquad$
"W-That Tould yo' do then?""
"Rekcon I'd go orer to yo'r house
"To ax yo'r mam if-if-" isten, and Tom worked his toes under a roo and queried:
"To ax my mam if what?",
"Reckon not.
"Then I'd go orer to 5o'r house to ax yo' mam if-
His arm shole around that gal, and her head ell upon his shoulder. The owl hooted and the 'skeeters bit, but they heard nothing but the whispers of lore-felt nothing but that
sense of happiness which comes to calres that bite each other's ears for the first time.that bite e

## THE SOUND OF A SUNBEAM

One of the most wonderful discoveries in rear or tro is the fact tbat a beam of light
produces sound. According to Milling a beam produces sound. According to Milling a beam of sunnlight is thrown through a lens on a
glass ressel that contains lamp-black, colored ilk or worsted, or other substances. A disk having slits or openings cut in it, is made to
revolve swiftly in this beam of light so as to revolve swiftly in this beam of light so as to
cut it up, thus making alternate flashes of light and shadow. On putting the ear to the glass ressel strange sounds are heard so long as the flashing beam is falling on the vessel Recently a more wonderful discovery has
been made. A beam of sunlight is caused to pass through a prism so as to prodnce what is isk is sold and the or rainbow. The disk is turned and the colored light of the place the ear to the ressel containing the silk, wool, or other material. As the colored lights iren spectrum tall upon it, sounds there will be silence in other parts. For in sance, if the ressel contains red morsted, and the green light flashes upon it, loud sounds
rill be given. Only feeble sounds will be heard if the red and blue parts of the rainbor fall upon the vessel, and other colors make no
sound at all. Green silk gives sound best in red light. Every hind of material gives more or less sound in different colors, and utters no
sound in others.

## FAMILY SUFFRAGE.

The new suffrage law just enacted in Belgium ontaiks a pron 5 except treacept $W$ roming. It gives evers married hls family. This recognition of the rights and interests of the home is something entirel rith standing armies and military is Europe, Trould, if generally adopted, greatly promote the interests of peace. The married man, sas: He is made more cautious, conservative and thoughtful by his needs and responsihilities He is more or less influenced by the opinions,
wishes and judgment of his wife. In short, Wishes and judgment of his wife. In short
he is commonly spoken of in society as a "family man." And the Trelfare of the family is the main ohject for which government ex
ists. Of course, it is clearly unjust to have the wife thus represented br another. She can only he fairly or adequately represented by
herself. The Belgian system has a suspicious herself. The Belgian system has a suspicious resemhlance to the old odious prorision of count for two fifths in the general hasis of in the case of Belgiam, as in our own, the enactment may prove a half-way house to the full recognition of political rights, duties and responsibilities

WORD ABOUT BATH SPONGES.
A bath sponge is a satisfactory toilet article only when it is well cared for. If it is put
away half cleansd and dripping wet it will oon become offensive, and then its restoration to cleanliness is rery difficult.
bath sponge is used it should
soap and सarm water, rinsed in cold wate and then squeezed, not wrung, rigorously. In and when possible in the sunshine it should be dried by artificial heat. should never be shut in a hox, and the hest place to keep it is on a hanging earthen tray sponge had rather coarse pores, but is strong and soft in textnre. The most expensire ponges, however, are tins ones, Which hare are used for bathing little children and by surgeons.

OVERWORKING HORSES.
You overtrork occasionally, do fou not Perbaps jou do it habitualls; hut whethe ceasionally or constantly, sou know tha the attacks of disease. Thousands of men di because of overwork, sars an exchange.
what is true of men in this respect is What is true of men in this respect is true
the horse. We cannot orermork it withou the horse. . The number of horses that are killed
danger.
by hard work is very large. Outside of humane considerations altogether, it may be it usually does a very foolish thing. The ex-
cuse for overworking our horses is that the cuse for overworking our horses is that the
work must be done. There is no "must" abou it. If a man kills a hundred-dollar horse in doing a hundred dollars' Worth of Work, such a horse in doing fifty dollars' worth o herk, he is fust ittle doret. mating the resnlts of such sacrifices, he would less often make thea.

## A GOOD DIGESTION.

"rated-physician to me the other day; and he added: "Absolutely on the plate, There food is cnt into $p$
And when we think of this, What a horrible notice that was on the lawser's do
o dinner-be back in fire minutes,
If we don't take time to chem our food, Te ecome drspeptic; and if we become dsspeptic
All life looks become Wicked.
All ine looks, with soe to his Woe to his compauions if they expect goodshe has the womanly intuition that will make her humorhim as though he were a cross babs: Man delights him not, nor moman either; nor is he best pleased with himself, thongh he ealously demands homage from others.

$$
\begin{aligned}
& \text { ealously demands homage from others. } \\
& \text { A man } \text { With a good digestion is more lik }
\end{aligned}
$$

be true and loving and charitable and honorable than one who has ruined his temper and digestion together; and since one of the best assistants to digestion is a good use f the teeth, let ns calmly sit down to our diner as our English friends do, and as we enjoy ar meal, rebuff any whispers of wasted time br remembering that if the body is not cared or the mind and soul go wrong; that to eat nd sleep and drink and bathe well will not
 a conseqnence, smarter and better. A good there may be demons who chew their food well, there may be demons who chew their food well,
there never was an angel who did not masti-

## cate his.-Felo York Ledger.

## METALLIC LATH

The introduction of metallic laths has be ome so grotring a feature in building operaons as to lead to the mechanical perfection of the article and its production on the most degree of simplicits. It is formed from a slightly corrugated steel sheet, making in this tro parallel cuts at regular distances apart pressure applied on one side, thns forming orer the surface of the sheet a series of loops; the cutting and expanding are done instantameously by specially designed machinery. The finished lath is rery easily handled and rapidly placed; the mortar can be applied to either side as may be conrenient, and the loops npon the sheets serre as a thorough key to the plaster, holding it strongls in place, I is claimed for this substitute that it is fire and rermin proof; a workman can put on bout three times as much of this lath in a ay as of mood laths; that it forms a strouge crack from settling of walls; that the plaster is much less liable to fall off from this lath eyed by loops; that a giren sount of plaser will cover nearly twice as mnch surface on this lath as on the wood, hecause the surface of the steel lath to be corered is eren and un-
rielding, and the openings uniform and suffFielding, and the openings uniform and sufficient to guarantee a stronger key, will not let waste mortar fall

FOOD PRICES IN EUROPEAN CITIES. A commercial return has just been issued in London, showing the average retail price per pound aroirdupois of rarious articles of some of the principal cities of Europe during the last rear. The cities selected are Paris,
Lille, Berlin, Frankfort-on-the-Main, Hambnrg, Vienna, Buda-Pesth, Prague, Rome, Florence and Brussels. The prices of prime beetained for 14 cents a. pound, in it could be 16 cents, in Rome and Buda-Pesth Vienna for 16 cents, in Rome and Buda-Pesth for $1 /$ cents,
$\pi$ hile in Paris the price fluctuated between 24
cents and 32 cents, and in Lille as much as 30 cents had to be paid. Flour ranged from fort and Florence. It is curious to notice that While in Lille flour can be parchased for $41 / 2$ cents a pound and white honsehold bread costs $31 / 2$ cents, in Berlin this mas exactly reversed, bread costing $41 / 2$ cents and flour being 1 cent in all the cities except Hamburs Rice panged frem cints (in Brossels) to 10 . Rice ranged "good to 5 cents (in Rome and Florence), and (Brazil or plantation, roasted and ground, Without chicors or other coffee snbstitnte), from $322 / 2$ cents in Berlin to 60 cents fresh roasted in Paris. In Brussels coffee from the Dutch colonies can be obtained for $291 / 2$ cents a poúnd.

## A HOME THRUST.

Those two boys never did like each other very well, and when they were seen talking together in the school-yard, a crowd gathored around in expectation of a lively time.
"Hello," said boy Ko. 1, "got yer hair cnt." "pose I hare. Is la any of your business?" "Bet I can guess who cut it, in two guesses."

$$
\begin{aligned}
& \text { "Go on. I don't mant no tronble with sou. } \\
& \text { "Ter father cut it." }
\end{aligned}
$$

"Naw he didn't.
got fooled, didn't. Thonght yer was smart an got fooled, didn't yer.
mother that cut it"
And then the group that had gathered abon saw the excitement that they had come afte - TWashington Star.

## DIRECT ROUTE WEST.

The Ohio \& Mississippi Railway is the only road runaing directly West to the Mississippi River. It is the short line between Cincinnati and St. Louis; the latter being the principal gaterray to all the western country.
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with a train from somewhere else. No transferring of baggage or of Tho transle in the day coach.
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## Sulcetions.

## GROWING OLD.

## What is it to grow old?

Is it to lose the glory of the form
Is it for beauty to eze?
res, but not this lorego her wreath?

Is it to feel our strength-
Not our bloom only, but our strength-decay Is it to feel each limb
Grow stlffer, every function less exact, Each nerve more loosely strung?

## III.

Yes, this, and more; but not,
Ah! 'tis not what in youth we dreamed 'twould be.
"Tis not to have our life
Mellowed and soften'd as with sunset glow, A golden day's decline.

## IV.

'Tls not to see the world
As from a helght, with rapt prophetic eyes, And heart profoundly stirred;
And weep and feel the fullness of the past,

## It is to spend long days

And not once feel that we were ever young; It is to add, immured
In the hot prison of the present, month To month with weary pain.

## VI.

## It is to suffer this,

And feel but half, and feebly, what we feel Deep in our hidden heart
Festers the dull remembrance of a change, But no emotion-none.

## VII.

It is-last stage of all
When we are frozen $n p$ within, and quite The phantom of ourselves,
To hear the world applaud the hollow ghost, Which flamed the living man. Mathew Amold.

## SUMMER BECROOM FURNISHING.

Athis season of the year, the Tribune remarks, housekeepers are removing the heavier fixtures and draperies of the
winter, and freshening up their rooms with light, airy for the summer season, and it makes the for the summer season, and it makes the
following suggestions with regard to the following suggestions weather furnishing of bedrooms:
The dantiest bedrooms are now furnished with light woods, such as birch or maple, pieces, a bedstead and dressing bureau, of hardwood may notv be purchased at twenty-five dollars. At any lower price, the quality cannot be recommended. The rest of the furniture is finished out with odd pieces in bamboo, rattan, reedwork, or
in some wood of the same kind as the furniture, but in a varying pattern. Very pretty window-seats or ottomans may be constructed at home of boxes covered with chintz, with hinge-covers, so that they may be used as receptacles for stockings or other elothing
In spite of all the fashionable faueies in colored counterpanes and upholstered beds, the great majority of neat housekeeper's still prefer the white bed with its dainty counterpane and pretty pillow-shams of linen or larrn. Skilful needlewomen sometimes embroider connterpanes in colored silks or wools on a background of creamy should have a touch of medicval quaintness about them, and the pattern should be in conventional design rather than in riest materials for draperies at the the pretis materialo is a eheese-cloth printed with flowerstripes in color, which should not cost over fifteen
or twenty cents a yard. Figured Swiss or twenty cents a yard. Figured Swiss muslins, scattered with doto, little cres-
cents, fleur-de-lis or other small designs, cents, feur-de-lis or other small designs, with simple ruffes of plain mnslin on the edge, make very pretty wiudow-hangings, and are in special dernand this season.

A tasteful bureau-cover may be made of the same muslin, with a border and perhaps an insertion of inexpensive lace to trim it. It should be laid over a linen of white or color, but in case color should be used, it should be some material which will not rnn when a spot of water is spilled on the muslin and stain it. There may be two mats made of the same muslin, and a tiny pincnshion-cover.
The fancy for bedrooms in one color still continues. A number of red rooms have yellow or light blne is more suitable for the predominant eolor of a summer room.

## WAGES IN CHINA

In China, the artist in his business or profession obtains no higher rewards thau the ordinary craftsman. There appears to be a dead level for all who work with hand or finger. A master workman in auy of the trades iu China gets three dollars per
week, or one hundred and fifty-six dollars per anuum. But the workmen only get per anuum. But the workmen only get
half that remuncratiou; one dollar and half that remuncratiou; one dollar and
fifty cents per week, or seventy-eight dolfifty cents per week, or seventy-eight
lars per annum, is the average rate, and it is uot every workman who can obtain that. Youngsters and women get fifty .cents per week, or twenty-six dollars per.aunum. It will be observed that these are the wages paid in the higher walks of art and mechanics. There is only one class of operatives who are more handsomely rewarded. Gold and silversmiths do a little better. The silk reeler or spinner sometimes gets from one to two dollars per day, because the silk has to be rceled off the cocoons in a giren time, and as a con-
sequence, the work has to be prosecuted sequence, the
day and uight.
The expenses of living are light, in the case of a master being about oue hnudred case of a master being about oue hnudred
and twenty dollars a year, while a workand twenty dollars a year, while a work-
man spends bnt sixty-ive dollars. This includes clothiug. The master generally lives at the workshop, where he has, perhaps, two rooms beside a place to cook in. The household furniture may be estimated at from twenty to thirty dollars. The orCiuary workman, if married, will share a small house with a friend, and occupy one room and have access to the kitchen. He may live with his parents, in which case his earnings go to the com, to fifteen dollars will cover the value of the household furniture. If a Chinaman is a bacheloras he often is, by the way-he will sleep at as he often is, by the way-he will sleep at
his employer's for a consideration, or stay his employer's for a consideration, or stay
with a friend; in either case his whole inWith a friend; in either case his whole in-
ventory consists of a box with his clothes ventory consists of a box with his clothes
aud his bedding. The laborer, or farmhaud, is even worse off. The farm laborer, during harvest-time, gets, beside his meals -worth about ten cents-from ten to fifeen cents a day, or from seventy cents to one dollar and five cents per week. He can be hired by the month for from one dollar and fifty eents to two dollars. If he gets permanent employment he is willing to accept twelve dollars per annnm, with board and lodging. If he works for shorter terms, fifty cents a month will suffice for house rent, and two dollars per annnm will keep his wardrobe in repair. But there is a grade below these free laborers, kuown as coolies, who are often glad to work for five cents a day.

## ARE THE OCEANS DRYING UP?

Sir Isaae Newtou surmises, although he could give no reason for the conclusion he had reached, that in the course of time the earth would become perfectlydry. Others, most notably De Verne, Hamilton (Prof. A. Is) and the younger Lysander, all be lieved that eventually the earth would become as dry as the proverbial chip. Even in this day and age the theory has many adhereuts. At a recont meeting of the French geological society M. Transchold, of Moscow, Russia, read a paper entitled "Non-invariability of the Level, of the Ocean." It terminates with the following curious and interesting conclusions:

1. In proportion as certaiu parts of the earth's crust rise from the bottom of the sea above its level, the latter must be lowered.
2. The surfaces of nearly all the continents and islands have at one time formed portions of the ocean's floor. They have risen from the water partly because of the retreat of the waters.
3. As eontinents
4. As eontinents are formed, one part of the waters of the seas is transported to them in the form of lakes, rivers, eternal suows, glaciers and organized snbstances. Owing to these actions, the waters of the oceans have been constantly diminishing and their levels lowered correspondingly.
5. In proportion as the earth cools down, ice accumulates near the poles and on tops of mountains; water is taken more deeply into the snrface of the terrestrial crust, the formation of hydrated minerals being inanifested everywhere.
The result of these conclnsions is that since all the water that ever existed may still exist in the form of perpetual ice snow, hydrated minerals, etc., the waters of all oceans have been gradually disappearing, and that the lowering of the oceans faster, perhaps, than the present day, and

## A POYAL PORTIERE.

Mrs. John W. Foster, wife of the latesceretary of state, has just hung in her draw-ing-room a truly royal piece of drapery. Probably there isn't another like it in the world outside of China aud the emperor's palace. it is about eight feet loug by five feet wide, and was originally made for the wedding; of the emperor of Chiua, three years ago. The material is superb satin, thick as a plank, and of the royal yellow shade. The embroidery is the work of the most skilled necdleworkers. The desigu begius at the lower left-hand corner, where the empress, iu the shape of a most gorgeous peacock, is executing a pas soul ou rosebushes beariug roses that would make a florist green with envy. There is a coy,
blusliug expressiou on the face of the peacock, which is supposed to be particularly gratiied because the young empcror, in the guise of a fierce--looking dragon, in the upper right hand, is swooping dowu ou her
to carry her off to reign with him in his palace. The embroidery is complieated aud beantiful, and to the Aumerican eye shows uot the slightest flaw. It is dificicult to believe that the whole piece of work was solemnly condemned because some of the emperor's experts were able to detect an imperfection in it. This design belongs exclusively to his celestial lighness, the young emperor of Chiua, and the peualty would be somethiug horrible if it were found hanging auy where in China outside


UNCLE TOM AND EVA

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Suilts.
To JULIA.
Fair Julia! thou red rose of girls,
Attend my humble cry;
Iu pity hasten to my side,
Pray, dear, don't pass me by!
That dignits-that cold disdain-
That half-offended air-
Perchance may please eour devotees,
(They make me want to swear!)
Come, Julia! Come here instantly!
(That girl has been my bane!
I want some rast beef-blame quick, too-
Iregottercatchertrain.
MRS. WASP AND MRS. BEE.
$\begin{aligned} & \text { Said Mrs. Wasp to Mrs. Bee: } \\ & \text { "Will you a favor do me? }\end{aligned}$
$\begin{aligned} & \text { "Will you a favor do me? } \\ & \text { There's something I cant understand; }\end{aligned}$
$\begin{aligned} & \text { Please, ma'am, explain it to me. } \\ & \text { "Why do men build for you a house, }\end{aligned}$

ODE TO THE HEN. Of robin and bluebird and linnet spring poets
write page after page ; their praises are write page after page; their praises are
sounded each minute by prophet, soothsaycr
and sage; but not since the stars sang toand sage; but not since the stars sang to-
gether, not since the creation of men, has
any one drawn a goose feather in praise of a any one drawn a goose feather in praise of a
patient old hen.
All honor and praise to the singer that cheers up the wildwood in spring; the old recollec-
tions oft bringing jos, childhood, and that sort of thing; but dearer to me than the
twitter of robin or martin or wren, is that
motherly cluck when a litter of chickens sur-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Thes've forced the door of the broadest creed
to let his majesty through.
There isn't a print of his cloven foot or a fiery dart from his borw
To be found in earth or air to-day, for the
world,has roted so. But who is it mixes the fatal draught that
palsies heart and brain, ten bundred thousand siain? with the fiery breath of hell,
If the devilisn't and never was? Won't someWho dogs the steps of the toiling saint and
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Won't somebody step to the front forthwith
$\qquad$
$\qquad$

POTENT ELIXIR.
$\qquad$


Beecham's


10 dals free trial

## A

"What is he doing? There he has gone and Wiped his nose on his clean pocket-handker-
chief hefore any of the guests have arrived, - Texas Siftings.

## OVERLOOKED

Mrs. Strongmlnd (about to start to the expo
sition grounds)-"Let me see , here
Wraps, here's the lunch-basket, here's the the
opera-glass,and here's the bundle of umbrellas.
I guess we've got everything, and yet-chil-
"e?",
Husband and father (standing meekly at the

ing!"


A MISAPPLIED GIFT.
Kathleen-"'Yez gev me this bottle o'-phat',
th' nem ar it?-jockey-club this maar-rnin'."


POOR PICKINGS.
Carrie Nerrs-"Hare you noticed the change
that's come over Mr. Van Dudell lately?
Something has been preying on his mind for
Something has been preying on his mind for
the last two reeks."
May Cutting-"."It surely must be starved by
this time, whatever it is."


ODDS AND ENDS.
When in a hurry profanity can be avoided with a whitewash brush.- Free Press.
"So this is Simpson's new house; he told me "So this is Simpson's new house ; he told me
that it was built on rery high ground."
"Christopher Columbus, it 1s! He paid one "Christopher Columbus, it "s! He paid one
hundred dollars a foot for it." does you want on dls yer sign?" Missus
dohusing (after a momeut of deep thought)-
"I guess 'Goin' Out Scrubbln' will do."


Harper's Bazar.
pered, "Darling, if I should ask you in French if I might klss you, what would you answer
She, summoulng her scanty knowledge French, replied: "Billet doux?"
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## ALL FAT PEOPLE



fOLKS
 Or, Chase's scom in mecte Receipit Book


$\qquad$
 RUPTURE ${ }^{\text {cowe }}$ RUPTURE
" RUPTURE


## Glanuing

## OF INTEREST TO WOMEN

The cape is decidedly the most popular wrap. Somo of tho
now capes are pretty and styl now capes are pretty and styl-
ish, but many of them are simply absurd. The latter class simply absurd. scallops, ànd pointed plaitings, and double ruchings, ruffles and trimmod collars of varions sorts, until there ls absolntely more material about the shoulders than in all
the rest of the garment. The slmplor the rest of the garment. The slmplor models are cnt in circular shape, with a wedge-shaped section taken out of the
front, a ruund hole cut in the middle of front, a round hole cut in the midde of for trimming.
A handsome imported cape, simple but exceedingly stylish, was made of tan-colored cloth, lined with changeablo satin dnchess in blue and ecru, and trimmed with four alternate rows of gold braid abent five eighthsof aulinch wide, and tancolored braid, not over one fourth of an
inch wide. A smoothly-fitting cape collar, ineh wide. A smoothly-fitting capo collar, llarly trimmed, and the standing collar, made slightly flaring, was finished in the ganie way and lined with the satin. The cape was closed by three hooks at the front. To make a cape of the sort just described, take a square of very light-weight cloth, middle of it firmly to the floor by means of a strong pin. Take a piece of cord that will reach from the edge of the cloth of it to the pin and the other end to a piece of to the pin and the other end the a phald from and draw a circular line, keeping the cord perfectly taut, and cut ont the cape by the line thus drawn. Divide the circumference into eight sections so that the fold of the cloth shall be in tho middle of two of them. Cut for the front, and that will leave the fold in the opposite one exactly in the middle of the back.
In trimming a circular cape with braid, always run a fine, strong silk thread through the upper edge of the braid and draw it in just enough to make it fit smoothly on. The cape between the rows may be a quarter of an inch, or the width of the braid. Graduated braid is frequently used for trimming caps, and the same rules apply. Circnlar or slightly pointed oollars are used with standing collars or rolled-over collars
If the cape is to be lined, it should be If the cape is to be lined, is on, and the dining, preferably of silk, should be carefully basted in and hemmed down tailor fashion.

## NEATNESS IS NECESSARY TO PRETTINESS.

 Neatness is not only a good thing for a girl, but it is a very important thing. Girls all wish to look well, and it is expected of them to look pretty. The intricacies of their dress and the rarrety of colors worance make in want of a hook or a button, the drop of the underskirt, or the ton, the drop of the underskirt, or the any amount of native prettiness. The any amount of native prettiness. in re-hand, though white and well shaped, is rehand, though white and well shaped, is repulsive if it is not immaculately clean and
the taper fingers finished with well-manicured nails, and so are well-shaped feet even in Cinderella-proportioned shoes, or
in shoes that lack buttons. Fashion dein shees that lack buttons. Fashion decrees, and good sense endorses, that a young and to be thls, neatness is the first requirement. It is, therefore, essential that a part of every glrl's training should be the formation of habits of neatness, and that this training be early begun. If a young woman's education in this particular has been negleoted, she should begin at once
to rectlly the mlstake in her rearing.-Baltimore Herald.

THE ONLY WOMAN LAWYER IN JAPAN.
IIme. Tel Sono enjoys the distinction of being the first and only woman lawyer in Japan. While engaged in her profession she had many opportunities of discovering the needs of her conntrywomen, and with a view to founding a Christian training sehool for women in her native town, she spent some time in America studying the oustoms of the country, whose women, to her mind, were on an equality with men, The class she aims to help is the hlghest in
Japau, and one which missionaries cannot reach, but to which she has admisslon from her rank.

Chief among the many puzzling quostions witl which my childish mind whiled away tho weary half hour of a Sunday morning sermon, was the existonce of beggars in Bible.days. I pictured Palestine to myself as a land of templos, tombs and gardens, inhabited by beggars and Pharisoes. Born and reared ln the prosperons West, poverty such as the scriptural tales dimly suggested was to mo a thing as vague as the hell of the samo records, a fairy tale far more unreal than the sleeping-palace or the caves of Aladdin. Now tho puzzle is solved; I have seen poverty, I have been to Mexico, I undorstand Palestine. I can almost believe in a horned Satan and fire and brimstone
To the casual observer Mcxican poverty is extremely picturesque. It is not an imitation of respectability such as the
hnmblest American will attempt, but it is humblest American will attempt, but it is hmmanity in rags and nakeduess, too often in sores, almost always in dirt. 'Begging is a trado, the occupation in the arid portion of all tho poorer population. Beggars throng the railroad stations at the interior towns, and a motley array it is. They are of all sexes, the lame, the halt and the blind. Babies in arms holding out dirty ittle hands for a "centavo," old women, young women, healthy little boys, crippled grandfathers, all whining to the same tune in their mongrel Spanish, "For the love of God, Senorito, give me a cent."
Give them cents! I ponred them ont upon them. Never had a copper seemed of so much value. I luxuriated in their delight. I bought out the porter, the newsdealer and the conductor to satisfy the want that never could be satisfied; for
there is a friendly feeling among these unthere is a friendly feeling among these un-
fortnnates, and when they find one who will give, they spread the glad tidings among all their class, and indeed I sus pected them of having discovered some peculiar way of telegraphing the information to the next station, so besieged was I for charity. Very picturesque were they
seen from the car window in the soft gloom of the southern night, their dark eyes gleuming like stars under thoir quaint hat or still more primitivo head-dross, their white teoth glittering as tho musical Spanish rippled forth in compliments calculatod to appoal to the generosity of the senorita, whorseemed to them a small-sized providence. In the cruel glare of the sun, defects becamo evident, and ono saw the coarseness in the squalor and dirt, still never did they coase to be poetic. They harmonizod so perfectly with the background of clondless sky, antique buildings and tropical verdure. Thero was $\Omega$ beauty in their very ugliness which was a plea for their existence; and in remembering the ploasantest jominey of my life, I shall always have a very tender rocollection of the beggars of Mexio.
I met some few stragglers at Saltillo, more at Catorco; at San Luis Potosi they were absent; bnt late that evening at a place, the name of which I have forgotten, they swarmed in families, and became as excited in reooiving as I in giving. One girl of about ten yenrs annused the people in the sleeper, who had come to the platform to see the fnu, by crying in Spanish, her hand already full of coppers, "Child, child, give me a cent." Even when the train started they ran along by its sido, talking rapidly in a jargon of mixod Indian and Spanish. Still, if one does not choose to give, these people will not prove annoy ing, as they seldom ask charity a second time where they have seen it once refused Mexican politeness penetrates even to tho scum.- Edith M. Day, in Lewis \& Dyyden's Railway and Marine Gazette.

## AN INVALID.ROOM

In building your new house, an isolated invalid-chambershould be provided, if possible; thongh sickness is a gnest unbidden and nnwelcome, provision must be made for his appearance sometimes. The sickroom should have an outside door, and be so situould have an outside door, and be
communication with other parts of the t, should bore trangor contagion. th should bo romote from the livlag-rooms, that the noise of the honsehold machinery may not disturb tho ears of the sensitlve nvalid. A hardwood floor, hard-finished walls, and plain, simple furniture which can be casily disinfocted, are among its necessary adjnucts; so also are abundruce of fresh air and sunshine, two of nature's best disinfectants and curative agents.-

## Good Frcallh.

THUNDER DOES NOT SOUR MILK
Science has disproved the rural bellef that thunder sours milk. It is now known that tho souring resnlts from a fungus.growth, and that this fnngns is pecullarly fatal to nursing children. Thoold-thme rural boliet was that the concussion from thunder acted mechanically njon tho, milk, and first soured and then solidified it. The thoory is a plausible one, easily dorived from obsorving ono set of facts without nowing about tho existenco of others more important to the situation. It hap: pous that milk does sour during or just after thunder-storms, becanse tho atmos pheric conditions then prevailing are usually of a kind favorable to tho rapid developmont of the fungus growth that sours milk.- New York Sü.

A KITCHEN "TROUSSEAU."
A kitchen "trousseau". is sold by some dealers. The pieces are packed in a trunk and left with the new housekeoper. Ono of sixty-eight piecos conslsts of a jellymold, tea-pot, coffee-biggin, popper-box flour-dredge, two covered saucepans, pre-serve-kettle, wash-basin, colander, millk-
pan in threo sizes, pudding-pan, gridiron,
sput-strainer gravy-strainer, biscnit-pans, Spout-strainer, gravy-strainer, biscuit-pans,
scoop, two-prong fork, paste-jagger; caketurner, flat skimmer, ladle, two dippers, ob-
long pan, fry-pau, tea-tray, crumb-pan and
brush, dust-pan, coal-shovel, tea-kettle, dish-pan, basting-spoons, teaspoons, table,
spoons, forks, cake-cutters, pie-platcs of each, and a flour-sieve. The list is complete, but it does not seem to have one

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## urrent omment

THE deputy tax-eolleetor of San Ber nardino eounty, California, sent us
the following letter on the subject of

I see you are catching onto some new scheme to equalize the burdens of taxation. I have the Ohio constitution, but if you adopt an amendment by which land-owners will be relieved from payiug seren eighths of the taxes,
as they now do, a great blessing will be conas they now do, a great blessing will be con-
ferred on the people of your great commonwealth.
Haviug resided in Iowa over thirty years, urer of Floyd county, I am familiar with the entire revenue system of that state. I am now, and always was, of the opinion that Iowa was very near to the Henry George system, the adoption of which would not be noticed by either the money-1oauer or the from his proportion, while the latter has from the flrst paid far in excess of his share of taxes. In this fair land of sunshine and of flowers
equity more nearly prevails. The moneyequity more nearly prevails. The money-
loaners, who have, as a rule, very poor memloaners, who hare, as a the assessor is taking a list of their possessions, are assisted by the assessors all mortgages recorded during the fiscal year, and astgage mates up the tax roll, he assesse John Smith with his land or lots at their assessed value, which, say, is $\$ 5,000$. The assessor then turns to John Smith and finds he owes $\$ 4,500$ on his property, secured by mortgage to J. Moneyloaner, Esq. The tax rate is Mr. J. Moneyloaner pays on his mortgage interest of 84,500 . I ask, is there anything wrong in this principle? If the mortgagor
loses his property, then he has only paid on loses his property, then he has only paid on his interest in equity, and paid on his equitable interest
paid on his equitable interest
This system, if adopted, would certainly re interest he only owued contingently. If every man who owns property, either man who owns property, eiter States, should render a true statement of th to the assessor, I will guarantee the land and lot owner would To illustrate, the German Savings and Loan Society, of San Francisco, paid 'into the taxcollector's office of San Bernardino countr, for state and county taxes, $\$ 17,600$. It also paid into our municipal corporation 85,400 . Honies
you a concern that gives in assessable mone you a concern that gires in assessable monies and credits, sumcients it owntly with the farmers and merchants? This is only one iustance. I could name many more that pay from that would not pay a cent if they had the same amount loaned out in the eastern states. The conscientious money-loaner should by like the land-owner, by reason of his forgetful neighbor, has to pay more than his proportion. I often think of what a taxpayer said to me a few days since when paying on his law; a defectire memory don't count against law
it."

Let mesay that if Ohio bas an amendment before her people that will correct the abuses
so many years eudured, let every fair-miuded man cast his vote for its adoption, and then let every statc in this grand old Union follow
The burden of double taxation rests on every holder of mortgaged property in
Ohio. In the foregoing is clearly described the working of the Califoruia law by which this double taxation is aroided. It is one method by which this can be done.
In exact equity each should pay tax on property actually his own. The Califoruia mortgagee does not pay a double tax, but he may, indirectly through a higher rate of interest, be really paying all the tax on the property he holds. Possibly the law
goes as far toward equity as a law can go goes as far toward equity as a law can go
under the circumstances. It is a great gaiu to borrowers to be relieved from unjust double taxatiou. Until some such amend ment as proposed is adopted. Ohio mortgagees must struggle aloug under unjust
tax laws. Obio voters have an opportunity next fall for correcting a long-endured wrong.

Iis not a safe thing to predict future prices of any farm crop, or to advise producers to sell or hold. But at this time it appears almost certain that wheat canuot fall lower, and that it will adrance iu price. The St. Louis Journal of Agriculture says that the best authorities agree will be shorta's wheat crop this year The American crop for this year is estimated at about $383,000,000$ bushels, which with the surplus carried over from las year, will make less than $450,000,0,0$ bush els. About $370,000,000$ bushels will be re quired at home, leaving less than $80,000,000$
bushels for export. bushels for export
In view of this the Journal does not hes itate to say that the time has come when American farmers should not sell a bushel of wheat at present prices, especially since

From the crop report of the department agriculture Bradstreet's calculates that there will be arailable for export, from July 1, 1893, to Juue 30, 1894, only 100,000 ,000 bushels or less. And it says that the port may such a limited supply for exit is recalled that we exported about 190 000,000 bushels last year and $225,000,000$ the preceding year. But it also says that it may be asserted withont fear of successful contrarention that if the grain trade either here or abroad put any faith in the state ment that the United States is to have onl $100,000,000$ bushels or less of wheat to ex port this jear, wheat would sell for future it does
Taking into account the admitted under estimates of the wheat crops of 1891 and 1892, Bradstreet's claims that the total in dicated domestic wheat crop year will uot fall far short of $450,000,0(x)$ bushels, and that the probable total wheat arailable for ex port this cereal year is fully $150,000,000$ bushels, or more than we have shipped abroad
tions.

To these two views of the wheat sit uation we believe it safe to add that presen low prices are partly due to the unsettled financial condition of the country, tha there is a marked disposition on the part of producers not to accept current prices, and that much better prices may reasonably be expeeted before the erop year ends.

$\mathrm{M}_{\mathrm{i}}^{\mathrm{n}}$Jens Neilsen, the inventor o
he Alexandra cream-separator
has on exhibition at the worlds milking-machine that promise to become one of the uost ralnable implements used in the dairJ. It is shown to dairymen on its merits, as practical tests are given every day. The machiue does not make use of milking-tubes or any uction apparatus, but is constructed on an entirely different principle. The oper ation of the machine is described by the

In this machine, all four teats are milked simultaneously by two pairs of elastie and featheriug roller segments, having rocking, approachiug and receding movements. The teats are squeezed from the upper ends, or roots, down to the bottom. When one pair of the rocking segments approach ach other, squeezing the two teats on the egmeuts, on the left side, recede from segmeuts, on the left side, recede frou
each other, aud rice rersa. The operator turns a haudle, situated an arin's leugth from the right side of the cow, and con nected with the main shaft by a flat link hain. The machine rests in a self adjusting frame, suspeuded on the cor,
and is not affected by any morements the and is not affected by any movements the
cow may make during the milking. The machine is put in place in a few second and removed simply by a turn of the hand. The milk flows through a funnel into the milk-can, and the operator is thus able see when the cow is milked clean; that When no more milk flows.

Iae department of agriculture, in the July crop report, states that it has cecired many requests-some some through foreign legations in Wash-ington-for information in regard to this ear's forage crops in the United State Chese communications refer to the grea shortage of hay and forage crops in Europe,
especially in Frauce, and give evideuce hat there will be a very large foreign de mand at good prices for baled hay. It also states that hay is selling in England a from $\$ 45$ to $\$ 50$ a tou. Iu France there is dauy seatity of hay and forage cropstered and it seems probable that there will soon be an increased foreign demand for Amercan meats in addition
The American hay crop suitable for baling and export is not an unusually great ne, but a large part of it cau be made available for that purpose. Every year an in this country. Good, bright corn fodder is excellent food for cattle and horses. Let be saved and substitnted for the grade of hay suitable for export. New England farmers traveling west ward express anazement at the enormous wast orage crops. Let them be saved, and let the export hay bring back some of hat gold we sent abroad a few months ago.

$\overbrace{5}^{T}$T appears, after all, that Congress under stood public opinion on the Sunday opening question better than the local beeding the thousands of petitions pre seuted to it, made the appropriation of two and a half million dollars to the Colnmbian be opened on Sunday. The local directory, assuming that the gate receipts would be argels increased by an enormous attendance of workingmen with their families
on that day, opeued the gates on Sundar.
Their experiment demonstrated people are decidedly upposed to a Suuday exposition, and decidedly in favor of a day of rest from ordinarr labor. The Sunday atteudance, never nearly so large as anticipated by the directory, dwindled fron eek to week until there were only about employed on the grounds. Sunday opening turned out to be financial failure. Almost unanimously the directory then decided to keep the gates of the fair closed on Sunday. This action has called forth the approval of the people. Public opinion is now unanimou in desire and determination to make the weekly attendance so large that the expo sition may be as great a financial success a position itself, it is indescribably great

©NE year ago a thrifty Ohio farme
told us he was realizing a dollar. bushel for his rye by converting i his statement. The ho guesswork about contract, and every week the scales tol how many pounds of pork were made from

It is reported that farmers in the North est are now feeding their wheat to thei hogs, and expect to realize twic: its marke value as grain. They are fortnnes 11
haring the hogs to feed it to. Many of the haring the hogs to feed it to. Many of the farmers with fifty-cent wheat on hand are
without the hogs this year and cannot follow the plan.
As to the ralue of wheat as stock food there is no doubt. Under farorable circum-stances-that is, with thrifty hogs from clover or good pasture-a bushel of wheat will make twelre or fourteen pounds sider wheat one of the best and cheapest foods for fatteuing sheep. For feeding young, growing animals it is worth mucl more than corn. And when fed with care wheat is a most excellent food for work horses. Farmers who have fifty-cen wheat which they cannot hold for bett prices should not hesitate about feeding it
to stock. There is uo better graiu grown for that purpose.

THE process of aerating milk is being introduced to general use through a everal kinds of aerators on the narket, but the principle on which they work is

The milk, as soon as drawn from the cow is made to flow in a thin, wide stream over a series of horizontal tubes, through which cold water iscircnlating. The sudden cool ing of the fresh, warm milk to about forty five degrees temperature so retards the de relopment of the bacteria whicl, causes the souring of milk, that it keeps perfectly sweet for one or two days longer than it does when haudled by the usual methods From tests made it does not appear tha makers, but it is of great value to the dairyman who sells fresh milk for house hold use, whether he retails it himself, or sto city dealer.

Aenterprising firm engaged in th building of improved portable greenhouses, also makes a busines of furnishing them with special collections of suitable plants. To the patron giving an order, they can turn over a practical greenhouse furnished with a fine assort ment of choice plants

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## POTATOES-HOW TO GROW AND HANDLE A

THe gemeral interest that is manifested by farmers in the busi-
ness of growing potatoes is easily explained br the fact
that while the arerage value of that while the average value of
an acre of corn in the United States during the decade ending with 1889
was $\$ 9.47$, and that of wheat was $\$ 9.95$, the Was $\$ 9.47$, and that of wheat was $\$ 9.95$, the
arerage ralne of potatoes $\boldsymbol{i}$ as $\$ 38.34$. Aver-
ages are alwars low, and just as nearly all ages are alwass low, and just as nearly all
good farmers obtain double the arerage receipts from an acre of corn, so do our
successful growrers often secure double successful growers often secure double
and eren treble the arerage receipts from an acre of potatoes. Such receipts are an inspiration in an era of small profits from
the farm, and while we find men erersthe farm, and while we find men every-
where beginning to make a trial of this crop, it is a matter of some surprise that the national acreage remains so small. Sereral things conspire to prevent ex
cessive overproduction of potatoes. (
Soil. Unlike wheat, corn and grass, Soil. Unlike wheat, corn and grass, pota-
toes will not thrive in three fourths of the tilled soil of the Cnited States, and prob-
ablr could not be brought to a state of ably could not be brought to a state of
profitable production in nine tenths of the area, eren if all else were favorable. (2)
Climate. Coolness and moisture are essentials. The potato comes into its fullest
development only in northern latitudes. (3) Marketing facilities. The crop is bulky and weighty, and drawing in wagons any
great distance is out of the qnestion. Howerer, the rapid extension of transpor-
tation lines is dereloping new territory tation lines is dereloping new territory
fast. (4) A prearalent feeling among those who are nnused to the crop that the work
of harvesting and marketing is too great to be undertaken. As I grow from 1,500 to
3,000 bushels a year, I hope to be able to 3,000 bushels a year, I hope to be able to
show that this last hindrance to undertaking the growing of potatoes is not a It is true that the soil, climate and marketing facilities should be good. A rich,
sandy loam is the best, although good sandy loam is the best, although good
rields may be gotten off some soils that are dencient in sand. I hare grown be-
tween two hundred and tbree hnndred
bushels per acre on land that had a far too bushels per acre on land that had a far to
great per cent of clay in it to make it great per cent of clay in it to make it a
typical potato soil. In such cases much
depeads upon the treatment of the land and the mode of culture. As loose soils, tillage if ther be moist enough for this crop, I will speak of the node of handling more compact land, with which the majority hare to deal. to give an ideal seed-bed for potatoes, and it is good; still, if the ground is hearils
manured while in clover so that the store manured while in clover so that the store
of fertility is sufficiently great, a compact
soil will be in better shape for potatoes if a and the potatoes grown the next jear. The ground is rendered looser, the sod is more perfectly rotted, and the tubers will be smoother and finer. Bnt this rotation I can recommend only when tbe soil is made
rery rich. Otherwise I would trust the first year after clover.
As to the depth of plowing there is no
fixed rule. Much depends upon the soil. In compact, clarey loams I do not wan the sod turned much deeper than I can pulverize. For this work the disk or cutaway harrow is the best implement of
which I have any knowledge. Thorough pulverization is needed to insure an eren pulverization is needed to insure an eren
stand and get a rapid growth when the stand and get a
plants are joung.
I use large potatoes almost exclusirely
for seed, and two reasons are sufficient. for seed, and two reasons are sufficient.
) The large potato gives more substance in each cntting to feed the one, two or
three eyes in it. (2) The small potatoes, While many are rigorous, and small onl5 because ther set late, contain all the runts in the crop. I have watched the digging closelए, and often find a hill that contains only "seconds" in size-a lot of dwarfs or
runts. These falling into the class of runts. These falling into the class of
"seconds" increase the percentage of "runout" stock at an alarming rate. Withal, I hare gotten most satisfactory sields from
"seconds," and it is often true that the ri"seconds," and it is often true that the ri-
tality of the stock is rery slightly impaired
for for rears. Ms one serions objection to
Iarge potatoes for seed is that when cut and placed in the ground there is always danger of rot. Excessive rains followed by crop hearily. But eversthing considered, I prefer large
drained land.
It is a well ascertained fact that hand planting in marks made by a narrow and deep-running shorel is safer than machine
planting in all compact soils. There is better drainage for the seed pieces and less injury to them. In dry and loose land the planter is a success. By either method the three dropping, and one corering with a two-horse cultivator can plant four acres a day easils; or one
do the same work.
Careful, deep and close tillage should be given when the plants show abore ground. If beating rains come this should be re-
peated before the plants are four inches peated before the plants are four inches
high. Then the cultivation should be shallow. Any light-running implement with sereral teeth or shovels to break the inches of earth, is all that is needed. Until the rines entirely fill the middles I break the crust after every rain, and keep the hills clean of weeds. Ererything possible
is done to retain moisture. Two men with cultivators can run through twenty acres Within two days after the ground dries,
and this is sumfieiently soon. For this work when the plants nearls fill the row,
one-horse cnltivators of perfect construction are on the market at a small price.
The harresting and marketing can be done cheaply only by those who under-
stand the business. When handling potatoes the eye must be quick and the fingers nimble. Haring grown tens of thousands bushels I confess to a liking for this work that scares so many woutd-be
growers. Where labor is plenty and the men are skilled, potatoes may be dug with hoes or forks, sorted or drawn a mile to
the cars for fire cents a bushel-this, prorided the yield be good. Some of the cheap diggers on tbe market do fair work;
then there are expensive diggers tbat do rapid and perfect work, throwing out four acres of potatoes a dar. If the digging is stems rotted off the tubers, and if the crop serenty-fire bushel boxes a day with marketable tubers
Too little care is often used in preparing potatoes for market. Al sten2s and absolntely no litter be allowed to remain in them. Appearance is the chief factor in
effecting a sale. All the "seconds" and feeding potatoes must be left out, as they ruin the sale of tbe others. It is folly to crop to sell for less than the marketable potatoes would bring alone. Rough, scabby markets, and consumers cannot be made to buy lots containing them only by sacrificing much in price.
hen stored is yery heayht of potatoes
usually disappointing for this reason. The
first heavy shrinkage comes within a fer weeks after digging; the next when sprouting begins in the late winter these times. I have carefully tested the matter, and find that potatoes stored late in the fall, and many weeks after digging, will lose sereral per cent in weight before auy sprouting begins or any handling is necessary. For shrinkage from fall until the first of May I allow 20 per cent, expecting this to corer the few that Unless one is accustomed to the care of potatoes in the winter it is always a good charge for marketing help to mate smal price profitable.
All mention
All mention of rarieties, fertilizing and this time but before anotbo plat at this time, but before another planting some suggestions in regard to these points. Darid.

## WHAT THE BULLETINS AND PAMPHLETS

 SUGGEST.Doctoring Avtrats.-Bulletin No. 43 of the agricultural experiment station of Alabama (Auburn. Alabama), coñtains treatise on "Eye Diseases of Domestic Animals," especially of the horse and mule. and mule owners. The treatise is written in language well calculated to be understood by the layman, and the text made still plainer, where thought desirable, by diagrams and illustrations. It cannot be my purpose to go into or quote the details of eve diseases, but I wish to call attention in a general way, to the matter of "doctor ing" animals as a sore spot in arerage farm
life. Usually it is connected with an astonishing amount of prejudice and lack of common sense, and often of cruelty. With all the boasted progress and adrancement bronght to bear npon the discorers of the primary causes of human diseases and their treatment, we have to deplore the whole field of human disease is too Tide that any one person could become acquainted with every inch of ground, consequently the arerage practitioner has to feel his way, more or less, in the dark,
trying one thing and then another, and often doing more harm than good. If thi is the case eren when the patient can talk, aid then his aches and pains and the disease, we tust cerpect eren greate ignorance concerning diseases and their treatment when the patient is a dumb animal.
Tes, doctoring animals is a difficuit and ofteu an unprofitable thing. Some time ago some Dorset-Horned sheep were
affected in a peculiar manner, breaking out in great sores orer the body, especially on the back. They refused to eat, gradually
ran down, and with one or two exceptions of recorery, finally died. I tried my best to find out what ailed them, but all to no arail. All the consolation I got from exto doet sheepmen ras, blindly in such matters, trying this and that remedy, hit or miss, you are far more likely to miss it, and thereby do damage, disadrantage. Good reterinart surgother are scarce, and their serrices come high. Poor ones are more plentiful, but they charge a good deal for telling what they don't know, and for giring medicines that may do good and are more likely to do harm. Often the owner of a sick animal finds himself face to face with the alternado the doctoring big expense and lose tbe animal in the bargain. Usually an intelligent persou can do modern by consulting and stadying good tic animals, and be guided by tbeir instructions, than by calliug ou tbe ordinary country towns. When it comes to surgical operations, howerer, I am opposed to home treatment. Don't be too free with the knife on a dumb brute. When operations are needed, by all means emplos good specialist, unless the case is one like bloat in cattle, which requires prompt action. In ordinary diseases, howerer, the farmer has one chance too good to be negected. Almost everyone of our leading agricultural papers now employ a surgeon of high standing for the benefit of its sub-
scribers. Tou can make a statement of the case and send it to him. The inclosure of a small fee (usually 81 ), insures a prompt
reply ly mail. If you will wait. howerer,
until the repls can be printed in one of the next issues of the paper the information will not cost yon a cent except postage on feature of agricultural papers that alone should induce every owner of farm stock
to subscribe for one or more of them. At the subscribe for one or more of them. At should neglect to arail himself of the literature on the subject of animal diseases so freely distributed by experiment stations and the department at Washington. A plan still better, howerer, than making preparations to "doctor" animals, is to who them healthy surroundings and attacks. The following is a quotation from the bulletin in question
"The drainage, rentilation and light in most barns are sadly neglected, and generally rery defective. The barn is usually resting on the ground, and the stalls are filled with clay, which becomes saturated with urine. The clay allows rery little moisture to pass through it; the urine Which falls upon it, and with which it be raporation. With little rentilation or
eratur drainage below it the clay rarely becomes dry and the atmosphere of the stall is saturated with unhealthy gases (ammonia tc.) from the fermenting urine and decomposing organic matter of the feces. Such unhealthy conditions can be greatly im-
proved by following the methods usually proved by following the methods usually adopted in building houses in this climate
The floor of the barn should be from two The floor of the barn should be from two
to three feet abore the ground. This may be accomplished by making the brick or stone pillars for underpinning the required height and using strong plank two inches thick for flooring. Latticerrork free circulation of air under the barn and prevent the use of the basement for a dog house, pig-pen, or as a place for forls This will give good, cheap drainage below rentilation of the box-stall (the best and healthiest kind of stall) should be so arranged that the hot and light air may escape through an opening or a series o openiugs in the upper part of the outer
wall. Similar openings should be located in the oute wall, near the floor, to allow the heary gases (carbonic-acid gas exhaled by the lungs, etc.) to escape. Besides these openings, lattice box-stall doors and lattice outer hall doors and windowsshould al ways e in. use for snmmer rentilation. There may be objections to standing a horse on a bedding or littering the box-stall, by occasionall $y$ soaking the feet in water, and when nearly dry, oiling them with an ointment made of one part of pine-tar to eight or ten parts of lard or cotton-seed oil. The ight should enter from bebind or from ranged and of sufficient quantity to enable the horse to see distinctly in all parts of the stall.
Horse owners often surround their an imals with all sorts of untrholesome conditions and then expect them to remain rell. The matter of pure water and seasonable food deserves more attention than it generally receives. Under some circumtances cora may be useful, but it is not a ummer food nor an article for constan use. It is extremely doubtful if corn for
colts is ever adrisable. Corn is too stimcolts is ever adrisable. Corn is too stim producing material. For drinking, all surface water from ponds, brooks, rivers spring water, take spring, filtered rain-water or other kinds of filtered water, or water from deep wells are best, and less liable to contain diseaseproducing germs.
To condense the whole in a few words rould say, put your horses in healthy surroundiugs, in pure air and good ligbt and you are doing your part in preventing disease. This applies with equal force to all other domestic animals, down to the
smallest cbicken. mallest cbicken.
Cocstry Roads.-Perhaps this question has almost been orer-agitated. While it is
true that our arerage roads are bad, and that an improvement iu their condition sadly needed, yet it is also undeniable that in a new country we hare to go step by tep, and that it is unreasonable to expec roads and road systems orer all tbis extensire country that we find in countries ten times as densely populated, and after cenuries of road-making. Neitber will any
mureasonable demands of some interested parties who propose that vast sums of money be borrowed and expended for public roads by the states or the national government. There is one thing, however, that could be done by state or local anthorities; namely, instruct road commissioners and road overseers the best ways of laying study of a treatise such as "Country Roads," a copy of which the Rural Pubishing Co., of New York City, has sent me for inspection (price 20 cents), will be a great aid to road-builders. At any rate it is refreshing, after all the stuff that has been written on the bad condition of our conntry roads, and the need of their improvement, and the various more or less absurd schemes for getting the means for such improvement, to fud at least are of use in the every-day practice of road-making
T. Greiner.

## pLAIN TALKS ON TIMELY TOPICS.

The question of obtaining competent farm help is becoming a serious one with us in the East. Not skilled farm laborers, for these we do not expect to find at any price we can afford to pay, bnt common, Ninety-nine of the hundred men obtained through the emigration burean at New York are interly worthless for the purpose. If they know anything at all of agricnlture they are bound for the West to work with friends or to take farms of their own. We have hired men of brawn who claimed o know considerable about farm work, and found them of about as much use as an uncivilized Indian, and they invariably take refnge in their inability to understand English when brought to task for the deception.
It had ever been a pet theory of mine that if I could get some of the native-born Americans whom I knew were scarcely able to keep body and sonl together in
New York, ont to the farm, that I would be able to train them for my purpose and be doing a charitable act besides. I looked up a young Irish-American who had worked in my neighborhood some years previons, but who had drifted to the mehim engaged as a helper in a livery stable, and living with a wife, child and mother in two dark rooms, snch as are seen only in New York tenement blocks. His wages were nine dollars a week, and his home
surroundings gave every evidence of a surroundings gave every evidence of a
hard struggle to make ends meet. To hard struggle to make ends meet. To
shorten my story, I took him into the conntry, giving him a small but comfortable honse to live in, a patch of ground of abont half an acre for a garden, furnished him with a certain quantity of vegetables and fruits per week, together with a stock of poultry from which he was to have all
the increase and all eggs, and paid him the increase and all eggs, and paid him good wages in addition. By dint of much coaxing and other methods I kept him two years; then he went baek to the city, to the long henement-honse rooms, and my dream of philanthropy was ended.

[^2]boys? I linow that a vast amount ny subject, but isn't it wor'th an abundonce of talk, and strong talk, too? There are ways and meaus of accomplishing the desired purpose, bnt they must be used snbject to circumstances and conditions, and ject to circumstances and conditions, and
these are best known to each individnal parent. There are many of the fascina tions of city life which might be intro dnced in to onr conntry homes, in a modified form, perhaps, which would be attractive. Hondreds of little things might bo done which could make an aggregate most powerful. The question is wortly all the thonght and study we may give it, and the better for all conccrned. If you are in clined to attempt the reform, friend remember that the "burden of the song" of complaint as let out by our dissatisfied young people is hased on what they term "the drudgery of farm life." Study the phrase in all its bearings before you begin your work of reformation. If yon take
hold of the threads properly the task before yon will not prove as difficult as before yon will not prove as dificult a
you now anticipate. Barton Hall.

## THE LAWN AND ITS CARE.

There is scarcely any other one thing that adds morc to the attractiveness of a home than a neat, well-set, well-kept lawn.
The homcliest cottage appears trim and cozy if surrounded by a velvety carpet o living oreen, while the most imposing
mansion loses half its graudenr if hedged in on all sides by a sea of grass and weeds.
The tall, unsightly growth not only dotracts from the appearance of the place but it is undesirable under any circum stances. No flowers or shrubbery, howadvantage with such surroundings.

- Of late years therc lias been a marked improvement in the care of lawns, and one rarely sees a city or villagc home withont its complement of closely-cnt, green sward. In country districts, too, more
attention is given to the lawns than was formerly thought nccessary, though one will find many unsightly honse-yards in day's travel.
A mistake very frequently made is that of planting too much near the dwelling. Trees of all descriptions, shrubbery with ont limit and vines undesirable arc planted
in utter profusion, mingled and comin utter profusion, mingled and com-
mingled, until a few ycars' growth makes a veritable thicket of the premises, and a lawn is out of the qucstion. In planting a place, the future size and development o a tree or shrnb must be taken into consideration, or too dense a growth is likely to be secured.
I think it is a good plan to have fer large trees very near a dwclling. Sunshine and fresh air are cssential to health, and too many large trecs surronnding a house will prodnce too much shade, overmoisture and are therefore not desirable. Two or three large trees to the southwest, not nearer than two or three rods, will break the force of winter winds and keep off the large trees to the sonth, west or north, if several rods from the building, is quite desirable, but an eastcru or southeastern
exposnre is desirable under most circumstances.
If trees arc to be planted, there is con siderable room for choice. The elm is a favorite with many, becanse of its almost certain growth and its early growth of foliage in spring. The sugar maplo has growth its highly-colored foliam in an tumn and possible future usefnluess in the production of syrup and sugar, but its dense growth of top branches makes it an easy victim to wind-storms. The walnut makes a desirable shade and a crop of nuts out, early to cast its foliage in late to lea dropping as it dos flic in autumn, and dropping as it does the leaf stems also,
makes much litter to be gathercd up. The ash is symmetrical in form, but late to leaf. Among evergreens, the spruce is a
favorite, being readily transplanted, of rapid growth and always beautiful. Bu do not hide your house behind a-large number of evergreens of any kind. The balsam fir is also handsome, as is the Irish juniper and red cedar. But do not plant Austrian pine very near the honse.
For flower beds, find a place, if possible near the margins of the lawn, and thus ially in front of the dwelling.
If the yard is carefully graded, properly evened, well drained and receives proper treatment, there will be little difficulty in secnring a good set of grass, and this, if
cut wcekly during the spring and early summer, will stool out and cover every luch of space. By cutting frequently, the grass may be left on the ground, where it soon withers and becomes a natural fertilizer for the future nourishment of the plants
The holes or depressions may be filled in the spring with fine soil, and the grass
will soon find its way to the surface again. During protracted dronths a force-punip and hose are essential in the country where the advantages of hydrants do not exist.
In antumn it is well to permit the grass to make more adranced growth, as it is winter. Whilc a coating of stable manure is sometimes desirable in securing a good set of grass, as a winter protection and fertilizer it is undesirable, because of its unsightly appearance. A growth of grass, the sowing of ashes or commercial fertiizers is preferable to sccure growth
Of course, a lawn-mower is a necessity
for no one can make a scythe accomplish
the work in anything like a decent manthe work in anything like a decent man-
ner, and in this day of horse-mowers few can handle a scythe at all, while the boys and girls will delight in pushing a lawnwill last many years with little or no expense.


## MEETING OF AMERICAN <br> NURSERYMEN.

Althongh there were prominent nurserymen from all parts of the country in
Chicago at the date fixcd for the eighteenth Chicago at the date fixed for the eighteenth
anunal meeting of the American association, the attendance at the opening session showed that it was impracticable to carry out the elaborate program arepared by the secretary, Mr. Charles exposition were too great to be resisted by those whose time was limitcd, and afte the opening day and a short session the indefinitely postpone what remained of orer a week's assignment of work.
Of the numerons papers adrertised, only five were presented, and only onc or two discussion. The one topic that was disenssed at length was the importance of uniform freight classification of nursery stock. The western nurserymen were especially interested in the question, be-
canse western shippers are obliged to canse western shippers are obliged to than five dollars per hundred pounds. If these terms are not accepted by the shipper, the goods are put into a different classification at a higher rate. What the association desires to accomplish is to have thronghou
Perhaps one of the most interesting papers was on "Our Coniferous Forests," Douglas, of Waukegan, II1. He said that in 1837, in traveling from Quebec to Niagra Falls, forests were evcrywhere in sight Farmers were girdling the trees and grow-
ing crops among the dead pines. During the spring of 1814 he traveled through the rirgin forests of Michigan, northern Wisconsin and Minnesota, and could scarcely imagine that pine lumber wonld ever become scarce in this conntry. In 18+9, in found more forest in the first four miles from the shore of Lake Michigan than lie fonnd all the rest of the way to the base of the Sierra Nevada monntains, and was then convinced that the time was not far istant when the conntry would regret the wholesale destruction of its moble pine orests. Twenty-five ycars ago mauy magifcent conferous forests were to be found but the ax and the fires are rapidly destroyng them, and the more valuable
will never grow there again. Coniferons orests will stand where other inore val uable species of the same family have heen swept away. The same fires that destroy
every restige of trees and seeds of the valuable evergreens will open the persistent cones of the scrub pines, and they will take the place of what has been swopt table to compete with the coarser kinds. They are scorched and killed if the sun reaches the seedlings the first year, he noble wed woods once known to exis do not to-day number over one hundred. Mir. Douglas closed his paper by stating he discovery of this contineut there will
be choice evergreeus in America; but, like the buffalo, the elk and the antelope, they will be co
grounds.
The following officers were elected for the ensuing year: President, Col. W. H. W. F. Heikes, Huntsville, Ala.; secretary, Seager, Rochester, N. Y.; treasure Whitney, Franklin Grove, 11
The next aumnal meeting will be held at Viagara Falls.
home culture.
A boy alout sixteen years of age, oll a
large farm, was looking forward in the tall o a dreary winter. He was poor and obliged to work when he ought to be in school, and must do chores, milk, feed stock and cut wood through the long winfir but not educated and not interested in
education, had no books, and only a daily paper bonght once or twice a week when he went to market. Therefore the outlook was not inviting. Chores and wood-cnt
ting from four in the morning nutil seven at night, sitting by the fire awhile and the at might, sitting by the fire awhile and
to bed; that was to be the daily ronnd. But before winter came something hap the fall work was done one of the hired the fall work was done one of the hired
men went away. In the room of the man men went away. In the room of the man
was fonnd a book. The farmer gave it to Frank, the boy ref ave could make nothing of it. The book was printed in a foreign language, but the one word in Washigtou, showed Washing ton or the city or a story or Washag bccame interested in the book before he knew what it was; he studied it-that is, spelled ont the words, for the letters wer Euglish, or the same as English-every evening, and found at this stage life les monotonous. But the desire came, followed by the resolution, to find out 'what he book was, and if possible, learn to read But how?
One day the farmer sent Frank to marke it an all day job, Frank started earlier than usual that he might have time to find out about the book. He learmed that the book was a
history of George Washington in French Several wecks went byowithout bringin any help. Oue rainy day the farmer gav Frauk a holiday if he would go to town and get a logging-chain mended. On this trip he learned more about the book and the French language, bought a second-hand French grammar and a dilapidated dictionary, for he had little money. To make ashort story, Frank read the life of Washington in French before spring, with occasional help which he obtained from a teacher of Freuch when he was sent to town.
There may not have been anything remarkable in this, and the reader may say that he might have been studying say that he might have been studying
something more profitable-immediatcly something more profitable-immediatcly way at the time and it answered the purpose, made the winter pass quickly and this was ultimately protitable for the boy
It woke him up intellectually. He had not been to school much, but now he took up other with great earnestness and speed nutil he becane a teachcr and a lecturer, Ho gires the credit of what he is or has
done to the little French book that came
into his hands. into his hands.
There are many boys and girls on farms
situated as this boy was. Let them take up some study and stick to it, if for no other purpose than to quicken the mind,
for there is no donbt that a man with a
quick, active, eager mind can carry on a farm better than a mau of the opposite
characteristics. It is hard sometimes to apply tho mind to anything new. The
mind sometimes is like the stationer's
gliee glue; at first it will not stick, but if pressed
down and held a little, it takes a firm hold.

## Life and Strength



Hood's Sarsaparilla
Hooo's Pilts Curs Sick Eleatache. 2:

## (9)

PARDEN AND FIELD NOTES tato-beetle avd Blights.A year ago $I$ was in hopes that
the natural enemies of the potato-bug had nearly suc-
ceeded in wiping out the bug ceeded in wiping out the bug nuisance. Surely, there were only few bugs on our the use of Paris green. This rear they hare returned in probably we shall always have them with rigorously. The dry mixtures-slug-shot, plaster and Paris green, etc.-are all right, if the Paris green is all right, but
you must see that the vines are kept corered. If you make yourself guilty of a
little neglect, or happen to get a poor lot of Paris green, you may all of a sudden find rour tines covered with slugs and partially leafiess. A close watch of the patch and

When we thus happen to find a large number of undesirable visitors on ou vines, we can to some extent stop the mis-
chief at once by going over the patch with pan and paddle, gathering the bulk of the slugs, and killing them by pouring a little water and kerosene on them. But in order
to do thorough work, weshould not neglect the use of Paris green. It is easily and quickly applied in water with one of our is hom much poison to use. I have often adrocated weak dilutions-say one pound of green to one hundred gallons or more of
water. Eren then some injury to the water. Even then some injury to the
foliage was unaroidable, while the effect on the bugs and slugs was often not as
prompt as we would wish. Now we hare learned that the addition of a little lime to the water will prevent all damage to the
leares, while it does not interfere with the leares, while it does not interfere with the
poisonous effect of the green on insects. It would do no harm, either, and might do good in checking the regular rot-blight (blue vitriol, or sulphate of copper) to the the "diluted Bordeaux mixture" in place of clear water as a dilutent for Paris green The rot-blight (Phytophthora infestaus), howerer, is not a regular risitor, and $X$
beliere that preventive treatment is not usually required, while the curl-blight (which, being as yet unidentified, is un-
fortunately compelled to worry along without a scientific name) seems to be proof against any and all the fungicides thus far tried for it. This curl-blight has made me its annual visit for years, and the crops in spite of all I could do. For this reason $I$ bave concluded to quit using the Bordeaux mixture on potatoes, and
now make my spraying liquid as follows:
A barrel is filled with water. Into this $I$ A barrel is filled with water. Into this $X$
throw a quantity of lime, preferably freshly-burnt-say four or six pounds. When it has slaked, the water is stirred
thoroughly, and the lime allowed to settle again. Now the clear liquid is dipped off into the sprayer, and about an eren tablespoonful of Paris green (first made into a sprayerful of the liquid. Don't mix the Paris green with the lime-water in the barrel. The poison will settle with the lime
to the bottom, and in order to keep or get to the bottom, and in order to keep or get the liquid, and thus mix the coarse parts
of the lime all through. Better add Paris of the lime all through. Better add Paris
green to the clear liquid dipped off from the top.
is not quite tight, letting the liquid trickle down the operator's shoulder or back. In old rubber coat for protection. It is not
pleasant to have Paris green and limewater soak through your clothes and clear to your skin. But with the filled knapcan go over the ground pretty fast, and do
good and effective work. The bugs yield to this treatment quite quickly.
Don't forget to keep your egg-plants, if you hare any, well covered with poison; to injure them seriously.
Ashes and Lime for Insects.-D. F. Hockett, of Randolph county, N. C., sug-freshly-slaked lime, for the potato-bug. I believe that strong, fresh wood ashes sifted caterpillers, while the plants are wet with
dew, will have a tendency to dis-
courage these enemies. Ashes have often been tried with good results, but if not fresh and strong, they will fail. Lime is known to kill many insects, worms and The ordinary slug at once dissolves when The ordinary slug at on
touched by lime or salt.
drown Hockett also states that potatoes grown under a covering of hay, straw, oak tacked by the potato-bug, while the cultivated rines were eaten up close by. The explanation is simple enough. The
beetles emerge from their winter quarter beetles emerge from their winter quarters They are very hungry after their long fast, and at once hunt up pastures green. just breatiney find a plant already up, or alight and begin to feast. After awhile all the bugs hare selected their pastures, and there they are apt tostay. The later patches (no matter whether from late plantings late from being retarded in reaching the
surface by a corering of litter) are apt' to escape.
Fightav the Cabbage-worm.-The green wrorm seldom bothers me much.
Dusting with buhach or spraying (sprinkling) with buhach-water or with potash solution, splashing with hot soap-suds, caterpillers S. Fuller gives us another apparently simple remedy, and one having a lasting
effect. He advises to throw a little corninto the heart of the plant. The meal decass and emits an odor which the worm is unable to endure. The remedy is easily

Orchard and Small Fruits.
diseases of raspberries.
There is a great difference in the liability to diseases of the different varieties of the
raspberry. Some of the kinds producing raspberry. Some of the kinds producing
the finest fruit are so weak in constitution as to render them valueless for cultivation, and only those kinds are profitable which are strong and vigorous in constitution and
resist diseases without recourse to special treatment. High cultrvation will be found the best preventive of disease, but there
are three diseases that are occasionally very injurious even in the best cultirated plantations. $\qquad$ of one of the early stages of the disease. The leares curl up, and though they may remain green all through the season the fruit is dull in color, small in size, and rather bitter in taste. Later the plants kill out, and any healthy sets with which they trouble. This disease spreads very slowly, and as a rule therə are only a few infected spots in a plantation, which slowly increase in size from year to year. The spread of the disease may be prevented to a great plants as fast as they appear. In setting out a new plantation use only land that has and to take great care to have young, healthy sets. Do not accept plants from a (2)
(2) RED Oravae Rest (Caeoma lumin-
amm). atum).-This is most hurtful to the black-
cap raspberries, though it frequently cap raspberries, though it frequently
injures other kinds. It produces a weak appearance in the canes and foliage, and in the latter part of the summer the under side of the foliage becomes completely covered
with a thick coating of brilliant orangecolored spores, which easily rub off. One soon comes to know the plants that are
diseased even before the spores appear, and they should be pulled and burned at once. This is especially necossary with the black-
cap rarieties; but eren with these, if the
affected plants are destroyed, the disease mar generally be kept in check untila new plantation can be well started, and sometimes assiduous attention to pulling and
burning results in stamping out the disease.
(3) Aithracnose, or Case Rust.-Also known as the raspberry cane, rust. It
manifests itself by weakening the growth and causing the bark of the canes to become marked with many white or grayish, flattened or depressed spots, bordered by a one third of an inch in diameter. This disone third of aninch in diameter. ease seldom does serious injury to any but cap rarieties of the raspberry, and it is only
sections, and then not as being rery hurt ful. In some of the eastern states it is so ing of cap varieties. The treatment for this disease consists in burning all the infected canes and in applying Bordeaux mixture
to the new growth occasionally during the growing season, commencing early

## QUINCE CULTURE.

In addition to the ordinary use of the quince for making jelly, preserves, etc., it canned fruit. For this purpose it is but little behind the Bartlett and White Doy enne pears, and is superior to the much talked of Kieffer. There are but few varieties of the quince. The be Orange of Apple-shaped, which is an excel lent fruit. The Pear-shaped is not so large,
and differs in form, as indicated by the name. The Portugal is a fancy variety, the flesh of which becomes crimson when it is stewed; but

## its pather hght yteld

Is against it. Rea's Mammoth, a variety which originated in southeastern Ne has been reintroduced recently, is very large, but the most unproductive of all fruit-trees tested here, not excepting the Nivette and Emperor of Russia peaches Champion, from Connecticut, is doing bet ter than it did at first in the central west but is hardly satisfactory yet; Fuller and Meech's Prolific, brought into notice in Torthy of attention Jissouri Jammoth is but little known east of the Mississippi The Missouri state horticultural societr makes farorable mention of it in the report for 1891. The Angers, which originated in the French city of that namehalf a century or so ago, is used extensirely as a stock for dwarf pears, for which its strong growth specially fits it; the fruit ripens later than
the Orange, is smaller, not as round, and is hardly as good.

THE PRINCIPLE OF VARLATION
Implanted in the constitution of fruits generally, and to which we are indebter for all the finest cultirated kinds, seems less pro
nounced in the quince than in the other nounced in the quince than in the other
large fruits. As a consequence but littl has been done in the way of planting seed to produce new rarieties. An exception to this is found in the labors of Mr. Burbank of California. Among other things he has succeeded in producing some choice quinces. Two of these, named respectively free from the usual Rosa, are said to be o agreeable when eaten out of the hand.

## DEEP, RICH SOIL

Moist, butby no means wet, is most suitab for the quince. The drawbacks to its cultiration, apart from thin soil, are the twig blight, that affects some varieties of apples, and which injures the quince in some localities; and one of the apple-borer trunk. The first resembles the pear-blight but rarely or never kills the tree. The
remedy is cutting off and burning the diseased shoots as soon as observed. As to the stem of the tree will show whether or not the borer is present; and if so, cutting out with a knife or probing with a wire are large sections of country where there troubles are practically unknown.-R.J.B.,

## COAL ASHES FOR FRUIT.TREES.

 You wish to know what I thought of coal cinders and ashes as a mulch for fruit-trees In short, I like it better every year. I way. $I$ beliece when it is understood andput into practice it will be a grand success put into practice it wis item is given to draw out the opinions of others on belief that a mulching of
tion favors the bene
coal ashes and cinders is a benefit to what coal ashes and cinders is a benefit to what
we might call cold-blooded trees and bushes, such as the apple, pear, cherry, son that it keeps the soil cool and moint
above the roots. On the other hand, it would prove a positive injury to the grape, the peach and all shrubs and fruit tha
thrive best in a warm soil and warm air.-
Rural Life. Rural Life.

## INQUIRIES ANSWERED

Slugs on Strawberry Leares.-A. L.


Way, at the rate of one pound to one hund red
and fifts gallons of water, I think it will de-

##  







 from setting more fruit than the plant and
soil could carry, and in fact, from anything
that weakened the plants.

## VAPORATING FRUIT Full treatise on improved methode, Ilelde, pro <br> FRUIT EMMPOBATOR



## EVAPORATIMG FRUIT

 STAHL'S EXCELSIOR EVAPORATORFRUIT EVAPORATOR.



## "Crystal"



The CRYSTAL CREAMERY CO

## (OIII fiurm.

## FIELD NOTES OF A GARDENER.

Timplement for hand cultira tion. It was sent me for trial wo weeks ago, bnt I have been ing of strawberries that I have had no time to more than look at it. It is called a "rotary cultivator," and in principle and action it is exactly similar to the wo-horse disk harrow or clod-crusher. consists of a frame about two feet long hav ng a cast-iron wheel one foot in diamete in front, and two sets of disks near the rear The disks are about six inches in diameter, and there are eight to each set, being placed about an inch apart on their axis. One is placed in front of the other, and they are adjustable so as to stand at an angle, and they can be shifted sideways so as to cover fourbetween, as is desired. It has two handles like any wheel-hoe, and its method of use is exactly similar to the lawn-mower. Th inventor makes the following claims:
"First, simplicity of construction." laim is well founded.
"Second, the cutting parts of this cultiator having a rotary motion, two thirds of the friction of the ordinary statiouary tooth cultivator is overcome." This is
also true. It is much the easiest hand culalso true. It is much the easiest hand cul-
tivator to use of any I know of. It does not run more than half as hard as a twelve inch lawn-mower.
"Third, it cuts and covers the weeds." This is only true of very small weedshigh.
"Fourth, it hoes the plants or not, as the operator wishes." This is true, and in this respect it differs from the two-horse disk machine, as it can be set at an inner as well as an outer angle. This fourth claim
should be qualified by the nature of the should be qualified by the nature of the
plant to be hoed. A narrow, straight plant, like an onion, will permit the machine to go close enough to throw a little dirt up to it; but broad or bushy plants, like the strawberry or the cabbage, will be injured by the cutting or mangling of the foliage if an effort is made to go close to the stems. In working around strawberry-plants it leares four or five inches square that must be completed with a common hoe.
"Fifth, it thoroughly pulverizes the soil to the depth of two inches, learing it light and porous for the action of the air and and dry where this claim can be made and dry where this claim can be made good. On my soil it only runs about an inch in depth; but this I consider deep
enough, as most gardeners expect to do the enough, as most gardeners expect to do the
stirring of the lower soil by horse-power.
"Sixth, it can be used for hill or level
culture, at the option of the operator." By
running it along one side of a row and running it along one side of a row and back the other a number of times, a slight the plant, but not to the extent that it should be called ridge culture.
"Seventh, it can be used closer to young and tender plants without disturbing them is true. I worked quite close to parsnips that had only been up a week, and which were not more than one fourth of an inclı wigh.
"Eighth, it is a most convenient implement for cutting strawberry runners." It will readily cut young and tender runners, and where such are present during culti-
vation it will save removing them by vation it wil
other means.
I have been thus careful and particular in discussing the main claims of this little implement (which weighs no more than a bucket of water, or about twenty-fire pounds), because I really believe application of a correct principle in hand cultivation, and just adapted to some kinds of work. To-day I cultirated five thousand onions planted in rows about fourteen inches apart, in less than half an hour, going three times in each row. It hare done the work with an ordinary hoe. I also used it among the strawberries. They are set four feet by eighteen inches. The wide way we cultivate with the Planet Jr. by horse, and by using a very
narrow tooth on the back end are able to narrow tooth on the back end plants. This leares a strip about four inches wide which is uncultivated between the plants. I run the rotary across the rows between the
plants, running it wheelbarrow fashion from one row to the next, and only used the disks between the plants. I pushed it
forward, then drew it back a foot and
shoved it ahead once more (it works back whord as well as forward), using the same motions that a person uses in mowing with a lawn-mower the edge of a narrow terrace. In this way I thoroughly pulverized the spaces betwecn the plants at a
rapid rate, killing any incipient weed growth started beneath the surface. I am satisfied that a man in this way conld
cross-cultivate an acre in a day and a half, cross-cultivate an acre in a day and a half, method it takes four or five days.
The plants are not sct in rows across, but the machine can be zigzagged in either way as easily as a wheelbarrow.
Now, I have no interest in the sale of about it, but will notify the inventor of my liking for the implement and advise him to advertise it in Farm and Fireside and the leading horticultural journals before another gardening season comes around
Matted Rows versus Hills.-Last year I took more thau ordinary pains with a patch of strawberries, of a little over an acre in extent. The ground was a rich
potato stubble, and I manured it in the potato stubble, and I manured it in the winter and then again in the spring, just before planting. It was well cared for and nice the summer, and was so thrify and this spring complimented me on it appearance, and $I$ hoped much from it has done fairly well, but fallen far short of my expectations. There have been a great many small berries, and many of the of it is I cannot determine the reason. My wife, who spent several hours daily in the picking-slied during two weeks of the busiest period of picking, thinks it is the result of the bad weather during bloom-
ing, and I am inclined to think perhaps this is the principal cause. At first I was inclined to think that it was because the plants were too crowded, but the rows of
Bubach and Ontario are quite narrow Bubach and Ontario are quite narrow both was imperfoct. I believe it is claimed that there is a bad-surelling little bug, a trifle larger than a flea-beetle, that sucks the juices of the berry in its early stage but I have not noticed any abundance of these insects; in fact, have seen but two this summer. (Since writing this paragraph I have made a very careful examination of several rows, and find a good many of the insects referred to.
I have a friend, Hon. I. P. Sperry, who is one of the best amateur strawberry grow ers in the state, and a look through his
patch makes me tired of my own. He patch makes me tired of my own. He
tells me that his success is the result of a little attention every day, and that the same amount of work applied to a large plantation would not be profitable. Be this as it may, I am trying to arrange my work so as to give some of this amateur attention to a portion of the nine thousand plants I set this spring. I shall keep the runners cut, and try to give a thorough, critical iuspection every three or four days, encouraging each plant to do its best, and friend does, a yield approaching three hundred bnshels per acre.
L. B. Pierce.

## RESCUE-GRASS

Rescue-grass is an annual winter grass and is justly popular with those best famil iar with its merits. When once started its growth after successive cuttings or
grazing is very rapid. It is tender, very sweet, and stock of all kinds eat it greedily By the first of May it can be mown, the product of hay being about two tons in weight, of fair quality, besides furnishing from fifteen to twenty bushels of seed per acre, worth from two to three dollars per bushel. Like timothy, the stalks and leares are still green when the seeds are ripe. It produces an immense quantity of leaves. On loose soil, some of it is liable to be pulled up by the stock grazing on it reseed the land, though the hay and seed crops are harvested. Or if you mow it before the seed matures, another crop will spring up and mature seed to reseed the ground for another year.
After the crop is off, the same land can be sown to some other crop, such as corn cotton, peas, or any late crop. The grass springs up again with the fall rains Thus the land is utilized all year and two words, two profits made instead of one doubling the productiveness and profitable ness of the land.


If the land is not utilized for another early after the grass, it should be plowed the gronnd's surface, which will insure quicker and b.
factory yield.
Being of winter growth mainly, it is no very exhaustive to land. As it grows from the seed, either mowed a
It makes the best pasture after the first ear. It makes a verdant lawn during fall and winter, on which chickens will delight o roam and feed, insuring plenty of win er eggs. It naturally grows rapidly poor or wet land
It makes no difference how close you gather the seed, there will be plenty to fal o the ground to reseed the land, and you will have a good pasture auother season,
whether you plow or not, though it is beter to pro If the ground is brokeu after he grass fails iu the spring, you are a ured of a fine crab-grass crop, which you an either mow for hay at the proper time or graze profitably until the last of August ow the ground, and the rescue will quickly come after the first rain
In sowing seed, break your land well broadcast from August until the middle of October and sow two bushels of seed per acre, covering with a harrow. I have known good success when seed was sowu
late in Norember, but the earlier sown the better. Some parties have sown seed when aying by cotton, and some after through picking. One man claims to have sown y, and harvested twenty-five bushels of seed from the rescue.
Mississippi. Edwin Montgonery

## CORRESPONDENCE.

From Wyoming.-A letter from this part of Wyoming mas be of interest to some of your 7,000 feet. The winters are quite long and
cold. It is nothing unusual for it to snow here as late as June and as early in the fall as October. One not accustomed to this high living here. The fact is they make a much better living here than they do in many parts of the East. Nearly everyone has a ranch
and cuts from twents to five huudred tons of hay raised on irrigated meadows. The smaller and feed the most of the hay to them during winter. Milk and butter alwass bring a good
price. They also raise potatoes for market. price. They also raise potatoes for market.
Potatoes usually do well here and bring a good price. In the winter they put in a part
of the time cutting fence posts out of pitch pine, which makes much better posts than
the oak in the East. Thes are hauled to the rallroad stations, where thes hring about ten ranchmen. When the jear ends themselves much farther moad than many farmers in the East. The here, depend on their large herds of cattle and horses. Their horses and cattle are allowed to in the spring in order to brand the young stock, and at such times when they wish to
ship a few car-loads to market. The large amount of hay thes cut is baled and shipped
to such markets as Denver, Cheyenne and
$\qquad$ good price. Grass matures here about the
middle of July and dries up without rain and
$\qquad$

and the winters are a little too cold for the of thandled at a good proft. Other portion | Tie Siding, Hyoming. |
| :--- |
| $\begin{array}{l}\text { B. S. } \\ \text { The ster ad apted }\end{array}$ |

From Indiana.-Benton counts lies just east of the Illinois state line. The soil in this,
portion of the state is rich, black, sandy loam, arying from two to three feet in depth, with a gravel and clay suhsoil beneath. The ground
is high and rolling, well tiled and watered. On some of the farms are yet to be seen large boulders. On a mafority of the farms the
boulders have been blasted with dynamite and removed. The farmers find ready market

## WALL PAPER $=$ Ev:

 PATENTS $=$ anta $=$Buciles. PHAETONS. SURRES:

WALL PAPER at FACTORY PRICES. $1-\mathrm{d}$

##  

buildings. Fowler, the county-seat, is about little business city of 1,500 inhabitants. The buildings are modern, neat and substantial and business of all kinds is well represented. Electric lights illuminate this little city Shade-trees are found in great numbers
There are good churches and good schools. Boswell is a thriving little town, situate with a population of 1,200 . Notwithstanding the excessive rain 1,20. Nill surpass th hopes of the most sanguine. Oats especially look well and promise a rich harvest. Corn,
the principal crop, although late, is doing well. Hay is ahundant in this section and well. Hay is ahundant in this section and usually of small trees, which will not yield much fruit at present. Peaches and cherrie are most abundant this year. Apples are
scarce. One of the attractive features of thi country is the graveled roxds. The excellent condion of the roads throughout the year is a great advantage, and increases the value of increased in value in this country during the last two years, desirable farms bringing from
$\$ 50$ to $\$ 80$ per acre, according to location and improvements. The improrements in th way of building and tiling indicate the thrif and prosperity of the people in this part of
the state, while the successful schools and churches show the interest manifested in perity is apparent everywhere, and landbusers ueed not seek the far West in order to secure good aud comfortable homes.
Hoopeston, Ill.

From Florida.-I have found this to be the little cold weather, and the warm weather cannot be compared with that of the North, a we always have the breeze from the gulf, and
cool nights. The soil is poor, but with the help of fertilizer excellent crops can be raised and sweet potatoes all do well here. The best
paying crops are peaches, pears and grapes.
This is the home of the perfect peach. They areshipped to the northern states and bring
from four to six dollars per bushel. Pigs
raise themselves in the woods, where they
 yewaimusur wid

## Frosi Arkansas.-We have a good country, beautiful senery, pure spring water and frye mineral springs. Many people come here for mineral springs. Man Mpeople come here for miner halth. Waise coton, corn, Wheat, their heal oats, cane, peanuts. Irich and sweet potatoes, pleasant country to live in, where they can have everything they want will do well to come here and huy a home. Unimproved land is $\$$ to $\$ 5$ per acre; improved land is higher.

## WESTERN FARM LANDS.

A pamphlet descriptive of the farm lands of Nehraska, Northwestern Kansas and Easton application to P. S. Eustis, Gen'l Pass. Agt. C. B. \&Q. R. R., Chicago. Send for one
give names and addresses of your friends.
(1)싸 fifum.

## THE POULTRY YARD.

## THE POULTRY INDUSTRY.

I$T$ is not necessare to attempt to gire figures in order to show how great the poultry industry may be, for no reliable estimates can be made, owing
to the difficulty of takiug a census of poultry and eggs; but if we allow only one dollar per rear as the ralue of the eggs consumed in the United States by each person, we have the large sum of $860,000,000$, equally as large. We believe that one dollar per individual is much too low an estimate, but it is sufficient to give some indication of the egg industry.
consumption. Despite the for home cents per dozen on eggs, they are still imported, and the supply has at no time been too great. As long as there is a great demand, and at the prices received this season, it is safe to claim that the poultry industry holds out as great inducements as any other. It is true that all who attempt o succeed do not accomplish the object well unless under the management of an experienced person. The fact is plain, year, and that there is a ready market for poultry and eggs during every season of the year.
There are no dull times for the poultry and egg business, for there is not a mouth in the year that a ready sale cannot be ade for all that may be offered, and a the liability of loss, it is a claim in faror of the poultry industry which does not apply doubt if anything raised on the farm pars certainty of allowing a profit to be secured.

## FLOCKS IN Yards.

In the suburbs of cities and towns are hundreds of small flocks, kept in raris that have no shade, and in which the heus he mhosed to the heat of the sun is also warm, and like an oven in temperature when the additional warmth of the bodies sorbed by the wood during the day. Orerfeeding, with corn as the principal food, effects of the heat in summer, while lice oreed rapidily and contribute to the inconvenience of the fowls. A piece of
muslin stretched across the yard, or shade of any kind, will aid in avoiding some o the drawbacks. Green food, which may be provided in the shape of finely-cut grass or a head of cabbage, with a variety of food,
using lean meat in preference to grain, will assist in promoting the health of the flock and keeping them in laying condition.

A LATH RUN FOR CHICKS.
doubt some of the readers have experienced difficulty in raising chicks in the same yard with hens, which resulted in the

A cheap coop for a hen and a brood of young chicks may be made of an ordinary large cheese-box. If the box is not deep enough, two of them may be fastened together. It is only intended for use dur ing the first few days of the chicks, as the box would not answer for the hen during any length of time, the room being to stricted. and can be cleaned or mored easily. Simply mark the boxall around into strips about two inches wide, and cut out each alternate strip. The object of the conrivance is to enable one to prepare a coon in a short time and at chicks will be removed after they are large enough to run about, the coop may then be
used for the next young brood.
THE STUBBLE-FIE!DS: If a flock of hens perthat of securing the waste graiu of the stub-ble-fields, it would be great adrantage in their mous loss of graiu at harresting, as much he anime secured, and he animals canuot utilize it. When the hens, turkeys, ducks and geese, and we
may include the guinea, are given a free range over the stubble-fields, they will convert the grain left on the ground into poultry and eggs. This will be clear gain, and the young weeds and grass will also be consumed. When the heus can hare the pririlege of foraging, they keep in the best condition for produc iug eggs, and the large amount of food picked up and consumed is only indicated y the heary, full crop when they come good service on the stubble-field, they are raluable on all kinds of farms.

## AN UNLOOKED. FOR CAUSE.

When your chicks die or your hens droop, and you cannot account for the misfortune try rubbing a few drops of sweet-oil on the recovery will be the result, as oil will destroy the large lice, which you cannot iscorer until you look on the places desig poultry-houses, as they confine their perations exclusively on the heads and necks of the formls.

## INDIVIDUAL ENTERPRISE.

The benefit to a whole community through the purchase of only a single dozen of eggs is often rery great. All have forls, but no pure breeds. Oue enterprising inwo dollars for egos, and raises a few good chicks. His renture is closely watched by his neighbors, who may probably not ap prove of his supposed extravagance. In the course of a few months, however, they caunot fail to note the difference between
pure-bred stock and scrubs, and they seek to procure eggs from the iortunate party

## ath Run for Chicks.

chicks being crowded out at meal-times, an being pecked by the hens, they were afraid to go among them, the chicks securing onl the food not desired by the hens. The illus tration shows a box into which the chicks can go at any time to feed, and the hens cannot get to them at all. The box is made of a sixteen-foot board, twelre inches wide the board being cut into four pieces, each piece four feet long, and nailed togethe ered with lath, the sides having hole that admit the chicks and exclude th hens. By having the hox bottomless, i may be moved from place to place, thus avoiding filth.

The next season there will be quite number of pure-bred fowls to be found on farms, and in a few years all of the poultry in that neighborhood will be more or less improved and of better quality in all respects. Much benefit has resulted in this manner, and when an individual is benefactor to his neighbors, also


## LET THEM SIT

If your hens wish to sit in the summer, and no chicks are desired, gire them one or two china eggs, and allow them to stick to the nests for two weeks, aud they will be in a better condition for laying when they come off. Never break up a hen suddenly, as she will lay only a few eggs and begin to sit again.

## GEESE ARE PROFITABLE.

Where there is land that cannot be used With profit, geese can secure their food unaided. On farms where a portion of the land is uncultivated, and where water is

## $\square$ <br> Cheese-box Coop

vithin easy access, the raising of a flock geese, both for meat and for the feathers vill pay for the amount that may be invested. No kind of poultry gives less labor nd care to the farmer thau geese. They seek their food both ou the land and on the pond, and are seldom subject to diseases. It is not usual that high prices are obtained they are nearly all profit.

## WASTING FOOD.

This is the seasou of the year when food that has been moistened with water quickly spoils, aud it also causes disease. The habit of filling a trough with such food and leaving it to the hens to consume is injurious to them in sereral mays. In the first place, it induces them to eat too much,
leading to indigestion, which is often misleading to indigestion, which is often mistaken for cholera, or it makes the hens fat, thus less nning the supply of eggs, as s better to allow too little food, rather than to give too much.

## RYE FOR POULTRY.

Sow a patch of rye, if only half an acre is grown. It is green later in the season than grass, and grows earlier in spring. It is not valuable as food, so far as the nutriment contained is concerned, for green rye is watery, and may cause bowel difficulty, but if used as a portion of a ration, it will aid in preventing disorders arising from che use of too much grain. It affords a
chater from the dry diet, and as change in winter from the dry diet, and as
the hens are partial to it, the result will be the hens are partial to it, the
beneficial in many respects.

## BREAKING THE SITTERS.

Too much cruelty is practiced in breaking up sitting hens. While we believe it unwise to break up a sitting hen, yet there is humane way of so doing when it is deaud lath bottom. The op, wht lo gire the hen cool air under her. She will attempt to create heat with her body on the floor, as is natural, but will soon on the floor, as is natural, but will soon

## CORRESPONDENCE

Gapes in Young Cuices.-In the issue o June 15 th I saw an article entitled "More the clogging of the windpipe by a cluster of hread-like worms. (This much is an estab ished fact.) How they get in the windpipe mined, but it is believed that they or thei eggs are picked up by the chicks from
the ground." What an absurd idea! Chicks will pick up worms, grubs and insects, but they are never deposited in the windpipe. How mauy of your readers believe
such a silly story? Perbaps not one in a thousuch a silly story? Perbaps not one in a thousand will give it enough thought to form an pluion, but take it for grauted that the cditor is right, that there is no help for his chickens, and be will stay iu the same old rut from year to year. The main remedy worms from the wiudpipe. Another plan is to place the chicks in a box and dust fine, airsiaked lime over them. These remedies are Gapes is a lung trouble; so is bronchitis and consumption in the human family. Would a doctor subject you to such barbarous himself safe from assassination if his patient
should not recorer. Roup, cholera and gapes
are the enemies of the domesticated feather tribe. These diseases may be traced to mant of shelter, nourishing food, lice and filth. The frequent occurrence of these diseases is a disgrace to any poultry-yard. To prerent gapes. in chicks, breed from none but healthy fowls. The kinds that fiedge slowly are, best in this respect. They and their habitation must be kept free from filth and lice. In setting hens one rule must be adopted. The nest must be on the damp ground. Where a hen steals her uestin a fence corner, she has hardly anything chicks so hatch. Did you ever notice that than when they place. Trying to keep the eges a hign, dry. ruined many a broud verer tale from the mother as thepare hatched, for there is no heat like the mother hen to nourish them. For the first twenty-four hours they require no food. The first feed should be yolk of egg and bread crumbs, fed dry. Feed often, seven or eirht times a day the first week. The next month, five times a day, as much as they will eat, of a variety of nourishing food, and provide a never-failing supply of clean, fresh water. For the first week coop them on a them. After that age you can coop them in a yard ( 20 x 30 feet for sixty to serenty chicks) With small trap-doors for the chicks to run in and out. This yard is used for feeding and is the main feed, bruised oats and other small grains for a rariets with ama other sotan mixed with bran, and white middlings for the first feed in the morning. If on the range first feed in the morning. If on the range iusects and worms, animal food must be given in the shape of meats of some kind. To keep them in perfect health, put camphor or camphorated spirits in their drinking-wa
Ferndate, Pa.
R. P.
[The above is presented because it contains some excellent hints on feeding chicks; but has been demonstrated that the gape-worms lodge in the windpipe, as thes can be pulled out and seen. Hens have also hatched strong chicks on hay-lofts, where it is'dry.-ED.]

## INQUIRIES ANSWERED.

Chiggers.-E. W. C., Sisco, Fla., writes: . Is there any remedy against chiggers, poultry. 2. What is the cause of the swelling f the crops of chicks with wind?
Reply:-1. As they are so numerous, it is useless to attempt to get rid of them, others oming as soon as the first lot are driven off. It is caused by indigestion and overfeeding. Proportionate Spaice.-E. T. L., Marion,
Ind., writes: "How large sbould a yard be Ind., writes: "How large sbould
for a flock of twenty-five hens?"
REPLY:-A yard $50 \times 100$ feet, which is about one eighth of an acre, is sufficieut, but it is better to divide the space into two yards, each while the hens occupy the next, changing from one yard to the other as occasion requires.

## LANDS FOR SALE.

By THE ILLINOYS CEATRAL R. R. CO., AT

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& \text { ES AND ON EASY TER? } \\
& \text { SOUTHERNILIOTS. }
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The best farm couutry in the world for either large or small farms, gardens, fruits, orchard dairying, raising stock or sheep. A greate rariety of crops, with a greater profit, can be gro than a less amount of lands in this country than can be raised in any other portion of this state
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PRESERVATIVE


## Ir anficecal with sareceses ure Dr. Thompson's Eye-Water

MENTION THIS PAPER WHEN ANSWERING ADVERTISEMENTS.


## Milkweed.-G. H., Lane's Mills, Pa., writes "Can you tell me any way to klll or get rid o

 mil.kweed?"REPLY:-Rotation of crops, with thorough cultivation of all hoed crops, usually keeps
the milk weed from becoming troublesome. If they are in permanent pastures, mow then down, or cut the roots with a chisel spade.
Sowing Onion Seed in Summer.- J.
Sowing Onion Seed in Summer.-J. H
F., of Virginia, writes: "You recommead $t$ start plants in hotbeds in order to raise a large during July or August, and plaut them out in winter growth?
REPLY BY Joseph:-If you wish to use the crop for early bunching, I believe you can
safely sow seed late in summer or early fall, and leave the plants in the ground all winter. When sown too early, the plants will all go to seed, and you have to guard against this. Fou may also replant, or plant sets, in Novernber
in your latitude for bunch onions. Make

## Fealle

Flea-beetles on Tomatoes.-A. M. B. are cover, with a little black bug or Ay, that eats holes through the leaves, causing them to turn yellow and dry up. They are about under a magnifylng-glass, somewhat resemble a potato-beetle in shape. Can you tell what to
do to save our plants?" Reply by Joseph:-The insect is probably a
fea-beetle, and not easy to conquer. Try spraying with a strong tobacco tea, or dusting wlth a strong tobacco ast. etc., for the hauling, or at a mere nominal ways.
The Souring of Milk.-J. A. C., Lithopolis, Ohio, writes: "The Farm and Firestide, quotlng from the New York Sun, is in error as is not fungus, but lactic acid. It is not unhealthy, but unpleasant."
Reply:-To what is the lactlc acid due? Inthe normal souring of milk is a fermaentative process produced by micro-organisms, which get in the milk after the milking is done.
Twenty years ago Lister found several forms Twenty years ago Lister found several forms teria produce the lactic acid accompanying the souring of milk. The other kinds of bacteria produce different fermentations. You
will find the subject fully explained in Far mers' Bulletin No. 9 , to he obtained by apply-
ing to the Secretary of Agriculture, Washington, D. C
Gathering Potato Seed.-M. H. M., balls (Irish) be gathered, and how and when should seed be plante to produce the best Reply by Joseph:- When the potato balls begin to color, showing that the seed in them
is mature, they should be gathered, mashed, and the pulp allowed to stand and ferment for a day or two. Theu you can get out the seed
quite easily by washing. Put the pulp iu water, stir thoroughly, let the seed settle to the floating pulp and skins. Repeat this washing operation until you have the seeds all clean, after which drain off the water and in hotbed, as you would sow tomato seeds. They will sprout readils. The young plants may be pricked out in thumb pots, or set in
flats or frames, the same as tomato-plants, and When danger from frost is over, set them in open ground, two by two, or two by three feet apart. It is often quite a task to protect
tbe tender young plants from injury and even tbe tender young plants from injury and even
utter destructlon by bugs. If you can grow them along $\ln$ pots until they reach some size, after the bugs have found green pastures elseTruere:

## VETERINARY



## 




[^3] is not the proper season for the treatment of onsult Farm and Fireside of November

15th, or wait until late in the fall, when you
will find another article concerning the diseases.
Hollow-horn.

## -A

K. S., Sile horns of grown cattle are hollow. The tern "hollow-horn" is made use of by quacks in various cases of disease in which they are unable to make

Dryiug Up.-G. S., Chesterfield, Ill. Your being accustomed to milking, probably drew up the milk, and theu milking was neglected. Frequent and thorough milking would have
prevented wbat you complain of. It is probprevented wbat $50 u$ complain of.
Lame.-G
have a mule that has wind-puffs on one front leg. She is lame. I have used hot water and Aster liniment. It improves very slowly."
ANSWER:-The "Wind-puffs," or so-called
"Wind-galls," most likely have nothing to do With the lamencss. The latter has some other source or cause, and as long as I do not know
the scat and nature of the same, I cannot gire rou any adrice in regard to treatment Har Probably a New case of Garget.-Th Probably a New Case of Garget.-T
W. K., Clyde., N. Y. The remedy, unless it is oo late, consists in frequent and thorough milking. Bacteritic action changes the suga the alkalis of the milk, and thus the casein kept in solution by the alkalis is thrown out of solution and congeals. If this is kept in mind it will be easily comprehended that the remedy consists in removing the cause, and ough milking.
An Old Sore.-J. F. R., Delavan, Kan., Writes: "My five-year-old road mare got cut two years ago directly in thc front of the hockight, but for the last six months it has kept swelling and breaking and then healing p. Would blistering do ally good?" is sure to crack and to get raw. It is the worst you can possibly do. The best you can do is ecp the old sore cle
Wants to Know What Ailed His Horse. -E. W. M., West River, N. Y., Writes: "I Would like your opinion in regard to what when I noticed he did not eat. Examined him and found his lampas down, his legs, ears and nose cold. The next day was taken with scours and thirstiuess
ANSWER:-Your horsc, it seems, suffered from a serere intestinal catarrh (Catarrhal
enteritis) either as an independent disease or as a complication of influenza.
Tronbled with Flies.-G. S., Grand View Ind., writes: "Ny horse's eyes get sore in the would like for you to tell me what to put on them.-I would like to have the name and ad ress of some veterinary instrument maker. ANSWER:-Keep the sore eyes clean, and if the flies then don't stay away, make your
horse a veil of mosquito-bar, or else apply to the troubled corners a little gentiana extract -There are a great many makers of goo urgical instruments in the United States. On will find one or more dealers in every large

Contracted Tendons.-G. H., Lane's Mills, Pa., Writes: "My colt, one week old, cannot straighten his front legs enough to stand up nyem. The cords seem to be short. Can better with any treatment?"
ANSTER:-If the tendons are too short, contracted, probaily a surgical operation, to be executed only by an expert surgeon, will be
necessary. Description, therefore, is superluous. The main question is, is the colt wort raising? This, of course, will depend upon
the result of a eareful examination. Hence my advice necessarily must be to have the colt by all means examined by a competent urgeon.
An Enlargement.-AIc., Moruiug Sun hove a lump from one the fetlock re my mare. It is of about four or fire month tanding. It is of about the size of half a hulled walnut. It ls of a soft, gristly nature and is not attached to the bone, but appear Answer:-If the "lump" is a tumor, the only ion; that ls, hy excising it, and if it is a socalled wind-gall in the sheath of the extensor urgical operation ; but since the enlargemen does not cause any lameness, my advice to you
is to leave it alone. If you wish to have i removed, by all means you will need tb services of a competent veterinarian. Salves
and ointments, etc., are ineffective or do damage and make it worse.
Trouble in the Ears.-E. E. P., West Poln trouhle in her ears. The ears are so very ten der she won't let us touch them, but we can dee a dry, white substance, like a scale, extendANSWER:
quires an examination, or, at any rate, a good
description. If your mare does not allow an
examination, the only way is to throw her
Which will compel her to submit not only
to to an examinatiou, but also to a thorough water. If sores are found, after the ea have been thoroughly cleaned, the same ver
likely will be brought to healing by repeate a pplications of either a mixture of subacetate of lead and oil ( $1: 3$ ), of iodoform, tincture of
iodiue or lunar caustic, etc., as the case may
happen to be.
Lameness.-G. P., Forestburg,Texas,writes: I have a mule, four years old, that got lame last February in her right hind leg. I exam-
ined her foot and leg, but could find nothing Wrong. It got all right in about four weeks.
Two weeks later she got lame in the left hiud leg, Which was about the same time getting
well. She also got lame in her left fore leg about two weeks ago.
caused her lameness."
Answer:-If you don't kuow what caused the lameness, how can you expect me to tel
you? If you used the mule to a scraper ditching-machine, aud overworked the same, it may be that tendous, ligaments or muscle
became overstrained. If there is no lameness now, leave well enough alone, and to prevent
lameness in the future, exempt the animal from work that causes excessive strain upon any one particular point.
Urticaria.-D. B. H., Centreville, Pa.
writes: "What ails my mare? There appar Writes: "What ails my mare? There appear
lumps the size of half of a grape, which flatten out and spread to two or three inches in diameter. Sometimes a watery fluid will ooze
out and the hair come off. These have appeared on side and belly at times for months. there is a puffy swelling on the inside of
fore legs where they join the body. There no sores, nor does she seema to mind them."
simple case of urticaria. First, give the maar
a physic-one pill, composed of
loes, a few drams of powdered marsh-mal low root, and a very small amou ut of water
will answer. Then keep her on a suitable diet see to it that she does not consume auy more food than she is ahle to digest and to assimilate, groom well and give her regular exercise
and I have no doubt everything will be well
Milking-tubes.-F. W., Bryan, Tex., writes saper of a eow-milker. I sent on for circular and found that the instrument cousists of
four small tubes which are inserted in the teats of the cow, and run in a larger tube. have some fifty or sixty milk-giving cows ruu
ning out with their calves, because we have not the time (or are too lazy) to milk them. putting the milker in a cow's teat is a painful putting the milker in a cow's teat is a painfu
one, and that a Texas cow is not going to put fashion" every time I want to milk them. would be glad to have your opinion on th Answer:-As yet no way has been devised, and probably never will be, by which the
trouble of milking milch cows may be done away with. A use of milking-tubes for that purpose is invariably productive of disatrous dry, or what is more frequent, garget or in fammation of the udder will $A$ use or material, is permissible ouly in special cases and under no circumstances unless special septic precautions are taken.
May be Diabetes.-Farmer, Lansingville that has a bladder or kidney difficulty. He i in good order, running in pasture and worked dull and heavy. The appetite is not very good. Hinches a little when pressed with the hand, in region of kidneys. He uriuates often, passing considerable water at a time. He acts
though the hind parts were slightly stiff. A doing a hard day's work he seems worse. ANSWER:-The disease
be Diabetes insipidus, and it undoubtedly The treatment, unless already too late, consists: First, in a change of food, that is, in wholesome and free from fungous spores and mustiness; second, in good grooming, so as to ing the animal in a dry and clean place; astringent, and especiant of gum carnpixed
The latter, Well triturated, may either be mixed
With the food or in doses of one dram a day, be With the food or in doses of one dram a day, be
mixed with powdered marsh-mallow root and
water, and he given in shape of pills once

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## (1) IIt Firfsidr.

## AN ANSWER.

If one shonld hring a rose that had heen fair
And rery fragrant, and surpassing smeet, Before it lost its beanty in the heat
Of crowded hall-rooms or the gas-light's glare, And heg of me to keep it in my hair Or on m5 hreast through all the coming hours, Whasting aside all fresher, hrighte
Wonh other hands might ofter me the not seem presnm ptuons?

The remnant of a heart that long ago Burned all its fire to ashes; and son "<br>Burned all its fire to ashes, and yon sas, "Keep this and cast all other heartis a was.", tstoped and blert, and could not raise a slo



Etla Wheeler Wilcox.



## E REVENGE.

Mrserabiy wet day-
time, the year of grace time, the rear of grace The foung Vicomte de la Sainte cceur was morning throngh he had lounged
old library. Poor Raoul, he felt himself much to be
pitied in this, his selfpitied in this, his self-
imposed exile at his
aunt's chateau; but cerad necessitated a hastr, not to say somewhat un-
dignified, retreat from the festirities of the dignified, retreat from the festivities of the
conrt of Marie Antoinette to the chateau de St. Jean in the heart of Brittany.
The old Marquise de Brillac, his aunt and sole remaining relative, had lived here as long
as he could remember. Here, too, he had been as he could remember. Here,
brought np since, a little fellow of six years old, clad in deep mourning, he had alighted conducted into the presence of a stately old
lad $\overline{\text { w who }}$, kissed the poor little זicomte cerelady, who kissed the poor little ricomte cere-
monionsly on both cheeks and told him that from now he was to consider the chateau as his home, since it had pleased "le bon Dieu"
to take both his father and mother to himAt twenty-tro he had started for Paris to
take np his commission as captain in the take np his commission as captain in the
king's body $y$-guard, a commission he had held, according to the custom of the time, since he had been ten Fears old.
Fresh from his Breton home, he had plunged into all the follies of the dissipated capital, and nowr, four years after
ing his shattered fortunes. he knew, but he also knew that the childless
old lady dearly loved his handsome scapegrace old lady dearly loved his handsome scapegrace
self, womanilke, perhaps never more so than He had arrired at the chateau the previous evening, and his reception had been anything but cordial, and all this morning he had
awaited an audience with his much offended relative, who had at last sent him word that
she desired his presence at dinner at four o'clock.
"Thank God, it is almost four!" ejacnlated sion, he wended his way to the apartments of the marquise, from which she rarels, if ever, stirred
He re
He reached the ante-chamber of the salon and glanced at a Dresden clock on a gilt
console. Bah! it wanted ten minutes to the hour, and Raoul knew the old lady's rigid
notions of etiquette, and felt sure that the sin of arriving too soon for dinner was as great, in her eyes, as that of arriving too late. Well, there was nothing for it but to wait
the prescribed ten minutes and enter the apartment exactly on the stroke of four, so,
for the one hundred and twentieth time that day, the vicomte gazed listlessly ont on the in the never-ceasing rain
A patter of high-heeled shoes. a frou-frou of
silken skirts, and Raoul turns from his contemplation of the dreary courtyard to encounter surely the daintiest little waiting-maid
that erer carried a dish. Her lace cap is that ever carried a dish. Her lace cap is
perched coquettishly on her soft brown hair her robe of pink silk is caught back over a
petticoat of palest green, pale enough torereal
her feet and clocked stocklings and crimson, her feet and clocked stocklings and crimson,
high-heeled shoes. Her bodice, cut low, after the fashion of the day, displays a neck that
for roundness and whiteness a court lady might envs, while in her hands she carries
But her face-Raoul forgets all else after one and lighted up by a pair of hazel eyes, which
in passing flash swiftly for a moment at the handsome young vicomte of whom all the household is talking.
Raoul is seized with a sudden mad impulse.
Quick as thought he springs from the Quick as thought he springs from the window
and places himself before the door of the salon and places himself before the door of the salon
in such a manner as to effectually bar all furin such a manner as to effectuall.
ther progress of the pretty maid.
She stands irresolute, then glancing tlmidil
at the handsome mocking face before ner-
at the handsome mocking face before ner-
"will you permit me to pass, monsienr?"
"Will you permit me to pass, monsienr?"
rision of loreliness gladdens my eves. You
must star a moment and talk to me-tell me
how it happens that $I$, who have been merred how it happens that I, who have been merred
up here nigh two dass, have never discovered up here nig
you before.
An angry flush crimsons the girl's fair face, in bucceeded by a sudden gleam of mischie in her eres, as, repressing the sh:
that rise to her lips, she says again
"Wien
me. la yarquise is waiting for me."
Bnt he does not quit his position in front of the door, althongh the little feet begin to
drum impatiently, and alreads the clock is on the stroke of fous
"MTadame does not like to be kept waiting,"
she began, when Raoul interrupted her:
"Let madame wait;" then, seeing a look of genuine distress on the lovely face: "Come pass. Let me but kiss those tempting lips. Let me-
Shedre
She drew herself up with a stateliness worthy a duchess.
Ir, bnt Raoul's yon mistake," she began haught approaching footsteps.
She conld offer no resistance, embarrassed
approacing forter quite realized the fact, the audacious young noble had claimed his toll and actually kissed her; then, throwing open the door, stood aside, bowing to
his annt herself.
One flash of the hazel eses and he heard her
mutter beneath her breath:
"Some das, my fine Ficomte, I will make passed into the marquise's presence, followed Teedy by the scapegrace Raonl
Needless to say, he won the old lady's full dinner. Onls once he made an minutes a mark. which almost imperiled his hopes.
mark Which almost imperiled his hopes.
"IIadame, sou hare a little maid here whos face would
The old ladr serutinized him keenly. With are. "Raoul, remember, if I find soum meddling vith my maids, pretty or otherwise, you ma
Rect no further grace from me.
Raoul maintained a discreet silence, an
merely bowed in answer to the marquise' warning, but he mentally eaculated, "Gad, hope the little minx will tell no tales.
days later the ricomte started again for Paris sith ample means to satisfy his creditors and continue his gay life at court, and if at first a
flower-like face and a pair of flashing hazel eyes hannted his dreams, other fair faces claimed his thoughts, and as time went on the
pretty serving-maid at the old chateau became a dim memory.

## Act II.

Ten years after. Gone is the gas court, gone is the beautrur Gone all that was bright and gracious, and in its stead reigns a red-capped tyranny, and Fraternity," but whose argument is
principally the guillotine. snrely the guillotine.
daily rumble a ghastly procession of tnmbrils laden with rictims for "la lanterne," as the
guillotine is familiarly called; surely this is not Paris, the gay, the pleasure laden, the queen of cities. ting.
A tall, well-made man, with brown hair, nnpowdered and brushed careless 15 of his
forehead, and a lion-like head, he is a refreshing contrast to the dandr, yellow-faced Robe
A member of the national guard enters the room. Danton looks up sharply.
"The Citizeness Valerie wishes to see you."
"Let the citizeness enter," he says, grufl
ugh, but bends his head quiclily orer his Uriting, that the man mas not see the rare pleasure her coming gives him.
A moment after the citizeness enters, and o see that they are old friends.
"To what lucky accident mas I ascribe the Fisit of the adorable citizeness?"
he florid language so much in rogu
The "adorable so much in rogue
The "adorable citizeness," a lovely woman of twenty-seven, who well merlts the title
"adorable," shrugs her shoulders and laughs.
"Still as complimentary as ever, citizen,
salry guessing; I Ihare come to veg a favor.",
"Which is granted already, iorely one."
"Take care, citizen, I shall keep you to sour ing from her mobile features, "You hare on your llst of 'suspects' the name of one Raoul,
autrefois Vicomte de la Sainte Cceur-youl must gire him to me;" this latter with a pretty
Danton's face grew grave. He took up the
1ist. Yes, there was the name included in to-
list. Yes, there was the name included in to-
morrow's list for the gulliotlne.
He glanced Feenly at the fair petitloner. seanlng at once.
Have no fear, citizen. It is but repay
Will deprive me, that I beg his life."
Danton took up his pen irresolutels, and flash of triumph - she had won.
"What would you have me do, citizeness?" "Strike out his name from the list-send an ing at whose intercession he has been reteased He will, without doubt, come to thank me to morrow-and then-ah, then we shall see, and her brilliant hazel eyes flashed with an ominous light that bodes ill for the unlucky vicomte.
Danton smiles grimly as he writes the order and dran
the list.
"Citizeness, excuse somewhat worn simile, but you women are uncommonls like cat and treat us poor men very much as
teresting feline animal treats a mouse.
"To a man the idea that one's enemy
about to be execnted would be ample revenge bretch in your power, to tease nnfortunate wretch in your power, to tease and worrs, to
alternately torment and coax until sour sense of wrong is satisfled coas until your sense tion," he added, handing her the order truth." woman as she rose to make her adien.
"Citizen, I cannot thank rou sufficiently
only know that this morning yon have placed in my hands a revenge for which I hare admire th long years. Whether yon it is another question; but of this rest assnred, of all the many farors which sou have bestowed me, you have conferred no greater than thi boon.'
A smile, a rustle of silk, and the next mo ment she was gone, leaving behind her a nbtle perfume of roses, which seemed strange and glancing down, Danton saw lying on the floor a little lace handkerchief.
He took it carefully in his great hands-how small and daints it seemed to him-smoothed it out carefully; then, looking around as if he had expected to see her return and claim it, pocket in the breast of his coat. And for a moment on his rugged face there shone that wondrous light that "never was on land or Citizeness Valerie to this man who held in his hands the fate of France.
Who was the Citizeness Valerie? The Citzeness Valerie was a beautifnl actress, whom all Paris rared about, and whose beauty and sarkling wit drew crowds to the theater, in spite of the grim terror reigning supreme. heard of her until two years ago she had risen the first magnitnde.
he first magnitnde
the widest stories were told of her. Some all her kindred by the guillotine he was a true daughter of the peopleand had been seen with the women who had sacked Versailles. Be it as it may, however, aristocrat and democrat alike agreed in worshiping illimitable
Danton, perhaps, conld have told more about her than most people; but Danton, When questioned on the subsect, was un-
deniably grim, and Danton, when grim, was lion to be approached with utmost delicacy
and care.

## Act III, AND Last.

Raonl, ci derant Vicomte de la Sainte Cœur, Here on the rery his ood fortune
Here on the fery day when, according to his relded up his head to the republic, he was a free man, free to go whither ho listed, and Where indeed should he go but to the roman interested in him to preserve his head, for the present, on his shoulders?
He was aged considerably since, ten years ago, he sought refuge in the old Chateau de igh Jean. Was it only ten? To Raoulitseems in the direction of the Citizeness Valerie's house, his thoughts dwell on that risit of ten years ago.
Poor old
Poor old marquise-lucky for her she died before all these troubles fell so thick upon
"La belle France" and left all her wealth, hich was not incond
red nephew Raon
rim nealth remains, he think hich has escaped the general destruction of the chateaux eaped the general destruction of Thich the late Narquise de Brillac is still held $b_{5}$ high and low for miles around.
But her nephew dare not claim his own, and eis on hls way to thank this woman who has hought fit to save his worthless life. That ale of a few jewels that yet remain to him, then he will take ship to England, there to wait the dawning of better times.
For a two sears' struggle against Repnblican troops in La Vendee has convinced him of the opelessness of the Bourbon cause, and he ees plainly that the red tlde of revolution by a band of nobles, horrever devoted thes nd that cause
His refectlons have brought him to the evidently expected, for no sooner has he giren his name than a groom of the chambers in rich livery comes forward to conduct him to
the sa
Raoul gazes curiousls on the nnmaistakable signs of wealth that meet his eyes. The costly furniture, pictures, the rich liveries of the as well ; rerily, he thinks, this actress tire royal blood.
The servant conducted himn to a spacious apartment furnished with all the extravagance of the period and informs him that the citire him witbout delay.
Left alone, unconsciously Raonl's thoughts ring his malk hither
Once more he goes back to that dreary afterooon ten rears ago, and before him rises, as mans a time it has risen, a livels flower-like ace and angry, flashing hazel eves. He puts Surely his troubles have turned his brain that he face of a pretty waiting-maid should so aunt him. Then comes the uneasy doubt hat has often perplexed him before. What if of his own rank? Bah! it.all happened ten years ago, and a kiss is no such crime after all.
The door opens and he goes forward to meet the Citizeness Valerie, who enters
Clad in a pale pink gown of some soft, clingRaoul starts she looks her loveliest to-day, but and that soft, brown hair are the same which hare so often haunted his dreams. The roundness of the girlish figure is gone, but save that turity, there stands before him the little maid f the chateau
he sees his start and smiles
"I fear I have disturbed your meditations, zen" in speaking to this aristocrat.
"I have been so long exiled in La Vendee "hat the glory of the godid he white hand she holds out to him She flushes, but whether in pleasure or anger he cannot tell.
"Iadame, let me convey to you my sincer est thanks for haring deigned to intercede for onscious, but holding the little white hand in his omn, browned and hardened by sun and She draws it away quickly, and her face pales and crimsons again with some sudden "Thotion.
"The poor actress, Valerie, should deem herelf too highly honored if she be in ans way Ceur," she berins bitterlr; the stops sud denly as she meets the eyes of the vicomte xed reproachfnlly on he
"Nas, madame, do not underralue your own gift; what yon hare done for me to-day has A glean of the old merriment flashes in alerie's eves; quick as thonght she decides "No more thanks, monsieur. I take ron at ronr word and enroll sou as 'my slape for-
"Yo fair mistress ever owned a móre willing slare," he responded eagerly, for this woman had set his heart beating and
"One boon only I crave," he continues; that is, the name of the fair lady I serve? For an instant ache passed over the face a gay langh she says: "I am the Citizeness Valerie to all now; once, long ago, I was-" then noticing his eager anxiety, she interrupts erself and cries gails: "Come, mo hearsing; perhaps after that is given I will tell jou who I once was," and she adds In a lower tone, as if addressing herself, "If you wlll not already hare remembered it."
"I am your slave in everything," sars Raoul, thinking what a mercurial woman this actress -so rapid, and withal so charming are her ransitions from grare to gay.
She langhs an odd little laugh, which has a ing of mockers in its tones
"The scene of the comedy is laid in an old chateau. The time ten rears ago. The dramaris personæ I." Raoul feels his heart beat with a strange sense of expectancs
"You will hare no need to change sour charn a short vicit to the chateau and bored to death wlth the dulluess. I-well, I am a waitfriend of the pld maraulse-(did I tell you the chateau belonged to an old marquise?)- Who, of sheer ennui, masqueraded as her wa ng-maid. Her name-let nakes no great difference. Let us snppose this corner of the room to be the ante-chamber of madame's salon. Enter the young noble." She speaks quickis, trembling with excitement, and Raoul catches the ferer of her
words, far back from the dim memorles of long go comes this odd comed, the first act of hlch was played ten years ago.
rself, and shortly afterward called waiting-maid, with a tureen in her porcelain from a neighboring table and placing it ln Valerie's hands.
Then throwing himself before the door with
ine of a flex
Slowly a ripple of laughter hreaks from hel as she raises her hazel eyes to his brown ones. "Well, monsieur, as you know this comedy so well, what then?"
What does Raoul see in their changeful depths, that, heedless of the delicate porcelain she holds, he springs forward and catches her in his arms-forgetful of all that has passed again and again.
Valerie doés not seem displeased at such a proceeding, nor does she seek to free herself few minutes afterwards she says:
"Ah! M. le Viscomte de la Sainte Cour, ten sears ago I told you I would be revenged. I have made your noble self fall in.love with the you 'Tit for Tat.'
For answer he holds the slender figure closer in his arms aud gazes with untold lov
lovely laughing face upturned to his.
"You have made me fall in love with the noblest woman this earth possesses," he says passionately, and Valerie is silent, for at last her ven

## THE IMPERIAL DRAGON.

The combination of circumstances that served to bring Miss Damon to L-, moneyAll that any one knew of her was imparted by a brief statement made by the editor of the Dispatch to the effect that on a certain blustering afternoon in January she had wallsed into the office and asked for employment. He declined her services, with thanks, but she came again and again, until one day she found a there ever since.
She wrote two or three caustic articles, little while made an enviable reputation for bitterness and cynicism. Her name got out and after that everything that appeared in the paper was unhesitatingly set down to her credit.
She was not known outside of the office, but the impressions that prevailed concerning agreed that she knew too much to be young, was too cynical to be agreeable, and there was a theory current among the paper's readers hat she had been crossed in love and disappointert in the daytime, and was little more han a myth to the men who little more nights in journalistic harness. They were frequently questioned about her, and they generally answered all queries by the broadmeaning statement that she did not "run with the gang."
Soon after she began her mark in her new py a gentleman of L-, George Lawrence by a gentleman of $L$, George Lawrence. these fell into the hands of Miss Damon. She prefaced her criticism with the remark that ranged from bad to very bad, and then mercilessly impaled the author to the extent of cilessly impaled the author
three quarters of a column.
Lawrence had never forgiven her. He referred to her ever afterward as "The Dragon" and the "Imperial Dragon." The name seemed appropriate, and it was generally adopted. The criticised versifier experienced some satisfaction at having thus baptized her with inhimself avenged, and at the mere mention of her name his muscles grew rigid, and every artery throbbed with a wild desire for vengeance. Belng clever with a pencil, he made asketch of her, which embodied the popular mprestain age and it was a source of endless ancertaln age, andin to himself and friends. It must be confessed that Miss Damon's was not the only adverse critlcism, and Lawrence was a good deal impressed, but not wholly subdued. He did not intend to be snuffed out in this time he attempted nothing in a literary way he was casting about for a fresh motive, re-
solved at no distant date to make another solved at no distant date to make another he would try prose
In the meantime, summer had come, and Lawrence was to spend several months with he would go to work in earnest.
It was a glorious day, bright and cool, was just rising over the eastern rim of the cup-shaped valley, a luminous mist shading from pink to purple was rolling away from Pike's Peak, and the bits of sky showing be$t$ ween the serrated ridges opposite were deeply hlue.
Lawrence, on his way to California, had stopped to spend a day at Manitou. He had reached the springs the evening before, and was finishing his breakfast this bright mornwhen the great Sanara of a dining-room carriage he had ordered for the day. For the last half hour the gallery in front of the hotel had been thronged with tourists ready to begin the day's sight-seeing, and the double loaded with all possible dispatch. As Lawrence emerged from the dining-room the last wagon drove up to the door, aud a lady was

## said:

for the gentleman Your order was too for this morning." eugaged. This was the last one in the stables I can give you one to-morrow."
"Ishall not be here to-morrow.
"Maybe the gentleman's going to stay over to-morrow," suggested the driver.
Byं this time Lawrence had come up.
"If you can give me a horse and saddle it will answer my purpose just as well," he said "I haven't got a horse."
"As I leave to-morrow on the early train," said Lawrence, "I caunot conveniently postpone my drive. But we are probably going in the same direction, and I should be delighted vehicle.
There was nothiug else to be done. She ac cepted, With thanks. Lawrence handed her into the carriage, and thought, as their eye met, that she was not an unpromising com panion. He was a gregarious animal. He a chance a cquain, espe was not to be despised He handed her his card. She be despised name, raised her brows slightly, dropped the card into her hand-bag, and then, looking squarely at him, said:
"My name is Vincent
He called her Miss Vincent at a venture She did not correct him, and they fell to dis cussing the points of interest on the way. It was a delightful drive, and neither re gretted the circumstance that brought them together. They dined at the same table, fin ished up the sights in the afternoon, and, get ting in rather late, took supper, tete-a-tete in a corner of the deserted dining-room. That He met ber at the door as she was about to He met her at the
enter the ball-room.
She wore a dress of black lace with a sleeve less corsage that displayed a pair of-superb arms and a smooth, white neck. The sharp contrast of her hair and dress with the singularly fair complexion made her look like a stood there looking past her into the ballroom, that no carving could be morc classic than her profile.
"Shall we go in there?" she asked. "It "eems dreadfully warm and crowded."
"Then suppose we stay here."
"I believe it is much pleasanter here," she answered.
The ball
The ball-room was full of promenaders They passed out on the veranda and sat talk would return and beguile the intervals, waltz ing when the music permitted, until the crowd of dancers began to thin and the parlor cloct truck one.
"1 really must go now," said Miss Vincent, rising. "There is one o'clock, and I must "Whe at eight. Good-night."
"Which way do you go to-morrow?" asked
Lawrence.
"East. I must be home by the twentieth."
She gave the name of a village about fifty "I'll see you in the morning" he said. "lieve we leave this place on the same. o I won't say good-by. And now, just one more dance-the last."
Down the long gallery they fioated into the shadow and out into the light, his clasp gradally tightening as they went, her face against his shoulder and his head bent forward until is cheek touched her hair. The music cease uddenly, but the arm about her waist did not elax. She gave a furtive, upward glance, then dropped her eyes. With a swift move ment of his left hand he drew her arm up and lissed her. She darted away like arwar nd kissed her. She darted away like a swal low, and he caught a last glimpse
turned the corner of the stairway.
When Lawrence came down to breakfast it was nearly nlue o'clock. The early train had gone. So had Miss Vincent.

It was summer again. The work Lawrence contemplated a year ago was finished. He had acted on the suggestion of his critic. He had turned Pegasus out to graze, and given his attention to prose. The result was a novel -the story of a day-called "En Route," Which he assured his friends was suggested by an incident of his western trip. The book his own phrase, had "let him down to use" and he was much surprised to find himself gently and affably treated by the Dispatch. The writer was not surprised to find so indifferent a poet capable of producing a tale so pleasing and graceful, so full of felicitous description, so fresh and unhackneyed. It was understood that the young man was under a solemn promlse never again to at-
tempt verse, and, in consideration of this assurance and the promise of success held out pyblic should extinguish wat just that the ake the author to a forgiving and indulgent bosom.
There followed a criticism in which the claims of the book were seriously treated, and by the time Lawrence had finished the might have been a little too fierce in his re eutment upon previous occasion. The


Teach all of the family to swim; bathing suits are easily rigged up and an open air bath gives both fun and health. Then what is more refreshing in the cool of the day than a good swim? But don't forget the Ivory Soap, any other will slip away and sink before you are half through with it. You need not be afraid of losing the Ivory; throw it up stream and it will be back to you by the time you are ready for it again.

Ivory Soap is pure. It floats.


## stroy lt.

At eight oclock that evening his peace offering coquettishly bound in gilt and morocco, ruug Miss Damon's bell. He was ushered into the parlor, and in a few
moments he heard a rustling of drapery bemoments he heard a rustling of drapery be hind him. As he arose he encoun lender figure in a toilet of blackince
"Mincent," he said exultingly "Miss Vincent," he said exultingly,
written you innumerable letters, aud have been four times to that horrid hole of a town where you said you lived. Why did you deso cruelly?"
Why did I deceive you? Well, I did no ust then to know the truth.
A horrible presentiment seized him.
"Then-then-your name-is not Vincent." "Yes, Alice Vincent-Damon.
"You know me, of course?" he faltered.
"Don't you thiuk you have taken a rather "Noan advantage of me very pleasant day








asked pathetically: does she look like that ?"
"I say, Lawrence,



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## IF WE ONLY COULD

If Tre all had our lives to live orer againHa! ha! if we had, but we haren't yo
knowThat life would be robbed of its worry and As a matter of course, the dull things we hare done,
Could we try once more, we mould carefully shun;
The skies would be bright to each sorrowing
If rie all had our lives to live orer again.
fre all had our lives to live over againHa! ha!if we had, but we haven't you kno
Te'd make it a rision of happiness then And fate would her kindliest farors bestow If we could only run this fair, strange, myth-
ical race ical race
some othe
Oh, couldn't we make earth a lovable place
If tre all had our lives to live orer again?
If we all had our lives to live over again-
Ha: ha: if we had, but we haven't you know-
We'd carefully study the why and the when, We'd carefully study the why and the when,
And make us a friend where we now have a And make us a friend where we now
foe. But the edicts of nature $\pi$ e cannot resist
Tis folly vain wishes to sadly rehearse, Tis folly rain Wishes to sadly rehearse, times worse

## If we all had our lives to live orer again.

ASUMMER DRESS. the season adrances and prices lower, one is often tempted to indulge in a fer more addiare now cheaper, and if made late, serve t
The silk waist of which we give an illustration can be fashioned in gay plaid silk and will finish out the season, and serre for a beantiful house waist through the winter. The only trimming is of silk cords arranged carelessly upon it. The bouffant sleeres are large, onls more so,
and give a rery strlish look to the whole and give a rery strlish look to the whole
maist. Whaterer is skimped about it, it must not be the sleeres.
The honse dress of any soft rool can be trimmed with wide lace and black relret. This is a rery striking trimming, and one


## Hotse Dress.

as it can be used again. A rery pale gray costume. The caps over the sleeres should be of the material untrimmed. Mauy use the goods with the selvage edge as an orer-the-shoulder ruffle; this makes the goods lay soft and pliable.
The cape with storm-collar will be found a useful adjunct to one's toilet as the cool
nights of late summer come on. In Angust especially the nights are very cool, and the adrantage of a large turned collar is untold, and must be worn to be apprethe collar of relret. It is best to provide
them in season, so as to be ready for the change.

PICTURES BY AN ENGLISH ARTIST. paints, but only words.
Do you prefer an author who shows you unfamiliar things? Or do you like one who can translate into nem meaning the objects which surround rou? At different times you may find delight in both. The one who describes nem scenes enlarges rour knowledge. The one who beautifies common

## tentment.

country all persons who live in the country must enjoy the writings of Thomas Hardy, the English artist referred to. He has studied nature till he knows her every mood. He seems to care nothing for the houses of the city streets. All his stories
happen in country places. If he painted happen in countiy places. If he painted lected in a London gallery, with a few stras specimens in private studios, but the literary artist can be enjored in all remote corners of the morld, and the light required for his pictures may come through kitchen windor or from a common lamp.
$A$ habit of learning to see the pictures which life spreads before ns results in a pleasure which is refining, amusing, inexpensire and nnfailing. If any close observer, instead of being content to say that a day was "fine," or "stormy," would describe the prominent features of each, in simple bnt well-chosen words, he would be an artist.
Take a few sketches from Mr. Hardy's
"TVinter, in coming, adranced in such rell-marked stages as the following: The retreat of the snakes; the transformation of the ferns; the filling of the pools; the rising of fogs; the embrowning by frost; the collapse of the fungi; an obliteration by snow."
Certainly every farmer will say that Hardy is a close observer
Take this pretty picture of a spring scene "The sheep-washing pool was a perfectly circular basin of stonework in the meadows,
full of the clearest water. To birds on the wing its glassy surface, reflecting the light skr, must have been visible for miles around as a glistening Crclop's ere in a green face. The grass around the margin was a sight to remember. Its activity in ucking the moisture from the rich, damp The outskirts of observable by the eye. were diversified by rounded and hollow pastures, where just now ererything that pastures, where just now ereryt
was not a buttercup was a daisy.
One rery exciting picture is of a flock of sheep in a clorer-field. The animals were "getting blasted."
"One of the ewres contracted its muscles horribly, extended itself, and jumped high in the air. The leap was an astonishing one. The erre fell hearily and lay still.'
Fiftr-seven sheep were suffering in the same ray. Happily, before they reached the fatal
"He flang off his coat, rolled up his shirt sleeres, and took from his pocket the instrument of salvation. It was a small tube, or trocar, with a lance passing down the inside. He began to use it with a dexterity that would hare graced a hospital surgeon. Passing his hand orer the sheep's left flank, and selecting the proper joint, he punctured the skin and rumen with the lance as it stood in the tube; then he suddenly withdrew the lance, retaining the tube in itss place. A current of air rushed out the tube forcibly enough to ha
You will be pleased to know that of the fiftr-seven sick sheep forty-nine were suc cessfully treated, and three recorered without an operation. In only one case was
the lance misplaced. Four died before the remedy was applied.
As naturally as Rosa Bonheur pictured sheep with her brush, Mr. Hardy puts them before our imagination by ueans of fitly-chosen words. This is an excellent description of one freshls shorn:

The clean, sleek creature arose from its leece-how perfectly like Aphrodite rising from the foam, should have been seen to be of its of its garment, which lay on the floor in tion tisihle being the inner surface onls, which, nerer before exposed, was white as snow and without flaw or hlemish of mi-
uutest kind."
Mr. Hardy does not carc to describe costI clothing or expensire furniture. Th realities of nature, the things near the soil, are dear to his heart. Beauty of face, both spiritual and plissical, appeals to him
strongly. The force of humau passions, the
pain and beauty of love, the stubhornness of self, he paints as plainly as he does a calm or tempestuous landscape. It is impossible in one column to do justice to his genius. I can but attract attention to his skilful art.
In conclusion I copy a scene of a furzegatherer's garden on a rery hot day. It is a rivid picture.
"There lay the cat asleep in the bare gravel of the path, as if beds, rugs and carpets were unendurable. The leares of the hollyhocks hung like half-closed umbrellas, the sap almost simmered in the stems, and foliage with a smooth surface glared like metallic mirrors. A small apple-tree of the sort called Ratheripe grew just inside the gate, and among the fallen apples on the ground beneath were wasps, rolling drunk with the jnice, or creeping drowsily about the little cares in each fruit which they had eaten ont before stupefied with the sweetness. By the door lay a furze-hook and a bundle of fagots."

Kate Kacffarañ

## HELP FOR GOOD HOUSEKEEPERS.

I call this letter bs the abore title, because it is a help to know, when you are trying a recipe, that it has been used orer and over again without any failure. since writing the preceding article or you our currant jelly has been made by the recipe giren then, and it is beautiful, bright red and firm, withont any tonghness. If sou, my dear good honsekeepers, hare tried this or any other of the recipes giren in the last number of Farm and Fireside, you will not be unwilling to read these, and I hope will hare sufficient faith to beliere they will be equally useful to yon. From me you shall have only such as I have well tested.
Canned pineapple
Canned pineapple is
considered by many a considered by many a
great treat, and I am sure great treat, and I am sure
yon would commend ours yon would commend our ple, done by the following recipe: To can pineappl in the most appetizing rar, select those which are just ripe-not soft Pare, being careful to remore the dark eyes. Pick the apple off with a silrer fork, as if you each pound of the froit the cob. T each pound of the fruit add three quar-
ters of a pound of granulated sugar. Mix in your porcelain kettle one layer of fruit and one of sugar, and so on. Set ou the back of the store until it comes to the boiling point. Skim well; bring to the front and let it boil almost ten minutes. Put in self-sealing glass jars while rers hot. Follow the directions about heating the glass cans or jars. Of course, you don't use the core of the pineapple, but save every drop of juice and do not add any rater.
Raspberry jam made by these directions s excellent and unfailing. Many persons, and good housekeepers, too, mix currants With their raspberries. We like ours better without them. Be careful, when looking orer the fruit, that no decaying berry escapes your notice. To every seveu sugar. Put in your kettle a larer of fruit and sugar alternately. Set it back on the range until it begins to boil, skim well, and keep it boiling twenty minutes. Put in tumblers or bowls. After corering the surace of the jam with tissue-paper cut to fit, and dipped in brandy, then cover with let-ter-paper or stiff writing-paper and paste with ordinary flour paste. The mixture When done should be moderately thick. Occasionally the jam is too thick when
taken from the glass; it mar result from the taken from the glass; it mas result from the quality of the sugar. We then nake just enough strup of sugar and water, hoiled uncr, and add to the jam before serving. Green and yellow gages are generally ready for presersing about the middle of August, and are delicious conserve. They are better done by this recipe than any I have ever tried. Washand notice carefully, cutting out the rery smallest speck of dccay. Pack into your glass jars until they will hold no more. Make a syrup of half a pound of sugar to half a pint of water. Allow this measure for each quart jar; half the quantity if rou use pint jars. Boil a fer moments and skim. Pour orer the fruit, filling the jars to the brim. Pat on the lids, but not the rubber bands. Hare your wash-kettle ready, put pie-plates
turned upside down on the bottom of the kettle. Set your jars on them and pour in the kettle cold water to the depth of half the height of the jars. After the water boils, let them remain in the boiling water ten to fifteen minutes. Remore one by one, wipe the edge dry and pat on the rubher and lid as quickly as possible. Screw rexy tightly. Examine the next morning, and if possible, gire the lid another tura.
Raspberry rinegar is one of our most cooling and delicious summer bererages. This is easily made, and with some of the fancy sweet crackers, bought in such rariety and so generally nsed, is an excellent refreshment to hand a friend in rery warm


weather. You know, my dear good houseWeather. You know, my dear good house-
keepers, that it is much easier to pour one or two tablespoonfuls of this into a glass and fill np with cold water, than it is to make lemonade, eren if the lemons are at hand, and many prefer the raspberry villegar. To each quart of berries, after picking orer carefull 5 , allow one pint of white wine viuegar. Mash together and let stand two or three days, stirring occasioually. Strain through a flannel bag and add one pound of white sugar to each pint of juice. Boil twenty minutes. Skim well juice. Boil twenty minutes. Skim well
and bottle when cold. Cork tightly. They and bottle when cold. Cork tightly. They
need not be sealed. Hope Holidar.

## DOXOLOGY AND OVERCOAT.

A New York clergynau, by an understanding with his organist, had the music suddenly cease iu the midst of the final
doxology. It was a grotesque scene which the sudden silence revealed. There was a man with his head under the seat looking for his rabbers; there another with arms ontstretched working himself into his orercoat; there one reaching for his cane iu the corner of the pew; there one stroking affectionately his bearer hat, and so on. The joke was quickly seen. The people who the friends whose dressing-room performances had been thus awkrrardly arrested. A few calm words from the pastor sent A few calm words from the pastor sent
the audience out with a new idea of the the audience out with a new idea of the
sacredness of God's house. The rebuke sacredness of God's house. The rebuke
was deserved. Alas, we fear that in most was deserved. Alas, we fear that in most
of our churches the closing hymn has little of worship in it. Reader, think of this next Suuday when the concluding act of worship draws near. God is as worthy of the last act of worship as of the first. Wait till after the benediction before rou begin sour preparations to leare the sanctuary.

## T TOBACCO SPIT OR SMOKE

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is the title of a little book just receired, which tells all about NO-TO-BAC, the wonderful. harmless, guaranteed tobacco-habit cure. sild
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## The original Jews aud Romans dated the

 beginning of the year from the first of Mareh, makiug August the sixth month in their division of it. For this reason the Romanıs gave it the name Sextilis. In tho year 30 B. C., it was changed to August, by the Emperor Augustus Ceesar, in honor of himself. Having gained several imporof himself. Having gained several impor-tant victories in that month, he considered tant victories in that month, he
it a fortunate period of the year.
it a fortunate period of the year.
August is a month, however, that is alAugust is a month, however, that is al-
ways more enjoyable in the winter than at the time when it is present with us. By this I mean that "distance lends enchaut ment to the view,
When all the winds of Tolus have slipped from his control and are howling about our dwellings and down our chimneys, and as Bayard Taylor poetically expressed it,

## "The wild white bees of winter

Our memories idealize the beauties of the vanished sumuer-time; and we are ready not only to cry out for June aud "long for her pure white rose," but to welcome, also,
the riper days which follow close on her the riper days whi
glorious initiative.
If time and the world.could ouly stand still at June, we should enjoy, so far as beauty is concerned, a perennial paradise
It is so full of exquisite promise and beautiful prophecy, which the consequent ummer months, while they develop, ean not be said entirely to fulfill.
July and August, especially the latter, are seasons in which there is a sense of oppression in the summer's fullness. It
becomes like an overblowu rose, which is becomes like an overblowu rose, which is always less attractive than the half-
disclosed, half-hiddeu blush of the bud. disclosed, half-hiddeu blush of the bud.
The foliage and vegetation has become coarser and less delicate. We see the progress of the fruit, where the blossom loosened its hold and fell away; and while we realize all the beuevolent intentions and working 'philanthropy exercised by the late summer towards us, we do so without being able to admire 'its advauce as
ciate its results
There is a languor about August which affects humanity, in our climate, somewhat similarly to that of thing may be said to be "hetween hay and grass." The leaves are ripening some of them are becoming yellow and fluttering to the ground; but it requires the first touch of frost to breathe upon them renerved beauty, and like the tints of Titian, dash the
canvas of nature with resplendent canva
liues.
The mother dreads the coming of August, with its hot days and nights, and long list of infantile complaints for her child. The housewife feels the effect of the long stretch of nou-abating heat, as a weary pedestrian does the hot march on the level of the dazzling road, where no shade intervenes. There are over-exertion and sunstroke and prosand prudently aroided. August is the time when there should
"Arrive a lull in the hot race,
And an unwonted calm prevade the breast;" For worry, bad at all times for the system, is worse when the system is depleted by the lassitude which attends extreme hot weather.
Happy that iudividual who is so eonstituted as to be able, at this season, like "the fat boy" in Pickwick, to take his "forty who can retire into the sylran shades of the country and swing in that boat of the air, the hammock; always providing that the mosquitoes do uot descend on them in clouds, like the locusts upon Egypt.
Happy he to whose abode the ice man comes in the morning with great slabs of coolness, which he (the householder) knows
how deftly to mingle with sugar and how deftly to mingle with sugar and
lemons, while he pities, with all his heart, lemons, while he pities, with all his heart,
those ancient Greeks who denied its cooling "ade," and the Romans to whom, in their Sextilis, the lemon was eutirely unknown.
The summer romance is a great blessing; aso a wardrobe approachable in thinuess by the Tndian princess, whose father comnanded her,' in the interest of modesty, "Go back, my daughter, and put on seven suits more."
It is from July third to August eleventh that "the do $\alpha$-star rages," and we have that but, to be guilty of a bad pun, the twenty
additional ones which complete the thirty-
one days allotted to August, are in many
espects quite as sirius.
What I have said in the foregoing is descriptive of the regulatiou Augusts of "ye olden tiues," which, however, have been so variable of late years that uo his pror prophet cau be certain that any of will prove correct. But in the caso either of heat or cold, certain resources are opeu to us in which we may fiud cousolation. If hot, we can dwell on tho temperatureloweriug thought of Lieutenant Peary on his way to the uorth pole. If the reverse, we can muse on the situation in Hawaii, and wonder, if our government should annex it aud its volcanoes, what effect it would have on the atmosphere.

Minnie W. Baines-Miller.

## SOME THINGS EVERY COUNTRY WOMAN NEEDS.

She needs a stout pair of gloves for driving. Biarttz is a good make, but in selecting them be careful to get a heavy grade, as they come in different qualities. They are buttonless, wear well, and eost but one dollar per pair
She needs not many dresses, but a few well-choseu ones. Plenty of wash dresses for the house is good economy, and for these nothing is so pretty and satisfactory
rubber boots or boys'sizes; theseare herf er and some think they wear better; $\rho: j$ inem and make a short skirt reaching f, ittle below the knees.
Arraugo your outdoor work so that one off your be stcceeded by another. Shp uew apparel; never mind if "Solomon in all his glory" was arrayed a little difforeut1y. You will be arrayed with the glory of common sense and comfort. Naybe you will go to the milk-house first, where you will splash around and serub all you please without a fear of wet feet and soiled dress then when you go to the chicken-yard "to fuss" with the poultry, the wet grass won' hurt you a speck. Then when you go to the garden for vegetables and berries for diuThen wheu you come in and exchange your outdoor costume for your dry dress and shoes, you will be reasonably proud of seusible.

Mary D. Sibley.

## FRUIT DESSERTS FOR THE COUNTRY HOUSE

 WIFE.Many couutry housekeepers fail to de rive the benefit they should from the fruits around them, both wild and cultivated, rarely preparing them. in any way save pies or dumplings. Where milk and eggs

as blue calico. Brilliantine is excellent for a general-purpose dress. It wears like iron, sheds the dust, is not easily soiled and will not muss.
She needs not an old, hot sunbonnet, which plays the mischief with her smooth locks and at the same time half smothers her, but a broad-brimmed straw hat, supplied with two hat-pins, which will safel auchor her hat in its proper place.
She needs two Martha Washing ton caps, one forsweeping and one for cooking. The former will keep the dust from her hair, and the latter will keep her hair from the cooking, for accidents will happen in the best of families.
She ueeds the patience of Job and the wisdom of Soloinon.
She needs-now, just stop to think, how much she needs to be sensible in the way of taking care of her body and of her mind. Rest and change are the two guardians that will keep her safe. The rest may be but half an hour spared from each day, but let it be perfect, let it be absolute rest. The change may be but a walk to a neighbor's, a chapter from a good book, or anything that will relieve the mind from the routine of her daily life.
She needs-did you ever, my sister, go around with bedraggled skirts and wet feet? Skirts nasty and soiled around the bottom-wet and dirty, making you feel forlorn and wretched, making you a sorry did and if you have, voi need not do so an more if you will youly with a pair of rubber boots (get either ladies'
may be made at so small a cost, and so lit tle labor, that there is no excuse for the family table ever being without them Raspberries, currants, cherries and black be in seasou, may bc used to make Bavarian creams, blanc mange, charlotte russe compotes, ices and other light, palatable dishes. The recipes here given will fur nish a variety of daiuty dishes for the entire sumuler.
Fruit Blanc Mange.-Put a quart o milk on to boil; mix a tablespoonful of moss fariua in cold milk, and add to the boiling milk with half a cupful of sugar and one beateu egg; stir over the fire until the sugar is dissolved, take from the fire and add half a pint of raspberry, currant or blackverry juice, pour in a mold and set to hardeu. Servo with rich cream.
Fruit Charlotte,-Cover a fourth of a box of gelatin witl cold water, and let soak half an hour. Whip a pint of thick cream, just off the ice, and set in a cold place. Put another pint of cream in a small saucepan and set on the stove to boil; beat four eggs and half a teacupful of powdered sugar together and add to the boiling milk, stir until thick; add the gelatine, take from the fire, stir in a pint of strawberrics, currants or rasplberries and half a pound of stale scraps of spongecake, broken in pieces; turn into a fancy mold and set on ice, stir occasionally; as the mixture begins to thicken add the whipped cream; set on ice to harden. Serve with whipped cream.

Frut Bavarian Cream.-Cover half a box of gelatin with cold water and let water half an hour, then sel over boiling water and stir uutil dissolved. Whip a piut oream, add it to the gelatin, mix well, nd stir iu a pint of any fruit juiee desirsule in which has been dissolved acupful of until, pour in a tin pan, stand on ices stif antil set on ice to harden. Serve with whipped cream.
Aiple Charlotte.-Pare and steam six ripe apples until tender, press through a colander and add a cupful of sugar. Cover half a box of gelatin with cold water and t soak half an hour, add to the hot apples and stir until woll mixed; pour in a tin pan, set on ice, let thicken, add quiekly a pint of whipped cream; turn in a mold and stand in a cold place to harden.
Fruit sponae.-Boil a pound of sugar and half a piut of water together until a clear syrup; pare a pound of apples, core, and slice into the syrup, set ou the fire and stew until tender; cover half a box of gelatin with cold water, and let soak half au hour; add to the apples, press through a sieve; add the juice and grated riud of two lemous, and stir uutil cold and thick; beat the whites of three eggs stiff, stir into the apples and beat until cold, pour in a mold and set to harder. Serve with vanilla or lemon sauce. ill kinds of berries and tart fruits may be used in making the sponge instead of the apples.

Etiza R. Parier.

## going to church.

I wonder if all our Farar and Fireside sisters get off to church Sunday morning. I suspect if I would hear you, I should be greeted with a chor'us of "Ah, no!" Well, I wish you might; I don't know why, but need, more demand of spiritual affairs than a man has. Whether her trials are more perplexing, her duties more petty I more perplexing, her duties more petty I tired womau finds heart's balm as she listens to the voice of her pastor on a quiet tens to the voice of her pastor on a quiet
Sunday morning. And as she greets old friends and looks into the faces of dear ones, hears the sacred music and good words, her soul is lifted up and out of its old self, and she is refreshed with a sweet contenturent. I believe, too, that her life would be easier the coming week; that for a little good old-fashioned heart "religion," the household machinery would run

## all the smoother.

It will not do to shut everything outside out of our lives, thus leaving us in the same old rut. While I sometimes think thatothe saying that there are more farmers' wives in the insane asylums than any other class of people is but a stereotyped newspaper statement, yet I must acknowledge that such a coudition might be very possible. Quiet is a restorer, but monotony is a destroyer.
But I started to tell you something. I know a little band of people, mostly women on farms, who do their own work and yet manage to meet for worship in a little church around the corner, and also twice a month for other meetings; some live six, some seven and some even eight miles from the church. Sometimes during the winter they take their dinners, and eat in the basemeut, which is fitted with kitchen and dining-room. I know sometimes it is almost impossible to get away, but in that case we should try to bring some new feature into the day and make it, as far as we possibly can, as God inteuded ii should be, "a day of rest."

Wheu we are away from home we often ike to remember the people at home with some little gift. Sometimes it does not suit the convenieuce of one's pocket-book to remember each individual. Then why uot buy something which will do for all? A pretiy dish for the table, a picture, a vase or the latest book will be appropriate. A small sum recently invested in a glass rosc-jar has brought inot only fresh flowers to the table every day, but has brought pleasure to the whole family as well. By the way, why not make a practice of having flowers on the table each day, and have the table look as iuviting as possible in other ways? It pays, with a big interest. For children, and even for grown-up people, a large doily may be placed under each plate. These are easily removed when soiled and fresh ones supplied, they beiug inuch more easy to wash than the tablecloth. If one always keeps her table set, it is a very good idea to have a cover for it. One that is easily made is of cheeseturkey red. $\mathrm{M} . \mathrm{D} . \mathrm{S}$.

## (A)IT dituthold.

## it's vera weel.

It's sera meel, throughoot the day,
T'nen ta'en up wi' wark or nlas,
fro think a man can live alway, think a man can live alway,
Wioot a wifer.
But it's anither thing at night,
To sit alone by can'le light,
Or gang till rest when sharp Tinds bite, Wi'oot a wifer.
It's vera weel when claes are nem, To think thes'll alwars last just so And look as well
Wi'oot a wifey.
But when the holes begin to show The stitches rip, the buttons go, What in the Warl's a mon to do Wi'oot a wifer
It's rera weel when skies are clear,
Thisen frien's are true and lassies d To think ye'll gang through life, nae fear, Wi'oot a wifes
But clouds will come the skies athwart Lassies trill marry; frien's maun part. A dear wee wife
It's sera weel when soung and hale, But when se're auld and crazed and frail And your blrthe spirits 'gin to fail fant a wifes.

But mayhap then the lassies dear Wecause ye're crankr, gray and sereTe'll get nae wifey
Then haste ye, haste, Fe silly loon, And get hearen's greatest earthly boon, A rree bit wife

- Wallace Dunbar, in Amusing Journal.


## HOME TOPICS.

Uffermexted Wine.-The pure, fresh juice of the grape cannot be too highly recom-
mended as a refreshing mended as a refreshing valuable for invalids and conralescents. Much that is sold uuder the name of unfermented wine is not pure and contaius at least a small per cent home as grape jelly, and may be kept perfectly fresh and nice for an indefinite period.
Pick the grapes from the stems, wash them and put them in a preserving-kettle. Mash them to get enough juice to start them eooking without adding any water. As soon as they boil up well, strain the juice through a jelly-bag. To the juice from twenty pounds of grapes add three pounds of sugar. Heat the juice again to the boiling point, skim, put it into glass jars or bottles and seal immediately. As it will not keep after being opened it is best to put it iuto pint or quart jars or bottles. If bottles are used, put in new corks, tie them down and then tie a piece of cotton batting orer the top. This will effectually preveut all fermentation. If
sou have an Enterprise fruit-press, of course the juice can be pressed out without scaldiug the grapes. In this case, strain and finish as before. This grape juice makes a nice pudding sauce.
A Usefle Pastime.-Many boys and girls are interested in making collections of postage-stamps. The value of these collections will be much enhanced if in connectiou with the collection of stamps of any country the history, customs, etc., of that couutry are learned.
There are a number of very interesting and instructive collections that children in the country can make, and the long summer vacation is a good time to begin
something of this kind. A collection of something of this kind. A eollection of
the varions grains anc the different varieties of each is one. Put the samples in small glass bottles, corked, labeled and numbered. Iu a book, write under each
nuinber all you can lerrn of the origin, listory, mode of culture, soil and climate best adapted and uses of that sample. It is surprising how interesting the work will grow aud how much valuable information will be gathered.
Another interesting collection is of the different kinds of wood. A small section of the bark, a thin cross section and a lengthwise section of the wood and a leaf
of each variety should be glued to a card and the name and number written on it. and the name and number written on it.
i book similar to the one on grains should e kept.
Childreu should be encouraged to use their eyes and to exercise their natural
curiosity in learning the habits and chara teristics of the denizens of field, forest and stream. It takes time, patience and courage, but the mother who seeks to
interest her children in the beautiful and wonderful things that need but an earnest, watchful eye to discover will be well repaid. Nature's treasure-h use is inexhaustible, and to him who early learns to read her secrets is given a never-failing source of entertainment and iustruction,
cosides the acquisition of habits of obserration which will be invaluable through life.

Maida McL.

## arrangement of the halr.

With the return of many of the old fashions in dress, we will have to accept the foriner styles of wearing the hair. The tangled style will soon hare to give way to the parted, smoothly-banded hair we can remember our mothers and grandmothers wore, and really, nothing was ever prettier. It brings to many of us a pleasant recollection of the sweet, peaceful face of mother or aunt who wore that style of hair.
The blousy, fussy, blowy style of the present day has been adopted by old and roung, and it is rare to see plain hair now. The puffs and rolls at the back are very airy for summer. The strand of hair is rolled on the finger, fastened with cap wire and pin in place. This is not so heating to the back of the head as cushions and coils.

A moderate use of the hot iron to curl has a beneficial effect upon the hair, in some cases inducing rapid growth.
Ereryone should select a style becoming to them and adhere to it, as one style will with side bangs curled; a fat face should have only a few on the forehead. The very have only a few on the forehead. The very
heavy curled bang is rery little worn, and of chicken hens, and the eggs should be

is apt to give a coarse appearance to the face. The hair is every woman's best adornment, and needs great care and atten-
tion. L. L. C.

## SOUR YEAST BISCUIT.

Put a pint of warm water in a crock or jar with a little hop yeast, or if you happen to have any kind of sour dough on hand it is better; add flour enough to make quite a stiff batter, beat it well and set in a warm place to rise and sour. At night add more warm water (as much as you would
use of milk to make a batch of biscuit) and thicken with flour as before, set in a warm place to rise; in the morning, make your biscuit the first thing, so they will hare a little time to rise. Pour the yeast out in your dish of flour, add soda and a little salt (it does not require the soda that the same amount of milk does), knead quite stiff, place in your baking-pan, and set to rise if you have time. If you do not have good, you have time. If you do not have good,
light biscuit the first time, notice what is light biscuit the first time, notice what is
wrong and try again. It takes practice to make perfect, eveu in making biscuit, and be sure to save enough reast to start again. D. E. W.

TOILET NOTES FROM OUR EXCHANGES. Care of Hair, Teeth, Etc.--1 huudred strokes, fifty on a side, every day will keep your hair like satin, and ten minntes
will do this. One minute in the morning will suffice for scraping your tongue, which will insure you a sweet breath, and it is no more trouble to dip your tooth-brushints the box of salt, which will kecp your gums rosy, than to use plain water. A bit of
pumice won't take up much room in the
soap-dish, but it will keep feet and fingers smooth and dainty, and, by the way, there kept as dainty as the hands. They are certainly much less exposed to changes of temperature than the latter, and from the greater heat, the skiu should be softer and finer.
Tee Use of Powder.-A shins face is simply vulgar, and a little powder, care fully put on, will be a great relief. Be careful to get it the right shade. A pink or white powder on a dark skin is an abomination. Get it to mateh rour skin; put it on in a strong light, where any bit too much will be plainly.seen. Wipe it ore with a handkerchief, for that remores it lots better than chamois, and no one will erer notice it. Be careful that none sticks to your eyebrows. That is rulgar, and don't let any get near your lips, for it mill make your teeth look yellow.
Perfune.- It is dainty to use always th same perfume, until it becomes as charac teristic of you as your smile. Tiny, flat silk bags, containing perfumed powder stitched in your bodice and here and ther in your gown, will be found delightful.

## WHY YOUNG TURKEYS DIE.

I think I have solred the problem of the great mortality among joung turkeys. Some of my neighbors raise them without any difficulty whaterer, while they just die off by the dozens for others. I am in the business myself this summer, not in very extensive scale but quite larget ough rery extensive scale, but quite large enoug turkeys should raise the little ones instead
world, and every two hours at most, come arouud for their regular feed of scraps of bread left from the table, or corn-meal, though they do not like that rery well. Curd from sour milk is good with other food, if notscalded too much, which makes it tough.
I hare in mind a place where the ittle turkeys die nearly as fast as they are hatched out. I do not mean that young, but after they are a few weeks old. The hens are kept iu coops, no boards under them, the ground is flat, no grass, and the poor little turkeys run around, or rather, stagger around, looking so pinched and feeble that it is pitiful to see them, and the smell arising from the coops where the turkess are obliged to stay, at least at night, is dreadful. The rains keep the tlat ground soaked with moisture and-well how could they live?
I have not lost one, and grow-we can almost see them grow. Thes are all feathered out and the happies things on earth. So hereafter I shall just pin my faith on these two things, in suc cess with turkeys, cleanliness and frequen feeding, at least while feathering, as they require a good deal of food to supply the feather growth. More some other time, fo my pets want something to eat.
A. M. M.

## A WORD TO THE GIRLS.

Girls, do you know how much more your brothers know about some things than you do-things which are just as necessary for you to know as for them? I have refer euce to your lack of ability to express yourselres in regard to distances and measurements.
"How far," asked a lawyer of a woman witness, "was the man from your house?" "About as far-as far," hesitated the witness, "as from here to the other side of the street." A man would have giren no such answer, but would have stated the distance approximately in rods or feet
"I wish rou would make this shelf about this much shorter," said a woman to a cab inet-maker, as she measured off the dis tance on the hem of her apron. The man laughed good-uaturedly and said, "That's just like a woman, no idea of feet and iuches.'
"I hare no idea whether there are fifteen or thirty acres in this field," said Mrs. Farmer, as she was driving along the road with her husband. "I have no eouception of such measurements.
A teacher once tried the following experment with a mixed class: "Go to the board and mark off a distance of six feet use no guide excepting your ere." Th result of the marking was that the bors raried but an inch or so from the required measurement, while the girls missed the mark woefully, an over or under estimation of two or three feet being not exceptional.
The difference all comes in the training, for of course a girl is just as eapable as her brother in such matters, as far as ability is concerned; the only difference is that she is not taught to obserre. A good way to aid yourselves, girls, is to obtain by actual measurement a certain distance, say from the porch to the gate, or take the width of the walk, compare with the eye other dis tances which are adjacent, and you wil be surprised how quickly the eye can train itself.
The power of observation is valuable, and if it is dormant it can be cultivated with a little patience.
A great deal of interest was manifested in an observation class ou Friday afternoons at school. Each pupil asked a questiou regarding some familiar surrounding "Is the tree by the school-yard gate walnut or maple?" "What is the color of the pump?" "Is the advertising on Mr. A's pump?" "Is the adack or white letters?
The object is to teach childreu to see and a few such questions as these wil quickly determine with what blind eye they hare been seeing (if one may use A great deal of merriment may be caused at a party by listening to the descriptions, written by the gentlemen present; of the ladies' costumes. The awkward attempt will not rival aus bluuder a girl may make in guessing distances. A man who was de scribing tucking, said that it was one plait shingled onto another.

## AN ASTHMA CURE AT LAS

Furopean physicians and medical journal eport a positive cure for $\lambda$ sthma, in the Kola plant, found on the Congo River, West Africa. The Fola Importing Co., IHA Broadwar, New
fork, ire ending free trial cases fof thie Nola
ompound by wiail to all sufferers from compound wh send name and address on a Asthma, who send name and addre
postal card. A trial costs you nothing.

## OVERWORKED WIVES AND MOTHERS.

 Yes, "all work and no play makes Jack a dull boy," and the same conditious are just as sure to make Jack's mother dull, dis pirited and prematurely aged, if indeed prostration and years of weary invalidism (a fate which may be even more cruel than death).But Jack, the irrepressible and self-assertive Amcrican boy, may be safely trusted to in time throw off any yoke of bondage which the most selfish and obdurate father,
or close-fisted, grinding employer, can inflict. Not so with Jack's mother. If she was not born of a finer fiber than he, it not educated to bo self-reliant and assertive, but to suppress her individuality and independence of thought, and to unquestioningly perform whatever tasks were required of her. enoughself-assertiveness to demand justice for themselves, or who realize that they are often their own most unreasoning and exacting task-master. And even among this minority are many who lack the
courage of their convictions and dare not courage of their convictions and dare not
defy the conventionalities, and incur the censure of Mrs. Grundy. And so, dospite the wonderful advances in "higher educa tion," and the so-called "independence" of women, the words are as "tinkling brass
and a sounding cymbal," as far as the majority of wives and mothers are concerned.
To be sure, we are a nation of dyspeptic, nervous men, and of children with an unbalanced development of brain over muscular power. Bul ders, which prevails among American women, is a far greater evil than either o these, for it is in part the cause and does much to aggravate and increase the others. If only extreme poverty (as it.alone should) impelled Jack's mother to a life of such monotonous and incessant labor that
even her brain becomes dull and stupified, a remedy might far more easily be found But alas! tabulated statistics show conclusively that ill health among women is more prevalent in the country, where actual want is seldom seen, and where it
health could be easily secured, than in a large town. In other words, that lhis more than to the wearing demands of society and motherhood, or the privations incident to a life of poverty.
And this mother of the farmer boy, Jack, is precisely the one we are talking to, her needs and can easily "put ourselves in her place.
Very likely the farm is not yet free from debt, and she equally with her husband (for that all husbands are selfish and un-
reasonable and demand more of their wives reasonable and demand more of their wives that they must drive themselves to work early and late until this has been accomplished. Consequently no help is kept
indoors, and the wife works sixteen out o every twenty-four hours, and much of the time in an ill-ventilated, overheated food, and perhaps sleeps at night in an adjoining bedroom, small and stuffy. Or if she occupies a chamber above, it is very likely the smallest one, or situated on th light cannot possibly enter to purify it. Nor is it wise economy when your power are already overtaxed with the demands of motherhood, to goad yourself to accom-
plish the work of two women for the sake of a few dollars, or a year or two more or less of indebtedness.
No matter how hard your husband works, whether he has two, one or no
"hired man." He is not a mother, and his work is nearly all done in the pure air and invigorating sunshine; he takes a "nooning" after dinner, and when evening comes drives to the post-office and is refreshed by less familiar sights, and by contact with other, perhaps brighter minds. After this, no matter how tired he may have been, he sleeps soundly, and nature is given an opportunity to repair the wastes made upon
his nervous force during the day, by the only methods God has ordained-rest and sleep.
Is there any good and sufficient reason why you should wear yourself out any more than he? Does any wifely interest or love demand that you shall sacrifice your health and happiness for sordid gain? Most assuredly not, and when you real-
ize that you are constantly compelled to ize that you are constantly compelled to
overwork, in justice not only to yourself, but to the little lives you have launched
into the world, you should resolutely in into the world, you should
sist upon doing it no longer.
I know that capable domestic help is scarce, almost impossible to obtain.in the country; that they demand good wages, are often wasteful, imprudent and unrelichoosse the least, and it is less wearing (though you may often doubt it) to oversee and assist incompetent help than it is to endure the constant strain of overwork If help positively cannot be obtained or forded, then do bo sensible and inde peudent encugh to curtail the amount of
work done, roçardless of any criticism or work done, rçardless of any criticis censure that such a course may evoke.
The desire to dress one's self and childre well and beconingly is a duty. But thi oes not necessitate the wearing of fanc ully made and elaborately trimmed gar ments, that shall tax your purse to buy nd your time and strength to make and aunder.
To insure a fair degree of health you should understand something of the relative value of at least the common articles of food and methods of cooking, in order to provide a varied, nutritious and attractive diet. But this' does not necessitate your spending an indefinite amount of time in making elaborate dishes and fancy time in 1 .
Nothing that pertains to the sanitary condition of a home and its adjacent su roundings, sinks, drainage, ventilation cellar, closets, etc., should be neglected To make an attractive, restful home, one that shall be a haven of comfort, joy and peace; that shall exert a refining and elevating influence over husband and children, and type the "home eternal," is certainly the noblest mission possible to woman. But this does not require that nd scour, or that hall be devoted to that possible moment hall be devoted to the making of fancy does require that you shall be cheerful, hopeful and courageous; that you shall be patient, tender and loving; that you shall enter into your children's pleasures, disappointments and sorrows, and that you shall be a true help-meet to your husband. And no one cand do this whose nerves are worn out by constant overwork; our higher nature is dependent upon our lower far more tha
Just now, at the commencement of the busy season, is an excellent time to inaugurate a thorough reformation in your methods of work.
Not only determine to have all the laboraving utensils and conveniences possible to facilitate your work, and to use the sunaiest, pleasantest rooms in the house for your own family, but to study constantly
to judiciously shirk work, and to secure at least an hour every day for rest and recreation.
To be sure, change of occupation is rest, in a limited sense, but every housekeeper, especially if she is a mother, should have that much time every day when she can det down the tension, forget the carking, lute rest. How this can be securéd each one must decide for herself, but be sure that it is worth strenuous efforts and great self-denial. Lie down, read, romp and play and got acquainted with your children; run out gora neighborly chat, or work in the fower
garden. If you cannot get an hour at a time, take it in ten and fifteen minute install ments. But do not lie down in a hot,
odorous kitchen or stuffy, darkened parlor, Fo to a chàmber that has been thrown open all the morning to the sun and fresh air, or better yet, when warm weather comes, in a ham mock on the piazza or under a tree on the lawn.
There is no tonic for jaded nerves in the whole materia medica equal to God's sunshine. Let it flood your room. Better have faded carpets, or none at all, than par lid cheeks, dull eyes and the "blues"
If you have, in a half-hearted way, tried to cultivate a few flowers, make a success of it this year by giving them a little of your time each day, and by studying their habits and needs. Yon have no idea how the mean little worriments and carking cares of life will vanish when once you are
out in the fresh air and sunshine, with out in the fresh air and sunshine, with
your hands in the warm, fragrant earth. your hands in the warm, fragrant earth.
Not only take your rest out of doors, but Not only take your rest out of doors, but
do all the work possible out there, also. Garments can be made and mended, vegetables and fruit prepared, ironing, and
many other kinds of work done as expedi-
tiously and easily on a piazza as indoors. Set the breakfast-table out there on fine mornings, and see what a different keynote is pitched for the day than when it is eaten in a close, dark dining-room. If you have no piazza adjoining the kitchen, use the more conspicuous one on the side or front of the house; health and happiness for yourself and family are of greater value than the comments of neighbors or pas-sers-by.
I do not assume that any or all of these suggestions faithfully carried out will riments that harrass a housekceper's and mother's life. But that they will go far to restore wasted cerve force, to banish irritability and the "blucs," and to bring in hope and courage, I know. Test
them for six months, and prove it for them fo

Katherine B. J
Linen is one of the oldest fabrics in ex istence. We know this from its frequent meution in the Bible, where "purple and fine linen" is a synonym for sumptuous mies is called cerecloth. This is an example of the durability of the textile: A certain archæologist tells of narkins found in the coverings of a mummy which he unfolded and had washed several times, using them with veneration, and much exercise of imagination, for he knew The porulaty which linears old.
The popularity which linen possessed in ancient times continued until cotton be while the cheaper, coarser substance wa urged upon general use, but at the presen day linen has regained its supremacy
France, Belgium and Holland are the finest linen-producing countries. They became accustomed to making linen thread count of the lace-making carried on by their inhabitants, and naturally the nex step was to produce thread for weaving.
As everyone knows, the process of making thread is called spinning. At first managed by hand, simply twistiing the flax between the fingers of the right hand
from a distaff held in the left, or stnck in the belt of the spinner; it. progressed to the spinning-whcel, which was worked by
This was one of the most picturesque modes of industry that ever employed women's hands and feet. Artists and picture lovers owe much to this stage of the how recently this was the best means o spinning a thread. The invention of the spinning-wheel, which occurred in Nuremhundred years no improvement was made. About that time a machine was produce by which eight threads could be twisted at once. This was the first spinning-jeuny wildest dreams of even hopeful weavers Cotton, wool, flax and silk can be spun to enormous length and of such exquisite tenuity as to rival a spider's finest web.
Much coarse linen thread is used as th warp of other materials, and flax is largely employed in velvet and velveteen. These
are of English manufacture. In Scotland are of English manufacture. In Scotland
are made ducks, hackabacks and ticking,

The yery finest
The in France.
The of
Hee mode of weaving linen gives it dif
ask
As all women know, Scotch cambric is really only a fine grade of cotton muslin,
but properly, cambric is one of the thinuest of linen fabrics, perhaps next to lawn. It
is made in Swizerland. Travelers in that country will often see comely SWiss womed
sitting by the roadside with their hand-
some braids of hair uncovered in what seems to the tourist rather a cool tempcr
ature for such an airy head-dress. But th ature for such an airy head-dress. But the hat needle on a dainty square of camblics
her nemples
Several finished handkcrehiefs she ald has on hand, which sho offers for sale with
a grace that is both charming and busia grace
nesslike
nesslike.
Diaper is a design of geometrical figures,
used mostly in toweling.
Damask is dear to every woman's heart.
Damask is dear to every woman's heart. It is supposed that this word is derived
from the city of Damascus, where it was
first made from made. The name damask is appropriately applied to all the fabrics in which
figures of fruit, flowers, or others (not
geometrical), are woven. This includes
table-cloths and naplins, table-cloths, and napkins, the beauty of
which, I think, is unequaled, in exquisite
refinement, by any other houselold goods. refinement, by any other houselold goods.
It is made in Belgium, Austria, England
and Ireland, but particularly in Scotland.
One city there One city there, Dunfermline, produces Since nachincry has relieved women
from spinning and weaving linen, they have delighted in embellishing it with emsheets is by a hemstitched edge. Drawn-
work, which, during the last six or seven Jears, has been revived in all its beauty and
elaboration, is not now absorbing so much
time and attention; but all own and attention; but all persons who
own choice piece value them for those
qualities which are too renuin be effected by freaks of genuinely good to It is certainly indicative of refined taste
to choose linen rather than any other nıaterial asa foundation for thoughtful design and skilful handling. It has strength with delicacy, and instead of being injured in polish. Table damask grows more beautiThe ironing of a fine table-cloth is an art,
proficiency in. which the daintiest lady
may take pride.
KATE KAUFFMAN.


A home-made drink. A health-giving drink. drink that is popular everywhere. Delicious, Sparkling, Effervescent. A 25 cent package makes 5 gallons of this
deliciousbeverage. Don't be dececived ifa dealer,
for the sake of larger profit tells youl in and made only by N. K. FAIRBANK \& CO., Chicago,

## Oin sumday gtternou:

## EARTH'S FUTURE GLORY <br> "But as truly as I live all the earth shall be <br> How the promise towers in grandeur- <br> O'er a moild so mrecked by sin- That the bright glory of the Lord <br> Sur eyes with rapturous longing wait, The grand transforming change to see For brightness set on earth to be. Wondrous theme of pen prophetic, Bringing joy through all the ages, Bringing joy through all the a To'the wears, waiting pilgrim, Thandering on through life's d Words inspiring minstrel's lay; In hamlet sung, by organ healed; In hamlit sung, by organ healed; While souts impatient, cry aloud: "When shall the glory be revealed?" It cometh surely, quickly, too; Oh, how shall we endure the light? Grant, Lord, thy purifying grace To fit us for the glory bright. To fit us for the glory bright. <br> A. Coburn.

TE divine manifestations HE divine manifestations
toward men are an erer unfolding wonder. God, in dein grace, is the eternal mys-tery-forever developing, but uercr fathomcd. The finite can never be something in and of Jehorah that angels and men hare not grasped. There will never come a moment when any cre
being or thing will be equal with God. Yet it is the gracious aud glorious pri ilege of eren fallen and mortal meu to the holy and eternal One as manifested in part, by the illumination of his spirit. necessary to be kuown by us), as to our designs concerning us, and concerning our universe. We may have wouderful be thrilled by amazing flashes of the incomprehensible glory of the living God,
We may know him well as our merciful and teuderly loving heavenly father. We approach him with great fauniliarity of supplication and faith. We may advance seat; but to assume toward the infinite Creator the familiarity of feeling and expression which we manifest towa
other were shocking presumption.
The great God has not called upon men to be the aualysts of his origin, natnre or
subsistence. He has clecrly rerealed in his word what he wants men to know, at purposes. It is hardly the proper attitude
f a race of fallen creatures, whose breath in their nostrils, who live by the divine divine grace, to spend much of their brief probatiou in searching to find out what is not plainly revealed. It were much unore to humbly accept what it has pleased the mighty Lord to say to us, reverently obey
his requirements of us, and earnestly dehis requirements of us, and earnestly de-
vote ourselres to the proclamation of his word, and his forewarnings of judgment at the doors.

## "as I have loved you."

Christ says, "This is my commandmeut that ye love one another, even as I have
loved your." Many Christians shrink from any real purpose of obeying it. But this is just as strong obligation to obey this comnandment as we are to obey any which Christ ever gave to us. It will not do to
say that this one is beyond the reach of our power to obey. Christ never asked us to
to anything which we could not, by his lelp, perform. He never requires of us the legitimate excuse in reference to this commandment.
Now, does he mean that we should love
love us? No, because we are not asstrong as he is. The volnme of his love is infin-
itely larger, greater than ours is or can be. How, then, can we love one another, even an love our brethren and sisters notwithstanding their faults. This is the way in
fections; he beholds our incousistencies and the changes in onr feelings toward him, and jet he loves us. In a measure, are to love them.
Then, too, he st
Then, too, the steadily loves us. He does not love us to-day and withhold his love
from us to-morrow, but he loves us every day alike. This we are to do. Too often we are inclined to love our brethren very
ardently one day and quite tamely another day. But it is our duty wo exercise a steady love, day after day, toward our brethren, whether we like all they sas and do or not. -Christian Witness.

## OUR GU:DE.

To follow Christ-that's the sum and substance of a Christian life
Christ is the guide, true Christians are guide-boards, the Bible is the guide-book - Jou can have the benefit of them all.

Our guide goes before us, anticipates our wants, helps us with our burdens, opens and explains the meaning of the guide-
What sort of a guide-board are you? you are following the guide?
The nearer we are to our guide the more fully will his character be repeated in us. Christ is not one of many guides-he is he guide.
If any one asks you why you go the way sou do, point to our guide and say, "It is
because he goes that way." There cau be nothing better said of jou than that jou go the way your master goes.
If you hare been a randerer-a stranger can and is willing to guide rou.
He is calling you now. Will you not
Don't imagine you can find your was as well alone. You need a guide. If sou could have gotten along just as well alone, there would have been no Calvary.
It cannot be a rery desirable place to which a man is going if he don't care what direction he takes; and if there is a guide
who thoroughly kuows the way, he is a who thoroughly kuows the way,
simpleton who refuses his services.
Don't make the mistake of supposing that you can follow him on Sunday and the week.-Rev. W. S. Hinman.

## temperance notes.

Great Britain and Ireland brew more beer thau the German empire. The pro$50,000,000,000$ gallons per annum. In 1891 $50,000,000,000$ gallons per annum. In 1891
Great Britain produced $1,500,000,000$ gallons. Great Britain spends on an arerage 20 shillings for drink for every half crown it gives to religion. Ireland, in 1890, spent about $£ 11,000,000$ on drink; its total rental
did not come to more than $£ 9,000,000$ sterling.
The statistics of suicides last year are hundred over those of 1891, the men greatly outnumbering the women; three thousand Three hundred and fifteen are assigned to
lquor. Men do not become widdy intoxicated on
tobacco, but the deadly lethargy and stupor of the soul is as destructive to the tobacco slave; and the use of the weed is the greatst aid to intemperance in drink we kuow
f. Thousands are so enslaved by tobacco that their power to distingnish right from wrong is destroyed and they are-an easy prey to the devil.
Porerty uever drives a man to drink uuto povertsy, whether he wants to go or not. Count Leo Tolstoi, who spent his time and fortune a year ago in alleviating the sufferings of the starving Russians, now asserts that drunkenness was one of the
great causes of the famine.

## BEAUTIFULLY HAPPY.

One must be happy to be pretty. A pleasing and attractive, depends largely on the state of her feelings; a sick heart will soon turn the rosiest cheek pallid, and
drench the brightness ont of the loveliest eyes that ever yet looked out on life. Happiness and health are indispensable to piness and healy, and though one may have known some exceptional woman who kecps a a single one of the sad and sick-hearted ever retain for long any measure of good bodily health.
Have we not all remarked how a homely girl, when she had just plighted her love
sunlight illumined her face with a sudden glory. Indeed, this love, this strange im placable thing, this illusionary fruit of a hungiy heart that too ofteu crumbles to ashes as it passes the lips, has yet some subtle power to set all the sweet harmonies of life to a merry measure, or to change them to clanging discords that grate horribly on the nerves, and not seldom drive

## TRUE ORTHODOXY.

The following definitiou of true orthodoxy, taken from the New York Witizess, strikes us as the most sensible thing we hare seen on the question:
"Orthodoxy, according to the scriptural standard, consists in an attitude of reverent submission to the will of God and to the teachings of the Holy Spirit. It is, thereand does not consist iu the intellectual and does not consist iu the intellectual acceptance of any set of doctrines, One
man mas hold sound theological opinions and ret be very far from God, by reason of the pride of his heart and the wilfulness and self-sufficiency of his spirit. Another man may have acquired very mistaken ideas on mans points of doctrine and yet live rery near to God, because he is honestly seeking to know and do God's will. The man who walks with God is orthodox, according to the ouly true standard of orthojudgment as the true standard of faith and the supreme rule of his actions is unorthothe supreme rule of his actions is unortho-
dox, hower correct his creed may be."dox, howe
Our Hope.

What the religion of jesus does
It gives a peace that the world cannot
take
It makes men pay debts that the law can It makes women stop talking scandal. It makes childreu obey their parents It makes men do good with their money. It makes those who hare been vicious It makes the drunkard stop buring beef-
It $\begin{aligned} & 5 \text { to control }\end{aligned}$ themselves. eak for the drunkard stop buying ore iding for his own famils
It throws the jailer ont of employment and raises the workman's wages It builds hospitals and asylums and fur nishes the money to run them.
It makes men unselfish and women more lovable.
It throws a bright light into the valley of death and shows that there is a city of eternal beauty just beyoud it.

## ARE THE RIGHTEOUS TO BE JUDGED?

By some it is supposed that the act pardou exempts the righteous man from future judgment; and so it does when the term is used to indicate condemnation, as it often is; but in a broad sense the term is used to include judgment capproval, as well as disapproval, at the day of final settlement, in view of which the wise man afthe wicked." (Eccl. 3: 17.) In agreement with Paul's affirmation: "We must all appear before the jndgment-seat of Christ that everyone may receive the things doue in his bods, according to that he "hath done, whether it be good or bad." (II Cor judgment-therighteousbeing then judged worthy of the kingdom. Christ is to judge "the quick and the dead"-and saints as up "the dead" die; and death them merely, but "all," saint and sinner, "every one."

## CHRIST IS AL

David Livingstone said: "I will place no alue ou anything I have or may possess except in relation to the kingdom of the interests of that kingloun it sall given or kept, as by keeping or giving it I whall most promote the glory of him
whe all my hopes, both for time and eternity. May grace be giveu me to adhere to this." And on the last birthday diary these words: "My Jesus, my Lord, my Life, my Al!, I again dedicate $m y$
whole self to thee."
Miss Mary Pierson Eddy, the daughter sionary, has resolved to return to Syria Where she was born, to derote herself to nse all precautionary measures, to sare by the climate. She is now studying med-解

## Jas. Boss Filled Watch Cases

are all gold as far as you can see. They look are solid cases for all practical purposes-yet only cost about half as much as an out-and-out solid gold case. Warranted to wear for 20 years; many in constant use orthirty years. Better than ever since they are now fitted, at no extra cost, with the great
bow (ring) which cannot be pulled or troisted
lonebullbout Can only be had on the cases
stamped with this trade mark. All others have the old-style pull-out how which is only held to the case by friction, and can be twisted off with the fingers. Sold only through watch dealers. Ask to
see pamphlet, or send for one to the makers KeystoneWatch Case Co., Philadelphia.

Filled Watch.
YERR GJARAKTEF

$\qquad$

Pinles Shlthes Line

Dr. Knapp, is her instructor, and she wil


## ciara fatamings.

Wted states. thout any statistics on the subject (nor is any needed to those who have observed as they
went along), it is safe to conclude that the states most densely populated have enough cheap, unproductive lauds to double the number of sheep now carried. Iu several thousand-fold.
Cheap lands, cheap conditions, natural facilities, favorable circunstances are con-
tinually being urged as important and indispeusable in raising sheep and wool. For more than a quarter of a century young men have been going West and to the free competing with "the cheap countries" o competing with "the cheap countries of
the world. They have left regious that were convenient to markets and transportation; left lands that had no price, if the improvemonts and geographical position were taken into account, aud goue where
there were no markets or transportatiou facilities, braved hardships, courted dangers eudured deprivations that they might raise woel cheap.
This rush for the West has beeu over doue and is still coutinued. Sheep ranzhes are established here and there a.l over thi been destroyed, wild auimals are less troublesome, forest fires ars thus avoided and the conditious of the country arc greatly improved by the occupation by
sheep. sheep.
This is in striking contrast witi the
mountain regions east of the Mississippi mountain regions east of the Mississippi
river. All this difference can be accouuted for only by the fact that euterprises have tended toward the West without thought of what the same industry would do for those who would develop the waste lands-lands not adapted to the profitable raising of grain-of the old states, Vir-
ginia, West Virgiuia, Marylaud and the other states.
The western ranges have been largely free to those who used them. This has been one of the attractive features of the
country for stockmen. While lands are stipposed to be owned in the older states, lands can be rented or leased on such favorable terms as to make uominally free ranges, and by reason of near proximity to
markets and to winter food supplies, are markets and to winter food supplies, are cheaper and more desirable than western
ranges. Large areas of hill and mountain land in these old states, parts of large plantations now fallen into decay, agrisulturally speaking, may be leased free of all of sheep the lands are brought into better condition.

It may cause a smilo to mention such an enterprise as a sheep ranch in West Vir ginia, Virginia, North Carolina, Georgia,
Florida, Alabama or Mississippi, but there are such plants throughout all these states Some of them are in very rude form, quite unlike those found in Colorado, Montana and range regions where some system has been found important.
Happily, too, these ranches, sheep farms or, speaking more after the southern fash-
ion, sheep plantations, are largely on the increase. The system of keeping sheep has been improved. It has been found that spme generai management for the flocks is needed. The abandonment of focks to the uncertain chances of the woods, the
dogs, negroes, hogs, eagles, etc., is not so dogs, negroes, hogs, ern style of agriculturists. What is stil better, it will continually improve in
this direction as experience is gained, and, perhaps, as emigration turns in that direc

A word of caution should be offered on this, but need not now, other than the system of handling flocks should vary
quite a little from that practiced at the North, and, too, should be improved from that generally practiced by the southern planter

It would not be surprising if within the next decade the advantages of the older appreciated, and sheep raising should become a big factor of wealth in a new prosperity in all these regions. Iu fact, it the United States are not by far the most the United States are not by far the most
favorable sections for a new and more profitable sheep husbandry than has ever profitable sheep husbandry than
been dreamed of in this country.
R. M. Bewl.

NATIO NAL GRANGE PATRONS OF HUSBANDRY $\left.\begin{array}{l}\text { World's Fair Hfadquarters, } \\ 10 \text { and 11, Live stock pavilion, }\end{array}\right\}$ The naval display of July 7th iu houor of the arrival of the caravels, the mimic ships of Columbus, was entirely eclipsed on Weduesday by the nautical parade in honor of the arrival of the Norsemau sail and rowboat, the Viking. This little craft, with its numerous side oars and its single mast for carrying sail, could be easily taken on oard amidship on the smallest of the Columbus fieet.
built in similitude of the Viking of Lief built in similitude of the viking of Lief
Ericsson of old, has cressed the oceau and traversed our iuland seas, coniug all the way from that north seaport, Christiana, Norway. In welcoming its comuander Capt. Anderson, and crew, Pres. Palmer of the world's Columbian commission mong other kiudly things said: "A few days ago we received the caravels of
Columbus, in simulation of that great Columbus, in simulation of that great event which opened this new world to
bumanity. That receptiou need not deract from. The glory of Nouway, which five hundred years before had discovered America; but humanity was not yet ready for its settlement. The glories of the two enterprises will uot conflict one with the other."
The weather, without premonition or orerunning prognostication, changed from temperate to torrid during the past week, and life here for the last few days has been almost a burden. The exceedingly hot weather and the myriads of flies are causing serious decline iu the butter produced by all three of the breeds in the dairy test. Should these conditions long continue, the showing of the last half of the ninety-day test will not compare favorably with the first half. The Guernsey herd have suffered the loss by death of the fine cow, Imported Rosabella, 3,698, owned by ex-Vice-president Levi P. Morton, Rhine Cliff, N. Y. The Jersey people have been equally unfortunate from a money point of view in the loss of Garrilla, ownd by Billings Estate, Woodstock, Vt. This young cow while not in the preseut test, was entered for test No. 3, which runs through the month of September
$A$ strange addition to the small live stock contingent arrived at the barns yesterday. It consists of a pair of cattle from Trinidad, West Indies. They are solid light fawn in color, have stout, upstanding horns and long, drooping ears. They also carry around a large lump, or hump, on the shoulder. I snspect they are the same kind of cattle that are used in traveling caravans, and are called sacred cattle.
The entries in the forthcoming cattle and horse contests closed Saturday evening; number of cattle, 1,046 , horses, 902. The cattle and
The experiment of Sunday opening, hav ng been fully tried, is found to be a failure. The people do not patronize in sufficient numbers to warrant keeping the gates open on that day. The directors almost ananimously voted that July 16th should be the last open Sunday.
Brother W. E. Harbaugh, master Missouri state grange, will take charge at these headquarters on July 24th.

Alma Hinds, Office Secretary.

## DAIRY STATISTCS AND EXPERIMENTS IN DELAWARE COUNTY, NEW YORK.

Delaware county justly claims preminence among the counties of the the leading county of the state, as regards the dairy industry. And the town of Bovina, in that county, hás gained national, not to say a world-wide, reputation for the excellence of its dairies in butter production, both as regards quantity and quality of the product.
The dairy census of that town, taken during the past season by Mr. Geo. T Powell, president of New York state dairymen's association, brought ott many interesting and instructive facts and figures, some of which are worthy of repetition here.
Among something over one hundred and twenty herds included in said census, the average butter yield per cow was 300 pounds or over in thirteen of those herds. The highest average was in the herd of twenty-furupson, who, 3 in a hands per cow for the one year, and he was closely followed by James Russell, John S. Hobbie and J. W. Coulter, all of whom reported and J. W. Coulter, all of whom reported above 347 pounds p
twenty cows or orer.
Ten dairi in
income of $\$ 50$ or over per cow above thc cost of feed, not counting pasture, labor of butter-making, etc. The largest uet returus exclusive of pasture and labor, were given by J.D. Mitchell at \$67.13, and three others,
uamely, James Russell, Dixou Thompsou uamely, James Russell, Dixou Thompsou and J. W. Coulter, each reporting above $\$ 60$
Mr. Mitchcll's dairy numbers fifteen ovs, the others twenty, twenty-four and wenty-two respectively
The total number of cows reported in the fown was 2,669 ; the average number in dairies 22.42 ; the average income pcr
atter paying for hay aud grain, $\$ 27.44$.
Average gross income per cow.......
Lowest gross income in any lerd.
Highest pross ine
Highest gross
Lowest net ine
Now, these figures, it seems to have said, are very instructive, showing as they do that dairying may be so conducted as to return good profits, while it must be
also admitted that as shown by the lowest average given abeve that it is often carried on at an actual loss.
The town of Franklin also stands well. It probably has more private dairies iu which the cream separator is used thau anyother town in the county.
Mr. E. S. Munson, of this town, recently made a series of experiments among the private dairies of several leading farmers, with several different methods of creamising and two styles of cream separators In summing up the results of these experinents, Mr. Munson says:
"The average loss on the three dairies using separators is .07 pounds butter fat on 100 pounds of milk, and on the three trials with cold setting .62 pounds butter fat, making a difference of .55 pounds butter fat saved on each 100 pounds of new milk by using a separator. * * $\quad$ I think
I am justified by these experiments in concluding that one half a pound of butter is lost to each 100 pounds of milk among the average dairymeu by using the different $\begin{array}{ll}\text { centrifugal process." } & \text { E. J. Brownell. }\end{array}$ New Yort proce

## CROPPING THE ORCHARD.

One crop, fruit, is enough for the orchard o produce in one season, but young trees are the better of cultivation for a few years
until they reach bearing age. To pay for this cultivation it may not be out of place to raise some kind of crop among the trees Small grains are ruled out by their re quiring little or no stirring of the soil after plowing and sowing. In addition to this, they are injurious to the trees in several ways. Concerning lye, which grows tall orchards of Newtown pippin on the Hud son, and was one of the first to export apples to Liverpool and London, is understood to have said that three successive crops of it would completely ruin an orchard.
Potatoes, corn, beets, dwarf beans, etc are suitable in such a case; but two things
are not to be forgotten: First, only a very are not to be forgotten: First, onty a very trees with a team. Second, as the extra crop exhausts the soil more or less, manure must always be supplied to make up for this.

## feathers on the legs.

If some enterprising breeder will take the useful Eight Brahmas, and by careful selec tion, year after year, until he breeds off the feathers from the legs, he will no doubt find plenty of customers for his stock. It cannot be done in a year or two if the breed plish pure, as time ismit that by crossin with clean-legged birds a portion of the time will be saved, but the purity of the breed will be injurcd. The Light Brahma, in all its purity, can have the feathers bred off the legs with advantage.

PLANTING HONEY.LOCUST SEED.
Professor Budd replies to an inquiry in Rural Life regarding the planting of honey-locust seed as follows:
"The seeds are very hard when dry, and if planted without preparation they will not come up the first year. Hence we scald the seed as we do those of the black locust, but the water used may be much
hotter. Boiling water will not injure them, as the temperature of the vessel and seeds will soon lower its temperature. In a few minutes a part of the seeds will double in size and are ready for immediate planting. Tho enlarged seeds are sifted out and those left are rescalded and again sifted. This is repe
eeds are prepared
seeds in a place in rows four feet apart each way, taking care to plant in moist soil. If
dropped on dry soil the swollen seeds will dropped on dry soil the swollen seeds will
dry up. The prepared seeds will come up in three or four days if planted when the soil is warm enough for plauting beans. When one year old the plants on open ground are tender. Hence, we turn a furrow over them in the fall. The next spring pull out the weaker plants, leaviug but oue in a hill, using the surplus ones for replanting as far as ma_ be uceded.
"When the seeds are 1 lanted where the trees are to stand, the trees will make as much growth in fifteen years as the soft maplc, and the timber for any use is far norc valuable. The scalding soon deter mines which are the gool seeds."

## Losses of turkevs.

As the turikeys usually keep out of tho barn-yard and wauder off to the fields, roosting on the trees at night, they are less liable to the attacks of lice than if con-
fiued in the poultry-house after dark; but fiued in the poultry-house after dark; but turkeys are attackod by lice as well as are
chickens, and though it is rather rifficult chickens, and though it is rather rifficult to catcl them and handle them, ytt it will prevent less if th heads and necks are or twice during the summer. Do not use kerosene on them. Any kind of harmless oil will answer the purpose just as well.

## HOME-MADE TRANSPLANTING.TUBES

Who has not wanted to move or transplant some plants that were valuable, aud hesitated for fear they would not grow? It is easy enough if you only go at it in he proper way. Market gardeners use substitute. For ordinary a substitute. For ordinary garden use I
take a one-pound oyster-can and set it on the stove a fow minutes, and melt the older so the bottom will come off. Then everse and take off the top rim, being careful not to get the can hot enough to melt the side seam. The tube is now ready for business. Set the tube over the
plant you wish to move, and with the foot sink it nearly level with the ground; pall the tube up. Make a hole with a hoe where you want your plant set, set the tube in place, pour a dipper of water in the top of tube and you can slip the tube out, leaving the plant set, and uudisturbed. Draw a little dry dirt over the wet, and the job is one. Try it. R.W.J.STEWART.
a grand mass meeting at chicago. To the Wool Growe
the United States:
There will be a mass meeting of the wool growers of the United States ou the 28th nem days of September, 1893, at AsColumbian Exposition, at Chicago.
On the 5th day of October a meeting of the National Association of Wool Growers will be held at the same place. Farmers, wool growers, cotton planters, wool dealers, all are expected to be in attendance in large numbers.
The purpose of these meetings is to consult and act for the common good of all
and for the whole American people-not in the interest of foreigners.

William Lawrence,
Presiden: !hio Wool Growers' Association W. N. Cow?. En, Secretary,
Quaker City, Ohio.

## CABBAE $-S$ FOR POULTRY.

The small heads of cabbage may be saved for the hens. We do not believe thatit pays o grow cabbages for the hens, as cabbages are too valuable in the market; but thero will always be some heads that are not suitable for sale, which will be very serviceable in winter as poultry food. They do not contain a large proportion of nutrition, as an agreeable change of food when grain as an agreeable change of food wist in keep. ing the hens thrifty and in good condition.

## HARVESTING BEANS.

I will tell you how I harvest beans. Instead of pulling up the viues I take
tobacco shears and cut them off. That does away with dirt sticking to the roots,

## A WORD TO OUR. READERS.

 The recent increase in tbe cash commissionsgiven to our club raisers for the Farm and given to our club raisers for the Faris AND
Fireside has iuterested mans of our readers the work. Thes have tried our new plan raising clubs, and under the liberal terms making money
A few spare hours, idle dars or a short vacation cannot be ned to better adrantage or
profit than br getting up a FARM AND FIRESIDE club.
We know that mans of our bright young friends who are manfully fighting their way throngh school, or laring aside all they posshorthand college, will grasp with pleasure
this opportunity of increasing their bank acthis opportunity of increasing their bank ac-
count and shorteniug the time till the realization of their plans. Mans will find in this work proftable emplorment for all their time, if thes can plau
to carry ou the rork berond their immediate to carry ou the work beyond their immediate If jou hare not Written for our "Special
Cash Terms to Club Raisers," Jou should do so

## (Gut

Cockroaches shun turpentine, so a few
drops sprinkled in their congregating places will scatter them.
Never pour boiling water over tea-trays, japanned articles, etc., as
nish to crack and peel off.
Althotgh an ant is a tiny creature, jet its brain is eren tinier. But, although it is nec-
essarily smaller than the ant's head which contaius it, ret it is larger in proportion, ac-
cording to the ant's size, than the brain of any known creature
The air in a room mas be greatls purified by setting a pale of water in the room for a few aud the air will be pure and the water utterly
bad. The colder the water, the more perfectly it will absorb impurities.
excellent material for a clothes-line is the ordinary telegraph wire, which is now sold
for that purpose iu hardware stores. It will for that purpose iu hardware stores. It will it is properly put up by a strong man it does It is not uusightls, because it is so fine that it
is bardly a noticeable feature of the sard.-N. HotsEKEEPERS will welcome the ner metal, aluminium, of which many utensils are now
made. It possesses, chemically, every quality made. It possesses, chemically, every quality
which commends it to the cook and housewife. It retains the heat as well as copper, and is about one half the price of silser, and there
are already in the market butter-dishes, teastrainers
made of

DINNER ON A SET OF GOLD DISHES. The jewelry department in the manufactur-
ers' building at the Columbian fair is au exhibit that makes women coretous, for if
there is one tbing that indicates the acme of Wealth it seems to be the possession of gold dishes, and to be able to invite one's friends to
a dinner served on a gold service is absolutely There is plenty of magnificence in the jetrelry depart ment, but this especial exhibit is
startling, for it consists of hundreds of dishes that apparently are carred out of big gold The exlibit is entered for cono: tition by its
makers, the Misses Emily and fary Healey, and that, too, is a source of $m$, ader to visitors. Professional men and ch mists gaze at it
with incredulous eyes as the roung woman in charge tells what it is.
Representatives of Europe's famous man-
ufacturers of decorated china scrutinize it ufacturers of decorated china scrutinize it
with despair, ior they cannot make these beautiful dishes that are apparently solid gold Within and without.
For more sears than can be told chemlsts hare sought for the secret of such an art.
Sereral times European manufacturers hare thought they had it; but every trial has
proved a failure. It remained for two Joung
American women to discover it and apply it. American women to discover it and apply it.
The Misses Healey are refined, educated
roung gentlewomen. Thes lice in Washington, D. C., and carry on the business of man-



| room. |
| :--- |
| Tobods but the sisters knows the secret on | Which the business is founded. In fact, the

story of their business has just leaked out. story of their business has just leaked out. corery the young ladies were living out $\ln$ a
little country place, one of the suburbs of
Wrashiniton and Baltlmore. Thes had been




Ther began experimenting for "gold effects.
Ther had a little kiln evers firing das a bit of broken china corered with some new attempt at securing a desirable coating of gold was poked in before the kiln was closed.
For some time this gold experimenting wa imenter, had no expectation of discovering secret tbat great chemists had worked over for generations.
It went on for several rears in that way secured an available gold, and although th result did improre, no really satisfactors gold appeared.
Then one day about five years ago Miss Em ils stuck into the kiln at the last moment a
bit of china orer which she had lingered longer than usual, and as she closed the doo she said, "I beliere I hare it this time.
When the kilu was opened, the bit of china came out first. The girls looked at it, then at each other. The old negro who helped them "Praise de Lawd! Praise de Lawd! It's done "Praise de Lav
There was a superb mat-gold coating on the piece of broken china, that when properl.
rubbed and polished revealed a surface so rubbed and polished revealed a surface so
much like pure gold that eren experts have meen fooled by it since.
For sereral jears the Nisses Heales simply used their discovery in their regular ceramic cellence of their goldwork which noone could imitate successfully. They found that if they departed ever so slightly from their origina formula, the effect was lost, and that when ther followed it success came.
Then one das an awful thing happened. The
secret was lost. Niss Emily thought she did secret was lost. Miss Emily thought she did the same tbing as before, but the result was
bad. She tried again. But she had forgotten something, or some order of proceedure, in he formula, and she could not recall it. The
beautiful goldwork could be accomplished no Patie
Patiently the two soung women went to
work again and tried all their skill, in rain. It seemed as if success had onls taunted them. Old china manufacturer almost breaks the hearts of old European
But the Healeys were American girls full of pluck and determination. Thes kept at their plnyed for twelve months trying to discore from the china the old secret. The young
women imporerished themselves. They spent their last cent. procuring material With which
to carry on the research. Wbile Miss Emily to carry on the research. Wbile Miss Emily
hung orer her work-table and the kiln anx iously compounding and firing, Miss Mary toiled
So a year went by. The chemists were ready cluded the precious secret was gone forever When the last hope was ranishing the old effect appeared once more. The balsed chemthere was thanksgiving in the Healey household.
Then it was determined to find the commer submitue of the art. With some fear they ists. It stood every test. No one could dis cover the secret of the gold. They could put
goods on the inarket without fear of haring goods on the market without fear of haring
their formula disco ered. Then ther started to build up a business. Their exhibits a Chicago show their success since that time Thes wish women to get the credit of dis covery, so they have sent a beautiful cabinet
full of pieces worth at least a thousand dollars to the woman's building.
Maryland, their native state, also had to be
recognized with an exhibit. And as a bus recognized with an exhibit. And as a busition in the jewelry department an exhibit case is trelre by twelre feet, all glass nearls through which is seen the dazzling vision. dinner-table spread in white silk is set $\pi$ it all the dishes necessary to serve dinner for and iu. A luncheon-table and tea-table are also spread with dishes appropriate to thos loaded with odd and rare pieces.
The dishes are absolutel $\bar{\xi}$ untarnishable and The erlilit constant use.
The exhibit is placed in tbe jewelry depart ment because onls jemelers have bandled it.
Tiffans's people are enthusiastic over it, and special bera the Healers will be given people working on their chryso-ceramle ware It took six learned professors sereral month to derise the name "chryso-ceramic," which
means "enveloped in gold." But ouly they tro know the formula of the gold, and norl

## THE WORLD'S FAIR

Was there ever reason to doubt if the fair a
Chicago would be successful? Itseems difficult Chicago would be successful? It seems difficult
now to think that such a question could have arisen; for one likes to believe that such enpossessed by those who organized and directed the undertaklng, must always command
success.
disappere Has once a doubt it has disappeared. The exhibition is greater, gran der, more impressive than eren its projector
thonght it would be. No one returns from Chicago without feeling that a mere glimpse at the magnificent buildings is worth the ournes, the moner and the time required to reat for a mor no expenditure
One difficults only-the questio
ot the gates shall be open on Sunder erfered with the complete success of the
enterprise. There are many persons whose con-
ize a fair directed in a spirit not sufficiently
observant of the Sabbath. But others will no
deem it a duts to denv themselves the educa-
For the fair, both in its foreign and in it domestic exhibits, is a great educator, and in this 「iew no American who can possibly spare the moner and the time necess
should neglect the opportunits.
should neglect the opportunity
In its displar of the greatness
furs display of the greatness and resources patriotism. The soung a genuine school of patriotism. The soung people Who are able to minds are "wax to receive and marble to re ain," will be pecnliarly fortunate.-Youth,

HARDSHIPS OF LIFE IN THE POLAR REGION. The thole region is one of severe cold, and the sea is frozen for the greater part of the year, guishable, but for the incessant movement and drift of the sea-ice. In snmmer the sea-ice breaks up into fioes, which may drift away
southward and melt, or be driven by the wind against the shore of continents or islands, learing lanes of opeu water which a shift o wind mas change and close in an hour. Ice bergs launchedfrom the glaciers of the land also drift with tide, current and wiud through time the pack mav open and a clear waterway ruu tbrough to the pole, and old whalers tell o mans a year when they believed that a fer days' steaming would carry them to the end o the world, if they could have seized the oppor safety time after time may be effectivel closed for years, and all adrance barred. Food in the form of seals or walrus in the open on the land, mas often be procured, but these sources cannot be relied upon. Adrance northward mas be made bs water in a ship, or by dog-sledge, or on foot, over the frozen snow Adrance by sea is stopped when the Joung ice forms in autumn, and land adrance is ham pered by the long arctic night which enforce mouths of inaction, more trying to health and spirits than the severest exertion. - Mc Clure'

## ECONOMY THAT IS NOT ECONOMY

We women are such extremists, that if w
start in to economize, we do so with such
vengeance that in a vers little time no one
could tell whether we were striving to be ecocould tell whether we were striving to be eco
nomical or miserly. Economy is a very wise and prudent thing, but there are some specie of true economy that the great majority of
women fail to appreciate. They do not see any economy in hiring a good serrant when Yet they fail to consider the wear and tear on the ssstem and the dead-tired feeling that comes at the end of the day, When
course is followed day in and day'out.

$$
\begin{aligned}
& \text { course is followed day in and day out. } \\
& \text { What they gain in money they }
\end{aligned}
$$

strength and happiness besides, for the husband who comes home at night seeking a con genial companion, and finding in her stead a peevish, worked-out wife, who hasn't the am will soon get in the way of going where thing are brighter and pleasanter. It is better to have a smaller bank account and a less shomy
mardrobe and pay for a strong, able woman who will ligh ten your labors aud leave sou fre to be a sweet and genial wife and mother around
It is economy to buy labor-saring inventions first srmptom of a cough, instead of waiting until his services mill be requiredtwo or thre times a day. In fact, it is economy to do erersthing that tends to keep rou in good

WHY SOME GIRLS HAVE NO SWEETHEARTS Why don't some girls get sweethearts? Why
iudeed? There is the girl who never tries to be agreeble, unless she mar hare all her own way. Tbis trpe of girl is never successful in
her lore affairs. Be a man ever so smitteu with a girl, he is but human, and will not giv Way in erers little thing. As tbe old lady
said, "Keep a maniu hot water a little while, and be boils soft, but let him remain in ho water and eventually he hardens." Ies, and
then he asks himself a serious question. He considers that a girl $\pi$ ho is so contrary during considers that a girl who is so contrary during
courtshlp will be no better as a wife, and so Then the girl wlth the hanghts manner and cold stare. No man dares to make love her, and as Bridget has it, "One cannot mak othin' out of notbin.
Egyptian sphinx. Another girl without
o admire men at a distance, but the moment
they draw near, she drives them back with ther draw near, she drives them back with
her embarrassment. They retire simply out of more pits, seeing her distress and awkward bashfulness.
Finally, the girl who does not want a lover the home girl, Who finds a joy in domestic
emplorment and is blissfully happy in following her round of duties. There are manr such -perhaps ther dream of an ideal lover, but he is so far awas or so out of reach, that she is content to dream of him as an unattainable

## JAPANESE CHILDREN.

The Japanese are trained to civility from babrhood. Before a baby can speak, it is ceiving a gift. Should a child fail to make thi signal of respect and gratitude it would be re proved by some bystander. Japan a town, stopped to see the children coming from school
They walked sedately and quietls with books bearded foreigner startled the first to of a but ther made a respectful bow and passed on The next ones repeated this cirility, and then as fast as the pupils came they made a profouvd reverence.
The innate gentleness of the people im ans the rambler. He records that he nere ran angle instauce among boss of that n other pain on wealries, that delights in iuficting dren are well behared, eren toward each other

## BETTER WHISTLE THAN WHINE.

As I was taking a walk early iu December, noticed tro little boys ou their way to school. The smaller stumbled and fell, and though he asioh mach hurt, he began to whine in a hough he were half killed, but a little cross hine. The older bor took his hand in a kind, fatherls way and said
Great never mind, Jimmy, don't whine ; it's a great deal ber
An whistle. Jimmy erriest way a cheerful whistle.
"I can't whistle as nice as Jou, Charlie," said ; "ms lips won't pucker up good."
"Oh, that's because you've not got all the whine out ret," said Charlie. "Bnt yon try a minute and the mhistle mil

So he did, and the last I saw or heard of the little fellows, ther were whistling away as earnestly as though that was the chief end of
life. I learned a lesson which I hope I shal not soon forget

## JUDGE WAXEM'S PROVERBS

gress ain't backerd in doin'
This country needs finanshul confidense more'n it ueeds cold cash.
It don't hurt a president to go fishin' every The goddess
The goddess uv liberty is a expensire fe male.
A man
be much
A Napoleon Bouspart ur polliticks don't United States.
A congressmau to be a representative man has got to know somethln' else besides states manship.
The Amerikin eagel kno's more'n ans othe bird that files, but he ain't quite infallable Polliticks has pecuniary peculyaritys. tay.-Detroit Free Press.

OUT OF SIGHT OF LAND ON A RIVER
Were it not for a decided differeuce in the When the Atlantic is left aud the Rio de la Plata entered. The high-rolling, white-capped billows are the same, and no land is risible, iscour hough with an average depth of only fifty feet. Sebastiau Cabot, who arrired in the
year 1500 , soon after tbe natires had murdcred poor Don Solis, dubbed it River of Silver, not on account of its color, which might have wo for it the more appropriate name of Gold Rad or dians who swarmed its banks, and naturalls imagined that abundance of preclous metal remained in tbe vicinitr. - Philadelphia Record.


## Selections.

## hidden strength

T1s not the brightest flowers are sweetest, God's loving care
Gives to the tiny, tender blossoms
Perfume sweet to wear.
not for those by world most prospered That Jesus came,
Riches and honor count as nothing But in his name
Somewhere in the world's vast domains He cast thy lot; He'll forget thee not.

## What is Electricity?

Hs far as the writer is able to un derstand the matter now the molecules of the differeut substances which are the subjects of elec trical action, just as heat, light and sound are, and the only difference between these forces is the rate of the motion. The mo tion of sound, as we all know, is compar atively slow; that of heat and light are very rapid. That of electricity would appear to be somewhat between the slow motion of sound and the rapid motion of those heat waves whose motiou is slowest. And it would appear that the wonderful adaptability which electricity shows for every kind of work is due entirely to the in the scale of the energies. It would also appear that the reason this wonderful agent laid dormant for so many ages and is even now only partially developed is, very sense which responds to the particular periods of vibration comprised within the periods of vibrat
electrical range.
electrical range.
Heat curreuts would be far more efficient than electric currents if we could make use of them as we do of the latter; and, as before remarked, the reason electricity is such a useful agent appears to be because its rate of vibration is sufficiently high to admit of rapid transmission, yet not sufficiently so to be destructive. It only beinto heat.-Electrical Review.

## PRESERVATION OF RINGS.

"Don't wear your rings under gloves unless you remember to have them thoroughly examined twice a year," is the advice given by a jeweler. The constant
friction wears out the tiny gold points that hold the stones in place, and unless strict attention is paid to them they become
loose in a very short time. Small purses loose in a very short time. Small purses
of suede leather are mado on purpose for of suede leather are mado on purpose for
rings, or any soft pouch of skin or chamois may be used to place the rings in when desiring to carry them around with one.
They should never be put into the ordinary pocket-book, as the rubbing against coins is also bad for them. Diamonds can be cleaned at home to look as well as when done by a jeweler, if only a little trouble is taken. They should be thoroughly cleaned in alcohol and then dried in boxwood saw
dust. Pine sawdust is too oily for this purpose.

## true marriage.

A happy wediock is a long falling in love. I know young persons think love,
belongs only to the brown hair and plump, round, crimson cheek. So it does for its beginning, just as Mount Washington be-
gins at Boston bay. But the golden marriage is a part of lore which the bridal day knows nothing of. Youth is the tassel and silken flower of love, age is the full corn, ripe and solid in the ear. Beautiful is the morning of love with its prophetic crimson, violet, saffron, purple and gold, with its hopes of days that are to come.
Beautiful also is the evening of love, with its glad remembrance and its rainbow side turned toward heaven as well as the earth. -Theodore Parker.

## HOW TO OPEN A NEW BOOK.

Hold the book with its back on a smooth or covered table; let the front board down, then the other, holding the leaves in one wack, then a few at the front, and so on, alternately opening back and front, gently pressing open the sections until you reach the center of the volume. Do this two or three times and you will obtain the best
results. Open the volume violently or carelessly in any one place and you will likely break the back and cause a start in the leaves. Never force the back; if it
does not yield to gentle opening, rely upon it.. the back is too tightly or strongly lined.

## true peacemakers.

Don't be a grumbler. Some people contrive to get hold of the prickly side of everything, to run against all the sharp corners and disagreeable things. Half the
strength spent in growling would often set strength spent in growling would often set
things right. You may as well make up your mind to begin with, that no one ever found the world quite as he would like it; but you are to take your part of the trouble and bear it bravely. You will be sure to
have burdens laid upon you that belong to have burdens laid upon you that belong to
other people, unless you are a shirker other people, unless you are a shirker
yourself; but don't grumble. If the work yourself; but don't grumble. If the work
ueeds doing, and you can do, never mind about that other fellow who ought to have doue it and didn't. These workers who fill up the gaps and smooth away the rough spots and finish up the jobs that others leave undoue-they are the true peacemakers, and worth a whole regiment of makers,
growlers.

## GOOD ADVICE.

A father who tenderly loved his soin, one day gave him some excelleut advice, desi
"My son, in pursuing your course in the My son, in pursuing your course in the
world you wrill find many things which you cannot understand. You would like to understand them, but it is impossible. There is no use for you to tax your brain to explain them. Just throw them in a heap by themselves. Call them a heap of 'Inexplicables,' and go on your way.
"Then again, you will come across things which are manifestly wrong; but they are beyond remedy. It is useless for you to try to find a cure-it is not in reach. So call it a heap of 'Incurables,' and pursue your course"
That old father gave good advice to his son. Let u

## A GRAIN OF WHEAT.

What is there in a grain of wheat? Many would say, "That does not count." Why not? Behold it. I see in that grain of wheat something that has turned the wilderness into a fruitful plain; that has led the march of empire westward. I see a thousand fields where hundreds of men are t work. I see the scythe and sickle giving way to the improved machinery of modern times. I see in that little grain of wheat something that has created the great railway lines of the West and Northwest. I see gigantic mills rising. I see the white wings of the ships that bear the product of those mills across the seas to other continents. I see in that grain of wheat the hope of nations on whom the spectral form of famine glares-the loaf that shall drive hunger from the world. This is the vision that rises before us as we look at this tiny grain. More than this the great God see
MRs. CLEVELAND'S HOUSEKEEPING
The mistress of the White House has little trouble in housekeeping, for all the servants are under control of the steward. bill of fare and of marketing; then hesees hat the other domestics are fulfilling their duties properly. Over the kitchen, two duties properly. Over the kitchen, two voman and stable servants, he has the woman and stable servants, he has the discharge help he gives his reason and complaint to the mistress of the house who acts as she thinks best. All of th ervants except the cook and coachman are paid for out of the president's salary, and as there are about ten in all, the item is no small one. For running expenses-such as repairs-the government allows a certain sum each year.

## HOW ABSURD IS QUARRELING.

What absurd little things people quarrel about. What trivial matters cause illfeeling in families. The mutton being oasted too little or the beef too much, an pinion about the temperature of the ought to be bought for the frot wind he definition of a word or its window tion, are peace and good will are of so much impor pance in the home
A little ill-feeling is like a little seed tha nay grow into a large tree which will hadow the whole house. Many a man noman must look back with regret on he hasty word or the cold reproach which was the entering wedge that split a houseold in two; and yet how few make a point away wrath.-Once a Week.

## 

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The Rotation Schotische.
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Me Never Has Decelved Me Yet.
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Similes.

Send me my opera-glasses, John-
But pack them strong and tight want to see the bathing-suits,
Because they're out o'sight.
-Atlanta Co
in a restaurant.
She sits her down and with much care
Proceeds to scan the bill of fare.
She reads it up, she reads it down
She gently sighs and turus it o'er As if she thought there should be more,
A biscuit and a cup of tea." his location. It was the old, sweet tale of love returned. I fancied she loved me-for her I yearned-
Yearned with a yearn I never can forget. Have yearned, since then, a score of time and yet
This was the strongest yearn I ever had. To waste a yearn like mine did seem too bad
Her heart, I begged and tried my best to win But, laughingls, she said I wasn't in it.

MERRIELE PUNISHMENT. EN have a watural horror o
shopping at its best; but sen
one of them to match shades and heshrinks from the ordeal
like Macbeth from the ghost-
"Take ans shape "Take ans shape but that!" angry citizen to the superiutendent of the
treet-car company, "to get justice. Yester day, as my wife was getting into one or
your cars, the conductor stepped on her dress "Well, sir," calnly replied the superinten-
dent, "I don't know that we are to blame for that. What do you expect us to do? Get her "No, sir, I do not," grimly replied the other, brandishing a piece of cloth. "What I propose
to have you do is to help me match this cloth?" WELL ENDOWED. A certain well-known surgeon is ambidex-
trous. As a Nalaprop among the students ouce said of hirm, "He can use one hand just
as well as the other, and perhaps a little
beter"
Oueday he was operating in a case which required great delicacy of manipulation, and
the students present were overcome with admiration at the calmness and dexterity with
Which he shifted the instrument from one hand to the other, and worked with the left
as well as with the right. A new-comer, who had never seen him operate and had never heard of this double
facility, could not control his wonderment.
"Do you see that?" he whispered in the ear of a fellow-student. "He's amphibious!"

MEASURE FOR MEASURE.
"Mrs. Mulcahy," said the justice, "why did
5ou strike Mrs. Muldoon?" "Sure, yer anner," said the defendant, with
the air of one who has suffered, "I says to her as pleasant as dho shpakin' to an angel, says I,
'You has brass enough in yer face sufficient to
mek a six-quart pail!' An' wid that Missis Mruldoon ups an' says, says she, 'It's yersilf as

## interrupted her wid a jintle tap, sor." -Puck.



 in his remarks, but his method of emphasis is extremely

GOT THINGS MIXED.

## Mr. Suburb-"Well, how are you getting

## Contractor (despondently)"-"We are down ive hundred feet and haven't struck rock yet."

Mr. Suburb-"Rock? Good lands! you've
got things mixed. I told you to bore for water,
man-water. I don't want a stone quarry."-
A FINE DRESS REFORMER

## Jones-"My wife is a dress reformer." 13rown-"Great Scott, man, why don't sou read the rlot act to her? Does she belleve in <br> Jones-"Oh, no, she Isn't that kind. She <br> READY, AYE READY

| A LESSON IN ZOOLOGY. |
| :---: |
| Teacher-"What are marsupials?" |
| Boy-"Auimals which bave pouches in |
| their stomachs." |
| Teacher-"And what do they have pouches |
| for?" |
| Boy-"To crawl into and conceal themselves |
| when they are pursued."-Figaro. |
| PERHAPS THEY BOTH WERE. |
| Bloobumper-"You went fishing with Miss |
| Keedick, yesterday, didn't you?" |
| Spatts - "Yes." |
| L'ouiumper-"Catch anythiug?" |
| Spat1:-"Well, we came back engaged; but I |
|  |

What ezekiel said as to sleeves.shoulders was denounced as long ago as thetime of Ezekiel, that prophet having utteredthe solemn warning: "Thus saith the Lorall arinholes!"" The doubting can verify thicurse by turning to Ezekiel xiii. 18.
Teacher-"Who discovered America?"
Bobby-"Columbus."
quences of this slorious discovery?" Bobby-"The Duke de Veragua, the
parade and the world's fair."
for two birds. What do you suppose makes it
so greedy, Mrs. C. ?"
Mrrs. Chimpanzee-"I heard the keeper say it
swallowed a pair of strong eye-glasses yester-
day, and they magnify his appetite."- Togue.
$\frac{\text { A READY HELPMEET. }}{}$
"We've got to economize," said Mr. Gargoyle
to his wife.
"Very well, dear," replied the good woman

 "You shave 5
-Brooklyn Life.
PROTECTED.
Cholly-"Does youah tailaw evah send in
his bill?"
Chappie-"Not now. It is so big he couldn't
get in without taking the side out of the
bouse.-Truth.
Bob Taylor-"He refused to go near the
"Plain drunk?" queried the magistrate"No, your honor," replied the policeman
Who had brought in the case. "Ornamented
with delirium trimmin's, jour honor."
A THREAT
I'll hlre one of those gondolas for the solepurpose of getting the paddle to spank you
with!"一 World's Fair Puck.
ANOTHER NATIONALITY
"Your new mai
LITTLE BITS.
We are all prone to make mistakes-and la
the blame on other people.
Credit is as valuable to the paragrapher as
Credit is as valuable to the paragra
is to the business man.-Texas SiftingIt may be that the pardoned anarchists wil
bomb the world's fair. - Philadelphia Times.
penslon for baldness originated in the India
wars.-Battimore
These are the times when a good many of $u$
"You say Smith leads a dual life." "Yes;
at home."-Philadelphia Record.
She-"This fur rug is very beautiful; to what
He (candidly)-"To me."-Jury.
"TVhat sort of a girl is she?" "Oh, she ismiss with a mission." "Ah!" "And b
mission is seeking a man with a mansion."thoughir exchange is no robbery," was thetwo dol
Puck.
Upstreet-"Hullo! I didn't know you were
bicyclist. How long have jou becn ridlng?"
Buffalo Courier
know. I wouder how it is in the other place?
"You may give me a milk-shake," said Miss"I will take a lacteal vibration
added Miss Finerson, of Boston.-Judge.

He (sincerely)-"No; but you are the only


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## (7at <br> FOLKS <br> $\qquad$

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papers.

## G1taming

## three gates.

If you are tempted to reveal
A tale some one to you has told About another, make it pass, Before you speak, three gates of gold. These narrow gates-First: "Is it true?"
Then: "Is-it needful?" In your mind Give truthful answer. And the next Is last and narrowest: "Is it kind?"
And if to reach your lips at last It passes through these gatesways three, Then you may tell the tale, nor fear What the result of speech may be.

## A LITTLE BOY'S LOVE.

With shouts of laughter That followed after,
This forfeit made its stern behest "Kneel to the prettiest, Bow to the wittiest,
And kiss the one you love the best

## Come, choose her bold

They cry, but coldly turns from all the maidens there, To bow-and lingers
To kiss her fingers,
While kneeling at his mother's chair - Ruth Hall, in Wide Awake.

## argus giganteus.

Tfamily ranks highest pheasant brilliancy of plumage, and only in their native wilds in Sumatra or India can their magnificence be seen to advantage.
The Argus pheasant is not a brave bird; a very slight noise throws the, vain creature
into quite a panic, and in haste the nearest, into quite a panic, and in haste the nearest,
heaviest growth of underscrub is sought, where he may in safety preserve, uuruffled, the beautiful feathered coat.
At certain seasons, "when household
thoughts prevail," Sir Algus makes a thoughts prevail," Sir Argus makes a circus in the forest from ten to twelve feet in diameter; making sure that every obstruction of leaf, twig and branch that would cleared away, he vigorously bestirs himself for action.
It seems to be well understood between Sir Argus and madam, who, meanwhile, has quietly settled herself upon a higharched knot or lofty branch, ready to recerve the customary gallant attentions;
wnen the arrangements are completed, when the arrangements are completed, commences prancing around the cleared circle, exhibiting his pretty paces, thus greatly delighting his audience of one, perched aloft.
Occasionally accidents will happen, and the swift runner, forgetting all else but the beloved one, narrowly watching his agile movements, steps a little outside the charmed circle, and suddenly finds himself ensnared.
Then comes madam's great advantage; she is strong of wing, and does not delay sceking a familiar roost, where she watches the sad imprisonment of her liege lord.
She can easily secrete herself; she sports no gay attire; and rarely do sportsmen or hunter find her abiding-places.
From her lofty eyrie, as unconcerned as might a stranger be, she watches with utmost calmness the dreadful dilemma,
comforting herself, no doubt, that there are other cavaliers on wing, as richly clothed, as chivalrous, and as adventurous as her lost mate.

RULES FOR GIRLS IN SLEEPING.CARS.
'The wise girl kuows that nothing is so desirable for wear in the sleeping-car as a wirapper of dark-colored flannel. It may be stated as a positive fact that women who in a make themselves look coquettish negliges or lace-trimmed wrappers, show oxtremly bad taste. Experience has taught that a wrapper of soft flannel in stripes of that a wrapper of soft flannel in stripes of black and blue, made
fashion, is most useful.
When she is ready to go to bed, and the porter arranges her berth for her, she goes to the toilet-room, taking with her her
shawl-strapped packages. She removes shawl-strapped packages. She removes slippers that she has taken out of her bag, removes any garments which she pleases,
atid assuming her wrapper, which has béen folded in the shawl-strap, repairs to her berth.
After fastening the buttons of the cur-
tains, she disposes of her clothing as best tains, she disposes of her clothing as best she can, folding each article smoothly and tickets in her wrapper pocket. And then she should try to rest-the porter will call
her in good season, aud her ticket will not be asked for 'during the night. In her shawl-strap, which shows as its outer wrapping a shawl or traveling-rug, she may have her own pillow if she desires it, but
this is not a necessity, as the cars are supplied with linen that is usually fresh and clean.
In the morning the wise girl will put on her stockings and shoes in bed, leaving the lacing or buttoning of them until later Then she will assume her other garments and repair to the toilet-room, where she should as expeditiously as possible make herself neat, trim and fresh, that her friends who are to meet her may not find her dusty or travel-stained.
This she should do quickly, that she may not be classed among those who are the not be classed among those who are the
dread of all considerate women on parlordread of all considerate women on parlor-
cars-the women who takeand hold posses-cars-the women who take and hold posses-
sion of the toilet-room as if it were a fort.sion of the toilet-room
Ladies' Home Journal.

## THE LOST BEAN STEW.

Every Yankee is supposed to be fond of baked beans. During our civil war, the New England regiments, when in camp, were loyal to the ancient custom which provided baked beans for the Saturday night supper and the Sunday morning breakfast. On the march the boys had to be satisfied with stewed beans, for the bivouac did not admit of building an oven or the digging of a pit wherein to bake them.
At the battle of Fisher's Hill an amusiug illustration of a Yankee's devotion to his beans occurred. The color-sergeant of the Fourteenth New Hampshire was noted for Fourteenth New Hampshire was noted for
his bravery and his fondness for stewed his bravery and his fondness

During the afternoon, while preparations were going on for the advance which won the field, the color-sergeant was stewing his beans. He had just taken the kettle off the fire, and, spoon in hand, was about dining, when he heard the orders:
"Fall in! Fall in! Forward, march!"
He would not desert the flag, he could not abandon his savory meal. Tying the steaming, sooty pail to his belt, he took his place in the ceuter of the line, bore aloft the colors and advanced with his regiment to the charge.
He kept one eye on the enemy and the other on the dangling pail at his side. The battle was won, but the boys declared that the way of the Fourteenth was literally strewn with beans.

## HOW TO CLEAN DRESSES

Get five cents' worth of soap-bark from the druggist (about a teacupful). For on dress take half of it and steep in about one quart of boiling water for about half an hour or more, then strain through a cloth. For a silk dress, while the liquid is warm take piece of white flannel and dip into it at intervals, and rub the silk or satin with it until it seems cleansed. When done pull the material straight and hang it to dry. Do not iron either the silk or satin. If the dress is very much soiled, use clean water for silk, or it will not stiffen up well For a woolen dress, dip the part to be cleansed, or the whole of it, if needed, into the liquor. This can be rinsed in the same after washing, or in clean, warm water. If after washing, or in clean, warm water. If
very dirty, put the dress to soak in a tub in the liquor with more water added before cleaning or washing. The woolen goods should be pressed until quite dry.
Water in which potatoes have been boiled will cleanse delicate-colored woolen or worsted goods. The dress should be
wet all over. Use no soap. Rinse in clear, warm water. Press while still damp. This will not injure the most delicate colors.

## foretell the weather.

A Spanish journal tells of an interesting experiment to be tried with a cup of clear coffee and a lump of sugar. The sugar should be dropped into the coffee without stirring; in a moment the air contained in the sugar will rise to the surface in the shape of bubbles, and these bubbles are If they weather indications.
If they collect in the middle of the cup a fair day follows; if, adversely, they adhere to the sides, forming a ring of bubbles with a clear space in the center, take your umbrella, for rain is at hand; while if they do neither one thing nor the other, but scatter irregularly, variable weather is indicated. Just what is the scientific explanation of the action of the atmos phere on the bubbles is not stated, but those of a barometer has beon tested - Th Whole Family.

## LIVE FOR SOMETHING.

Thousauds of men breathe, move and live, pass ofl the stage of life and are heard of no more. Why? They did not a particle of good in the world, and nono were blessed by them; none could point to them as the instruments of their redemption; not a line they wrote, not a word they spoke could be recalled, and so they perished-their light went out in darkness, and they were not remerabered more than the iusects of yesterday
Will you thus live and die? Live for something. Do good, and leave behind you a monument of virtue that the storms of time can never destroy. Write your name by kindness, love and merey on the hearts of the thousauds you come in contact with year by year, and you will never be forgottcn. No, your name, your deeds,
will be as legible on the heart you leave will be as legible on the heart you leave
behind as the stars on tho brow of the evening. Good deeds will shine as bright on the earth as the stars of heaven.-Dr Chalmers.

LAZY MEN.
An exchange puts in a word in defence of lazy men by saying that "we are indebted to them for most of our labor-saving inventions." This may be true, as we have and inventors, but we do not believe it. All that we know of or have any authentic account of, were invented by active, energetic men, who could not accomplish as much work by the slow process and imperfect machinery they had, and set themselves to work to find a method by which more work
could be done in the same time. We could be done in the same time. We
have seen some so-called labor-saving in-
ventions, patented by lazy men, but never saw one that was worth the room it occupied in the shop, field or house, any noro than was its inventor.
A man is not necessarily lazy because he stops to think about his work while he is doiug it, or because he may at times desire to change his occupation for a few hours, and exercise a different set of muscles, while the man who works a specified number of hours each day, at a certain regular rate of speod, as steadily as the clock ticks, may be too lazy to run down hill unless running is easier than walking. They have not energy enough to change their habits, or even to think about any posssible improvement in methods. They do not really live, but they exist, and continue to do so because it is too much trouble to do anything else, and are as useful and reliable.in and fay and generation as the sun-dial, and for the same reason. Wh
are put they are always there.

GIVING PLEASURE.
A little thought will show how vastly your own happiness depends on the way The looks and tones at your breakiastor employees, the faithful or unreliable men Jou deal with, what people say to you on
the street, the way your cook and the street, the way your cook and house-
maid do their work, the letters you get, the maid do their work, the letters you get, the
friends or foes you ineet-these things make up very much of the pleasure or
misery of the day. Turn the idca around, and lemember that just so much are you people's days. And this is the half of the ticular day shall bring to you more of
happiness or of suffering is largely beyond your power to determine. Whether each
day of your life shall give happiness or
suffering rests with yourself.

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## urrent omment

THE immediate cause of the stringency in the money market is the withdrawal of money from circulation. In the aggregate a vast sum of money is now hoarded.
Idle money gains nothing. Just as soon distrust disappears this vast sum of coarded money will be seeking
than it was withdrawn. It will be thrown n the market and interest rates will fall. Confidence is being restored and better Confimes are coming. Loans can be urade mes are coming. Loans can be uade of interest than can be obtained when the rush for the investment of money now rush for the investment of mone
Take a hint from the operations of shrewd foreign financiers. Tens of millions of their gold are now on the way from Europe for investment in American securities. It is coming in on the flood-tide that bears to greater fortune. The country is great and it is safe. Let every man it to has mation by making careful investments and safe loans. It is the wise and patriotic thing to do, and will give immediate relief
$\qquad$

He Congress of the United States now convened in extra session for the special purpose of making laws on money, commands the attention or "battle of the standards" is to be fought. Will it be a victory for the single gold standard or for the single silver standard? Or will it eternal peace on the basis of the use of both gold and silver as money at their true ratio of values?
The conditional repeal of the act of 1890 will place the monetary system of the United States exclusively on a gold basis.
The repeal of this act and the passage of a law providing for the free and unlimited coinage of silver at the established legal ratio of 16 to 1 , will drive gold from the country and practically place its monetary system on silver alone. The first means an appreciating currency to the undue advantage of creditors; the other means a tage of deblors. Equity is in neither. Impartial justice is in true bimetallism, that is, such use of silver as money as will prevent gold from rising in value.
Under this true bimetallism the purchasing power of the dollar will not be changed. The creditor will receive back exactly what is due him; the debtor will pay back exactly what he owes. An honest creditor
asks no more; an honest debtor asks no asks no more; an honest debtor asks no heart and demand absolute equity. Will
this congress legislate justly? Every true patriot hopes so.

From the foundation of the uatiou down to the present time every eminent Ameruse of botn during that time no man, numbered among the statesinen or deserving the name o rency. All true statesmen have labored to preserve unimpaired the high credit of the government and promote justice among the people in all fiuaucial transactions. They have not labored in vain. No gov ernment in the world has higher credit And the people are honest or they would have scaled down their debts with a depreciated currency years ago. Will this Congress legislate in favor of the true, honest dollar, the dollar that neither rises nor falls in its purchasing power? That is the kind of a dollar that justice demands.

To find an absolute and unchanging standard of value is one of the unsolve problems of economics. Money is not an absolute standard of measurement. If it is based nn gold alone, it varies with the value of that metal, which is subject to the law of supply and demand. If it is based ou silver alone, it will do the saine. Both gol different rates at different times. To discard either as a money metal is to enhance the value of the other. To use both in compensate for the fluctuations of the other is the nearest possible approach that can be made to a constant and stable basis for money. This is the true bimetallism

THe American National Bimetallic League in convention assembled a Chicago, August 1st and 2d, adopted
ollowing resolutions: First-That there must be no compromise of this question. All legislation demonetizing be immediately and completely repealed by be immediately and completely repealed by the conditions established by the founders of the nation, and which continued for over eighty years without complaint from any part of our peoplc. Every hour's delay in undoing the corrupt work of Ernest Seyd and of the American people, a crushing burden on their prosperity, and an attempt to again place us under the yoke from which George Wash ington and his compatriots rescued us. We protest against the financial policy of the
United States being made dependent upon the United states being made dependent upon the opinion or policies of any forelgn government and assert the power of this nation to stand ubjects.
second-We declare that the only remedy he mints of the financial troubles is to open equal terms, at the old ratio of sixteen of silver to one of gold. Whenever silver bullion can be exchanged at the mints of the United State for legal tender silver dollars worth one hun standard silver will be worth one hundred cents, and as commerce equalizes the price of all commodities throughout the world worth one hundred ceuts in the United States they will be worth that sum everywhere else and cannot be bought for less. While it will be urged that such a result would enhance the price of silver bullion, it is sufficient for us to know that a similar increase would be imme diately made in the price of every form of property except gold and credits in the civilized world. It would be a shallow selfishness that would deny prosperity to the mining industries at the cost of bankruptcy to the
whole people. The legislatlon silver has given an unjust increase to the
value of gold at the cost of the prosperity of
mankind. Wheat and all other agricultural products have fallen side by side with silver.
Third-That while the Sherman ent the restoration of free coinage, and is greatly objectionable because it coutinues the practical exclusion of silver from the mints and reduces it from a money metal to a commercial commodity, nevertheless, its repe top the expansion of our currency required y our growth in population and business, two precious metals, thus making the return to bimetallism more dificult, greatly inincrease the purchasing power of gold, still further break down the price of the products of the farmer, the laborer, the mechanic and commerce, business and industry into such depths of Wretchedness as to endanger peace, order, the preservation of free institutions herefore, in the name of the republic and humanity, protest against the repeal of the said act of July 14, 1890, except by an act restoring
free bimétallic coinage as it existed prior to 873. We suggest that the maintenance of bimetallism by the United States at a ratio of with all the wilver-ncing countrles of the world, coutaining tws thirds of the populaiou of the world, without decreasing our aw material, and will compel the adoption of bimetallism by the nations of Europe sooner han by any other means.
Fourth-We assert that the unparalleled people are not due to the so-called Sherman act of 1890 , and in proof thereof we call attenion to the fact that the same evil conditions now prevail over all the gold-standard nations
of the world; we are convinced that bad as is the state of affairs in this country it would have been still worse but for the sherman act, tent, an expanding circulation to meet the demands of a continent in process of colonizatiou, and the business exigeucies of the most dwelt on the earth, and we insist upon t execution of the law without evasion so long purchase each mouth of the full amount of silver that it provides for, to the end that the monthly addition to the circulating medium the law secures shall be maintained.
Fifth-That we would call the attention of the people to the fact that in the midst of all national bonds and the national legal-tender money, whether made of gold, silver or paper has not fallen a particle. The distrust is not of the government or its money, but of the the present panic on the country in an ill advised effort to control the action of Congress on the silver question and the issue of bonds.
We iuvite the bankers to attend to their legitmate business and permit the their legit people to have their full share in the control of the goverument. In this way they will so necessary to the prosperity of the people. it must not be forgotten tbat, while boards of trade, chambers of commerce, bankers and in their places, the republic can more safely repose upon the great mass of its peaceful toilers and producers, and that this "businessman's age" is rapidly exterminating the business men of tbe country. The time has come as far as possible to the simple and pure condition out of which the republic arose.
$\qquad$ our fellow-citizens that the refusal of the opponents of bimetallism to propose any substitute for the present law, or to elaborate any plan for the future, indicate elther an ignorance of our financial needs or an unwillingness to take the public into their confldence; ally repeal the Sherman law as an attempt to
secure gold monometallism in flagrant
violation of the last national platforms of all the political parties.
The name of this league is a misnomer mouometallism. The declarations are thoso of the radical silver standard men Let us briefly examine the leading featur of each resolution.
First-To return to the conditions which the founders of the nation established, or endeavored to establish, is to use both gold and silver at their actual ratio of values The people will not object to that.
Second-To open the mints of the nation at the old now equal, is not to open then only relatitio of 16 to 1 . Silver has no value the werld, but actually declined in relative ratio is now nearly commercial, or to the appreciation of gold, the actual decline of silver is less than indicated by thi ratio. While the free and unlimited coinage of silver by the United States at the old ratio would undoubtedly enhance the value of silver bullion some, it could no possibly, in the face of its actual decline in value, make sixteen ounces of silver wort ne ounce of gold. Thp gold baron tries to mislead the perivo into the belief that au ounce of gold has never varied in its pu chasing power; the silver sheik tries t mislead them into the belief that the pur chasing power of a shekel of silver has never varied from the time of Abraham to the time of Benjamin and Grover. Be tween the extremes there is a golden mean of fact. Both money metals have varied in value and will continue to vary.
Third-Has there really been an expan sion of the currency under the operation o the Sherman act? Has not more currency been withdrawn from circulation than has aded to it since that law went int ffect? Has not the monthly issuance of lasury notes redeemable in gold, by en larging the demand for gold, enhanced it value and widened the difference the precious metals? Have silver producer been willing to accept silver coin for the bullion sold to the government? Have not silver producers themselves discredited silver? When the act of 1873 was passed,
the bullion value of a silver dollar was 103 the bullion value of a silver dollar was 103 cents in gold. Are silver advocates really asking, in the name of humanity, the coin age of silver on such terms now?
Fourth-It is true that the "unparalleled calamities" are not due to the miscalled Sherman act of 1890, but under that act as claimed
Fifth-It cannot be true that the prevail ing distrust is a distrust of banks. Money has been withdrawn not only from banks but from circulation. It is locked up in safety-deposit boxes, or hidden in clocks socks and other places more or less in secure. If it were a distrust of banks, this money would have been withdrawn from the banks only, not from circulation. It was withdrawn from the banks in order t get it from circulation. It was not distrus of the loaning agencies, but fear that in the uncertain future a cheap dollar might come back in place of the good dollar that went

Sixth-A promptrepeal of the compulsory purchase feature of the silver act of 1890 will do much to restore confidence. As much time as is necessary can then be taken to formulate a substitute providing or the use of both precious metals on suc erms that equity will prevail, and ou atable as it is possible to make

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## The Advertisers in this Paper




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PLAIN TALKS ON TIMELY TOPICS.

## II.

ALITTLE story is going the rounds of the press, the moral of which may be brought closely home to some farmers.
An old lady is telling her little granddaughter of her early life, holding forth eloquently on
the poverty which was a part of the the poverty which was a part of the
heavy load in the early days. Her inheavy load in the early days. Her inhow much more the people of this age have to make them happy than did people in the early part of the century. The goo old lady goes on to tell how poor her fam ily was. They had a comfortable housc plenty of warm bedding, rag carpets, etc.
but they had no money and were very but they had no money and were very poor. True, they had plenty to eat, for
they raised their own milk, eggs, wheat poultry, mutton and beef, and had an abundance of fresh fruits and vegetables and plenty of maple sugar; but still they were very poor, for they rarely had any money, and there were two things they obtain. These were salt mackerel and molasses.

This story reminds me strongly of the manner in which many farmers are ever growling over their extreme poverty. With an overflowing larder, a comfortable home and an abundance of everything which goes to make life happy, except money
handled and turned for fear that it will not cover the dozen and one odd things required for the bare support of the family?

Let us look at the question for a moment from the wage-earners' point of view Taking the average stipend of the mechanic through the year at fifteen dollars per week-and statistics show that, taking out lost time, it does not exceed this figure-
how much ready cash can he have on hand at the end of the year after supporting his family decently? I do not mean in such luxury as to quality and quantity as most farmers may live in, but when he must pay full market price for small quantities of the milk, butter, eggs, poultry, fruits and vegetables used so freely on your tables. Putting it a little differentry how cash balance do you think pou hould much cash balance do you think you could show ceived fifteen dollars a week for your labor and paid the market price for the food you and your family consume, placing the other expenses of your family and the wage-earner's at the same figure?

I grant you that farm work is hard and that prices obtained for products are as a rule too low, but if your knowledge of ther arocations is at all extensive, you will agree with me that there are other occupations in which the
Life in a great city in this age takes a pace which is killing. I am familiar with the facts, for I have been both employer and employee in that greatest of whirling American cities, New York, and I can honestly say that for each of upwards of the ten years devoted to work in the city, it is my firm belief that my term of life has have been in the thickest of the fight in both city and country, and moderately successful in both places, and now with country life I am better, morally, physical
tables, half a dozen fowls, a few dozens of eggs and a few pounds of butter, take them out from housg town and pedde them thus fall into my purse from odds and onds, seemingly of little consequence among the abundance on the farm.

Peddling is not pleasant work, but 1 irmly believe that the farmer who grows a miscellaneous lot of stuff must learn to peddle before he can realize the full meas-

farmers, I would rather follow the plow all day or spend a hard day in the harvestfield than to peddle out one load of farm produce, but as with the merchant, there are times when one's stock must be reduced and turned into cash, and if peddling is the only way in which this can be done, we must learn to peddle. BARTON HALI.

8TATE BUILDINGS AT THE WORLD'S COLUM BIAN EXPOSITION.
The nlinois building is the largest and finest of the state buildings. In it are in-


## Now YORE STATE Butupinc

$y$ and mentally, with less than one third the yearly income, than I was in the city.

It is true that my city training has boon of value to me in my country life, for remembering the early days on the farm, I am able to adapt my city training to my arm work, now that I have returned to it. And, by the way, may not this lack of application of business principles to farmfall? Possibly we ought not to blame
teresting exhibits of the products, industries and arts of the state
The style of the architecture of the Calfornia building is the same as the old missions, built by the Spanish pioneers on the Pacific coast. The lavish display of California's famous products shows the onterprise of her citizens, as well as the cenerosity of her soil and climate
The front of Pennsylvania's colonial structure is an exact reproduction of old Independence Hall. Old liberty bell is the shrine of millions of visitors.
New York's beautiful building contains many interesting exhibits, mostly of a historical character. In size it ranks third, and in style it is a modification of the old Van Rensselaer residence.
The Indiana building is French Gothic in style. In itself it is an exhibit of Indiana building material, as nearly everything used in its construction comes from that state. Although primarily intended for a Hoosier club-house, it contains an exhibit of state products.

WORLD'S FAIR AND OTHER NOTES
The Exhibit.-Possibly a hangman may find nothing in the exhibits relating to his particular industry. That, however, is an exception. I do not remember any line of business not represented in some way. Surely, the soil-worker finds enough things that are of particular and professional interest to him.
In the southeastern part of the grounds, almost wholly surrounded by water, and presenting an 800 -foot front to the "basin," with its avenues, pavilions, Columbus and electrical fountains, stands the building of agriculture. It is 500 feet deep, and has an annex of 812 by $5501 / 2$ feet.
a mile in length. At the time of my visit the stock show had not yet been opened. It will not be open until some time in will find it advisable to defer their visit to the early fall.
One of the things exhibited in the agricultural building, and of special interest to the progressive farmer, is the exbibit of fertilizers, fertilizer machinery, etc. Most of the leading firms are represented. What I missed, however, or did not happen to find, was a complete exhibit of fertilizer distributers, drills, hand-sowers, etc. It seems to me that it would have been to the
advantage of the various fertilizer manufacturers and dealers to make a collective show of this kind.
I was especially attracted by the exhibit of the German kali works. In a highly artistic pavilion inside the great hall, these people show samples of all the different productions of the salt mines at Leopoldshall and Stassfart, Germany, the only ones in the world now yielding our supply of salts of potash. Undoubtedly many of my readers have recontly noted their advertisements in the agricultural papers. In their claims as to the value and need of potash, they may be inclined to state their case as strongly and emphatically as possible, and we will take their words with a trifle of allowance. Still, I must admit that potash-more potash-is one of the great needs on many farms, and often more urgently demanded for best success than the other elements of plant-food.
This is especially the case where fruit, potatoes and tobacco are regular and staple crops.
About the only competitors, too, which the owners of the German kali mines have are the dealers in Canada wood ashes. The competition seems sufficient, however, to keep the prices of potash fertilizers at a Stassfuble figure. If it were not for the would hroduct, the Canadian ash doalond perhaps bleed us unmercifully; for in many cases it would be more profitable to pay double rates for potash than to let our orchards go without.
One of the samples shown by the German kali works in their exhibit is a mix ture of kainite and Thomas slag. I canno give the proportions, but consider it a cheap and effective general manure for fruits, clovers, etc., and for grain crops when a reasonable time can be given for it to take effect. I think this will prove of especial value for the purpose of enriching mucky soils. Wherever the application is to be made in the spring, for a crop maturing by mid-season of the same year, however, I would not use nor recommend it. Fall is the time to apply this kind of fertilizer. Yet I have seen astonishing results from Thomas slag applied on buckwheat only just when the latter was sown. This reminds $m \theta$, also, that in a book entitled "Improving the Farm," and recently issued by the Rural Publishing Company, of Now York, I saw a chapter on "Artificial Ashes." Artificial aṣhes indeed! I think the idea in itself is an absurdity. Ashes are not a complete manure. They are a means, not an aim.
are a waste product, and they furnish us cliefly one of the mineral elements needed in our manures. But ordinarily we com-
bine them with other manures, in order to and to them the other element or elements required for our crops. We have no reasou whitever to try to make a substitute for
asines, when we can just as easily make a iter, more evenly balanced, and therefore nore, complete manure. When we make combinations of manures, our aim must be to produce an ideal fertilizer for our special purpose, not something resembling ashes or any other waste product.
The soil-tiller often finds
The soil-tiller often finds himself in the situation where he can make use of miueral fertilizers, and dispense with the more
costly nitrogenous manures. This is the costly nitrogenous manures. This is the
case, usually, on soils rich in decaying veg etable matter, reclaimed swamp lands, etc. also in bearing orchards and small fruit patches, and in the production of peas, beans, clovers, etc. In all these emergen cies we want an evenly-balanced mineral furnishes both potash and phosphoric acid in about equal proportions. We have no but would use ashes in artincial ashes, but would use ashes in combination with of natural ashes, a combination of potash and phosphate, such as the kali works offer in their mixture of kainite and Thomasslag or which every farmer can mix for himsel after purchasing the two articles separately wherever, he can get them the cheapest.
In place of the kainite, too, he may use In place of the kainite, too, he may use muriate of potash, if he so prefer, and in place of the slag, one or the other of plain phosphates or superphosphates.
The kali works have taken me entirely off the fair grounds. While on the subject of fertilizers, howvever, I feel that I uust also pay my compliments to mological exhibit, near Midway plaisance, some tests are being made with nitrate of soda. It was only a little bed, however, having a few short rows of grasses, barley, oats, potatoes and corn. I do not know what the ater developments show. At my visit, were far ahead of those that had received 110 application. In the grains and potatoes, however, I could not as yet see the slightest difference resulting from the use of the
nitrate.
T. Grenner.

## THE AFTERNOON LUNCH.

The afternoon lunch ought to be an established institution on every farm from June to October, or as long as excessive toil is carried on in the fields. The forenoon does not seem quite so long as the afternoon; at all events, there is less time between meals.
On many farms the milkiug and the chores are done before breakfast. After breakfast but not so in the afternoon. Then the work in the field is coutinued till six oclock, or even later, to "hoe out a row." Then it is time to milk and do the chores. ne-destructive of digestion, if not of life itself. It were better to stop work in the field t five o'clock, have supper, and then do the chores; but the farmer does not like to divide the work, or rather, make a break in'it-does not want to wash up unless the day's work be done.
And therefore, it may be eight o'clock before he is ready for supper. This makes a long day for the farmer and for the members of the family indoors. Their work is even later than the farmer's, for they have
the table to clear and the dishes to wash after the supper is over.
The afternoon lunch is a welcome help in the afternoon, and I hear the farmer's as it is possible to get it. Perhaps the lunch, in some cases, is responsible for the lonch, in sombetween meals. If it were abolished, the farmer might be led to change his plan of work-stop earlier and change his plan of work-stop earier and
eat before chore-time. But as the supper eat before chore-time. in the evening, the lunch helps the farmer to bridge the interval between noon and slecping-time.
What is there more cheering to laborers on a farm, on a hot afternoon, than to see the relief-train issue from the house and move toward the field, the train led, perhaps, by mother, wife or sister under an umbrella, followed, maybe, by other membcrs of the family, bearing various good things to satisfy hunger and quench thirst. It is very cheering and welcome under any circumstances, even if the maid-of-all-work scene with her flow of good-natured brogue and blarney.

Now, in luaching in the middle of the farmer's afternoon, about four o'clock,
there is somethiug more thau food for the tomach. There is rest and receratiou for both mind aud body. Cares are thrown off and for the moment forgotten, the teusion is removed, and the lunch aud the lunch hour become a prop in greater and more and lunches may accomplish more and do it easier, than the man, the "staver" and thc driver, who rushes ahead, "staver" and probably believes that it is a waste of time, provably believes that it is a waste of time, rest half an hourin the busy part of the day. The lunch, or what may be equivalent to it, is as good for draft animals as for men. For cxample, iu the spring a large field of
greensward was to be plowed. In the fore-

To the mauy thousands of readers of Farm and Fireside I desire to say a few words of encouragement, to prompt you all to attend the world's fair. This great exposition is beyond human comprehension, unless a large amount of time and money is spent to study it carefully. The immensity of it is appalling at first sight.
The first world's fair was held in London in 1851, on 21 acres of land; the secoud iu Paris in 1855 , on $241 / 2$ acres; the third in Loudou in 1862 , on $231 / 2$ acres; the fourth in Paris iu 1867, on 37 acres; the fifth in Vienua in 1873, on 40 acres; the sixth iu
Plitadelplinia in 1876, on 60 acres; the sevPliladelplina in 1876 , on 60 acres; the sev-
enth in Paris in 1878, on 60 acres; the eighth in Paris in 1889, cn 75 acres. And this,

noon a farm-hand took the plow, being his own driver. In the afteruoon the milkman, who was away iu the morning, took his place. Now, at noon it was noticed that the horses were more weary, apparently than at night. They appeared to be used up, and had perspired a great deal, while at night, although showing the effec work, were in unch better condition.
The cause was easily discovered. The horses-heary mares-were free workers, a little; but the hired man had not only let them go, but probably urged them a little, as he was as free as the horses-ambitious to do a great deal in a short time, at any expense of muscle, giving them no time to expense of muscle, giving fum nows. Thus
breathe at the end of the furrows. they went all the forenoon, back and forth, without a slack of draft anywhere, except


But the other man stopped perhaps a $\mid$ that kind of a railroad ticket, or so little minute after each furrow, and after three or four furrows stopped perlaps five lifted saddles and other parts of the harne and wiped with a handful of grass. This stopping, these breathing-places were lunches to the horses.
As to the work done, that in the after noon, when the horses had lunches, was much better than that done in the morning, when the driver was trying to see how much ground he could cover. The morning plower went over a little more ground than the afternoon man, but not much, for, rushing ahead at such speed, the plow was often thrown out, as the work showed, and he had to back sometimes six feet to get back in the furrow where he left it. The lunch system pays, whether for man or beast.
mouey iu your pocket. I was there from June 7th to 23d, and only got well started company four times as much money as I ompany four times as much money as 1
did the Columbian exposition. As soon as did the Columbian exposition. As soon as
my farm harvest euds I shall return aud pay the exposition four or five times as much money as I shall the railroads, because they deserve it far more. I wish the press of America would punch the railroads with sharp sticks upon all sides until they come down with thirty-day tickets at one-cent-a-mile rates. The millions could then go to the Chicago school.
I spent three days in the dairy department, because I was specially interested in that work. I also gave three days' time to the agricultural building, which covers almost ten acres of land, with an annex to show off six acres of farm machinery

Your city of Spriugfield, Ohio, has got her fair share of reprcsentation iu that six ell the good points of the machines.
The crop and vegetable exhibit of the whole earth here inclosed is a wonderful sight. It speaks volumes in praise of kind Providence to know no place has been forgotten; even Greenland, where I thought the inhabitants subsisted on blubber, and Asia, where the pole picture of rats showed their food product, in my old geography days. We here see they all grow an abundance of vegetables to make life bearable and food palatable, providing the inhabitauts possess the skill necessary to cook it suitably.
Ithink the farmers of our eastern and middle states, where we depend upon rainfall for vegetation, will be thunderstruckat the splendid long straw and heads of grain grown by irrigation in all of our new, farwestern states, the clean straw of grain heads of grain in ulany instances from four to six inches in length. After looking very carefully in one for the Yankee splice, they will all call loudly for irrigation here at home. And when statistics show us the yield of wheat per acre is from fifty to sixty bushels and that of oats from oue hundred to one hundred and fifty-six bushels per acre, it will make many an Ohio farmer think he is a long distance yet from perfect farming
The horticultural crop in this agricultural building, although iu glass cans, shows one. many good places to go when they have
leisure and money to spare. The one farm leisure and money to spare. The one farm
exhibit made by Mr. W. O. Bush, of the state of Washington, is worth the entire trip to Chicago to see. It is simply ahead, by far, of the entire county exhibits of many county fairs in Ohio. It did not seem possible to me, before my visit, that the state of Washington was so important aud so favored a place to live. She has an Ohio-born and educated senator, who is respousible for the magnificent display and sensible advertisement of that state's resources.

The gallery of the agricultural building is well filled with the good things of this earth. You must all go up and see the Ohio maple sugar and syrups made by my ucighbors here ou the western reserve. It shows skill and enterprise of man, while the apiary gives a magnificent display of beautiful honcy, which is not entitled to as much credit, for honest bees always do good work.
To see what becomes of the immense grain crops of the Dakotas, you need to look at the model of the Washburn flouring mills of Minneapolis-where ten thousand barrels of flour are made per day. The glass bin of grain holds one thousand bushels of wheat, and it requires justfortyfive such bins of wheat every day in just this one mill alone. Of course, you will all pass through the old big barrel house and eat one of Aunt Jemima's hot cakes, free: and I do assure you all the free things you find there you better take
I did notstart in to tell you what they have there on exhibition, for fear you would take my word for it and not go and see for yourself. If you will make an in telligent and careful survey of the contents of this one building alone in three days, you can beat me all to pieces.
H. тalcotт.

## SAGE CULTURE

Broad-leafed sage is the kind to grow Sage seed should be sown early in April Sage seed should be sown early in April
iu a rich bed, and the plants transplanted to a piece of land from which an planted to a piece of land from which an
early truck has been cut. The plants, early truck crop has been cut. The plants,
set in rows $2 / 2$ feet apart and 12 inches in set in rows $21 / 2$ feet apart and 12 inches in
the row, will, if land is good, nearly cover the ground by September, and as all the growth is young and tender it can be cut off at the ground and cured in the shade.
Hood's simicures


## When all other prepara- tions fail. Yt is not what

 We gay, bnt what Hood's Saramarilla does, that telllthe atory of itt merit. "I am glad to write a few
words of commendation of words of commendation of
Hoods Saramparilla and Hood's Pills. I have been a Sick Headache.
After taking six bottlee o
Hood's Saraparill



## (1) It ざarm.

A

## ARDEN AND FIELD NOTES

 BoUT MUsHroours.-The sub-ject of mushroom growing
just now interests me greatly. just now interests me greatly. this product during July, August and September, when the demand is best and prices bighest? dollar for erery pound of sound mushrooms that we can raise. It seems a big sum of money for a small lot of stnff
that is mostly water, and there can be no doubt that mushroom growing pays big profits. The returns are so satisfactory, indeed, that the majority of people engaged in the industry try to keep their
methods and profits a secret for fear that the publication of the truth would induce many others to raise mushrooms, and unduly increase competition. This alone is culties in the way of mushroom prodnction. On the other hand, I find that there are knacks and kinks about the business are knacks and kinks a
Thus far, without just the right kind of facilities, I have not been able to m:ike a howling success of it. One of the chief
troubles is that stale, worthless spawn is troubles is that stale, worthless spawn is
plentiful, and fresh, live spawn rather the exception. Even responsible soedsmen will sell you the lifeless article, simply because they do not know that it is lifeless the difference between good and old spawn. When the spawn is fresh, and consequently good, it has a distinct mushroom smell
which is lacking in the stale article. But I miss this smell in samples not quite fresh and yet not too old to give good results.
spring been introduced under the name Agaricus subrufescens, and under the claim that it is a "hot-weather" mushroom, the common Agaricus campestris. Spawn of the former, however, is yet held at a
high figure, although my limited experience with it leads me to think that this spawn can be produced by every growe
easily and cheaply. I shall, later on, give $\mathrm{m} y$ way of making it. Am still experimenting quite extensial mushroom, but find that it does not overcrop during hot weather; namels, maggots Every specimen which I have allowed to
come to full derelopment in my green house beds this spring and summer wa them. Possibly we may ret learn way in greenhouse management of overcoming this difficnlty
The first aim in growing mushrooms keep the atmosphere moist, and this I am trying to accomplish by spraying the whole interior of the building frequently
and thoroughly. The glass is thoroughly covered with whitewash
Beds are made on and under the benches. Those on the benches consist of a layer of horse manure (some fresh, some older
from the blacksmith shop), or a mixture of horse manure and spent hops, three or four inches deep and well packed down, and pressed down upon the manure. A light rapid evaporation. Now, while the mushrooms make their appearance, I shall occa-
sionally spray with buhach-water in place of clear water. I hope this will rid the
house of insects and maggots. Surely there must be some among the readers of Farm and Fireside who have experimented, or are experimenting, with the from them concerning their successes or failures. What we want is to learn to prosell them for big prices.
Where caves and abandoned tunnels are available for the purpose, mushroom grow ing can be carried on the whole season long. About thirty miles from here-in Akron,
Erie county, N. Y.-is an abandoned stone quarry with cares to the extent of thirty or forty acres. A resident of the place util-
izes about a tenth part of this area for mushroom growing. The temperature in these cares ranges between 55 and 65 degrees Fahrenheit, never more and never less. I
believe that the ordinary variety (A. campestris) is exclusively grown. The product
imens are large and fat, and entirely free from the troublesome maggot.
These cares are somewhat like a min iature fac simile of the catacombs of Paris ilar way, but on a mnch larger scale. Un doubtedly there are thousands of caves, tunnels, stone quarries, etc., in the United States that offer opportunities for the mush room grower as good as those near Akron If I had access to a care of this kind I
would not hesitate a minute to engage extensively in an industry which promises as good pas as mushroom growing. I will thank any reader who may know of a suitable care in his vicinity, for information tion of it.
THE SEASOR.-The present season in m 5 immediate neighborhood is one of the most discouraging that I have ever expe
rienced. A superabundance of water in early spring and delayed planting in consequence, is followed by a prolonged drought which keeps most crops at a per
fect standstill. The season is good for melons and sqnashes, fairly so for tomatoes and corn, bnt potatoes and most garden cropssuffer terribly. The potato-bugs have
soon to give the potato-plants a new start eren they will starve, for there seems abpotato crop in this vicinity will be a com plete failure. My carrots, my beets and ther roots are pretty small. cery make As tree fruits are also remain undersized. As tree fruits are alsoa general failure, the
outlook is not flattering. Grapes, how ever, are promising a full crop, and the
dry season has thus far kept them free from fungous diseases. There is always a silver lining to every cloud. What hurts imagine we shall not hare to do entirel without the luxury of fruits. And $i$ verything fails here, we are reasonably Still, I would like to see one of the oldfashioned fruit years, with the luscious peaches, cherries, plums, pears and apples we used to have in such abundance that we did not know what
this wealth. This year
some difficulty in filling our cans and jar with the usual rariety of fruits, there being few cherries, few plums, few pears and next to no apples. Possibly evaporated measure som'e experiments in the evaporation of Peas and green Lima beans are also good

Orchard and Small Fruits. to prevent trees from splitting. It seems to be the nature of some vari eties of apple-trees to grow in crotches, of
forks. With some rarieties this makes bu little difference, as the forks are solid and never split, bnt with others, such as the solid, and when loaded with fruit is apt to split, and often fine, large trees are ruined This can be aroided in different ways, but growing on one branch of the tree and graft the upper end of it into the opposit small the sprout will grow with the tree, and make a strong brace, and will become the brace.
SHADING THE SOIL AROUND FRUIT.PLANTS
The well-known fruit grower, -. F Powell, of Ghent, New York, exhibits
Fay's Prolific and Cherry currants, at the world's fair, of remarkable size and color He says that he has learned a lesson during the past four jears on currant growing on highly, and cultivates between the rows until the fruit is well started. He then the rows during the heated period. This a still greater benefit to the foliage in the work of preparing the wood for the nex season's crop of fruit buds and fruit.
On the rich soil the buckwheat makes a strong growth and reaches well to the top of the bushes, and even grows up in the open spaces between the currant branches. Without this soil shading, and even twig shading, the bushes are weakened by premature loss of foliage. Mr. Powell claims that his crops are largely increased by this method, and the aggregate selling value is
berry and bunch, and the finer shade of coloring. The same plan has been tried in gooseberry growing, and by early sowing largely controlled without spraying. In these notes we hare often called atten tion to the value of soil shading in young rchards of the apple, pear, cherry and plum, by sowing buckwheat the middle of June. If any one doubts our statement, let him make the experiment of soil hading on one half of the orchard.
In New Jersey the shading is done by a covering of marsh hay pnt on in June wheat it is quite as effectual as the buck expensive. Clover as a soil shader is quite as valuable, but in practice it soon runs nto blue-grass and other grasses, which other cereals, which rob the trees of needed moisture.-Prof. J. L. Budd

## ANCIENT BRITON BLACKBERRY

Prof. Bailey gives in American Garden$\mathrm{ing}_{\mathrm{j}}$ a $\mathrm{S}_{\mathrm{j}}$ mposium of eastern and western experience with the Ancient Briton. The reports of Well-known growers indicate, in
the words of the Rural Niew-Iorker: "That the berriss average medium somewhat less, unless the canes are cut back so as to moderate its natura' propenity to overbear. The quality is fine, the berries free of core and jet black. The canes are no less hardy than those of Snyder, but the thorns are somewhat more numerous and sccentuated."

## INQUIRIES ANSWERED

Diseased Rose-bushes.-E. W., Parkersburg, Oregon, writes: "MY rose-bushes have
some kind of blight on their leaves, a spec-
imen of which inclsen They
troubled with mildew." Reply:-Pick off and burn the diseased misture made as recommended in an article on "Spraying Grapes" in Farm And Fireside
of March 1st last. This will not cure the disease, but will prevent the new growth from becoming diseased. It should be applied once
in two weeks, and is quite harmless. It seems o me, however, that you have very weak they do not get much air or sunlight, and moist to have them so very mnch diseased In a moist climate roses need plenty of light

## Tine to Kill Trees.-O. R., Westernport

## Id., Writes: "Is there a special day in the Y when if oou cut a small limb or take a pie of bark off a tree of any kind it will die? there a special time for mowing down

there s special time for mowing down briers
or nndergrowth in the woods so they Will no
grow any more? Old men here say there is
but none of them can tell the day. Please le
REPLY:-There is no special das in the yea
REPLY:-There is no special day in the sear
when if sprouts are mowed down or trees cut
that they will not spront again; but for about
that weelss in the latter part of June or the
frist of July, if they are cut they will gener-
ally die. The best time for one tree might not
ally die. The best time for one tree might not
be the best for another. If trees are cnt even
in the latter part of July they seldom sprout
much, and if at all, only very weakly. The

## half of the summer, a lot of food which it

feeds upon the next spring and uses to make
the rapid spring growth so characteristic of
our trees. By the first of July this stored-up
growth is made, at least by most of our trees
but all the force of the tree is put to work to
all the old food is used up and no new food


Sar-fiy.-T. M. E., Atkinson, Neb. The
wasp-like flies you sent to be named are the males of the large saw-fy (Cimbex Americana) Which feeds on the leares of the willow, but
attacks also poplar, basswood, elm and birch Early in June the eggs are deposited just un soung larræ, which are bluish gray in color do not at once leave the blister-like place remain protected by it for some time. Eren-
tually they leare by a slit in the skin, and attain full size by the last of Juls. They are very slight depth, barely covering them inside of which thes change toward spring to pupa. During,the month of May the followinsects, and start a new generation. This in sect may also be distinguished by its pecucarity of ejecting a watery fluid when its
caterpillars are disturbed. The worms often caterpillars are disturbed. The worm
be kept in check by spraying the infested foliage with poison at the rate of one pound o Paris green to one hundred and fifty gallons readily to the ground when the tree is shaken that hand-piczing is a very effective remedy.
are formed. In man be gathered where they lows and poplars are mulched, and all the worms invariably seek such places to form their cocoons. Large numbers of them can thus be gathered during antumn and early
spring, when the ground is not covered with spring, when the ground is not covered with snow; or better still, the straw used for mulch Ing can be collected in heaps and burned.
Young Apple-trees Dying.-R. C., Wakeneld, Neb., Trites: "Please tell me the canse
of my apple-trees dying. I set out a nnmber of them last year, and they grew all right This spring they leafed out and then died. pulled them up and found that the rools On one that I pulled up I found some bugs that looked about like ants. Thes were little larger and longer, and white. Can you me to teli sou just what killed question
trees. Last winter Was severe, and mans
young plantings were injured. Then sou mas young plantings were injured. Then you may
have varieties that are not hardy enough for
your section. But it would appear from the rootsts that the trees were seriouslound on
injured
(Weakened by the wooll aphis, or root-lice chards, especially in the West. They may be killed by scraping the earth away from the
roots and then pouring scalding water on
them. But in case I had trees as small as Fours, I shonld dig them up this fall and dip
the roots into hot water or kerosene emulsion
or strong to or strong tobacco-water, heel them in for the
Winter and set out next spring in a ne place.
I would not put them back into I would not put them back into the soil where
they have been growing until after one sear.
It is of great importance that all apple-trees to be planted should be carefully inspected,
and if they show the least signs of this pest
being being on them they should be treated as rec-
ommended. We need to exercise much more
care than is customary in dealing with this

## you

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Sacenon, N. .


## (9ur furm.

## the farmer's home.

TIERE is a vast amount of discontent on the farm-too much for the welfare of our people.
Its expression is becoming a fixed habit, and nothing could be more deplorable. The farmer finds his hours of labor long, he
says, aud profits small; the wifc has too says, aud profits small; the wife has too
much work to do; the daughter is sure she will not narry a farmer, and the son wants to go to the city. What a con-
dition of aftairs! It is not found in half dition of affairs! It is not found in half our country homes; but alas! in enough of impress all other classes unfavorably, and in a degree to affect those who like the in a degree to affect those who like the
busines of farming. What is the matter? Is there no cure? Shall the lives of nearly half the Americau people be spoiled by discontent and vain longings?
Of course, discontent is found every-
where, but this prevalent exaggeration of where, but this prevalent exaggeration of
the farmer's ills is bringiug an undue share fit into our homes, and it is time to try to mend matters. I have a few suggestions to make, hoping that they may meet with the favor of some who are not satisfied
with their surroundings, and who are willing to act, rather than grumble.
The man who loves his family and finds it dissatisfied, must soon join in the discontent, the pronts grow the the farmer's wife -the average one-does have a harder lot than the wife of the city man of equal than the wife of the city man of equal
nieans. The daughter has fewer advantages, as such things are measured by the
young, and the son sees more glittcr and young, and the son sees more glittcr and
attractions in the town than on the farm. attractions in the town than on the farm.
Truth demands this admission. The question arises, how may all this be changed sufficiently to give the average farmer's fanily the happy and satisfied life that is the right of every human being?
The boarding-house feature of farm homes is thoroughly unpleasant. Employees
must be had by the farmer, but he is the only employer who is expected to destroy the privacy of his home and burden the homekeeper by having boarders from one ear's end to another. It is not that the wise than the employee, but the homes are wise than the employee, but the homes are
few in which any regular boarder-even a minister-does not destroy much of the true home feeling and add much to the work of the wives and daughters. The
city man adds a dozen men to his force in the morning, and it is naught to his wifeher home is not a boarding-house. The
farmer's wife too often finds that a hot farmer's wife too often finds that a hot
kitchen requires her presence in it nearly every hour through the day, and that uo cozy home circle is possible at night-why
should not a little envy of town sisters enter the mind?
Some boarding of hands is necessary, but matters can be mended in a great degree. ried men in tenaut-houses near the farmer's ried men in tenaut-houses near the farmer's
home. Such houses can be built at a small home. Such houses can be buitt at a smanh onc fourtl mile of the barn. Then the
tenant can take his meals with his own tenant can take his meals with his own
family, have his own home circle, and while enjoying his life, remove a burden from his employer's family. All regular
hands should be provided for in this way hands should be provided for in this way
when possible. It pays to spend a little money aud take a little trouble to get such houses and snch tenants on the farm.
Better accuunulate money a little more slowly and make such provision for the farm help. If the regular hands can board in their own homes, then the transients in farmer's home without burdening any one seriously.
Eagerncss to make money leads to much false economy. A little money wisely sipent in the home pays a big interest.
There should be a constant effort to make the home attractive. Large sums are not neqded for this purpose. An abundance
of shade, a ncatly-kept lawn, a few ueat :lks, plenty of flowers and a comfortable hi juse are sufficicnt. The coolest rooms of
tin house sloull be the oncs chiefly uscd hnuse slioull be the oncs chiefly used
the family. Enjoyment of the boasted inforts of country life should be the watchword of the home. The boy who is
compelled to sleep in the hot attic, while the cool bedroom remains closed, awaiting no expected visitor, will not valne his
home, and why should he? The best is none too good for the owrers-the parents and their children.
and their children.
drives in the evening behind a fresh horsc,
while after becomiug a wifo she stays at while after becoming a wife she stays at
home? Do such things happeu? And home? Do such things happeu? And
truth compels the statement that often the wife is to blame. She learns to live to work, and what does tho daughter see in
such a life? I know from experience that tho net income will not suffer if ficld work is dropped at noou every Saturday, and it often pays to shorten other days an hour or so. No man can succeed unless he looks outside the furrow uow and theu. Outside busiuess demauds some attention, and
farmers lose more by failing to stop work occasionally than they do by stopping unnecessarily for pleasure. These times
furnish opportunity for a little outing-a furnish opportunity for a little outing-a
rest and change for the wife and children. Then why not improve them?
I have not drawn a picture of some farmer's homes. I ann acquainted with many that are beyond criticism-some being comfortable, neat in all thcir surroundings, and enjoyed by those who do not valuc the possession of dollars above the eujoyment of life. But it must be ad engrossed in his work, aud too much pushed by it, as a result of trying to do a pushed by it, as a result of trying to do
hand's full work while managing his farm, to take care that the home attractions be as
great as they should be. Do not too many great as they should be. Do not too many
of us forget the true object of our lives? What is money that we should worship it and what are large farms to us when wo form habits in their acquirement that pre-
vent us from getting the best of lifc? The vent us from getting the best of lifc? The
young members of the family canuot see young members of the family canuot see "grind," and then comes unrest and a longing for the attractious that they think aro seen in towns.
The farner's home! If it be the center of iuterest; if it be the best in every way possible that can be provided iu reason, be that ever so hnmble from a financial stand point; if there be comfort and good chec and holidays and good literature and
games, then all the necessary hard work will not drive the young people from the farm, but will only give the more zest to its pleasurcs. It is time that we think on
these things. Natnre enables us to make these things. Natnre enables us to make
our homesideal ones-storehouses of plenty for the physical, intellectual and social When our children are drifting away from agriculture we should consider the possibility that the cause could have been removed by us. When we make our lives word, the living, in the truc sense of the want to follow in our footsteps peoply thos leaving who have a special aptitude for other work.

David.

## cheap cow feed.

The lower the cost of producing milk and butter, the greater the profit, so we must feed the cheapcst good food we can get In summer there is nothing so cheap, an at the same time so good, as pasture; but
in winter the selection can be made from quite a large number of kinds of feed. Ensilage, when properly put up, is a cheap and good cow feed, but it should always
be fed in connection with clover hay, if be fed in connection with clover hay, in
possible. If I had to choose between all possible. If I had to choose between all should take the clover hay, if I were feed ing cows for the production of butter.
As hay is now being exported to Europe from this country, on account of a dronth there having cut short the crop, it may be that the foreign demand may keep up and therefore make an impression on the price here. If so, we must savo all of our corn will take the place of hay, so that we can sell the latter, if the price jnstifies
Those who keep cows for the production of butter do not require

So much as those who sell milk. While cows are fond of any kind of succulent food in winter, I have not found it to be a necesbutter. Bnt many dairies are making of milk to scll in cities, and here is where succulcut food comes in as a money-maker, for it will increase the flow of milk, though it may not increase the butter fat.
Ensilage and mangels take first place here, both as regards quality and cost of production; it is now too late to plant either corn or mangels, but if a root crop is
desired, the rutabaga and white turnip may desired, the rutabaga and white turnip may in sown, the former at on
White turnips make the cheapest root crop that can be grown; on soil in fair condition, with a little fine manure or some
superphosphate, the seed sown broadcast and lightly harrowed or rolled, a large crop can be grown, the principal cost being the harvesting and putting in kilns, for
they do not keep well in cellars. Wheu fed to the cows they should be fed just after the cows are milked; then they will flavor the milk little, if auy.
Dairymeu near large cities can buy brewer's grains, and when competition is dow price; but the cows should have some other grain fed with them, as tho brewer's ther grain fed with them, as the brewer's
grains increase the milk at the expenso of its quality.
a warm stable
Is an important factor in dairying; the warm stable saves feed and makes milk. While all stables are warm at this season of the year, yet it is a good time to arraugo for making them warm in winter, and one of the best ways to do this is to have a large stack of straw near tho stable, so that it also to line the whole insidc of the stable, if the latter is full of cracks, as it ton frequently is. A wooden wall, an inch thick,
lined with four inches of straw, packed lined with four inches of straw, packen warm as need be in the coldest weather There is a great saving of milk and butter -there
There are lots of

## little things

That can be attended to between now and winter. On rainy days the mangers and
feed-bins can be examined, and all cracks and holes stopped. I have seen a half-inch crack in a manger that was wasting lots of food every time the cow occupying that stall was fed. Rats and mice will guaw
holes in the bottoms of meal-bins, which may not be discovered till the meal is nearly all fed out; then a bushel, more or less, of meal may be found underneath the bin, musty and good for nothing, except to use as a fertilizer. For
eeding calves
A pail is generally used, and the calf will very often upset it before it drinks half the milk. If a piece of hoop-iron be pail may be set in this and be secure; bnt a box, ten or twelve inches square and six inches deep, made out of inch boards, with the bottom board a very wide one, so that it will project five or six inches on all sides, will make an admirable milk holder, and one that the calf cannot possibly upset.

## the calf in sumaer,

That is, the young calf, is much better off in a box-stall in a cool stablc than tethered out, or even if allowed the liberty of a
small pasture lot. Flics and the hot sun are very worrying to a yonng calf; it can get plenty of excreise in a 10x12-foot boxto eat grass or hay, and I don't know bnt what it is better to feed it clover hay the first summer than to give it grass; the danger from scours would be less. There is no good reason why a summer calf should
have grass merely because it is the season for grass to grow. It will thrive as well, perhaps better, if it has no grass till the
We are too much

## CREATURES OF Habit.

We do some things and refrain from doing others jnst because we were brought
up that way. In doing many things, we up that way. In doing many things, we
do not give a thought as to why we do do not give a thought as to why we do
them thus and so, but we have always done them that way, and that is reason enough Now, everything is subject to change in this world; it is a world of progress, of very rapid progress these last few years, and the art of dairying is changing, as well as everything else. We must not let our light can be let in; but we should take overy means to inform ourselves as to what improvernen
Too many dairymen still stick to the oldfashioned appliances; they look upon modern ones as being too "fancy," too unpractical for men who make a living by dairying. The facts are jnst the other way; the modern dairy appliances are the very ones that the business dairyman should have it he wishes to make the greatest labor.

And, most important of all, the modern cow is so far ahead of the scrub of tifty years ago that she is almost beyond comparison with her. And yet thousands of dairymen are working hard to make money
by keepiug scrub cows, and sneering a puye-bred stock as being only fit for rich men to keep. Many are beginning to change, though, and the change to good cows means a clange to better feed, better care, better dairy utensils and methods of management in the dairy-room. Crosby
A. L. Cron

## FROM MISSISSIPPI.

Most southern farmers rely mainly upon one moneyed crop-cotton. In March, April and May the crop is planted; in July the
crop) has been "laid by," and August and crop) has becn "laid by," and August and
September are passed, for the most part, September are lassed, for the most part,
in comparative idfeness; by November 15 th the bulk of the crop is gathered and sold, and nearly all the money spent; and then up to March 1st our farmers perforn but little work, except to feed the stock and keep in a supply of wood, cating up and consuming largely what they have earned by their summer labor
They are poor in purse, of course, and will stay poor, and ought to stay poor. A goodly part of the year is spent in talkin loafing in town, and too much talking of politics have almost bankrupted this country.

## Robbery system.

Robbing the soil year by year, and pay ing back nothing, does not pay in the end Wo know some farmers who added largely to their bank accounts by continuon when the soil failed to respond liberally and in a few years the money in the banl was gone-due to following this persistent nd ruthless robbing of the land.
But in time, as a matter of natural consequences, the land had become impovershed, and the farmer awoke to the realiza tion of the fact that in robbing the fertility of his land he had robbed himself, as the gradual disappearance of the bank fnnd right A number of just such nicn live right here, and their names and methods or the hand that pens these lines. Some of their heads are hoary with the frosts of old age, but not all of them.
reduce the cost of production
Should bethe farmer's earnest study. Cost of productiou is largely lessened in many ways: First, in having the land well
plowed and the clods pulverized-in fact, by thorongh preparation of the soil before the seed are preparation of the soil before best quality panted. Second, by using the ground in the right manner. Third, by using good fertilizers of the right kiuds and proportions, wisely applied. Fourth, planting, cultivating and harvesting as much as possible by machinery, and substitutiug animal for human labor.
It does not do to plant a crop on poor land and expect much profit. Poor soil
will $n o t$ prodnce profitable crops. Common sense ought to teach this. Bnt poople
do not al ways use their best common sense to the best adavantage. It It is ummonon sense
judgment that insures success, and bod If we do not cultivate the mind and use
the knowledge that experience and reading irnpart, then we are wasting our mental capacities and advantages without practical
personal benefits in winning financial suc-cess-"hiding our light innder a bushel"-
sacrifing our wealth of natnral mind and harvesting thorns and thistles and poverty,
when we might have been able to amass
wealth in money, wealth in knowledge, and a greater wealth in the reffections of a
busy life and days spent for a useful
pnrpose. Let man prepare the soil and fertilize it,
sow the secd, cultivate the growing plants,
and nature will do the rest. The better the and nature will do the rest. The bettcr the
land is prepared, the richer it is made by
green or stable mannre and commercial green or stable mannre and commercial
fertilizers, and the better the seed and the care in planting, and the more intelligent-
ly and thoronghly the crops are cultivated, ly and thoronghly the crops are cultivated, pursues and finislies its work all the more Nature does its work, and does it well,
but if man negleets to assist nature, and refuscs to perform his duty in making all
the conditions the most favorable, tben
nature, while still coing its work well, cannot be expocted to do man's work, too,
and hestow hountiful crops and prodncts
of superior excellence. In agriculture it of supcrior excellence. In agriculture it
can truly he said that nature helps those
most who help nature most. And now, if we do our part well in sowing,
fertilizing and cultivating, nature will do
the rest-sustain and wateh over and de-
velop the plants, and bring them to the rest-sustain and watch over and de-
velop the plants, and bring them to
maturity and fruition.


## (GIII © \&

## THE POULTRY YARD.

HOW TO IMPROVE A FLOCK.

ITis easier and cheaper for the farmer to begin improvement with his large sum for a flock of pure-bred poultry the influence of the male is greater than that of the female, and if the male is strictly pure-bred the chicks will teristics, although the hens composing the flock may be different in many respects. No better time for procuring the males
can be selected than at present, as the can be selected than at present, as the
yards of the breeders contain more males than will be retained, and the prices will be much lower than in the spring, for the
focks will then be mated and no birds will o easily spared mated and no btrong and healthy bird rather than one excelling in plumage, but do not use a cross-bred male, on one of doubtful purity, even if received as a gift, for if so, all the labor of improve-
ment will be wasted. Only the pure-bred male is capable of improving the flock and adding to the value of the chicks. It has truthfully been said that the male is one If of the flock.
If you improve, first know what you are aiming for. If you desire to increase
the number of eggs per hen, the pullets roduced next year should be sired by a male of some breed that excels as layers, such as the Leghorn or Minorca, and the market quality need not be considered. The Leghorn makes a wonderful improvement on the common stock, but the
breed is small in size. The Leghorn has ellow legs, which is sought by many do with the merits of the fowl. The pullets of this cross will be small, but they will be excellent foragers and layers. It is
of no advantage to have the hens large and heary. If large males are used with them the chicks will be large and grow rapidly. The next cross should be by using a Light Brahma male with the half-bred Leghorn with smaller combs, and which will be excellent layers. The third year the Legorns shoridge Cochin to again, and next the Partridge Cochin. By this method
plenty of size as well as great improvement in the number of eggs, will be secured, while the breeds suggested are hardy. Crossing is a cheap mode of im-
provement, and every farmer can have provement, and every
better stock if he will.

## Tоо миСн SURPLUS.

Look over your flocks of old and young birds and endeavor to estimate their calue, both for the present and in the future.
Here are, perbaps, several hundreds of young chicks hatched late in the season. They are not large enough for sale as roasters, are too large for broilers, and will not reach maturity in time to prove useful as
layers. What is the object in retaining them? They certainly will not bring any larger profit later on, for the reason that while they are increasing in weight the prices are going down, but they are consuming on the farm. The profits are often wasted by feeding more fowls than should be allowed. When a hen is not laying she is expensive, and when a chick is so young
that it has to follow behind the market that it has to follow behind the market
prices it never overtakes them, and might as well be sold at one time as another.
Keeping too many chicks only crowds the dults. There may be plenty of room for a limited number, but there is usually too much surplus. The largest profit is sechicks as soon as they discover that prices are going do
providing the shells for eggs. It is frequently recommended that the hens be supplied with oyster-shells, as a source from which to permit the hens to egg. This claim has never been supported fully, for it is well known that thousands of hens are never given anything of the ing the needed lime. The matter depends more upon the food than upon supplying snbstitutes. Grain is deficient in lime and and abounds in starch, hence, hens that are
fed almost wholly upon grain will profed almost wholly upon grain will pro-
duce eggs with soft shells at times, but if
the hens can supply themselves with grass, and have a variety, they will secure all the lime desired from the food, and the lime no in a soluble condition. If lime is is no provided in any shape, however, there phosphate of lime, and also soluble after being eaten, which is doubtful in the case of oyster-shells. Bones and clover will provide hens with all the lime required,
while bran, linseed-meal and middlings are also excellent in that respect. The farmer who is careful to give his hens a variety and keeps them on a range, will
seldom have his hens lay eggs with soft shells.

## bRan as food.

An excellent combination is to use bran and clover together, sprinkling the bran n the clover. It is somewhat similar to feeding a cow, but the fact is that if the
hens were fed like the cows there would be hens were fed like the cows there would be
more eggs. The feeding of poultry on rain only is compelling them to subsist on concentrated food, and which is lacking in many substances that are of importance in egg production. The cost of bran is but
little compared with its real food value, and poultrymen can make it a portion of the regular ration with advantage, as it is not by poultry.

BOX TO PREVENT SITTING.
An arrangement for "breaking up" sitting hens is sent us by Mr. C. A. Nassey, of shoe-box about three feet long and sighteen inches wide. Knock off the top and bottom, so as to only leave the sides ad end nailed together. On the bottom of the box nail slats ( A A A) one inch wide and about two inches apart. To the bottom of the end pieces ( $F$ F) nail two pieces of
scantling ( $\mathrm{E} E$ ) or other wood, the width scantling ( E E ) or other wood, the width of the box in length, the scantling to be To the top nail slats ( B B B) similar to


DUCKS FOR BREEDING PURPOSES
One drake and fire ducks is the propo tion of sexes, and a flock of ten ducks should supply all the eggs that may be required for next year. As long as grass is plentiful, and the ducks have a wide range they need cost nothing at this season, but as soon as it becomes necessary to feed them the flock should. be rednced to a minimum, as they are voracious. Young ducks will bring as much now as at any time during the remainder of the year, and it will be an advantage to sell them. The old ducks will prove the best layers for next year.

## CHEAP GRAIN AND EGGS.

If grain is cheap, sell it in the shape of f eggs. It is more difficult to handle milk, butter and cheese than eggs, and the eggs will also bring better prices and can be shipped fully as far to find a market. It may be claimed that in those sections where grain is at the lowest figure, eggs are also correspondingly low, which may be true, but a dozen eggs will take up less space and bring a higher price than the amount of grain necessary to produce the eggs. Then, again, beef, milk, butter, cheese and pork may bo produced from grain as well as can eggs, and the inquiry is why should the grain be fed to hens in preference to cattle or swine. Simply because less labor is required in producing eggs. Milk must be handled, pork must be eggs. Milk must be handled, pork must be the best quality, and beef must be sold on the hoof, but the eggs are taken from the nests and shipped at once, and they may be shipped any distance without liabilit of damage from decay. If the prices ar low in one section of the country they may be high in another. Keep a large number of hens and make eggs a specialty using your cheap grain at home.

## FEEDING SUNFLOWER-SEEDS

Those who have raised sunflowers for will find them excellent for poultry but they should be fed as a portion of the ration, by giving the hens a mess of seeds three times a week, al-
lowing one quart to ten hens. The lowing one quart to ten hens. The
heads may be broken and placed where the heas can pick the seeds if they are not shelled off, by beating with a flail. Keep them for winter
use, so as to afford the hens a change. SHEDS FOR TURKEYS.
The turkeys will thrive much better if they have shelter than if exposed to the rains. Because turkeys prefer to roam and roost on trees, they are not

exempt from diseases resulting from exposure. Any kind of shelter which keeps off the rain and protects them | those at the bottom, so as to prevent the | from winds will auswer, but there should |
| :--- | :--- | :--- |
| hens from flying out, and the box is ready | be high roosts for the turkeys, or they may | hens from flying out, and the box is ready for use. It permits the air to come up

under the hen all the time, and as she finds she cannot create warmth under her, she will give up in disgust in a few days. There is no cruelty in the method.'

## THE PROFIT FROM GEESE.

A goose lives a great many years and produces young until aged. When once a large flock of geese is obtained, the young may bo sold off entirely, except to replace any loss of old ones. Geese bring about one dollar per pair in the large markets, is not encouraging to they can have some place to procure their food, such as a clover field or pasture. They will cost nothing if conditions are avorable to them, but if they are to be fed they become expensive.

## sOUR MILK.

Sour milk may be fed to hens, but not to young chicks. Fresh milk should be preerred, but the sour milk may be used for mixing ground grain. When the hens have helped themselves the remainder of the food should be removed. For ducklings it matters but little whether the milk is fresh or not, as they will use it in a short time.
GOOD NEWS FOR CLUB RAISERS. Club raisers for this paper are bave ever been offered before, and more iberal than given by any other pabliorour readers in 10 incerest everyone new terms areso favorable to the club raiser that il will be an inducement to many to devote all their time to the Work. Write at once for "Spectal Cash talnly regret it if you do not.
not be willing to accept the shed.

## LICE IN WARM WEATHER.

We frequently allude to this matter, but it is an important one. During the very warm months a clean poultry-house may warm months a clean poultry-house may
be overrun with lice in forty-eight hours, be overrun with lice in forty-eight hours,
as they breed very rapidly and soon swarm over the roosts, walls and in the nests. At night they will not permit the hens to rest and the fowls soon die of exhaustion, though well fed. It is useless to expect eggs if lice can be found in the poultryhouse. Clear them out with the kerosene the poultry-house with boiling soap-suds.

## CORRESPONDENCE.

Feeding Young Poultry.-The standard feed for young poultry all over the western country is a raw dough made of corn-meal. allowed a liberal range wbere they can procure grass and insects in abundance; but if confined in coops in small yards, they, like all other animals, must be supplied with a variety of food to keep them in good health. All the scraps from the table may be utllized for this purpose-bits of bread and meat, refuse veg-
etables, etc., are all bighly rellshed by the young chicks, and notbing of the kind should the food occasionally will be found an with the food occasionally will be found an excelso fatal to young chicks, but it sbould be used so fatal to young chicks, but it sbould be used
sparingly. Green onion tops or garlic, chopped fine and mixed with tbelr food, is highls relished by both cbickens and turkeys, and will be fonnd conducire to the health and growth of young ponltry of all kinds. In fact, farmer's table but may also be used to adran tage in the food of poultry. Thick sour milk and curds of mllk make an excellent food for young chickens, and cannot be used too Preely, a varlety of food being absolutely
essential to the blghest state of essential to the blghest state of health and
the most rapld growth. Anotber very
tial feature is frequent feeding. When poultry feeding cons witb a good range they are and a constant addition to the supply of foo in the crop appears to be one of the laws of good digestion. When confined to close quarters, so that they can get no food excep What is furnished them, this law or thel expect to be successful in raising poultry regard to quantity of food i because the tbe same. Ther may eat a giren quantity fo breakfast one morning, and leave balf of lt th next. Nature is the only infallible guide. fowl is natually a most incessant feeder. liberty they are continually searching something to eat. In confinement we imitat nature as far as we can in caring for them. In the morning such soft food as they will eat u clean and quickly is given them. If they tir of it, omit it occasionally, once in a month o six weeks. After they bare eaten it, sufficient grain should be buried to last them until nigh Which they must either scratch for or go with out. A

## Independence, 15 <br> INQUIRIES.

Mens overred.-J. S. W., Bon Air
Mines, Tenn., writes: "What ail my mens?
Ihare two that go on the nest every day, but
they do not lay, Are tbey egg-bound? What
is the remedy?", ise remedy
Reply:-It indicates that they are in a fat condition, probably due to orerfeeding with two, giving no other food. There is no othe remedy than to reduce them in condition.
Moulting.-E. E. S. Clereland, Ohio,
Writes: "I have a smail fock, and the hens
are now moulting. What should I are now moulting. What should I give them
as an excellent food during the time they are
shedding their feathers?" shedding their feathers?"
RepLY:-Give a ponnd of ground meat and
bone, once a day, in the food of to bone, once a as, in tul of sulphur to ten hens
and also a teaspoonful on
three times a wreek. A gill of linseed-mea twice a wee
adrantage.
 ature should a poultry-bouse be kept in win-
ter, so as to have the hens in condition fo
laying?" laying?",
REpLY:-Any temperature that is not below
the freezing point will answer, though th house should not be too warm. If the temabove seventy, the fowlswill be comfortable.
It is best not to use artilicial heat if it can be
aroided.


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Phlladelphia, Pa., also at Springfeld, ohlo Send your le
and address

FARM AND FIREGIDE


## Clover for Mississippi.-J. E. C., Rodney, Miss., writes: "What kind of clover is best to Miss., writes: "What kind of clover is best to sow on rich bottom land, for winter and spring

 pasture?"Reply:-Probably Japan clover, but we sug-
gest that youask the advice gest that you ask the advice of youragricultural exper
Miss.

Chinch-bugs.-B. C., Delavau, Wis., writes: "Some of your subscribers would be pleased to have sou discuss the subject o
REPLY:-You will find full information on this subject in bulletins published by the battan, Kan.

To Exterminate Field Mice.-W. J. W., Sheldon, Mont., writcs: "Inform me how to
get rid of ground-mice. They remove all the get rid of ground-mice. They remove all the worst nuisance farmers have to contend with REP
REPLY:-Place some pieces of board near the trees on small blocks, to raise them ahout an place a little wheat, poisoned by soaking it over night in a solution of strychnine in sweetened water. Orplace the poisoned wheat under boxes or coopsscattered around through chickens and birds from getting the grain.
Potash Application.-D. K. H., Geary, Pa., writes: "I have an old field of sod which I
want to sow iu wheat this'fall. Commercial fertilizer produces enough wheat, but fails to
give the required set of clover. I think tbe give the required set of clover. I think tbe
field is deficient in potash. What would he the hest form of potash to use, kainite or muriate, how much per acreand how to apply it ?",
REPLY BY JoSEPE:-Potash applications may help you, At least they are worth the trial. Kainite should cost you not more than $\$ 40$ or $\$ 2.50$ per ton. Possibly muriate will be
tbe cheaper of the two, or you can make trial of hoth on different parts of ťȧ fleld. of potash, or 200 to 250 pounds of kainlte, hoth in the fall.
Squash Borers.-Mrs. G. C., Auhurn, N. Y., writes: "What can I do for my Hubbard
squashes? They began to turn yellow, and squaskes?
upon pulling up, were found to he infested
with small, white worms, which eat the roots and kill tbem. How can I treat them at first to prevent the worms from getting their first
Replix by Joseph:- Your squashes are destroyed hy the horer. You may be able to save
some vines yet hy examining them carefully and cutting the worms out, although remedies usually come too late, and preventives are
better. Wash or spray the vines frequently with soap-suds or a weak solntion of saltpeter. Also cover over sections of the vines with
fresh, moist soil, to induce them to take root fresh, moist
Bean-weevil.-D. D. W., Makanda, Ill. Writes: "Please tell me how to save seed
beans so the hugs will not eat them all up? I have not heen ahle to save,
fine lot of them this time."
smaller brother of the pea-weevil, and both are easily disposed of by the same means; and safer remedy is exposure of the seed to the fumes of bisulphide of carbon in a closed
vessel. Put the beans in a box or barrel; set a saucer upon them, into which pour a small quantity of the drug (keeping lamps or fires
away), and then cover the hox or barrel closely, leaving it thus for twenty-four or fortyelght hours. The fumes will kill every weevil
or weevil larve.

## Manures for Melons and Lima Beans.

 years I have heen raising Gem melons for market, and this season I intend planting pasture sod of hlue-grass and white clover of Will work the ground into fine seed-hed with dlsk harrow and drag harrow. My fertilizer Winter, mostly kept under cover until last fall, then hauled to the field and stacked in rail peens handled untilit is now as flne as sawdust and thoroughly rotted; so much so, in fact, that it readily pulverizes to dust in the hand. This manure has bad little or no moisture stable. Now, in planting melons I shall put expect to put one shovelfal to each hill, hat in addtion to that, the hean ground has had broadcasted during the winter. Would yousoda besides? If so, how much to a melon REPLY BY Josepry:-With the treatmen crop of melons and Limas without uitrate of soda. In fact, I calnnot say that l bave ever
noticed great effects from nitrate applications on thesc crops. If I werc to advise auy of the compost to each hill of melons, and keep the bugs off by covering hills and plants with tobacco dust and bone-meal.
Gathering Celery-seed.-J. E. E., Friday Harbor, Wash., writes: "I would like to know how celery-seed should be gathered. Is more
tban one picking required, and how is the seed cleaned when harvested?"
Reply by Josepir:-Celery-seed is not dif
ficult to gather; the manipulation ficult to gather, the manipulation closely Francis Brill, iu "Farm Gardening and Seed Growing," gives the following directions
"When the bulk of seed ou a plant is ripe Which may be known by the brown color, the stalk should be cut at the root, and all such once, which will the stalks must theu be laid on shutters and exposed to the sun for two days and again threshed, when all seed that is sufficiently ripe to germinate will readily fall from the cloths iu a loft, for ten days or more, when it can be run twice through the fan-mill and
Sprayer for Potatoes.-R. Bros., Ken tucky, writc: "We are putting out forty acres
of potatoes, and we wish to purchase a spray-ing-machine of some kind to put on the Paris green solution. Can you give us any informa-
tion that would help us? Would a knapsack sprayer be best, or one we could hitch a horse to and thus cover a larger area?" Reply by Joseph:-I use the knapsack areas areas. If I had forty acres of potatoesto however, I would wish an automatic horse-machine. Look up the catalogues of
dealers in spraying outfits. They will tell you dealers in spraying outfits. They will tell you all agricultnral and horticultural papers. The departmeut at Washington will soon publish
description and diagrams, etc., of a cheap description and diagrams, etc., of a cheap some lime to your Paris-green water, and i with Paris each four gallons of water and a bandful of time.
Agents for this paper make money, and lots of it

## VETERINARY.


terinary Snrge
University.


Farcy.-Miss M. G., New Bloomfield, Mo What you call farcy is prohably no farcy at
all, and nothing but an edematous swelling heneath the skin, due, possibly, to insufficient grooming. Cases of farcy (external glanders)
should at once he reported to the state vet should at
Itching of the Tail.-E. C.S., Haley, Tenn. Wash the itchiug parts once a day either with a solution of creoline in water (5:100), with
carbolized water $(2: 100)$, or with a 0.5 per cent solution of corrosive sublimate in water The tail is dry ana $n$, the tail is dry again, put on a bandage in the
same way in which horse dealers bandage the tails of horses shipped by rail.
Wants to Keep the Flies onf.-W. L. S., pleased if you would writes: "I would be some kind of a dilution for washing horses' legs in the stable or on the road, to keep the fies from annoying them so terribly
And dark. If you desire to wash your horse for the pnrpose of keeping the fies off, you may A Kind of Limping-Mogs Coughing.W. H. D., Santuck, S. C., writes: "I have a mule
that takes a kind of limping in the fore leg. What is the cause of it, and what can I do to help it in any way? -My hogs have a cough have died. What is the cause of it?"
have died. What is the cause of lt?"
ANSWER:-If you had taken a little more palns and had described the "Eind" of limping, I might have been ahle to give you a satisfactory answer; hut as it is, it is utterly
impossible.-Your hogs may be affected with swine-plague. Please give a clearer description of the ailments.
Probably Osteomalacia.-G. P., Brewster, Neh., writes: "Some six weeks or two
months ago one of my cows, four years old, got lame in her left hind leg. The stifle-joint

## THE COST IS THE SAME 

The Hartman Steel Picket Fence

## 

隹HARTMAN MFG. COMPANY, BEAVER FALLS,
102 Chambers St., New York; 508 State St., Chicago; 51 and 53 S. Forsyth St., Atlanta, Ga.
OHIO STATE UNIVERSITY, COLUMBUS, оно.

## 

AGENTS FOR THIS PAPER MAKE BIC WACES.


take place. of course, depends npon themature,
severity and extent of the injury, and of the severity and extent of the injury, and of the time and good
many thiugs.
Quarter-cracks-Flat Hoofl.-D. Southington, Ohio, writes: "I have a four year-old mare that has quarter-cracks. Tbey
do not lame her, but hurt the sale of her. How can I grow them down?-A six-year-old
Norman mare has very flat feet, and her hoofs are cracked in front. She gets lame some times when driven on the road."
ANSWER:-COncerniug the quarter-crack, extending through the whole thickness of the wall of the hoof at the extreme upper end of such a way as to throw no bearing horse in upon the cracked or spiit quarter. It may he that a har-shoe will be necessary, hut that shoer, provided, of course, he is familiar with the mechanism of the horse's hoof. If be is





[^4]
## (9)u firsside.

















мотнe sonc.

 She while 1 tha the crate sons





 Some mighty wing shall fan th5 Eleep.

- Harrie! Prescott Spofford, in Harper's Bazar.

MTATE SEPARATION.
pren Perilits had been to one of her nelghbors cane homeshe said somerrhat
excitedlr to her married excitedly to her married
daughter, who still lived at
"Well, Ellen Duke, if I ain't got the beatin'est piece of news for you
"What is is it, mother?"
"You conldn't guess if you were to begin
gnessin' now and guess until donmsdas." gnessln' now and guess until dommsdas."
"Then I'll not try, mother. Do tell me mat
it is: You look quite upset it is. You look quite upset orer lt."
"It's enough to upset ans oue. Lem and Jane Tate hare had a fuss of some Find and "Why, motber!"
"H'strue!"'
"Hor do sou know?"
"H're just
"I're just come stralght from there, and Jane told me so with her own lips."
"What did they fuss about?"
"She didn't tell me that, but she did say that "She didn't tell me that, but she did say that Jane Tate's a person one can't question." "I know how queer she is."
"Queer? That ain't no na
"Queer? That ain't no name for it. And
Lem is just as queer as Jane dare be. The queerest part of the sep'ration is that the 're
goin' to keep right on livin' together in the goin' to keep right on livin' tog
same house."
"What do sou mean, mother?" "It's true! Jane's goin' to life np-stairs and Lem is goln' to live in the cellar."
"Whr, mother!" "It's the livin' truth. I've had it from Jane's own lips, and I went down cellar and
saw how Lem had fixed himself up for honsekeepin' there."
"And Jane didn't tell jou what the trouble
was?" Was?"
"No, not in so many Tords. She said in that
queer, blunt way of hers that she and Lem couldn't get along rery well together, and that they'd had a final spat that had led to
Lem's goin' dorn cellar to lire. I don't
know, but I're an ldea it's come ont of tronble know, but Tre an Idea it's come ont of tronble house; she built it with moncy her father
left her. But Lem owns the ground the honse is on and all of the farm but flre acres across to more her house orer there."
"Oh, the J'll make it all up agal
"MYebbe so and mebbe not. Ther're both so stubborn. As it is now, Lem's goin' to iive in he says he is livin' on his orn ground, and
Jane can live up-stairs in her own house, on her own boards, if she's a mind to. Did you life?"
"No, I never did. But I could sooner beliere
it of Jane and Lem than of any one else; thes're both so queer."
"Jane took me down cellar to show me her canned fruit. You know that the back part
of their cellar is nearly all above ground, and
it's as dry as this fioor, the house bein' built on a hlll and so well dralned. Lem has that big room with a fireplace ln it for tryin' ont
lard and such work right under the kitchen. He's rigged hlm up a kind of a bunk to sleep in and carried a lot of dlshes down there, and
hls breakfast dishes were all set out on a
barril-head."
"How could you keep from laughing right
ont?""
"I did snicker a little when I sar that he'd been fryin' eggs in an old milk-pan, and that big six-quart pail and fried 'em right on top of a little store there is domn there, without using a griddle or skillet. There was batter some pears in molasses in a skillet, and ther.d bnrnt, and he'd turned 'em out in a pie-pan Jane sniffed of 'em and said she'd think it would kill 'im to eat such a mess as that." "She'd better cook him something be then."
"She sars she is goin' to do his bakin' and
his mendin' for him; but the funns part of it his mendin' for him; but the funny part of it
is that they're not goin' to speak to each other."
"Well, mother, I think that the best place for both of them is a lunatic asylum." "It would seem so, now rouldn't it? But anybods in most things. Ther're eccentric anybods in most things. They're eccentric,
Ellen, but eccentricity ain't insanits. Thes're both as set as a rock, and neither will gire in an inch in this spat ther're had. I gness Lem'll miss
"How are they going to get along without speaking?"
"They're goin' to urite what ther're got to
say to each other, and Jane says she guesses it mon't break 'em up to bus all the Tritin'
paper they'll need for that purpose, either Lem come into the kitchen before I left, and looked all around for about ten minntes fo he took out a little stub of a pencil and mrote hef took out a little stub of a pencil and mrote
right on the kitchen Wall, 'Seen anything of
mr jack-knife? And Jane wrote bact my jack-knife?' And Jane wrote back on the
margin of a newspaper, 'No, but rou stop writin' on my kitchen wall.' And Lem firted out, gritting his teeth, while Jane mas as coo
"How perfectly ridiculous!"
"Isn't it? Ther saj that 'serene ca'mness' the morld, and I the worst of anything in drire Lem crazy if it's true. She is the ca'mmest person I ever sam for one as set as she
is. When Lem had gone out she says to me, as ca'm as yon please.
do yet. That's the first correspondin' $\pi e^{\prime}$ 're had to do yet. We ain't either of us any great when "It's the qneerest thing I erer heard of all? 'It's the qneerest thing I erer heard of
This was the general rerdict when the $n$
of the Tate separation was noised abroad.
The cause of the separation was nere
known definitely, for Lem and Jane were talk about their domestic difficulties to others. Jane had told as much, or more, to her old friend, Mrs. Phillips, as she ever told to any one regarding the causes leading up to "We're sep'rated, an" that's all there is abont it," Jane had said grimlr, and Mrs. Phillips
Tas too wise to question her further, and the Nas too wise to question her further, and the
neighbors who were less discreet than Mrs. Phillips and who sought to question her wer treated to a rigorous homily on the beauty
and proft of attending to one's own bnsiness hat sent them home baffled and indignant. The reeks and eren months came and existed nnder the Tate roof. Lem still lired in the cellar, and Jane did his rashing and mending for him, but thes did not speak to of quarreling to their other failings. Each considered the other to be at fanlt, and both
were too "hizh-strung" to yield an inch in the controrersy that had brought about this unfortanate state of affairs.
Thes had nerer "got along" rery well to gether, and their final separation ras not the in a great many little "spats," as Jane called them, and their differences of opinion had
become more aud more frequent, and one morning when they had disagreed about so ground should be sorn with barley or bnckwheat, Jane had said thoughtlessly and sharply:
"See be
"See here, Lem Tate! I jnst think that i spatting and fussing me'd better go differen ways. That's what I think."
"That's jnst what I think, Jane," Lem had said botly, although neither he nor Jane had morning. Bnt Lem's manner irritated Jane and she said coldly:

## my hous "And ground."

## "I kln easi

"You needn't if your only object is to get me out of it. The cellar's got a ground floor, and
it's my ground, and the cellar walls are mostly it's my ground, and the cellar walls are mostly
the ralls of my old house. I can live in the the ra
"Very mell; live in the cellar if sou "I'll move dow
And that nlght found Lem established in
the cellar. He had llred there four months, when one mornlng he came into Jane's kitchen and wrote the following on a bit of
brown wrapping-paper:
"I am going amay. If anjbody asks for me, son can tell them I am gone out West to stas a month or two with my brother Andrew." Jane had known for some dass that Lem cas making preparations for a trip of some kind. She had heard him giving instractions gone to town and bought a largefore he had and a nerr suit of clothes. But Jane ras too proud and too stnbborn to ask Jn en too and Lem had not rouchsafed her any information regarding his plans.
Tro and eren three months passed, and Lem was still in the West. He had gone on to Fisit a sister living in Colorado. Once only had he $\pi$ ritten to Jane, and then a matter of business made it necessary for him to do so. In a postscript to his letter he had written, "I this country mighty well, and I may conclnde to settle ont here. I mlght as well, I reckon, and mebbe I'd realls better." To which Jane had replied, "Yon know better than I do what in the West. I know I'm not going ont there."
They did not write to each other agaln, and hat was hidden awrar in the secret recesses of their hearts they, and they alone, could
now. They had had much time for reflection during this their first absence from each other in the eight rears of their married experience, and they had reflected on many things.
It had been a disappointment to them both that ther had not had children. The paterna instinct Tras strong in Lem, and children in is house wonld hare made a better man of Jane's natnre. ane's natnre.
At the end. retnrned, half determined to dispose of his farm and other propertr and more out Fest thus making his separation from Jane final and complete. He was resolred that he wonld do this if he and Jane could not adjust their differences in any other war
It ras a beautiful morning in the early spring when he walked up to his own gate. The front door of his house ras open, and before he reached it Mrs. Anson Phillips suddenls appeared in the open door. She threw
up both hands and gave a loud scream mhen up both hands and gare a loud scream Then
she sam Lem. "Why, Lem Tate," she cried, "Trhere did jou

## ome from

Her crs brought Mrs. Nancy Eadger, an derly neighbor, both romen stood and looked at Lem and at might enter his orn home.
"Whr, she-she's sick," said Mrs Phillip
"Hain't very sick, is she?" asked Lem ittle anxiously
"I don't know as she's dang'rous, an' yet I don't beliere you'd better see her until she's been told you've come. Had he, Nancy ?." "No," replied Nancs decisively, "she mustn't be excited. She's got to be kept ca'm. Your
turnin' up this was has so upset me I can't git turnin' up this was has so upset me I can't git
ca'm enough myself to teli Jane you're here. Bnt she's got to be told. Come, Ann Phillips, e'll go an' tell Jane; an' Lem, you just step utside until jon're sent for.
The two women disappeared in hls wife's on the doorstep on the hall, and Lem waited head ont of the door and said: rou, althongh I sman if I would if I was in her place; I jest wonldn't
Bnt Jane did more than merely look at Lem She was lying back on her pillows, paler than he had ever seen her before, but she smiled When h
"Lem," she said, "I'm ever so glad to see
"I'm glad to see Jou, Jane," he said arrkrardle, as he took her hand. "What's the matter of sou, Jan
"I're been sick, but not very long. I'm "Whatts now.
"What's been the matter?"
"I-I-" She blushed and nodded her head toward Nancy Badger, Tho sald:
I'll show go set what's been the matter.
Lem obeyed, and Nancy bent orer the bed a moment and then came torrard Lem with a roll of what appeared to be white flannel and dimity and nainsook in her arms.
There, Lem Tate!" she said. "I rum, 5ou the father of snch a harnsom, healthy, big boy as this! I never welcomed a finer one into the world, an' this is the forty-nlnth I're welcomed, countin' my own ten grandchildren. Jest heft hlm once.
But Lem's arms mere hanging limply at hls ides. His mouth opened
"Whs, I-I-sou don't me
hat's-Jane's babr and mine
"What kind of insultin' sass is this?" cried "Of course it's yours, although rou don't deserve it. Look at the dear little feller. You don't deserve that he should be the livin'spit

But Lem heard no more. With a bound he Was on hls knees br Jane's bed and his arms
were around her neck, and unabashed by the presence of the tro women, he kissed Jane again and agaln.
deserve such joy as this, Jane; I don't deserre
t at all." And Then Niancy finalls laid the baby in his arms, he said as he looked into its wrinkled "nd florid little face
'Yon blessed little feller! Talk 'bout me goin ont West to live now? I wouldn't go deed to the whole big West. This baby don't get out 0 ' $m y$ sight."
domen, 1 can just tell you that he ain't goin' Nancy Badger, with a malicious Wink tomard Ann Phillips.
"Amor I ain't
"Am I Jane?"
"Not if yon don't choose to, Lem.
He kissed her again, with the baby still in
his arms, and that was the end of the Tate separation
"A more nniteder couple than thes were after that I shonld never wish to see," said Nancy Badger, years afterward.

Harbotr.

## STAINS AND SPOTS.

The careful housekeeper looks over her laundry for the general wash to discorer
stains of coffee, tea, fruit, milden and paint, Thich are so frequently found and so often "set" by being soaked in cold mater before they are seen. The stains of coffee and tea, so often found in table-cloths, mas be easily and successfally treated if taken in tlme, but if neglected, leare a permanent defacing mark. The treatment of these stains should almays be kept in mind, as they are diametrically opposite to each other. For coffee stains, soak the spots in clear, cold water for at least twelve
hours, adding a little borax to soften the Water, and the subsequent rashing will generalls remore the stain. A tea staiu, on the with boiling water ponred through the fabric.
Fruit stains, so common in the summertime, mas be remored by ponring boiling Water orer them, when they gradually disapthe goods, ther mas be remored, if the fabric is pure mhite, by soaking them in sonr mullk for several dars and then rubbing them with the hands in this liquld. If the fabric is colored, especially if it is blue, the greatest care should be taken in using the sour milk, or the color Wili certainly be remored as well as the
tain. As this is due to the acid in the milk it may sometimes be remedied by au applica tion of weak ammonia
Alkali stains caused by lime or soda may often be remored or the color restored by an app:ication of rinegar or lemon-juice. A
grass stain is one of the most difficnlt to get out of all the spots that bother the patience of the laundress. A correspondent recommends for this purpose a solntion of chloride of tin, used warm and immediately washed remeds and should be pnrchased from a draggist, who will be able to fnrnlsh the solution n proper strength.
Machine-oil is rery difficnlt to remore if it is not treated before it is "set." Each spot of oil shonld be rell soaked and then washed out in clear, cold Trater
Ink is one of the most troublesome of stains if it is left to dry iu the fabric. If it is washed
out in clear, cold water or in milk while it is fresh, it may often be entlrely remored. Strlographic or strained ink, which possesses cloth marticles to hang in the fabric of Where ink has become dried in the cloth it mar be remored bs soaking in the sweet milk until the milk becomes sour, and then learing it in the sonr milk for two or three days.
treatment of sour milk will generally remore mildew stains, but if they are obstio spoonful of pint of rain-water will usually remore then, if the spots are thoroughly rnbbed in thl solution and then rinsed in clear, cold rater. from white goods, even if they are of long standing. They should be spread across a board or plate, wet with a thick paste made of salt and lemon-juice and spread out in the ftrong summer's sun, which will draw out the spot in a wouderfully short time.
Tar spots must first be rnbbed with lard or some other grease, and then washed out with soap and water, or treated with benzin. Paint stains are alrajs
pentine.-New York: Tribune.

## A FEVER ANNUNCIATOR

The London Lancet's Parls corresponden tells of an apparatus of recent inrentlon for
registering rises of temperature from friction
in a machine, from fermentation in a mass of grain, etc. A smanl, metallic bulb a malf flled
with eth When the temperature rlses so as to expand
the ether rapor sufficiently, the cover is
straightened out by the pressure and made to close an electrlc clicuit that works a bell.
It sald that the luventor, MI. Tavernier
cherishes the project of fitting up hosplta Wards With these bulbs, each of Thich manner of hotel annunciators. By this means temperatnre in auy partlcular case may
once be brought to the interne's notice

Agents for this paper get a
BIGCER CASH COMMISSION than Is offered by any other paper
Write for speclal terms.

## A GEM ACCIDENTALLY DISCOVERED THAT IS

 as valuable as the diamond.Some years ago Edison, the electric wizard,
was convinced that platinum existed in North Carolina, and sent William Earl Hidden, an accomplished minerologist, in search of it. Mr. Hidden little knew at the tlme how full of results to him that pursuit of platinum would be. He could not find the deslred eral, but he found something far better.
state many miles from a railway, he was the state many miles from a railway, he was diing ground, and look ing a little more narrowly, found some of the gems. He purchased some land, returned to Edison, reported his vain quest of platinum, then went back to North mine si He at once began simple way he gradually made the opening larger aud larger until superficially the mine presented the aspect of a stone quary. Out of this rude pit in
the earth were taken unnumbered gems, one hitherto unknown. To this Mr. J. Lawrence Smith, of St. Louis, an eminent scientist, gave Hidden's name, and "Hiddenite," the
equivalent of the diamond in value, became instantly the fashion. Its tender-tinted green crystals, its intense hardness, and its new charms. From the day of its discovery to the present it has been a hopeless task to supply the demand for it. Every Hiddenite found is purchased long in advance.
bulstrange as is this lasting green miracle the earth, the place of its birth is yel mines handle their picks with the greatest care. They are on the watch for "pockets."
Possibly for an hour the digging goes on, and no "pocket" is struck. Presently the pick goes into an opening, with careful ingers the miner feels with his hands every portion of the walls of the opening. It may happen that his search is in vain, but it is oftener the case that his fingers touch little crystals that their points alone project outward. They are carefully picked out. Perhaps all are beryls, perhaps there are a dozen kinds of gems, or it mames gems worth hundreds of dollars are thus taken from one pocket.-Great Divide.

## harnessing the moon.

The force of gravitation is the force whicb keeps the earth and planets in their orbits, the invisible but potent cord $w$
gether members of our system.
it is an old story and accept it withen that ther thought. "But consider for a moment," says Prof. A. J. Dubois, "how great this force must be. A bar of steel one quarter of an inch square can sustain a weight of about 7,500 pounds, or the weight of difty fun in the orbit, we should have to have a colossal bar of steel, streching from the earth to the moon, whose
section would be 87, ,00 square miles. An area Which would cover the maritime provinces and leave 36,700 square miles over. Or if, instead of one single bar we should stretch a finch orure from the earth to the moon we would have to cover the entire surface of the bars at intervals of only six inches
Think of it: A forest of steel whose stems scarcely squeeze through. This is what the "force of gravitation" means.-Canadian Engineer.

## the lines of the hand

Broad nails belong to gentle, nervous, bashful people.
A chained head line indicates want of fixity of thought.
A long liver line shows an excellent natural constitution.
Poe had the
Poe had the ideally psychic hand, with very Roall thumb
Round nails

## stupid people

Vigor of co
clear life line
Soft hands
energy and force.
oblique nalls are an indication of deceit and cowardice.
A heart line pale and broad shows a heartless debauchee.
Crosses are always unfavorable, no matter
where they occur. where they occur.
The Chinese hand is small, slim, and with
square phalanges. square phalanges.
A head line ver utter faithlessnes.- Preess.
"I have found by experience," sars the editro of one of our exchanges, "that litte red
ants cannot travel over woi or raz carpet.
covered my floor with coarse baize, set my sofa


## DO YOU HAVE ASTHMA?

If fou do, you will be glad to hear that the
Kota plant, found on the Congo river, West


the king of siam and his realm. The king of Slam is a monarch who has me Czar. Few men in this world have as much to make them feel big and important, but for one in his position he is a very much civilized and fin-de-siecle young person. He ls small in person. His head is crowned with a golden pyramid of jewels, rising in circular
tiers, diminishing as they go upward, until they end in a long, pencil-like point, which extends nearly two feet above che forehead of coat and vest, heavily embroidered in gold and jewels, and in place of pautaloons he has the rich brocaded surong of the Siamese about his loins and waist. It comes down below his knees at the frout, and it looks not unlike a pair of fancy knickerbockers. Below these is a pair of shapely calves in white silk stocklngs, and his feet are thrust into jewelshoe of the Turk. The wwhole makes a costume brilliant and grand.
He is a pleasant-looking fellow, and his olive-brown face is plump and unwrinkled. He has beautiful liquid black eyes, a broad, high, and rather full forehead, and short, straight, black hair. Under his rather short
and half-flat nose, there is a silky black mustache, and below this the lips are rather thick, and the chin plump and well rounded. His told, a good specimen of Siamese beauty. He is the ninth son of Maha Mongkut, the last king of Siam, and he was picked out of a family of eighty-four children to be placed upon the throne. He has thirty-four hali brothers and forty-nine half sisters.
Looking at him it is hard to imagine that he is the sacred ruler of from $6,000,000$ to $10,000,000$ of people, and it is hard for an American to dignity. The people of the country are his slaves. He has the right to call them into his service either with or without pay, and all the men in siam are forced to give tim elther the Whate or a part of thers
year. His word can throw a man into chains or puthim to death; can deprive him of his or put him to death; can deprive him of his
property or rob him of his daughter. All the women of Siam are supposed to belong to the king, and no one is forbiden to him except his mother. He is supposed to take one of his sisters as his queen, and the nobles of the His court is one of intrigue, and the nobles are glad to have their daughters in the harem, so riendship and powerful offices. He taxes the people as he pleases. and these taxes are eavy that at limes some men have to sell their wives and chillaren as slayes to enal of reasure. Siam has'no national debt, and he has an income of more than $\$ 10,000,000$ a year cremating a dead wife or in establishing a petty navy.
Still, this king of Siam is the most progressive the country has ever had. He is far n advance of his people, and he is doing a coronation in 1873 ine them. Before his second he king had to do so an all fours. They had oraise their hands in adoration to him and bump their heads on the mats before him. The king did away with all that, and he has ntroduced of Ayerican liandshake into his toception of foreigners. He gives receptions tongue, though he never does this when noted foreigners have an audience with him. He has brought the telegraph and telephone into Bangkok, has established a street-car line, and lights his harem with electric lights.
The king of Siam is a Buddhist, and he wa or some time a Buddhist priest, as is the custom with all men in Siam. Everyone is expected at some time to enter the priesthood, and this royal mouarch, with his millions or treasure, his scores of wives, and his $\$ 10,000$,nol a year, once shaved his head and nomnally gave up his crown and his harem to wear a yellow cotton searf about his waist and to gicturesque as ell a dese priests priesthood is useful to married men. A man an be divorced whenever he likes by entering
he priesthood for a month or so. Nobles do not require any such formality.
The great event in the life of a Siamese is the runction of having his hair cut. This is sometimes a great event in the life of an American young man also. On the top of a Slamese baby's head a certain lock of hair is preserved. All the rest of the head is shaved, but this lock is kept sacred until he reaches the age when he oficially passes from boyhood to manhood. tending the hair-cutting of the present ling anted three dars.
The king of Sia
ment of wives, but he is a very large asson that he must marry nobody beneath him in rank, his only equals belng his own family His regular official queen must, therefore, always be his half sister. The queen is not far
harem, and she is a very pretty Siamese girl. Her complexion is a light brown, and her oily, straight up and is combed bes long, stands fair, open forehead she be beutive es wears diamond ear-rings, has a diamond pen-


Every farmer who makes a specialty of fancy stock takes pride in exhibiting the finest product of his farm, whether it be a Shropshire sheep, a Shorthorn cow, a Chester White hog or a Percheron horse. To show to best advantage, the natural colors of the wool or hair must be brought out ; the white in particular must be snowy white and not tinged with dirty brown or yellow. A breeder says of the Ivory Soap
"I have used it for many years and find it for all practical purposes superior to anything I have ever used. . . . It leaves the skin soft and clear, furnishes life to the coat, produces a beautiful growth and leaves it smooth, glossy and free from harshness. I use it with lukewarm rain water, which I find is the best. This forms a rich, oily lather, and helps loosen all stubborn scales and blotches of the skin.

## man Shawknit Half-Hose

 is found by the dealer that says "they wear too long." Theirunequalled durability is not due to good material and workmanship PEREECTION OF FIT.路 None genuine unless stamped OCZacitronet on the toe. SEND yor descirtive price-list. Shaw Stocking Co, Lowell, Mass, with precious stones. She smokes cigarettes nut, making her teeth as black as jet and he lips stick out. The Siamese sas that any dog can have white teeth, but anat it is only those
who are rich enough to afford the betel-nut who can have black ones.
The debtor class of Siam afford a great contrast to all this gorgeousness. They are stripped naked and, chained to heavy logs, are com-
pelled to work as slaves. The interest on pelled to work as slaves. The interest on
money is so high in Siam, that when a man once gets in debt the most he can possibly once gets in debt the most he can possibly
hope for by the hardest kind of work is to pay the interest on what he owes. This has discouraged industry and has encouraged the practice of allowing women to do the work Man, being proud and ambitious, soon tires of industry lndulged in for its own sweet sake. The temples and palaces of Siam are struc tures of complicated magnificence.
Witmesses in the
Witnesses in the courts are tortured in very ingenious ways. Certain classes are prohibit-
ed from testifying. They include drunkards, gamblers, virgins, executioners, beggars and persons who cannot read. When they whip a
man they stretch his skin from his head to his heels, to make the blows effective.
The sacred white elephant for which Siam is famous, if he ever did amount to anything, mangy, seraggy, wild-eycd creature, with nothing white about him but his ears, which seem to have leprosy. His keepers are dirty,
he is not bound with golden chains, and the only thing royal about him is his bad temper - San Francisco Chronicle.

## BOYS

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to pay for a course in book

 terme to agenrsi We pay the Brageecial
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25C A BOOK WITHOUT A PEER 25 c

 Siximetatem
Hapmictad with Dr, Thompson's Eyg-Water

## (1) It difutichatio.

## being a woman.

nce a woman came
Within a churchyard close, Suddenly on a name
Unhidden by vine or rose.
There it was he lay
Who long had wronged her sore, Harmed her many a day But never should harm her more.

## Bare and bleak the stone

 That marked his place of sleeps Slowly the days had flownHad no one come to weep?Long she stood and gazed, Disarmed as he who slept; Being a woman, she wept orleans Times-Demcerat.

ACORSUS TO MARGERY DAW. cissus was the son of a nymph and a river god. He was very beautiful, but very vain.
Having once beheld his reflection in a clear pool he became in love with himself, and finally died because he could not possess the illusi
creature whom he beheld in the water. creature whom he behe
As everyone knows,
"Margery Daw, Margery Daw
Sold her bed and lay upon straw;
To buy herself a looking-glass."
From Narcissus to Margery Daw seems a long leap of time, but they have a close relation through the fact that their
were strongly influenced by mirrors. were strongly influenced by mirrors.
Are not most of us first cousins to these celebrated persons?
The destiny of Narciss was not to break a looking-glass (for in his day they were not of brittle glass), but to be broken himself by one. Who would wish to have been a
sembling, which assembled at the door of the tabernacle of the congregation." That word "looking-glasses," which the trans-
lator meant to be plain to the minds of modern readers, really makes the passage obscure until we know something of ancient customs. Had they been called must remember that these Hebrew women had learned Egyptian fashions, one of which was the habit of carrying small wisks of brass, silver or bronze, highly disks of brass, silver or bronze, highly
polished and set in handles of wood or polished and set in handles of wood or
stone. In these little mirrors vanity might have a poep even at the sacred temple. These brazen mirrors were collected from the women as they entered the congregation, and the brass thus obtained was melted and changed into the laver, a sacred vessel of beautifully artistic design. It is not known whether Moses took these mirrors as a rebuke to the fashion of carrying them, or whether it was necessary because the supply of brass was exhausted. In either case it shows a high order of
devotion and self-sacrifice on the part of the women.
In Job xxxvii. 18, there is a simile where he speaks of the sky being "spread out as a molten looking-glass." Here, too, the word mirror would be better so far as
meaning is concerned, and the sound would not suffer by the change.
When Isaiah prophesied the calamities which would come upon the proud women of his time, he gives a list of their ornamental garments, jewelry and beautifiers, that puts to shame the knowledge of the modern fashion reporter. Among the will be deprived tells the women they (iii. 23); which mean, as in the other passages quoted, mirrors of polished metal. The Greeks and Romans had the same kind of mirrors, and they are not entirely out of use at the present day. What pretty kitchen-girl does not enjoy the sight o her fresh face in the bottom of her polished tin pans! Whatlady when she consults her gold watch does not occasionally, at the same time, take a peep at her own reflection!
glass productions, was that city glass productions, was the first to looking-glasses. It was in the year 1300. Specimens are to be seen in museums, which prove them to be of rude construction.
We remember always about Queen Elizabeth that when she was old she became so displeased with her mirrors that she ordered them out of her sight. It is to be supposed from Venice, and likely in her fits of temper she broke them into bits. It was not until a generation or more after her death that lookingglasses were made in her country. At present it is an important industry in England. We are accustomed to believe that French plate mirrors are the best. Those of American construction are equally fine, but as they cost less, every-
body will not esteem them so body will not esteem them so
highly. Even in the reader's lifetime he can no doubt remember great improvements. Any little home now has mirrors with handsome beveled edges. In an encyclopedia you can read the process of making them. It requires at least eighteen days, sometimes a month. One of the peculiar customs of certain European cities is the fixing of small mirrors outside the house windows on the upper stories. I think it was in Brussels that we first noticed this feature of architecture. There were long avenues of houses, each with the artful contrivance of little looking-glasses at the up-stairs windows. They are arranged at an angle which allows them to present a reflection of the front doorstep. Ah , no unwelcome caller can find the master or mistress "at home!" No detested dun need be admitted unless he comes with stronger power than his debtor's inclination. So far as I am informed, no American city has adopted this custom. Are we more frank? Is our honesty more robust? Those little European looking-glasses may be only an innocent convenience, but they arouse our suspicion.
As we have
As we have seen, Narcissus lost his life through the instrumentality of his reflection, and Margery Daw was willing to part with the greatest practical comfort of
to her vanity. These instances prove that both sexes are susceptible to the merits and fascinations of the mirror. Babies laughoat their reflected images, little girls and boys are not averse to seeing thempersons live so long as to cease to admire themselves. But, after all, we seldom see ourselves truly, for everyone has a mood, a mental lens, a temperament, which tints the reflection. That happy disposition which sees everything as larger and brighter than truth may be pardoned if
even its own physical form it sees reflected through a self-satisfaction tinged with rose color. Kate Kauffuan.

## SCHOOL CLOTHES

"You are always so busy the last of August?"
"Yes, I find if I do "not fix the school clothing then I get all behind."
It is true this part of the summer is very busy. The usual trips disposed of, the fruit, etc., there is a lull before pickletime, and though through September it is often warm, quite warm enough for sum mer clothes, yet sometimes it disappoints and turns ugly and rainy. I have seen the children trying to finish out some out grown frocks, sleeves so short and tight as to be very uncomfortable, so I always try to have something ready.
The two gowns we give are adaptable in any kind of wool material, and while stylish, are not too much so for school.
Patterns of all kinds of sleeves and shoulder draperies can be had of any of the pattern stores at very moderate charges. The waists are all so simple, i one has a good lining pattern it is all they want; any outside arrangement can be made to suit one's taste.
suit of proper underwear should be arranged for the first cool snap.
Umbrella, mackintosh, new rubbers should be as faithfully looked after as the new school-books.
The plain gigot sleeve will remain with us awhile, and nothing is easier to fashion It takes a good. deal of material, but it is all of a piece, and two dresses can be put together, making the sleeves of one and the main dress of the other.
It does seem as if no dressing for years has made the fifteen-year-old girl look so like a beautiful doll as the late summe styles; and the simplicity with which the dress is characterized makes it only more noticeable. Imagine four sisters going out together in white dotted swiss dresses, parasols of the same material, arranged so the cover could be taken off and washed white chip hats trimmed with crepe de chene. Neither an expensive or conspicwere very expensive.
A sweet girl face is never prettier than when it looks out from a simple sailor hat you look at the face instead of the hat.
We quietly slip from one style into an ther, always thinking the last one the best; that s one comfort being a womanwell as our minds. style of clothing a
Christie Irving.

## THE PICKLE STORY.

It really happened, this pickle story, because Cousin Alice herself told it to me and she was there and knew all about it.
Tizzie was the girl who did the work in this family to whom the pickle story happened. Now, when Lizzie arose early in the morning and did all the work, getting the meals, washing the dishes and keeping the kitchen neat and tidy, to say nothing of the washing and ironing, the pickling and the canning for all the folks in this pickle story, we can't blame Lizzie much if, when night came, she looked ruefully at the supper dishes and wished there was some one else to wash them, so that she might go down street awhile with the other girls who had troubles like hers. Well, maybe she ought and maybe she ought not to have adoneso, but she did, by paying two cents, prevail upon the children of this family to wash the supper dishes. There were five (counting the baby) of these children of the pickle story, but the baby does not strictly belong to the story, because she was too little; but the other four were all old enough to help with the dishes, so for the magnificent sum of two cents they marshalled themselves into the kitchen and undertook the heroic task of "doing the supper dishes.'
Now, Cousin Alice, with the baby to take care of, the clothing of these five children to look after and so many other things to do, could not alwars take an
occasional peep into the kitchen to see
how things were progressing, and the consequence was that these youthful dishwashers had things pretty much to their own liking. They were a jolly set, who believed in plenty of fun, and as Cousin Alice was constituted the same way herself, she was not disturbed by the bursts of aughter which often reached her ears rom the regions of the kitchen; but on ne particular evening the reneral rood ne particular ovening the general good usual that she made her way down there only to find the four young folks of the

pickle story industriously washing the plates and cups.
Now, Cousin Alice understands a thing or two, so she didn't say, "What's all this noise about?" but she kept her eyes open and took a drink of water, then quietly wended her way up-stairs, but not quite atisfied in her mind, beca houts from below again grew more noisy than ever she madeanother tour of inspec ion, but went away none the wiser. I Cousin Alice didn't find out, somebody else did. I guess it must have been Lizzie But you will say this is a pickle story without any pickles. Oh, no it isn't, for you may ask the pickle folks themselves and I am sure they will tell you that there were pickles in it.
Well, the next morning when Cousin Alice went down-stairs for breakfast she found the four dish-washers seated very demurely in the sitting-room, while in the dining-room the father concerned in the pickle story called out, "All who had no pickles last night come in to breakfast." (I told you the pickle part was coming.) Cousin Alice was a little puzzled when she found that she was the only one who had not been to pickles, so she went in alone and it seemed to the folks who had ev idently been to pickles that Cousin Alice and her uncle seemed to be enjoying an unusually good breakfast, which, however, came to an end, because the uninvited would-be-breakfasters in the sitting-room heard the table-bell ring and Lizzie enter, and Cousin Alice heard her Uncle say to Lizrie, "Remove everything but the tableloth."
By and by when Lizzie had oboyed instructions, the father of the children of the pickle story called out, "Now, all who did have pickles last night come out to breakfast." Slowly, and with dejected faces and downcast heads, the four little pickle-eaters filed into the dining-room and seated themselves at the empty table. Then the father, who had disappeared,
reappeared very solemnly, bearing a gallon
jar filled mostly with vinegar, with a few stray pickles Hoating around the top. This
jar he proceeded to pass to the dishjar he proceeded to pass to the dish-
washers, who evidently were not straugers washers, who evidently were not strauger's to it, with the command to pickle." Carl, whose spirits were leclared they were fine, but Mary said she didn't care for pickles, and it was only when her father urged her in a very decided mauner that she put her guilty fingers into the that she put her guilty fingers into the took theirs without comuent, and all four took theirs without comment, and all pickle-eaters ate in silence. A second
round of the pickles was inflicted upon round of the pickles was inficted deport, and although they did so iu silence, I suppose they did some thinking, and no doubt all came to the conclusion that Lizzie's
pickles were much better with dishpickles were much better with disl
washing than they were for breakfast.

Mary D. Sibley

## DRESS NOTES.

There can be no doubt of the general liking for scarlet this season. It is used for linings, for decorations, and in every way possible, and by possible I mean in every way in which it is harmonious. This scarlet is not a dull or a dingy shade; it does not tend in the least toward magenta, but is absolutely pure red, that being the color will enrage a wild bull, and which savages will enrage a nild bull, and which savages liking for scarlet in its perfect purity is an evidence of a healthful condition of the eyes, and shows a return to what might be called natural artistic taste. Be this as it may, the knot of scarlet on the black hat, the bright scarlet lining in the long coat, the warm-looking coat of scarlet serge, the
hat for young people of bright red felt, decorated with red velvet and red feathers, and the evening gown of rich red grosegrain, with a decoration of red velvet and red chiffon, prove most decidedly that not only is red approved by the artists and the ciates it and gives it the place of honor that is its dne. So it deserres to have said of it, as did a small girl learning her first French sentences, happy in a red frock, a red cloak and a red hat, "Vive la Rouge!"
A very jaunty jacket that, while fittiug

green velvet, aud from it stand up two
stiff, black wings. For cvening bonncts a great many of black jet with underlinings of yellow velvet are noted, aud will, it is likely, prove popular.
Most of us remember wheu a long, full, black velvet circnlar was part of a bride's trousseau. In days gone by, silk velvet was householy used for this, aud iu many made into short coats and bonnets, dic duty as belts and girdles, rosettes and bows. The long velvet circular is again the fashion, and in Paris it bas a special vogue given it. The collar is usually a high one, lined either with fur or feathers,
while long, broad satin ribbon ties coufine it at the throat. Occasionally elaborate je trimunings are put down the front of these circulars, but if the material used is rich, the best dressmakers prefer that it should be untrimmed.
Wherever a velvet belt can be worn it is assumed, and if a velvet rosette does not fimish it, then a quaint dull gold or.silver buckle is worn. The velvet used for these belts is not the ribbon, but the velvet sold by the yard, and which shonld be bought cut on the bias.
There has been found nothing prettier for an evening cape than the long one of white cloth with the three shoulder-capes overtopping it, each one bordered with a band of brown fur.
Small bonnets of scarlet felt, trimmed with black velvet and black tips, are much liked, and are generally becoming to women who have but little color in their faces.

On the large red felt hat, that belongs by courtesy to the young girl, the Mephisto feathers do not appear; instead, stiff satin or velvet ribbon is wired to take the place of them, and produces the same effect by
the weird arrangement. Wise mothers the weird arrangenient. Wise mothers
know that feathers soon grow limp when much wear is given them.
The long ribbon sashes reaching to the edge of the gown continuc in vogue, not only for evening wear, but for street dresses. Sometimes the ribbons simply the edge of the gind brought front, cross over the corsage, come around under the arms high up to the center of the back, where they are arranged in small bows, while the long ends reach quite to the edge of the skirt. By the by, to be effective, these decorations bon.-Ladies' Home Journal.

RECIPES FOR FRUIT VINEGAR. Fine fruit vinegars are among the most highly estcemed condiments on foreign come better known to be equally popular in this counry. While somewhat expen sive to purchase, they are by no means difficult to make nished by a German cher fur will doubtless be welcome to many an American housekeeper
Acetic acid, both in its con centrated and in its diluted forms, possesses the property
of dissolving the substances of dissolving the substances
which impart to certain fruits which impart to certain fruits grance. In most cases the ordinary brandy vinegar is user to extract them from the fruits, but if nice wine vinegar is employed, the fruit vinegar, besides the perfume of the fruit, will also possess that of the wine vinegar. The extraction of the fragrance will be greatly hastened by using very strong rinegar containing a proportiod. This vinegar can be casily made by letting wine sour ify made by letting wine sour
without diluting it with with
banana Vinegar.-Slice the bananas; crush them in "Patrol" It has each seam braided and a high, rolling collar, while the fronts of it, of a silk shirt to be visible.
A felt hat that has the stamp of a famous milliner upon it is of black felt after wha is known as the "hoat shape;" that is, low, with a curling brim and rather pointed in front. where there is a knot of emerald-
a strong porcelain ressel and pour over the mass a sufficient quantity of wine rinegar to cover the fruit to the depth of from three to four inches. Cover the ressel closely and let it stand for tfn or twelve hours, then pour the vine $\mathrm{r}^{\prime} \mathrm{in}^{\circ}$ off carefully and strain through a clean linen cloth or through filtering-paper. Banana vinegar
hus prepared is one of the very best of
the fruit vinegars, and gives salads espec ially a peculiarly pleasant tlavor. Banana bottles, frou which only the quantit nceded.for iumediate use must be taken as its delicious fragrance readily escapes. Lemon Vinegali.-Peel eight or ten resh lemons and press out their juice eave the lattcr to clarify iu a tall glass umbler uncovered, but iu a place frec from dust. Cut the lemon peel in very small pieces, pour over it six and a half quarts (wine measure) of the best wine dish three or four days in a moderately warm place (near a warm stove, for instance). At the end of this time strain he vinegar through a damp linen cloth nd let it stand undisturbed for two or hree days. Then mix the clear vinegar with the clarified lemon-juice, and lastly, train the lemon vinegar through filtering paper. This viuegar should be put into
tightly-corked bottles and kept in the cellar.
Strawberry Vinegar. - Crush ripe strawherries with a wooden pestle orspoon nothina dish, which mnst be set in a moderately warm place and left for the berries to ferment. When the bubbles of frmly acid stop rising, squeeze the jump piece of clean linen, and then strain a second time through filtering-paper. Mix the clear juice with good, strong vinegar in the proportion of one part juice to two parts vinegar, and pour the strawberry vinegar into bottles, which must be tightly corked and kept in the cellar.
Raspberry Vinegar.-Raspberry vinegar can be made in exactly the same way as strawberry vinegar, but the fragrance and favor of the fruit can be still better ruit with covering the freshly-gathe it stand for several days in a moderately warm place, shaking it frequently; then straining the raspberry vinegar through a lean linen cloth, and then through filter-ing-paper. This fruit vinegar will keep ong time if put into tightly-corked bottles and placed where it is cool.
Orange Vinegar.-Strip the yellow peel from eight or ten oranges. Wrap hem in a clean linen cloth-a quarter at a time-and squeeze the jnice out with the hands into a tall glass tumbler, which should be closely covered and left in a place where it will not be moved. Rub the white lining from the orange peels and mash the latter to a pulp, adding strong wine vinegar. About eight quarts-wine measure-will be needed. At the end of three or four days pour off the wine vinegar carefully-that it may remain clearadd the clarified orange-juice and shake thoroughly, then strain through filteringpaper and pour into bottles, which must be closely corked.
It sometimes happens that the fruit vinegars are not perfectly clear, but seem muddy. In that case they must be artificially clarified, and the best thing to use for this purpose is isinglass.
To clarify fruit vinegars, cut half an unce of isinglass into very small pieces and pour on a sufficient quantity of lukewarm water to cover completely. Then leave the isinglass to soak, stirring frequently. When thoroughly dissolved; so that no trace of any separate pieces is left, add enough wine vincgar to make half a pound of a thickish glutinous substance, which must be kept closely corked. One third of an ounce of this isinglass mixture will clarify from four to five quarts-wine measure-of fruit vinegar.
Tarragon Vinegar.-This fine table vinegar is prepared from the tarragonplant, a species of wormwood, which Erows wild in Siberia and southern and two ounces of the fresb leaves in from sceven to fifteen quarts of very strong viuegar, for three days, then filter the tarragon negar and dilute it with ordinary yinegar o suit the taste. -New York Ledger

## HIS ROOM-MATE.

Sraller than he, fairer, daiutier, purer; without his temper or his
whims, without his worries, with out his fears-and yet so sympathetic that all his pleasures and pains were hers, too-his room-mate, surely, was his better by half.
He was very fond of her-loved her, perhaps, after a fashion, and did a hundred little things to please her (after all, you
know, it is the little things that truly know, it is the little things that truly thing he did, just because it was he who
did it. He hardly knew how pleased she was; had he, he would have treated her a Still she loved li
Still she loved him for what he did do, and did not dislike lim nor blame him for not doiug what he might have done. Her
love of him was simple and pure and satisfied.
She pleased him because she was always the same. He knew where to find her; it
was the finding of what he looked for in was the finding of what he looked for in sympatly to fiud distance; nor for fellowsyinpathy to hud distance; hor for feme to
ship to find strangeness. She seemed

understand him and to know his wants by intuition.
They lived together, he and she, in apartments up town. He was a poor writer himself and conld not afford a better place furnishings were simple and sufficient; it the floor were rugs-she was as fond of
rugs as he of books; he had his favorite rugs as he of books; he had his favorite
volume, she her choice carpet or skin-he volume, she her choice carpct or skin-he could afford such things because he loved them. She was a home body and seldom
went out; nor did she seem to care to
know the people about her. He did not blame her for that,
not very nice people. from a world vastly
He had taken her different from his own. His friends won-
dered at his fondness for her; soune of them were disgusted at the intimacy, for, you
see, they did not understand her, nor see see, they did not understand her, nor see "picked her up," as the saying is, on the street. When he came home from work-he worked in a newspaper office down townShe never mistook his step; never listened for others. That first caress at the door sho
loved so dearly. When he was not worried loved so dearly. When he was not worried
with business, or was not reading, he would with business, or was not reading, he would loved inost to be loved. They were a very happy pair of room-mates. He used to say thus together. We are so happy. One day he came home, and coming in take her in his arms; did not call her his "old sweetheart," but changed his dres and went away hastily, leaving her with
hardly a word. And again he did it, aud hardy
again.
miserab
And then he went away and stayed days and days-a week nearly. She lived par tially with the family below. They saw her; bnt it was a compassion that brought no peace. When lie did come home sh bounded to the stairs to meet him; but there was some one with him-a woman,
and he had his alm about her. His "old and he had his alm ackout her. His "old
sweetheart" drew back. Who was this new one coming into her realm? What shadow of a heavy curtain back in the them. They sat cown in the great armsun came in-a flood of gold-and fcll on the red rug before them. Ont of the winhonses below them. and lived, and to know that you are soon to be mine, mine, dearest, fills me with a joy undreamed before,", and he drew her
close into his arms and kissed her again and again. shadow of the curtain aud canne and stood hefore him and looked up into his face.
There was no reproach in the look, no
hlame, only wonder: Then she bounded lightly into the lap of the woman who sat cad against her hand-purring the while

[^5]
## 

UNCLE SIDNEY'S VIEWS
I hold that the true age of wisdom is when men;
When, as credulous children, we know things because
We becaieve them-horrever averse to the larrs. That is genuine wisdom-and would that, to
day,
We, as then, were as wise, and ineffably blest
As to live, love and die and trust God for the

## So I simply deny the old notion, you know, For in youth, all we know we are certain of The greater our knowledge the more we For skeptical margin ; and hence I regret That the world isn't flat, and the sun do

And we may not go creeping up home, when we die,
Through the

## in the sky. -James Whitcomb Riley.

WHILE August may not be the hottest month o during this month that the heat seems most op pressive. The weather is sultit; the life seems to have been
burned out of the air; food snpplies sour burned out of the air; food snpplies sour
and mold quickly, and flies seem more troublesome than at any other time of year. The utmost care and vigilance is necessary to prevent waste and secure
comfort. The appetite is apt to need a little coaxing at this season, and cooling effects are to be sought. Fresh regetables, fruits,
salads and cold desserts are generally more acceptable than hot soups and meats. If oup is serred, let it be a light, clear soup. house that whaterer is left from dinner and break fast I put into a salad for lunch. This is not very far from the truth, either For instance, I may have three or four po-
tatoes and a few spoonfuls of string beans tatoes and a few spoonfuls of string bean
left from dinner, a slice of boiled ham or two or three little crisp slices of fried ne or two tomatoes, a small onion minced rers fine and a salad dressing poured orer just before serving, makes a salad for one
day. Another day it may be potatoes and beets from dinner, one or two eggs from brcakfast, a little oniou and a small head of lettuce flils out chickeu, veal or fish, it goes into salad, and all are pronounced good. Salad Dressing.--Instead of a mayonnaise, which must be made fresh every
time, I make a cooked dressing that will keep a week in a cool place. Put a tea-
cupful of good rinegar and a half teacupcupful of good rinegar and a half teacup
ful of water in a double boiler, with tablespoonful of bntter. When this boils, stir into it a teaspoonful each of mustard, salt and sugar and a heaping teaspoonful
 till it thickens, then pour it slowly over
the beaten yolks of two eggs, beating it all the beaten yolks of two eggs, beating it all
the tine, and lastly, add a half teacupful of the tinne, and lastly, add a half teacupful of
sweet cream, pouring it in slowly and stir ring the mixture at the same time. Mavioc.-A friend lately brought to my
notice a preparation of the cassara-plant, called manioc, which is the Spanish name for cassiva. It is similar to tapioca, but
with a more delicate flavor, and cooks in much less time. It comes in packages the size of corn-starch, and directions accom-
pany each package; but the skilful cook will soon derise a great many more ways spoonfuls of manioc put into a quart of in a double boiler, and cooked urtil it thickens and looks clear, then poured into cream, is the simplest preparation.
spoonful of jelly on each dish, as served, is an addition. The plain boiled
manioc poured over berries or sliced peaches and allowed to cool and then icious puldiug and sugar makes a depared and cored apples and baked, covered, until the apples are done, and it will make Tarm.
Brilding a House.-When one contemplates building a house it no doubt pays ning. Alterations after one commences to build are not only more costly, but liable
to make trouble between the contractor
and owner. A full set of plans and details will enable one to make the most advan know not only how the house will look, but just what it will cost before it was commenced. The Farsm aid Fireside offers as a premium a valuable catalogue of artistic dwellings from which almost any one can select a plan to suit their needs. This book also coutains plans for barns, grain-houses, poultry-houses and ther farm buildings. Maida McL

## make home beautiful.

Home-made furniture, as a rule, pro-
claims itself as such; and although we ften read of an elegant dressing-case evolved from a dry-goods box, or a luxurious chair which had originally served as a flour-barrel, these works of art, when completed, albeit in accordance with the
miuute directions prescribed, are wont to miuute directions prescribed, are wont to
prove disappointing. The average woman prove disappointing.
is not distinguished for mechanical ability. In fact, there is only here and there a In fact, there is only here and there a
woman who can drive a nail-that is, a nail that shall accomplish the purpose whereunto it was sent. This being the case, it is generally more satisfactory, both artistically and financially considered, to
intrust one's furniture projects to a painsin trust one's furn
taking carpenter.
An attractive bit of furniture that one has planned oneself possesses an especial charm. It may be only a simple wall-cabinet to hold one's choicest bric-a-brac, but who so well as the owner can plan the position and space to be given to each piece? n many homes there are disabled articles of furniture-an awkward bedstead, pos-
sibly, that has outlived its usefulness, and is ralued now only for association's sake is valued now only for association's sake, material, and it has come to be quite the thing to make them orer into articles which shall be both useful and ornamental in the modern home. From such a bed-
stead as the one described was recently dereloped a quaint and charming corner cupboard. The doors are of heavy bereled glass, through which one has at riew of sparkling crystal, gleaming silver and delicate china. One shelf covered with dark relvet is devoted wholly to the cut glass; in another compartment the cups and sau-
cers are arranged, the saucers standing in groove at the back, while the cups are suspended by small, brass hooks justabove them. In another home is an antique handsome and valuable timepiece, there really seemed to be no suitable place for it until, through the inspiration of the mistress of the home, an ornamental bracketemployed was stained and polished in imemployed was stain-wood, and so clererly was the work accomplished that the whole appears as one unique piece of furniture.

## hat deft fingers did

Although it is beyond the ability of most womeu to accomplish work of this charand a moderate knowledge of drawing may plan out an elegant little cabinet, cupboard, shelf or table, which may be developed by a careful workman; and which shall have that rery desirable merit--that
of keing totally unlike the furniture posof ceing totally unike the
seszed by one's neighbors.
Occasionally, however, one finds a woman who has the ability not only to plan, but to execute. A uorel picture-frame recently completed may serre as a model to other
clever women. The subject of the picture clever women. The subject of the picture
was a marine in water-color. The foundawas a marine in water-color. The founda-
tion of the frame consisted of a three-inch strip of wood, through the center of which was a shallow groove about an inch in
width. The strip on either side of the roove was then gilded, and the groove itself filled with a compact row of small scallop shells of uniform size, which were fastened securely to the board by means of strong glue. When completed, the spaces eft bare by the curres of the shells were gilded. Resting upon a rustic easel, draped with a genuine fisherman's net, the pretty
pieture with its uuique frame was very charming-a great improvement, surely, over the conglomerate pine-cone and spice productions of our ancestors.
hose skilful fingers had fashioned the pretty frame, "I wanted solnething appropriate and inexpensive. It cost me scarcely anything beyond the time I gave to it, aud I haven't a frame in the house which is so uuch admired as this simple thing of my own contriving."
Annong the new and inexpensive fabrics lowered
line, Madras nor figured cheese-cloth, although it seems to combine the qualities of all three. It comes in graceful patterns and attractive colors, which are printed from designs furnished by the society of associated artists. The goods bear testimony of this fact in the mark "A. A.," hen is every little may introduced into the desigu. This material is to be had in great variety of design and coloring, and may be effectively used in sash curtains at
a chamber window or upon a simple booka chamber window or upon a simple book-
case. A pretty bedspread for a summer room is of this same material, and has prays of pale blowns and olives upon a cream-colored ground. The breadths are neatly orerhanded together, and the whole bordered with a two-and-a-half-inch ruffle. The spread is made long enough to extend rer the pillows and hang down in a deep ralance at the sides of the bed. Fancy bedoverings are increasing rather than diminishing in faror, despite the effort which has so often been made to return to the white bed dressing

## MANY PRETTY BEDCOVERINGS

There are, and probably always will be many who prefer the all-white bed, and for these many pretty bedcoverings are provided. Liuen shams with borders of elaborate drawn-work are used with plain white Marseilles spreads. Antique lace of firm, fine texture is always suitable and makes a dressy bed, used either over white or some delicate color. The figured China and India silks used during the last year or two are also still in favor for bed and bolster corerings, but a new material for this purpose is the hollywood sheeting, a fancy double-width material of soft, creamwhite cotton, whose rough surface is ex ceedingly effective when wrought with the simple, showy patterns employed for this work. A rery handsome one designed for a white and gold guest-chamber has a contern is first outlined with a long chainstitch, the leares and shadings marked, then the interrening spaces flled with a simple filling-stitch, which is very rapidly doue, and is yet exceedingly showr. The spread extends over the pillows, and a the lightest shades of silk is passed across the bed just below the pillows, and tied in a handsome bow. Less expensive than the
hollywood is the bolton sheeting. This also makes rery pretty spreads when embroidered with rope silk in showy conventional designs. So much for externals, and now for the bedding proper. The word "comfortable" is often a misnomer, for the stuffy, cumbersome coverings sold under that name are about as oppressive as a feather bed. If, however, they are filled with a light layer of batting, and very
closely tacked and covered with the dainty flowered muslin which comes for this purpose, they may be made very attractive and comparatively comfortable.
For real coinfort and service the blanket is the most desirable of all coverings, and if one understands how to care for her blankets and how to wash them properly, an expensive blanket is more economical in the end than the perishable comfortable. A facing of fine cheese-cloth a quarter of a ard in depth across the upper edge of a lanket serves to protect it from soiliug, and this may be replaced sereral times before a new blanket will need washing. All qedcorerings should be well aired fre-
quently. Choose a bright, windy day, and hang them out of doors for an hour or so. It is well to whip blankets lightly with a rattan dusting-stick. If treated iu this washing. When it does become necessary to wash them, rip off the cheese-cloth protectors, whip out the dust, and if bound with colored braid, remove it aud replace whe whith warmen make a rery strong add two tablespoonfuls of ammonia, aud when the pearline has dissolved put in the blankets. Let then soak only a few moments, then rub lightly ou the board, wring out and rinse in fresh, warm water, to which a little ammonia has been added. Wring rery dry, shake aud stretch into shape, then hang out of doors in the sun and wind to dry. If the foregoing directions are carefully followed, one's blankets may be kept soft, white and downy. Inıpure soap and careless washing, on the other hand, will ruin the handsomest blankets. In airing pirlows choose a clear, bright day, but never hang them where upe sun will strike them, as the sun acts upon the oil in the feathers and develops

## TIMELY RECIPES.

During the hot season the appetite needs omething to tempt it, aud there is a time fruits a seasons, when the first small come, that it is rery hard to know just
For proride
For supper a very appetizing dish is stuffed eggs. The following recipe, which We take from
Boil your eggs rery hard, remove the shells, cut the eggs in two crosswise and slice off a piece of the end so they will stand alone; remove the folks and mix with them a little chopped ham and fill the cavities in the whites with this mixture, heaping it on cone fashion. Arrange the cones in a flat dish and pour the following mixture about them: Beat the yolks of two eggs very light, stir into them a half teaspooufnl of salt and the same of mustard, then add slowly twelve spoonfuls of salad-oil, and as it thickens, thin it with vinegar, using two tablespoonfuls
A nother is egg salad. Boil six eggs hard, remore the shells and separate the Folks and whites, chop each separately and season the yolks only with salt and pepthe chace them in a square dish across each way. It is a very pretty dish.
Yeal Lqaf.- When I go risiting I always try to learn something new, and my best friend had this for her birthday party snpper. Get a good-sized piece of veal, cook till tender, then remove from the iquor aud chop finely, season with salt pepper and a little chopped parsiey; mix the liquor with the meat. Line a dish
with hard-boiled eggs cut in rings, put the with hard-boiled eggs cut in rings, put the
meat in and pack it down; set on the ice meat in and pack it down; set on the ice
or in a cool cellar to harden. It can be turned out on a platter and sliced. It is best made the day before you wish it, to allow it to have time to stiffen.
Salion Salad.-Open a can of salmon and fill it up with Finegar; let it set two hours then pour off all the; liquid; to this add one egg well beaten, a half teaspoonful of sugar, put on the fire and, let it just heat up well. Arrange the salmon on platter and pour enough of this liquid
dressing orer it to make it look well, and dressing orer it to make it look well, and
put the rest iu a gravy-boat to serve it with. It is nice, too, laid in lettuce leares and serred with the dressing.

## BITS OF KNOWLEDGE.

Flowers.-If jou have any salsify or regetable oyster roots set out a few among says the Housekeeper, are lovely, full two inches in diameter, and of a deep riolet purple.

Books.-It is a fact worth knowing that books with white and very delicate bindings are cleaned in the book-stores by rubbing the corers with a chamois-skin dipped
in powdered pumice stone. This scouring makes them look like new

LOckJaw.-Sereral cases of lockjaw have receutly been reported as following the application of spider's web to stay the Wilson, this event is readily explicable since the germ of lockjaw resides in th earth and is just as liable to mingle wit the dust which settles on the webs. Hence "coureyed into the wound in this way, th germs work their due effect." Cobwebs are also found to be the resort of colonies of bacteria. Recent microscopic examinations establish this point beyond all doubt. "Colonies of bacteria," says a gov ernment report, "may be detected in the ebs which, like delicate screens or filter, absorb anything aud ererything which
floats through the air and settles upon fioats t
them."

Black Lame.-To renovate black lace, dissolve some ox-gall in warm water and wash the lace lightly in this; then rinse in thoroughly cold water and pass it through a thin solution of gum arabic, clapping it the moisture as you can; then pin it out evenly to dry. Another way is to dip the
lace in porter or beer (the first is bect);
press out a little of the moisture, thent press out a littlc of the moisture the the
wind the lace snoothly around a bottie,
carefully picking out the edges; corer it up out of the lust till dry. It should,
when drr, look like new. Veils, or any
black net, dipped in porter, folderl quite black net, dipped in porter, folded quite
smooth, pressed as dry as possible in a clean eloth, and hung for two or thre fresh without any ironing. Use no soap.

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(3)CE there was a giant, Antæus, an' he lay on the ground takin' a nap, an' his little brothers, the pygmies, no bigger'n robins, kept runnin' over him an' hop
pin' into his mouth, an' takin' races 'round one eye. An' when they saw Hercules comin' a mile or two off, they said to Antæus:
"Waize up, lazy-bones! Here comes a giant as big as you are!"
$n^{\prime}$ Antrus waked up an' shook himself, an'swung it over his head. "Where are you going?" he says to Hercules.
"I'm goin' to the islands of Hesperides. I'm goin' for the golden apples," say Hercules.
"Well, you won't go any further," says Antæus.
"Well, I'm not goin' back," says Hercules.
'I'm goin' to have that lion skin on your shoulder to make gloves of," says Antæus. Hercules had an oak-tree for a club. So they took to fightiu', an' Antæus gave Hercules a terrible blow on the side of the head, but Hercules dodged it, so Antæus hit his mother-that was the earth.
Then Hercules took his oak-tree an' smashed that pine walkin'stick alk to pieces, an' he hit Antæus a blow on the
side o' the head that made him howl an' yell, an' he knocked Antæus down several times, but every time Antæus touched the earth,'his mother, he was ten times stronge thạn before. So Hercules didn't know what to do.
Then he took Antæus 'round the waist an' held him up high in the minutes without touchin' the earth, so he died, an' Hercules chucked him over a sand hill, an' you might take his bones now for an elephant.
Then Hercules he stretched himself out to take a nap, an' all those for their big brother, an' they gathered two bushels of grass an' put it under Hercules' head an'set it on stnod about it he was sorry, an' he
little fellers for anythin', an' when away he set down first one foot an' then the other very careful, for fear he should step on one of em and
As Hercules was goin' on, he met some maidens, an' they fired roses at him, an' twined 'em about his club, an' asked him to stop an' eat some grapes with 'em. An
Hercules sat down and ate some grapes Hercules sat down and ate some grapes.
Then he was so mad to think he had fooled away so much time with those maidens
that he went on smashing all the trees on that he went on smashing all the trees on
his way, an' he splintered his oak club all to pieces.
Then he found the old man of the sea, an' the old man turned into a fish; but Her culd put his arm 'round his neck an' tight he was glad to turn back into an old man again.

Then Hercules saw a golden cup three or four miles wide come floating over the sea an' Hercules got into it an' sailed away for the islands of Hesperides.

- Then he saw Atlas, with great forests growin' between his toes an' holdin' up the sky on his back.
"Hello, down there in that little cup!" hollered Atlas.
"Hello!" bellered Hercules.
An' Atlas agreed to go to the Hesperides for the golden apples if Hercules would give him a rest for awhile an' hold up the sky mountain he could find an' held up the sky. An' when Atlas came to the tree it was all surrounded by dragons, an' Atlas kittens, an' it was worth five dollars to kittens, an' it was worth five dollars to
look at 'em. An' when Atlas came back look at 'em. An' when Atlas came back
with three golden apples as big as pumpkins, Hercules says: my back." "I'm takin' a rest," says Atlas. "You've got to hold it for two or three centuries "Well, if I've got to hold it that long
I'm goin' to get mighty tired," says Hercules. "Can't you take it for five minute till I make a padding of this lion's skin to "That wouldn't be any more'n fair," says Atlas.
But just as soon as Hercules got the sky
off from his back he picked up the golden apples an' skipped with them. An' he carfor anythin' after all. They was solid gold, n' you couldn't eat 'em.
An' afterwards Hercules died, an' teacher says you can see him an' his clubany night up in the heavens.
onough.
should think it was enough.

Leon Watrous.

## GLEANINGS FOR HOUSEKEEPERS AND

 HOME-MAKERS.Samantha Allen evidently thinks that 'the way to a man's heart is through his stomach," for she says: "By stiddy keepin' of my table set out with good vittles from day to day and year to year, the golden cord of affection has bound Josiah to me by ties that can't never bo broken into. He worships me, and the better vittles I get the more he thinks on me. He loves me a good deal better some days than he does others, and these are the ones that I cook up sights and sights of good food, and with a cheerful countenance and clean apron, set it before him in a bright room, n a snowy table-cloth. Great-great is the mystery of men's love.'
If we could see as Emerson saw, we would have no need to complain of the dreariness of country life. He knew how to see and how to live. He says: "The uccession of native plants, in the pasture and roadsides, which makes the silent clock by which time tells the summe hours, will make even the divisions of day ensible to a keen observer." He knew so much; he thought so much. Did you

-fair Travelers.
ever think or see, until he told you, that "Every appearance in nature corresponds to some state of the mind?" That an enraged man is a lion, a firm man is a rock; a
lamb is innocence, a snake is spite; flowers lamb is innocence, a snake is spite; flowers express to us the delicate affections; light znowledge and ignorance?
Sometimes when we are oppressed by household cares; when we realize that we are letting ourselves live in such a little world, binding our minds in such a narrow channel; when dish-washing and bed-
making and cooking begin to hold our minds as well as our hands; when these things pall and we begin to feel the discontent, then isn't it a blessed relief to throw it all aside and live for a few minutes in that other world, which is just as near to us as the one in which we have been existing? Literally, a step will take you into it, for it is but from your kitchen table to your kitchen door. We are not so
devoid of reason as not to know that an devoid of reason as not to know that an be unwholesome, but also the utmost folly. And while we heartily believe that there is beauty in our homely work and daily tasks, yet we say with a heart full of gratitude, "Blessed be the memory of such a man as Ralph Waldo Emerson, the man who saw for himself and taught others to see what beauty there is in our daily surroundings.'
M. D. S.

## WOMEN TALK TOO MUCH.

Very lovely and very lovable is the sister who has cultivated a disposition augelic enough to see the good and not the evil ide of human nature, who can be severe with her own failing while she excuses is a daults of others. We are told that she is a dull, uninteresting creature, and we
find, if we take the trouble to look into the matter, that this woman refuses to laugh at her neighbor's pet weakness, does not onjoy hitting out right and left at the world at large, and is always ready with a plea for unseen and unsuspected reasons which, if they could be revealed, would go a long way toward modifying harsh judgnent.
My lovable woman may not be witty. She may indeed be a trifle prosy, but she
depths, and iu perfect confidence conficie the heart trouble that is shadowing exist-
ence and haudicapping us in the race of life, feeling an assurance that our precious secret will not be to
our back is turned.
We chatter too much. Women have an idea that this is being entertaining. In the hope of keeping up our reputation for briglitness we say outright, or slyly insinwhich, if known, would give us an enemy for life. personal oddities and seemingly inconpistent actions. How can you know all sistent actions. How can you know all
the difficulties to be encountered and overcome by the people whom you criticise? Yes, we talk too much.-Dorothy Maddox
DO TALL OR SHORT MEN MAKE THE BETTER
HUSBANDS? HUSBANDS?
Have you ever noticed that tall men make much better husbands than short hard and fast rule like this, but a little ony that I anı right

## that I anı right

Just unhar now, and think over th many unhappy marriages which mus many cases-where the woman was clearly not to blame-was the husband a tall man? In very few cases indeed, I venture to say The domestic tyrant is nearly always small man-iu stature as well as in mind. Perhaps it is that his diminutiveness pre-
vents his bullying out of doors, and h is vents his bullying out of doors, and he is
obliged to expend the stored-up combativeness of the day on his unoffending home circle in the evening.
Moreover, the tall man is nearly always good-humored. He may not be so shrewd as the undersized man, but he has a far better temper. Now, in the domestic cir cle, the virtue most required is good tem
per. Dignity, strength of will, decision obstinacy-these are all useful in our business relations, but in our own homes it is best to place them on the shelf. Good humor and unselfishness are the qualities most wanted in married life; and these, it will be admitted, are possessed by the tall man in a far greater degree than by the little mau.
On this subject another writer says:
An ounce of fact is worth a ton of theory on this and on every other question. Now I am a district visitor in a very poor neigh from a wide experience, that among the always a tall, hulking ruffian. The reason may possibly be that the little man is
afraid of his better half, but I do not think
this is so as a rule. However, the fact rethis is so as a rule. However, the fact re-
mains that the little man makes a better
husband than the man of inches husband than the man of inches. Big men
are generally small-minded. This is noto-
rious. And nothin. rious. And nothing pleases a small-
minded man so much as to act the petty tyrant in his domestic circle.
Again, big men are far less faithful to their wives, as a general rule, than men of
smaller stature. A man possessing what
he terms "a good presence" is fond of he terms "a good presence" is fond of even after marriage. This results in quarrels, trouble, discontent, unhappiness and
often the breaking up of homes.

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## After the Honeymoon.

Their honeymoon was over,
The timothy and clover
In all the summer fields was turning brown.
'Twas morning, she sat sighing
Bedewed with dismal ctying
She puckered up her forehead in a frown.
Floors sadly needed scrubbing,
Black kettles needed rubbing,
Her castles in the air had toppled down.
When 10 ! a great magician transformed this sad condition, For Gold Dust Washing Powder's wide renown
Induced this bride to buy it-as soon as she could try it No happier home existed in the town.
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(9)u Sumday gittumom.
because.
In the likeness of His death
Therefore, by His spirit's breath
Resurrection life is granted-
Resurrection beauty glowing,
Resurrection porrer outflowing,
Resurrection gladness cheering,
Resurrection glory neating.
THE BIBLE.
Hast thou ever heard The subject, God and man, salration, life And death-eternal life, eternal deathDread Tords! whose meaning has no end, no

Lord!
Star of eternity! the only star
Star of eternity! the only star The sea of life and gain the coast of bliss And on its dark and troubled billows still, As generation, drifting swiftly by
Succeeded generation, threw a ras Of hearen's own light, and to the hills of God, an

## F

 GET IN SOMEWHERE. nd your place in some Christian not delay, but go at once tosome godiy minister and teil side and want to get into rank with his people. I once heard of a little child who had recently been converted. father, who was questioning lier abont her new faith, and no doubt giving her some Finally
Finally she said, "Grandpa, are you a
"Ies, my dear, I hope I am."

## "Oh, I beloug to the church of Christ."

 of the same church that mama and I arethe Episcopal church?> dear, I am not an Episcopalian." a a Presbyterian, then?" a Presbyterian, then?" "No, I am not a Presbyterian."
"No, dear, I do not belong to any of the churches; I just belong to Christ."
After a pause, in which the little one was thinking it orer, she turned her face up to
her grandfather's and said, "Well, grandpa, if I were , you I would try and get in Now, I think the little Christian was
right and the old one was wrong. I know there are many who for rarious reasons stand apart from organized relation to the church of God. No church is perfect. No
doubt me might all find things in the churches to which we are allied, which we could wish might be changed, and certaindo not approve; but at the same time I out. Imperfect as the outward church is, nevertheless it is the church of God, and among its members are to be found the
true people of God, and within her organtrue people of God, and within her organ-
ization are found the ordinances of God. I repeat the little girl's adrice,
somewhere." $-D r$. Pentecost.

## I took tea

I took tea one erening with a godly old Shetland islands, on the north of Scotland, where he earned his livelihood by fishing. He gare me a most iuteresting account of several dangerous fishing excursions he
had made. I was charmed with the simple style of the old man iu these narrations, but much more with the beautiful faith by which he seems to have been sustained. Said he, "I was happy and contented probability of deliverance had gone. always felt that God could do what he
pleased with me, and I knew what he pleased would be right."
Blessed faith! It brings to us a living savior, whose roice can still our hearts inhand can guide our ressels in safety "But," added the old man, "I did not lie even to the care of God. I did trust in God, but knew that at the same time I must employ all the skill and power God had
struggled, and God gave me every time a
safe harbor." The old sain
his common is a blessed possession, for it gives force to his faith and makes his doctriues practical

## mUSIC AT THE FIRESIDE.

Erery family should hare its melodion or piano, and every day gather about it and listen to its harmonies. The child that and the child that has au aptitude for and the child that has au aptitude for
music will have' that aptitude strengthened. Children who sing together every day will have a bond of enjoyment that will prevent many a jar, many a dissonance, in their intercourse with each other.
A lady now so immersed in domestic care that she cannot "keep up her practice," yet plays and sings beautifully, "but," she sass, "only the songs and pieces I learned in my girlhood. I cannot forget them, and the longer I sit at the piano, the more are fretful I play for them, and they hare their farorites among the great composers, Mendelssohn, Mozart, Beethoren, Handel and Hayden." Fortunate children, to be
thus made acquainted in the nursery with thus made acquainted in the nursery the crowned kings of song!
But if one can play only psalm tunes and the simplest airs, better this than nothing. Music at home will prepare for music abroad, and be a stepping-stone to higher things.-Christian Adrocate.

DR. O. W. HOLMES ON HEART-LOVE.
I never saw a garment too fine for a man or maid; there never was a chair too good for a cobbler or a cooper or a ling to sit in;
never a house too fine to shelter the human never a house too fine to shelter the human head. These elements about us-the glorious sun, the imperial moon-are uot too
good for the human race. Elegance fits man; but do we not ralue these tools a little more than they are worth, and sometimes mortgage a house for the mahogany we bring into it? I would rather eat my dinner off the head of a barres; or dress after the fashion of John the Baptist in the than consume all on myself before I got a home, and take so much pains with the outside when the inside was as hollow as an empty nut. Beauty is a great thing,
but beauty of garment, house and furnibut beauty of garment, house and furni-
ture are tairdry ornaments compard ture are tawdry ornaments compared with domestic love. All the elegance in the world will not make a home; and I would
gite more for a spoonful of real heart-love gire more for a spoonful of real heart-love
than for whole ship-loads of furniture and all the gorgeousness all the upholsterers iu the world can gather.

## MORE EGYPTIAN ANTIQUITIES

Dr. Flinders Petrie's latest excarations in Egypt have resulted in finding many raluable antiquities. Last season Dr. Petrie explored the "City of Khuenaten," a new now known as Tel le Amarna. The strange and interesting results of the explorations show that Khuenaten had introduced many novelties into Egypt in addition to that of a new religion. Among these it is found not only in sculpture, but in painting and decorative art as mell. $1400 \mathrm{~B} . \mathrm{C}$. is the date given to these relics by Dr. Petrie (that is over 3,000 years ago), and most of the colors appear as sound as when first
laid ou; the touches with the brush are yet clear and distinct. The question as t how this new style of art reached the Nile
valley will, no doubt, attract the consideration of Egyptologists. Dr. Petrie thinks it was entirely due to the personality of Khuenaten himself, for the art, as well as Pharaohs that followed him.

## CHRIST THE MODEL.

In the great galleries of art that are the glory of London, Paris and Rome, may see the artists of the future. Young men toil there day after day, patiently reproducing copics of the masterpieces of the painters who are world-renowned. Every and shade, they put forth their utmost skill to imitatc. They are not content that their picture should be soncthing like the original. Their ambitiou is to make their eje shall be able to tell which is the original and which is the copy. Thus place inal and which is the copy. Thus place acter, so perfect, so majestic, so tender and determined, that henceforth the great busi-
ness of your life shall be to become like ness of your life shall be
Christ.-Chidren's Friend.

WHEN THE BIBLE WILL BE NO LONGER
NEEDED.
One dark night I was returning home rom the conntry, when my way led through the unlighted village streets, then by a little gate iuto a uarrow path that ran through twenty-four fields connected with each other by little gates or stiles, and theu along a narrow lane with high, bushy hedge rows on either haud, to the town itself. My lantern showed me first, the entrance to the path, then the path itself, with its park-like fields, its thick, bordering woods, where the great trees flashed ap into the night, and the quaint stiles, auturne swing-gates overhung with autumn-tinted foliage, revealed themselres brought me into the sheltered lane and brought me into the sheltered lane, and hen the path ended at the lighted streets of the town. It is in this pleasant way
that the Holy Scriptures shom us first, the that the Holy Scriptures shom us first, the
entrance to the path of life, then the path tself, and at length, the end of the way Where the lamp is no longer needed, and we are at home

## GOOD COUNSEL

Look within. Keep the internal fires burning. Build the home altars. Add to the time in the closet. Heat and efficiency do not so mnch depend uponexternals a
internals. It is well to have combinel effort; it is well to hare bands and straps cut; but it is of rast importance to have with the unseen and eternal. Perhaps their is orer-much looking at outside measures, and too little attention to the internal fires that feed the outward movement. Build up the home altar. Drill in patieut Bible study. Study, not only the of it in thy soul. Learn, if possible, all that hurts thy soul. Learn, so far as possible, the kind of a climate that best suits its life. Seek continually the richer spirit ual pasturage which best feeds thy soul's wants. If thou wouldst be of the highest service to the external couquat of holines.
look within.-Highway Almakac.

## THE SIN OF ENVY.

In apostolic times, envy was classed as in ; but in our times it seems to be treated, in some quarters, as a right motive to feelings, in order to array the poor against the rich, for instance, or against some par ticular clan of the rich. This "enmity
bred of coretousness," as it has been defined, is a source of double evil. It blights the inward life of the man who cherishes it, taking away from him the right value of the things he has, and poisoning his mind with hatred of others. And it rends that justifies the apostle's words, which make enry the source of confusion and of

## MORE NICE THAN WISE.

I never knew a good horse that had not ome odd habit or other, and I never saw a crotchet, or oddity. 工ow, these are bits o cheese that carilers smell out and nibble at; the first is too flowery and the second is too dull. Dear me, if all God's creatures were judged in this way we should ring
the dore's neck for being too tame, and shoot the robin for eating spiders, kill the cows for swinging their tails, and the hens for not giving milk. When a man wants to beat a dog he can soon find a stick, and at this rate, any fool may hare something to say against the best minister in England. C. H. Spurgeon.

## PRACTICAL POINTS.

The truth we hate the most is the truth that hits us the hardest.
Some of the heart's sweetest songs har
been learned in the dark
The religion of Christ is the onls one
Whose corner-stone is lore.
How easy it is for men to find reasons for loing as they want to.
When faitli goes to church to pray for rains it always takes an umbrella.
As soon as Christ has a place in the heart
The begins to bear good fruit.
The deril's mud cannot be made to stick to a morn.

I Cure Dyspepsia, Constipation
and Chronic Nerrous diseases. Dr. Shoop,
liestorative, the great Nerve Tonic, by
lestorative, the great Nerve Tonic, by
newly diseovered principle, also curcs stom-
ach, iiver and kidney diseases, through the

## The Keystone Watch Case Co. of Philadelphia,

 the largest watch case manufacturing concern in the world, is now putting upon the Jas. Boss Filled and other cases made by it, a bow (ring) which cannot be twisted or pulled off the watch.It is a sure protection against the pickpocket and the many accidents that befall watches fitted with the old-style bow, which is simply held in by friction and can be twisted off with the fingers. It is called the

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## fintur flanings.

## LEGisLation against the use of sub Stances injurious to health. Stances injurious to health.

THere are many good citizens, in favor of pure food legislation, who believe that laws should prohibit only the use of substances as health or destructive to life. the health and lives and drug products can be protected in this way, then the advo cates of this theory might have more poisons in food products would be interdicted by any one. Yet, in the sale of food dicted by any one. Yet, in the sale or food a
and drugs we have allowed to prevail a system so lax that undoubtedly much suf-
fering and many deathshave resulted therefering and many deathshave resulted there-
from.
The legislature has rightfully provided The legislature has rightfully provided dispense medicines unless he is, or has in his employ, an educated pharmacist, with a diploma from college or a certificate from thus equipped himself he dare not sell the most common drug that is classed in the list of poisons without labeling it in red letters of conspicuous size,' with the word
"poison" and the figure of the skull and "poison" and the figure orss-bones; and in addition to this, in the case of the more virulent poisens, he must pose for which it is to be used and the name, age, sex, color, size, etc., of the person who buys it.
All these precautions are required of the best druggists in the land, in order to protect the people. Yet the merest charlatan,
in fact, any citizen without knowledge whatever of medicine, may combine all the poisons of the catalegue under the guise of proprietary remedies and label
them with the most enticing devices and Haming advertisements of their virtues to induce the public to buy them. These
nostrums may go upon the shelves of the druggist or grocer without hindrance, and be sold unreservedly when neither dealex
nor consumer has the least knowledge of nor consumer has the least kno
Arsenic, sulphate of copper, Scheele's green, and many like salts cannot be sold by the most competent pharmacist without the
most thorough precautions for the protection of the public, Jet the coffee and tea that have become necessary to every table in the land, and the tea which may become the sole source of nourishment to
may be coated with these poisons.
Salicylic acid cannot be sold by any druggist without the "red label" and "skull and cross-bones" as danger signals upon every may have it incorporated with every article upon his shelves and may deal it out
promiscuously to old or young, weak or promiscuously to old or young, weak or
strong, sick or well alike, and any attempt to prohibit this is met with a cry of "injury to trade or interference with private rights," and prosecutions will not succeed
because some robust or healthy person has taken these drugs without manifest injury, or perhaps, in the hands of a skilful physibat disease.
It is an absolute necessity that every one must eat. It is just as certain that many people are unhealthy when they eat. It is
beyond dispute that substances incor porated with food may be very materially injurious to the health of some people, while others may take the same articles
with impunity. The food that is perfectly healthy for me now, may be entirely rejected next year. The cup of tea admintyphoid fever may produce relapse and death, though the arsenical coating on the tea may have been ever so slight.
Many persons affected with disease of the heart are unaware of that fact. They buy canned fruits, and the papers record deaths from "heart failure" because of the antiseptic used with the fruit in canning. The milk kept from souring by the use of the poor man, and we have a prevalence of "eholera infantum," and the death rate among children is largely increased. Hlus trations might be multiplied almost indef
initely, which prove that there is no safety initely, which prove that there is no safety
to consumers except by the absolute prohibition of use in our foods of all sub-
stances that neither nourish or aid in
digestion. But when such legislation is will be interfered with.
Another class of adulterants may le harmless when used for some purposes, but when used for others may become very injurious to health. A single instance will
int injurious to health. A single instance will
illustratc. Cream of tarter is used largely illustratc. Cream of tarter is used largely
in baking. It is also used largely as a domestic medicine. A very large percentage of the cream of tarter found upon the market is composed, in whole or in part, of gypsum and acid phosphate of lime with alum. These substances, when combined in proper proportions, will produce the same results in bread-baking that cream of tartar will, but when used as a medicine, instead of acting as a mild cathartic will have directly the opposite effect. A physician in my own neighborhood very nearly killed his patient from this cause during the past year.

A third class of adulterants are those which are harmless in themselves, but may become injurious and, sometimes, very dangerous to the health of the people when used as adulterants. Wheat bran and buckwheat flour are certainly not in-
jurious to health when pure and fresh, but jurious to health when pure and fresh, but
when incorporated with black pepper (and sold for pepper), they are purchased in large quantities and placed on the dealers, shelves where they remain for months' ften in damp places where growths of mold may develop, and become very inurious to the health of the consumer.
Milk constitutes one of our principal articles of diet. Water is a universal necessity; a combination of these would seem to be a matter of the slightest consequence to the health of the people. Recent discoveries in bacteriology have established coveries in bacteriology have established municable disease is dependent upon a spemunicable disease is dependent upon a specific bacterium, that the spores of these
bacteria are capable of lying dormant for an indefinite period, and then become most pewerfully reproductive. Water, because of its varied and universal use, becomes the most convenient and diffusive means for the transl ission of the deadly germs.
Milk is the cost complete food for the Wilk is the fost complete food for the sustenance of animal life, and is a universal food for children. It is also the most
fertile medium for the rapid multiplication of disease germs.
This subject was most thoroughly illustrated by Mr. William V. Lusk in a thesis prepared for the Ohio state university, and read before the Microscopical society at Columbus, Ohio, June 1st, 1893. By the kindness of Dr. Lusk and Prof. H. J. Detmers I am permitted to publish the fol-
lowing synopsis of his experiments and owing syno
He first prepared media for bacteria culture of "nutrient gelatine," nutrient aga agar, and nutrient potato. These were all thoroughly sterilized and inclosed in sealed glass vessels. He then produced and cultivated from Columbus hydrant of five difterent species of bacteria. He then experimented with milk, using the same sterilized media that was used with the hydrant water. The milk was drawn directly into a sterilized vessel, and the ressel closed with sterilized cotton. Three experiments were made with this milk:
No. 1.-A test tube containing milk diNo. 1.-A test tube containing milk di-
luted with five per cent of hydrant water, was placed in a warm room
No. 2.-A test tube containing milk diuted with five per cent of hydrant water, was placed in a cold room.
No. 3.-A test tube containing pure milk was placed in a warm room, same as No. 1. After twenty-four hours bacteria cultures were made from these three samples of milk. At the end of three days No.1-that is, diluted milk in the warm room-contained more than two thousand colonies of the same five species of bacteria that were found in the hydrant water.
At the end of eight days there were eight or ten colonies in No. 2
No. 3-that is, pure milk in warm roomwas found to contain ten or twelve col onies of two species of bacteria, both dif-
ferent from those found in the hydrant erent from those, found in the hydran water. The conc
First, that the bacteria found in the diluted milk were transmitted to the milk with the water, and that the milk, before dilutin was comparatively free from bacteria.
Second, that milk fcims an excellent medium for transmitting and propagating bacteria.
Third, that milk kept at high temperature has a very great tendency to increase the growth of bacteria.

Fourth, that it is very dangerous to dilute milk with water containing bacteria, as the above experiments show that one single fold in a very few hours

These illustrations might be continued indefinitely, but enough has been said to indefinitely, but enough has been said to food or drugs may become injurious to health under certain conditions, while legislation against injurious adulterations alone would fail almost in every case to
protect the consumer or to convict the protect
The true practice would be to prohibit the use of adulterants that add no effi-
ciency to the food or drug with which they are incorporated, and in all cases to requir thorough labeling of every article, so that every person may know exactly what he which they are combined.
It is argued that such lcgislation would interfere with "trade secrets" and individual rights, yet as between these and proprefer the latter. The good of the whi people is greater than the advantage of the individual citizen.

## CAUSES OF FAILURE.

We do not see all the successful farmers on good land and all the failures on poor land, so we must look to the man and not the Home and Farm
Under a general statement we might say that failure is caused because the head does not direct the hands, because the farmer is not working on any regular plan, but is managing haphazard, trusting to
luck. He has never studied his farm and his market and estimated the cost of pro duction and settled on what he can produce at a profit. If a man who has a hilly farm,
suited to sheep and entirely unsuited to suited to sheep and entirely unsuited to hogs and corn, attempts to produce the latter, he will soon find his farm washed
and injured, and that his hogs cost teo much to leave a fair profit, and he must charge his failure to his bad judgment in choosing the line of business to follow.
Undertaking to do too much is a common ause of failure. There is a host of farmer who always attempt more than they can do well, and then when hindered by un favorable weather they are soon hopelessly behindhand and can do nothing on time,
and this means extra expense to produce short crops. In many cases it means the expense of keeping two teams and an extra hand to work one of them, a double outfit of harness and tools, and the fact that the farmer has invested in these is a
constant temptation to plow too much constant temptation to plow too much in an impoverished soil. Again, the farmer who attempts to do too much work must comfort which are found in a garden, the berry-patch and the poultry-yard.

## THE HORN.FLY

The treatment for the horn-fly is mostly preventive in its nature, and consists of the application to the cattle of odorous subnimals. substances have been recommended, but most of them have proved of but little most of them have proved of but little the most satisfactory results at our hands First. "Gnat-oil," made as follows : Crude carbolic acid, one ounce; pennyroyal, one half to one ounce; sulphur, one fourth of a pound; crude cotton-seed oil, one gal-
lon. Mix well, and apply with a brush or cloth to the back and shoulders of the cattle. The crude cotton-seed oil is cheaper than the other oils, although fish-oil and lard-oil are equally as good in making the above.
Second. Fish-oil and tar mixed and applied as above is equally effective. The tar may last away from the animals a greater length of time. Either of the above will keep the flies away from the animals for sovera days, after
Third. Th
Third. The flies breed in fresh manure. It is thus important that the barn-yards be kept as clean and free from manure as possible. Lime pla.
will kill the larvæ.

## vou



Agents for this paper make big
money.

Mention this paper when you wrile.
RUPTURE
CURED
It is logical to supr fewi heres.
farmers, cling to large areas of land East, who still cling to large areas of land do so more from assuredly hard to expect a man who has assuredy hard to expect a man who has spent twenty or thirty years in raising
grain, hay or potatoes in large quantities, grain, hay or potatoes in large quantities,
and who has bought and paid for a farm and who has bought and paid for a farm et down to making a twenty or forty acr farm pay in other crops. It is thercfore safe to assunve that the younger generation of farmers are the ones to show us the possibilities of an acre of ground.
That small areas of land can be made to pay, and do pay, there is no question; if an bject lesson is wanted, look at the dozens truck farms contiguous to our great some of these York City, in New Jersey, built on recks. Every grain of soil has been carted there, yet barren and dreary as they were originally, their proximity to Nell acquainted with two plots of this land -or more strictly speaking, dirt-covered over four acres, brings the owner a yearly rental of one thousand dollars; the other, perhaps an acre more in extent, but not
so well located as the first, rents for eight hundred and fifty dollars per year. These places are rented by truckers who crop them to the greatest possible extent, and that they do it profitably is evidenced by the fact that they stay on year after year. Lands around other large cities may be pointed out where similar results are achieved under the same conditions. At first blush it seems incredible that land so valuable as to command such high rentals an be turned to profit by such occupation. While it is true that nearness to market is valuable consideration in the cases menioned, it must be conceded that the suc cess of the work comes not from this, but rom the ability to make every inch of ground yield several profitable crops. Surely these features may be applied successfully to land more distant from the cities, and consequently less expensive to control and operate.
G. R. K.

How imy Bronchial organs, when that approved and
spedy remedy, Dr. D. Jayne's Expectorant,
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FIELD TELESCOPL


Agents for this paper make money, and lots of it.

A WORD TO OUR REHDERS. given to our club raisers for the Farar ANo Fireside has interested many of our readers in the rork. They hare tried our new plan of raising clubs, and under the liberal terms now offered, are enthusiastic. They are simply making mones.
$A$ fewr spare bours, idle days or a short vacation cannot be used to better adrantage or profit than by getting up a Firm AND Fireside clnb.
We know that many of our bright young
friends who are manfully fighting their way friends Tho are manfully fighting their way
through school, or laying aside all they posthrough school, or laying aside all they pos-
sibly can for a conrse in some business or shorthand college, will grasp with pleasure this.opportunity of increasing their bank ac-
count and shortening the time till the realization of their plans. loyment for all their time, if they can plan to carry on the work beyond their immediate neighborbood when ther have finished there. If you hare not written for our "Special
Cash Terms to Club Raisers," rou should do so

## (9ny edtlisctlany.

## THE ANT.

WHEN Solomon held np the ant as an example to the people,
he probably knew far more of he probably knew far more of
the whys and wherefores of his sayings than those immediately about him, or, in-
those even to the present day deed, many of those even to the present day
who read his words, hare erer snspected. While every form of life has its monderfully interesting features, there is in the life and our admiration and respect as well as excites onr curiosity and astonishment.
Sir John Lubbock, who is considered as the best living authority on the habits and pecnrecently giren some wonderfully interesting acconnts of their doings, and relates incidents Which go to prove the previous statements of is possessed of rect, and show that the an is possessed of reasoning powers, or that places them second only to mankind in the places them second only to mankind in the vidual and general affairs. Ants seem to be as raried in their wars and customs as are people, and different tribes, grades, classes and localities show the most marked contrasts in the fashion of living and conducting their
to the school-boy and mankind in general a an example in the way of industry and economy, and as such is certainly a bright and is a might. As an agricnlturist, the an seeds of rarious sultivates the ground, plants nnvarying care and patience, harvests the crop when in suitable condition, cures it and transports it to storehouses prepared for the reception of the winter's supply of food. It is rare, indeed, that these storehonses are buil where water can affect them; but if this hap pens, and any unnsual storm or inundation commnnity. If it is possible to sop the commnnity. If is possible to stop the in When clear weather comes again mediately taken to the open air, thoronghls dried, as sorted, cleaned and prepared for restorage The warehouses meanwhile have been cleaned by other workers, and if their builders, architects and civil engineers approve, they are repaired; otherwise they are abandoned and new ones are constrncted.
Certain sorts of ants hold slares, and exact tasks of them, with overseers who encourage them to work, and punish the delinquent and disobedient. To secure these slares, they make wars on adjacent tribes and take the defeated armies as captives. The prisoners as a rule, are docile and obedient, and go to work under their new masters With as mnch alacrity as they aforetime displayed abon
their own concerns. Their adaptability is one of the curious features of the case. They seem o forget that they know other condions and at once fall into the ways of their nem eminent authoritr, ants in Mexico which cul tivate the soll and plant beds of mushrooms, which ther grow for their orn tables, as it were. They keep milch cows, which ar aphides of a certain sort. These they protect watch over and tend with the most assiduous

Their civil engineering is a marrel. Their roadways, tunnels, causeways, walls and fortifications are of such extent that it would seem impossible that snch tiny creatnres ould accomplish such herculean tasks. In the bnilding of their houses and their provi sions for comfort during severe Weather they exhiblt the most marked intelligence; so much, indeed, that many valuable hint might be take from the thods. And they, with all of their industr, do not apparently and no play makes Jack a dull bor, there ore, they hare their regular amusements, Which they go about with a system and gravamusing. They play games with actors and ookers-on, the same as grown-np folks. They
romping and disporting themselves in varions ways. Like mankind, they live on the prodncts of heir flocks and herds and their agricultural解解ces, which they care for and manage th almost as much good sense and judghnman family in the conduct of their most mportant concerns.-Ledger.

## A BOY:S COMPOSITION.

The threatened revival of the hoop-skirt brings to miud an incident-perhaps it might more appropriately be called an accidentthe crinoline was last permitted br the decree of fashion.
As is usually the case in country towns, the high and grammar schools were in the same twas then a cnstom separate apartments -as it almays has been, and probably as it will ever continue to be-to compel the pnpils ome compositions. If that should ever be ness to the hearts of many children, says the Boston Herald.
The art of writing with ease and effect is
mastered by ferw small boys, under the best mastered by few small boys, under the best onditions, and in this school the training Was not such as to bring out any latent facility in English composition. The task of writing ompositions was looked npon by the pupils, therefore, as an irksome dist, asd any ex, of relieving their difficulties stirred up no monitor of reproach in their tender and pliant

In this depressing intellectual atmosphere a boy of trelve was ordered to write a composiion. It was to be read on the Friday after noon following the day on which he receired titute of ideas. He couldn't think of a topic to $\begin{aligned} \\ \text { rite } 0 \text {. In } \\ \text {. Is dilemma he tnrned to a }\end{aligned}$ heap of rubbish in the back jard, which contained the accumulated sweepings of the chool-room for years. His instinct told him that he might not only find a snbject there, ut a composition ready made and complete. His industry was properly rewarded. In earching the heap of waste he came upon a composition that bore the name of a high chool girl of seventeen. It had been read by by the janitor. The boy copied $\sqrt{1}$ e essay word prided himself that he fronld milke a tremen dons impression on the school in reading it That his plagiarism might be detected did not ocenr to him. He did not eren take the pre cantion to look np the meanings of several vords that were unfamiliar to him.
Friday afternoon came, and in dne time the small boy was called to read his essaf. It $\pi$ as



## WALL PAPERS






FRE
 23:



## WOMEN

Who want light and easy work, either all dours, can earn big pay working for us. No other publishers pay as big cash commision. The bnsiness is genteal, and promotes good health, besides filling your purse. Write to-day for full particulars. Address FARM AND FIRESIDE, Phildelphia, Pa., or Springfield, Ohio.

alled with schoolgirl rhetoric descriptive of the trip of a party orer green fields, throngh muring streams. The members of the party muring streams. The members of the party wer reached a big barn by the wasside Going up into the lofh, ther proposed to have some sport by jumping in the hay.
The boy read from his essay that ln jumping from the rafters to the hay, hls movements vere impeded by his crinoline, so he dlvested himself of that incumbrance.
Of conrse, this remark fairly paralyzed the
ortion of the school that understood the portion of the school that understood the
Ford the boy had failed to cornprehend. The eacher took the boy in hand, and with mercithe school.


OLD GIPSX'S REQUEST.

Will you let me take jour babies for a walk, dear? It's no trouble for thes're always ready drest. And James will stay with Jou and have a talk, dear. I'm sure you ought to have a little rest!"
o, thank you rery kindly, Mary Ann, dear, They're still too young for such a glorious treat But I really should be grateful if you ran, de And fetched me something really nice to eat.
"These dog-biscuits they give me are not nice, dear, And a bit of meat's what I should like to see The biscuits are all right for cats or mice, dear But not at all the proper thing for me!'

## Solections.

## REVIVAL OF WOOD ENGRAVING.

THose skilled and well-paidme-
chanics, the wood-cut chanics, the wood-cut proo pressmen, are likely, if the concerted movements of the to be busier than they have been at any time since process graving began to drive wood-cuts from the illustrated magazines. There are few proof pressmen skiled engravers of highest artistic quality. Only two or three offices in New York under take such presswork, though it is to this wood engravers send their blocks. Per haps the best evidence of the extent to which process engraving has superceded the work of the wood engraver is contained in the fact that a proof pressman, who does most of the presswork for a high-class,
illustrated magazine finds that it occupies illustrated magazine finds that
When a wood engraver is asked to engrave an illustration for a magazine, he presents himself before the art editor, examines the original from which the estimate of what the work will cost. If the price suits the art editor, the engraver carries home the original picture and composite block of boxwood, bearing upon its polished surface a reversed photograph
of the artist's work. When the engraver has spent some days or weeks in producing his engraving, he takes the engraved block to the proof printer to be proved, or
"proven," as the old-fashioned inflexion "proven," as the old-fashioned inflexion
still is in the press-room. This proof the engraver shows to the art editor, and if it pleases the latter, the engraver yields up
the original picture, with the engraved block, and receives his money for the work. An electrotype copy of the engraving is made, and from this copy the illus tration is printed in the magazine. It so popular that the publisher has a few proofs on Japan paper struck from the original block by the proof pressman, and these are sold to those who like the picture The proof pressmen still employ slightly modified form of the old Washingloft is to be carried back in imagination a full century, so antique are the presses and their surroundings. The work of the proo pressman is done with the engraver stand ing by to direct and to advise. It usually happens that the engraver does not ac curately know what he has inscribed upon from the engraved lines under the pressure of the proof printer's lever.
The first proof drawn is seldom satisfac tory, and it usually requires half a dozen impressions and a full morning's work to produce such a proof as the engraver cares to exhibit to the art edito As one proo his tools at hand, makes whatever small change in his work may seem recessary, and the printer, by a judicious application of paper layers over and under the, block, distributes the pressure so as to bring out the proper lights and shades. The most intelligent proof pressmen manage this with great success, and they are somewhat
disposed to resent a too insistent and disposed to resent a too insistent and It sometimes happens that the artist of the original picture asks the privilege of seeing the proof, and he may make no end of a different interpretation of the work. It all artists exercised such a privilege, the race of engravers would be driven mad and the proof pressmen would cheerfully machines.
The scheme of the engravers that may yet enrich the proof pressmen, looks to a thorough rehabilitation of the wood en-
graver's work as an independent form of art. It was believed for a time that the Grolier club would bring out a portfolio of Japan proofs from engraved blocks of
original compositions by the best wood original compositions by the best wood
engravers. But the club decided such a work to be outside its province, and it is probable that the Society of A merican Wood Engravers will issue the portfolio. somewhat similar work, issued sereral years ago by a rich publishing house of umes of that issue originally sold for $\$ 100$, have since fetched $\$ 250$. Some of the blocks for the proposed portfolio have
already been engraved, and the work $/$ place of pain, covered with thick and dry promises to be thoroughly representative of American skill in wood engraving, and at the same tinie an indication of the engraver's capacity for original composition. The original pictures will be in oil, in water colors and in pastel, and the subjects will represent both European and American scelles. The proof pressmen hope that following this portfolio will come a demand for proofs of the original work by American wood engravers, and that the presses will be busied with the best kind of work.-New York Sun.

## blUEGRASS GIRLS ON HORSEBACK.

I was in Frankfort the other day and saw a sight that was enough to cure any ordinary case of sore eyes, and to make the blood of a Kentuckian dance through his veins like champagne and his eyes sparkle like the "moonstone." It takes a combination to produce this effect on a "native-born," and the blending in this case was most har-monious-a lissome young miss, as graceful as a sapling maple, mounted on a blooded bay thoroughbred, with limbs as keen and swift as the "black-tail" of the boundless prairies of the West. She came own one of the shady avenues of elms and water maples, that are called streets at Kentucky's capital, at a clipping pace, and halting suddenly before an old-time manson, dismounted and ran laughing in, leaving her horse modestly to wait for his ittle mistress to return. I watched the pink face, golden hair and handsome riding habit until they disappeared within the wide-open door, and then turned my attention to the horse. His bridle was as delicate as a silken cord, and on his back was a flat, Englishman's saddle with one mall stirup. As I stood looking, the young girl came bounding out the gate and ounted, evidently pleased at the harmless "Hiration of a stranger.
"How do you manage to stick on that saddle?" I asked.
"Oh, it's the easiest thing in the world," she said. "F. ther is uneasy sometimes, but I always liked a man's saddle best,' and bounding lightly to the horse's back in another moment she was out of sight. "That's one of the Kentucky girls we like to read about," thought I; and as I turned away I had a feeling akin to sorrow when I remembered how the graceful, healthful habit of horseback riding was falling into disuse among the Kentucky girls of the present day.-Louisville Courier-Journal.

## HOT WATER.

How innumerable are the uses of hot water, and how beneficial are the greater part of them! When the body is thoroughy exhausted, and life itself is a burden, a plunge into a bath-tub of the restorer, highest which can be borne, with a rest of highest which can be borne, with a rest of rubbing afterward, and how remade and just made do we feel, and almost as if we just made do we feel, and almost as if we ual youth! And eren if a dip and plunge are youth! And eren if a dip and plunge are impossible, a quick sponging off with hot water gives a sensation of incalculable
relief and rest. Not to speak of the offices f hot water in the brewing of the cup which cheers, its effect when drank clear,
with the sparkle of the boiling just subiding, is almost equal in its reviving power to that of champagne.
Not only as a grateful and agreeable draft is it of worth, but as a medicinal one; for any one who has once tried it will not suffer nausea for very long at a time when cup of water, hot as it can be sipped, will, with most people, so speedily relieve the istress. It is as effectual, too, for the regas, and other ills resulting from indiges ion, as ginger and the alcoholic stimulants In large things and in small its use is of equal value. What is done for the child in convulsions but to plunge it at once int as hot water as can be endured withou scalding? And that is there that has an wifter effect of healing than hot wate pon a bruise, dispelling soreness an all as it was before the hurt; while for he banishment of nerve-destroying pain and of the ordinary neuralgia it is like the potent drops with which the enchantress in old stories was wont to sprinkle her hape to another. In nervous headache no pell or charm or lotion or plaster can equal the excellency of hot water applied me hand can cloths wrung out hotter than ted by a folded towel-laid then upon the
cloths to keep the steam in, and renewed every four minutes. And alas! almos
every one knows the relief that hot-wate every one knows the relief that hot-w
baths bring to tired and tortured eyes. Even savages, whose point-not of civi ization, but of the want of it-is far below the boiling point, know the assuaging and comforting power of hot water. Long be fore America was trodden by other feet than theirs, the various hot springs had been frequented by the Indians for the cure o their ills and ails; and it is they who have Bethesdas, and there are few more interesting sights to-day than one of these hot springs, where the steaming stream gushes from the mountain side, where the sick and the lame are brought on litters and go away dancing. It seems, in the case of the
natural outflow of hot water from none natural outflow of hot water from none
know what sources, as if old Mother Earth know what sources, as if old Mother Earth dren, and cooked at her central fires a lifegiving broth which puts to shame that broth with which Medea would have made the old young again
Those who make use of such waters get to fancy that beyond the mere thermal benefri there is a telluric or magnectic or planetary force in them which makes them of double efficacy. But for our own part heated though those waters be at fire if the fire born of man's ingenuity, kindled by the spark struck from his own brain, is not equally potent, and if the water that is boiled at home be not of quite as much worth to the ordinary individual as that of these up-gushing, superheated springs. household is the healthiest and safest, as well as the cleanest and sweetest, where
there is always on hand a fuil supply of hot water; although far be it from us to advo cate anything tending toward a support of domestic differences and contentions in
the shape of "hot water."-Harper's Bazar

## RATHER WORK THAN PLAY.

On Philadelphia's police force is a man worth $\$ 150,000$, whose income is about $\$ 15,000$ yearly outside of his $\$ 20$ a week pay A car driver receives $\$ 2,000$ from real estate investmenss in the tenth ward. A letter
carrier, appointed by Postmaster Huidekoper and still doing duty, is worth $\$ 20,000$ and a man who serves newspapers from
door to door, has money at interest to the door to door, has money at interest to the
amount of $\$ 60,000$. The head waiter in the Market street eating-house is worth $\$ 30,000$ and a cook in one of the city's hotels own $\$ 60,000$ in bank stocks and $\$ 25,000$ in rea estate. The sexton of one of the poorest f $\$ 7,500$, derived from government bonds -Philadelphia, Press.

## THE FERRIS WHEEL

The Ferris wheel is undoubtedly the vorld's fair. The diameter of the wheel is 270 feet, and the circumference 825 feet, the entire machine being placed 15 feet 265 feet above the surface of the earth. The axle on which the great wheel turns is a steel bar, 45 feet long and 32 inches
thick. Fastened to each of the twin
wheels is a steel hub 16 foet in Theels is a steel hub 16 feet in diameter. There are 36 cars on the wheel, each capable of comfortably seating 40 peoplc.
The cars are 28 feet long, 13 feet wide and feet high, and each one weighs 13 tons. The wheel, with its passengers, weighs 1,200 tons. The whole thing rests on two are 140 feet high, 40 by 50 feet at the basc, and 6 feet square at the top. Each tower has 4 feet, resting on 20 -foot cube concrete foundations. Underneath these are crossbars of steel. The inotive power comes under the wheel THE QUEEN OF THE ANTILLES.
Jamaica has perhaps made greaterstrides in the way of progress than any of Engand's smaller colonics during the past twenty-five years, and has some right now"
to call herself "the queen of the Antilles." Among the evidences of improvement Among the evidences of improvement
may be cited the hotels which have sprung p in the island, for the building of one of which $£ 24,000$ was expended. Then the Americans are laying lines of railway through the best part of the island, and the fruit cultivation is now as productive as
that of sugar, while the price of land has isen sugar, while the price of land has astonished to hear that the once thriftless blacks have managed to put by nearly half million pounds in their savings banks.-

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## Similes.

Twas on a Santa Fe express,
In Kansas one bright day,
on a manly shoulder lay
The situation was, it seems
Too tempting to resist,
When no one was looking, they
Each other slyly kissed.
Just then the brakeman shouted out,
"Eudora!" Quite enraged,
What of it? We're engaged.

- Kansas City Journal

The dress reformers would have gowns Made higher at the throat,
And shorter at the low
A kind of petticoat.
The gentle dames are shrewd enough-
Oh, they have cunning got
A stocking may be padded,
But a scrawny neck cannot.
-Kansas City Journal.
"Where are you going, my pretty maid ?" "I'm going out shopping, sir," she said.
"Can I go with you, my pretty maid?" You're not the shade of green I wa
said.
OSH BILLINGS' PHILOSOPHY.

VANTY is the superstition of pride.
a good wife is a sweet smile from heaven.
A petted child is like a bile that A petted
won't come to a head.
Pure religion is like good, Pure religion is like good,
old Hyson tea-it cheers but doesn't intoxicate. The biggest fool in this world hain't been "Bervare of the plenty of time yet. man and the loud-talking woman. A man doesn't always grow wise as he grow old, but alwass grows old as he grows wise. There is no greater fun for me than to prick a bladder. Windy folks will please make a note of this.
I prefer a brass-mounted villain to a soft, timid, panting hypocrite, who is as unsafe as sleeping snake

THOSE PERSIAN RUGS.
"Where are the rugs that were on the hall
luor, Katie?" ashed the mistress of the new hired girl.
"Oh, ma'am, I made"such a bargain for yeez this morning. There was a rag-peddler come to the dure whin I was shakin' them rugs, an he give me the beautifullest, hand-painted things, and took them offin his car-r-t."

WHAT THEY INDICATE.
Bunting-"The large sleeves worn now indicate an enlarged sense of humor in American

Larkin-"Is that so?"
Bunting-"Yes; they are accustomed to aughing in their sleeve and they want more

POSTED
Count Justcomeover-"How varry rude dose young society leddies in Amerique spik to dose Murray Hill Have you met many of them?" Count Justcomeover-"Not one, saire, but I haf read your journals comique."

## THE NEW PLAN.

Hills-"I suppose the bald-headed element in society will remain in town this summer
in view of the large number of ballets and comic operas." n their old age. They will go to the sea-shore. Bathing beats ballet."-New York Herald.

## WHY SHE ACCEPTED HIM.

 "I'm utterly unworthy of you, dear," said Timberwheel to his fiancee, in an outburst of "I know it, love "but where can I find a man who is worthy ofDIDN:T LIKE IT.
TankleJ-"Goggins sent me a bottle jesterday containing a snake preserved in alcohol."
Grimes-"Think he meant to insult you?" Grimes-"Think he meant to insult you?"
Tankley-"I don't know, but I certainly do not appreciate the gift nor the spirit in which

THE SOCIAL DEGREE.
Dawkins-"The Duchess of Portland has
Mrs. Dawkins-"Who are the Portlands, John, people whom one could afford to know,
after beiug presented to the Infanta?" MONEI IS EASY with our agents, becash commissions, and our work is easiest.





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A SUPERFLUOUS REQUEST.

Mama-"What in the world ars
ing such a noise down there for?"
Roderick-"'"To let you know how good I am. When making so great a noise?
When making so great a noise?"
Roderick-"Because you alwass say $I^{\prime} m$ in mischief when I'm quiet.
Senator Peffer says the repeal of the Sherman law will break up both the old parties
and build up a new one. What's the matter and build up a new one. What's the matte
with this one? For president, Governor gelc. For vice president, Johann Most. Plat-

## Ledger.

certain Englishman, hot "unknown to fane," was doing America. One day, while
in Now York, he was tackled by the omniin New York, he was tackled by the omn
present reporter and asked to give his oninion of our glorious country. "Your country," he I can't always understand the language. jove! it is deuced bad sometimes; ; it positively
makes me shudder. Why, everswhere I go hear that curious expression, 'Where am I at say, 'Where is my 'at?', - Boston Budget. "Do you enfoy good health?"
es," was the reply; "who doesn't?"
No, Maud, dear, the chickweed and the eggplant are not members of the
family,-Phitadelphia Record.

Blest be the girl that's kind
Enough to wear a hat
That'll let the man who sits behind
Know where the stage is at.
 LADIES


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your purse, past outrages ou yonr conflence, past failures. Look forward, not bachward. My remedy is of to-day. Valnahle work on the subject, and large hottle of the remedy-sent free for trial. Proi. W. H. PEEKE, F.D., 4 Cedar St.,
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Iceman-"Shure
Iceman-"Shure, an' it's to the Eskermaw village. How can the
poor craythurs shlape till I bring thim their pillers?". poor craythurs shlape till I bring thim their pillers?

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## urrent omment

गHE tribuual of arbitration in the
Bering sea case has rendered a de cision technically adverse to the claims of the United States on every point lating to exclusive jurisdiction in Bering sea and property rights iu the fur seals has been set aside. Iu spite of this, howthe United States gains the real point at issue-the complete protection
preservation of the seal industry.

The tribunal decided that Bering sea is an open sea, and that the United States has
no property rights iu the fur seals outside the three-mile limit. But by regulations to be concurreutly adopted by the United States aud Great Britaiu, pelagic sealing is prohibited at all times within sixty miles of Pribylov islands, the breeding-grounds hibited during the months of May, June and July, leaving practically only one nouth in the year for seal fishing. The use of firearms, nets or explosives in seal
fishing in Bering sea is absolutely prohibited

The decisious of the court of arbitration settle a seven years' dispute, and are, in the main, acceptable to the go
and people of the United States.

THe business situation is thus described in President Cleveland's message to Congress
With plenteous crops, with abundant promture, with unusual invitation investment, and with satisfactory assurance to busiuess enterprise, suddenly financial distrust and fear have sprung up on evcry side.
Vumerous moneyed institutions have susNumerous moneyed institutions have sus-
pended because abundant assets were not immediately available to meet the demand of frightened depositors, surviving corpora-
tions and individuals arc conteut to keep in tions and individuals arc conteut the money they are usually anxious to loan, and those engaged iu legitimatc business offer for loans, though heretofore satisfactory, are no longer accepted. Values supposed to be
fixed are fast becoming conjectural, and loss fixed are fast becoming conjectury have invaded every branch of

As to the cause, he gives his opiniou as follows:
I believe these things are priucipally chargeable to cougressional legislation touching the purchase and coinage of silver by the geueral a statute passed on the 14th day of July, 1890, which was the culmination of much agitation on the subject involved, and which may be considered a truce, after the long struggle between the advocates of free silver coinage
The opinion that the act of 1890, aptly Tled a truce, is the principal cause of the present business depression is not generally conceded to be correct. However, as
to the operation of that law his statemeut is clecing that the cond and his argument conpurchasing clause would do much to restore confidence aud better the situation.
This law provides that in payment for the four million and five hundred thousand ounces of silver bullion which the secretary
of the treasury is commanded to purchase of the treasury is commanded to purchasc
monthly, there shall be issued treasury notes redeemable on demand in gold or silver coin ary, and that such notes may be reissued. is, however, declared in the act to be "the es tablished policy of the Uuited States to maintain the two metals on a parity with each other, at the present legal ratio, or such ratio as may be provided by law.. secrels the action of the secretar of the treasury as to prevent his cxeicising the discretion nominally vested in him, if by such
action the parity between gold and silvermay action the parity between gold and silver may
be disturbed. Manifestly a refusal by the secretary to pay these treasury notes in gold, if demanded, would necessarily result in their discredit aud depreciation, as obligations pay able only in siver, and wous destroy the a discrimination in favor of gold.
Up to the fifteenth day of July, 1893, these notes had been issued iu payment of silver bullion purchases to the amount of more than $\$ 147,000,000$. While all but a Nery small quantity of this bulliou remains uucoined and the notes given in its purchase have been paic in gold. This is illustrated by the statement that betweeu the first day of May, 1892, and the fifteenth day of July, 1893, the notes of this kind issued in payment for silver bullion amounted to a litlle more than sit,000,000, and that during the same period bout $s 19,00,000$ demption of such notes.

The excess of exports of gold over its imports for the year ending June 30, 1893, the first day of July, 1890, and the fifteenth day of July, 1893, the gold coin and bullion in
our treasury decreased more than $\$ 132,000,000$, our treasury decreased more than $\$ 132,000,000$,
while during the same period the silver coin while during the same period the silver coin than $\$ 147,000,000$.
Untly issued aud bonds are to be conhausted gold, only to be again exhausted, it is apparent that the operation of the silver purchase law now in force, leads in the direction in the government treasury, and that this must be followed by the payment of all government obligations in depreciated silver this stage gold and silver must part company and the goverament must fail in its cstab parity with each other. Given over to the exclusive use of a currency greatly depreciated according to the standard of the commercia the nations of the first class, nor could our government claim a performance of its obligations so far as such an obligation has been imposed upon it, to provide for the use of the pcople best and safest money.
Here is some cold comfort for the "fiatists" and advocates of a depreciated curreucy
The knowledge in business circles among our own people that our government cannot unr kcep infcrior money ou a parity with supcrior money by its own independent efforts, Las resulted in such a lack of confidence at home, in the stability of currency values, that capital refuses its aid to new enterprises,
while millions are actually withdrawn from the channels of trade and commerce to become idle and uuproductive in the hands of timid owners. Foreigninvestors equally alert, not only decline to purchase Amerlcan securities, but make haste to sacrifice those which
The president has one good word for

Possibly, if the undertaking we have in
hand were the maintenance of a specific known quantity of silver at a parity with gold, our ability to do so might be estimated and leled growth and
ably passed upon. But when our avowe eudeavor is to naintain such parity in regard of fifty millions of dollars yearly, we rat fixed termination to such increas
hardly be said that a problem is preseuted olution is free from doub

## As to the remedy, the president says:

I earnestly recommend the prompt repeal
of the provisions of the act passed July 14, 1890, authorizing the purchase of silver bullion and that other legislative action may put be-
yond all doubt or mistake the intentiou and yond all doubt or mistake the intentiou and
the ability of the government to fulfill its pecuniary obligatious iu money universall

ALTHOUGH convened in extra session under extraordinary circumstances demauding prompt action, and urged by the presideut, by the press and by the people that it is of the utinost im should be given quickly, Congress has deliberately chosen to act slowly.
The house, it is true, has fixe
ting ving on an apmat more than ample time. The people are waiting as patiently as possible under the
circumstances. The senate has, as yet circumstances. The senate has, as yet,
fixed no limit to debate or time for taking a vote ou a repeal bill, or even on any measure affording immediate and tem porary relief. Immediate action is what the country demands.
To prolong debate and delay action is for of 100 to 1 is entirely too high to maintain a parity between eloquience and execution

The special attention of our readers is directed to an article on the follow ing page on the school of agriculture omplete in every particular, with a full corps of able every particular, with a ful oratories stoeked farm, and with courses of study adjusted to time and means, this school offer to students a most excelleut opportunity for obtaining practical and scientific instruction in every branch of farming. Let ever nity. At this school he can get what he needs most and what will contribute mos to his future success and happiness-a thorough, practical, busiuess education in agriculture. The coustaut thift from country to city for many years past has left advanced agriculture a field freer from
competition than any other. Against this competition than any other. Against thi The educated, earuest, progressive young farmer of to-day lias a golden opportunity He will realize it as soon as the clouds now He casting the commercial world roll by ployment, and in the uear future his coulpensation will surpass that from almost every otl
business.
The instructors and students of the Ohio school of agriculture are, and have been diligently and successfully laboring to make agricultural instruction popular The farmers of the state are taking more interest in the school than ever before The attendance was largely increased last
year.
Some counties have failed to make the appointments for free scholarships, to
which they are entitled, and are withou
representatives in the school. Let them make appointments for the coming tern.
The cost of attending the school is nominal. With a free scholarship aud one hundred dollars in cash, or even less, an active, energetic studeut may expect to get nergetic studeut may expect to get
through. If there are any farmer boys who want to attend this school the coming term, but are preveuted by lack of means, let theun write to the publishers of this paper.
Farm and Fireside will give them a good andy to will give them good. Desired iuformation concerning the school of agriculture will be furnished on application by Prof. Thomas F. Hunt, Columbus,

THe Rape-plant-Its History, Culture and Uses," is the title of a recent publication by the department of agriculture for general distribution among
farmers. It can be obtained by addressing farmers. It can be obtained by addressing the secretary of agriculture, Washington, growu herever it cau be successfumy pasture for cattle and sheep, especially for the latter. It comes in after corn is harvested, in a season when some good forage plant is needed to supplement the pastures prevent then from being too closely uatural protection for winter Shei raisers may be feeling a little too gloomy at present to take much interest iu anythiug relating to their industry, but they ought not to fail to read this pamphlet on that account.

THe present low price of wheat will probably have the effect of largely reducing the acreage sown this fall Reduction of acreage means better prices in the future. But it is not wise to abandon wheat raising and rush into something else. Nearly all those who abandon wheat will select the farm crop that now pays best, with the probable consequences of an verproduction of that crop and a fall in its prices. At the present time the world's supply of wheat and demand for it are more evenly balanced than they have been
for some years. Mauy changes may take place before next harvest. The probabilities are all on the side of better prices for wheat iu the future. Better culture on reduced acreage, not abaudonment of wheat raisiug, safe plan to follow
 hay and bright rye and oat straw,
on account of the forage famine in Europe, may amouut to, it is wisdom for the American faruler to save aud use his enormous crop of corn fodder. Bright, well-cured coru fodder is better and than the average grade of hay. Save the fodder and turn the liay into cash. One half the food value of the corn-plant is in the grain; the other half is in the fodder. This is a fact that will bear repetition until the enormous waste of the most valuable by-product of the farm ceases. Read the practical article on this subject on the fifteenth page of this issue

Aeveral and severe drought has reduced the yield of early potatoes and greatly damaged the growth of late potatoes. The average condition of the potato crop in August has been lower the potato crop in August has been lower
only twice during the past teu years-in 1887 and in 1890 . The drought has prevailed ver extensive areas, and the Colorado beetle has been hard at work in some sections. Prices for potatoes will not rule low, as the conditions have been decidedly
unfavorable for a full erop.

FARM AND FIRESIDE

## ISSUED 1st AND 15th OF EACH MONTH BY

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THE OHIO STATE UNIVERSITY-ITS SCHOOL of AGRICULTURE.

园HE Ohio state university is dirided into seven schools, agriculture, arts and philosophy, engineering, law, pharmacy, science and reterinary medicine. It is the purpose of this article to describe brien of thes schools-the school of agricalture. It may be said in passing, howerer, that the
university has serenty instructors, twentyuniversity has serenty instructors, twentyfive departments of study, nine large build-
ings deroted to instruction, fourteen laboratories and about 800 students. The lands, buildings and equipment are estimated to be worth $\$ 2,000,000$.
The school of agriculture offers three courses of study, the short course in agriculture of two years, a four-year course in agriculture, and a course of similar length in horticulture. The first year of the short course is preparatory to the freshman year of either of the four-year courses. At the student has two strings to his borr. He mar complete the short course by taking mar complete the shor course by taking become a freshmon in cither of the may become a freshman in either of the full four-year courses. It is in this short course in agriculture that the board of trustees offer a free scholarship annually to one student from each county of the state. The second year of the scholarship is also good for the freshman year of either of the long courses.

The instruction given by the department of agriculture, or the purely agricultural work, consists of three branches, or courses, of study extending through the year. The first of these branches consists of the equipment of the farm, the study of soils and farm crops. The second branch of study consists of the breeds of lire stock, heir history, character and use, the prin ciples of breeding, stock feeding and hygiene. The third course of technical agricultural work consists of a careful study of animal form, lectures on dairy husbandry aud rural economy
Of the 337 acres of unirersity property, about 180 acres may be considered to belong to the farm proper. This is equipped $w$ ith $\$ 5,000$ worth of live stock, machinery and apparatus. This equipment is mostly new, haring been pirchased within the past hirteen months. During the past year as nuch as fifty acres of the farm were in experiments of a more or less elaborate nature, iucluding the fertilizer work couWooster, with which the public is already Wooster, with rhich t
farorably acquainted.
The purpose of the farm, howerer, is educational rather than experimental. Breeds of live stock and varieties of farm crops are raised for the purpose of study by the student and the experimental rork is incidental. The farin is in uo sense a model one, and it would be inconsistent with its true purpose to attempt to make it so. Neither is it run for the purpose of making inoney, but to gire the student an
and not because the atmosphere is detrimental to nuanual labor.
One of the departments of study particularly conuected with the school of agriculture is that of agricultural chemistry. The work begins with lectures and recitations on the principles of chemistry. In about four weeks the student is placed at work in the laboratory and instructed in
nected therewith is performed in the ornamental grounds aud forests. In the junior year, general horticulture is takeu up and such subjects as pomology, riticulture, regetable gardening, seed-growing and small fruit culture are studied. In the senior year, arboriculture, forestry and landscape gardening are treated in the


Veterinary Hospital.
class-room and illustrated in a practical manner in the greenhouses, on the grounds, and by visits to other greenhnuses and grounds. Floriculture is similarly taught.
The department of horticultnre has under its immediate control about thirty acres of land. About one half of this is in fruit and a large number of the best varieties are Weil represented. Special attention is paid to market gardening, and the students
qualitatire analysis, the lectures being meanwhile continued. The student thus early introduced into the practical work of the chemist soon becomes an enthusiastic worker.
The lectures on the application of chenistry to agriculture include lectures on the ingredieuts of plants, sources of plantfood, the nature of soils, soil exhaustion and amelioration, barn-yard manure and
opportunity
agriculture.
The board of trustees consists of seren members, who exercise final jurisdiction over everything theat pertains to the institution. There are three standing committees of this board: The executive, President Hayes was chirman of the President fayes committee prior to the appointment of Dr.

L. B. Wing.

W. I. Chamberlain.


John T. Mack. commercial fertilizers feeding stuffs and feeding rations. There is also a series of lectures on the industries of butter and cheese, starch, sugar. glucose and vinegar, treating especially of the value of chemical knowledge in conducting such opera tions.
The department of agricultural chemistry occupies an important portion of the large chemical building, erected and equipped in 1890 at a cost of $\$ 62,000$. This department has a ecture-room with seats for ixty students, a preparawith desks for fifty-four Chamberlaiu to the board of trustees, after, have an opportunity of observing all the students, a laboratory for organic analrsis, which the latter became chairman of this operations from the sowing of the seed to committee. The one who by his long con- the marketing of the crop.
ection with this committee, active inter est, intimate knowledge and wise counsel in all that pertaius to the university estate, deserves special mention, is Mr. L. B. Wing, of Newark, Ohio. Mr. John T. Mack, on his appointment to fill the racancy caused by the death of President Hayes, became at once a member of the

Horticultural hall contains the offices and class-room of this department, and also the offices of the professor of agriculture and his assistant, the foreman of the farm. In connection with this building are two forcing-houses for hastening the maturity of regetables. One new and interesting feature in the management of these houses
is the method of watering by sub-irrigation. This method marks a great step in advauce in the profitable forciug of regetables.
Much of the work on the farm and in the gardens, orchards and greenhouses is done by roluntary student labor, for nhich they are paid. At the present time, during racation, all the work on the farm is done by students, excepting occasionally a hand or two during threshing or other special work. During the ten months of the last chool year, seventy-fire tudents worked nuore or

The instruction of the unirersity is divided into twentr-fire departments of of agriculture have studies in almost all of these departments, only that part of the iustruction giren in the schonl of agriculture which may be considered technical, or which is particularls modified to meet the requirements of the school of agriculture, can here be touched upnn.
farm committee, from his well-knowu inest in agricultural inatters
The department of horticulture begius itled the "Fion with a course of study entitled the "Elemeuts of Horticulture and location for horticultural work, preparalocation for horticultural work, prepara-
tion of the soil, drainage and irrigation fertilizers, tools, implainge and irrigation fertilizers, tools, implements and buildings,
aggregate $\$ 2,557.57$, the total par roll for that time being $\$ 3,199.73$. During this time three students each earned over 2200 , six earned amounts ranging from $\$ 120$ to $\$ 170$ while forty-seren earned lesser $\$ 20$ to $\$ 50$, Some of the students working in the grcenhouses and gardens did equally well. If this educates students away from the farm it is because they get too much of it
a storeroom, a balance-room and a private laboratorr. The apparatus, equipment and illustrative material is ample and thorough Iy modern.
There is a special course in veterinary medicine, requiring three years for its completion. This course is for those who wish to become practitioners in this important branch of medicine. The work required of the agricultural student includes lectures on anatomy and on the nature and treatment of infectious and contagious diseases of live stock. Surgical diseases and operations and obstetrics unay be taken. There is mork in the dissectingroom, and daily clinics are held during the college sear. The hospital in the rear of the reteriuary building affords excellent facilities for the care of patients and for the studr and treatment of their ailments. The bacteriological lalorator is ne of the features of this building.
While botany is one of the general studies of the uuiversity, a special course of adranced botany is tanght for the students of the school of agriculture. This course is taken in the freshman year, and cousists in the fall term of the character, function and methods of plant growth; in the winter term a special study is made of plants which are of practical utilits; in the pring term the diseases of the farm and gardeu crops are studied. All these subjects are taught by lectures and practical aboratory work. This department also has a special building which was provided for in
$\$ 1 \overline{0}, 000$.
$15,000$.
all the required work of the department foology and eutomologs is taken by the tudents of the school of agriculture. In he second rear of the short course in
week to economic entomology, collecting rcaring and preserving insects and practice in spraying and other means of coutrolling insect pests. In the freshmau year of the full courses of this school general zoology and entomology are studied throughout
the year. This includes both recitations the year. This includes both recitations and laboratory work, and is made to be of the largest possible help to the students of agriculture and horticulture.
The outfit of this department is ample, consisting of general zoological collectious, an entunological collection, a series of
prudentand cautionseveu in theso matters It happens ouly too often that a trip started in joyful anticipation ends in grief and sorrow. The other day a family cousisting of man, wife and seven-year-old boy, an only child, came to Niagara Falls on a pleasure trip. Going to one of the elevators leading down to the whirlpool rapids, the boy ran ahead and tumbled down by the side of tho elevator to the bottom, two hundred feet below. Instead of the bright boy that tle parents brought with them iu the morning, they took home a shapeles
venture in such streams deeper than waisttrol over their movements when the water reaches to the arm-pits. Always be sure to know what you are about before you go into the water.
Another pastimo that demands the sacrisailing. It is so nico to go before a light breezo with swelled sails; but it is always risky business. Nobody should fly a sail iu any kind of wind and water unless ho has good judgment and consiclerablo perienco in handling a sail, and is acquainted with the water. Oue cannot be too cautious Gales often spring up all at ance al though a storm seldoin comes without siving sarning approach I like to be sinits approad. I like to be spinuling along over rough water; but handle the sail mysclf and have it under full coutrol, and at such times I take nobody in who is not a stvimmer, and then we pre-


Horticultural hal
swim. I have seen boats capsized that were $\mid$ matter to replace a lost bolt or a broken handled by young men who were almost bar, but in the couutry great loss would brought up on the river. In such cases it is the recklessness in braving dangers that does the mischief. But persons without a long river experience should keep their hands off the risky business, which sailing on a large river or a lake, or iu the harbor always is and will be.
Rape as a Fodder Plant.-Farmers' bulletin No. 11, issued by the department of agriculture, contains a treatise on the rape-plant by Prof. Thos. Shaw, of Ontario Canada. I have heard the professor talk on rape, and know him to be a great enthusiast on rape and rape growing. It is not reasonable to suppose that a man of Prof. Shaw's great mental caliber would simply use rape as a hobby. There must .
ically discourage them to go alone. Some of the best swimmers have been taken with drowned while in the water, and were far out in deep rivers and lakes. Now while I still like an occasional plunge headlong into deep water, I prefer to stay near some support. One of our favorite ways is to plunge from the boat, let the boat float and swim alongside of and around it down stream.
No use running unnecessary risks. We all must and should be cautious when fully acquainted. Recently a lieutenant


Botanical Building.
of the United States army plunged headforemost into a shallow pond, supposed to be doep, upon shap stn two foet below the surface, which cut his head so fearfully that he was takell out of the pond uncon filly , anaster dhe art Persons not haring fully mastered the art of swimming, have no business whaterer in water unless they are sure of every foot of ground. Some of these rivers like the Niagara have strong currents and treacherous ground; often they lead you on gradually in shallow water, and then all at once fall off to great depth. Hundreds of people lose their lives every year in just such a way. It is dangerous for all who are not swimmers to
be something in it, and I am fully convinced that it will be worth while to inquire somewhat closer-namely, by tests and trials-into the merits of the plant. It has for ages been in cultivation in the Old
World, and possesses there an undisputed claim as a crop of great economic impor tance. Rape is a quick-growing plant, and Prof. Shaw recommends it for fall pasture (especially to sheep owners), also soiling as a catch crop, for green manuring, and as a cleaning crop. All who have stock to feed (and what farmer has not?) should apply to of the bulletin, and give it their careful atteution.
often result if we would not or could not borrow to meet the emergency. When, however, it comes to the question of borrowing or loaning expeusive farm tools, the subject asssumes a more serious aspect, and if some plan of reuting, similar to the following, could be adopted, the result, it seems to me, would be much niore satisfactory than under the present unpleasant ystem.
A is tho owner of a new seed-drill which is tho pricle of his heart and the envy of his neighbors. Proud of his possession, which has cost him many little self-denials, he fidgts and worries, however, knowiug that hefore long his neighbors will want to borrow t. While he is a generous, open-hearted man, to tell the truth he doesn't want to lead this seed-drill; but how can he avoid it without giving offense to his neighbors? At last he hits upon a plan, and in the leisure of a rainy day makes a tour among his neighbors, and has formed what may be termed an "Anti-lending-borrowing association." It was agreed that a fixed sum per day should be paid for the use of auy tool or implement, and that the said article must be returned in gond condition, and the rental paid on its return; this was to avoid any accumulation of small debts, which afterward might create more illfeeling than did the borrowing.
Isn't the plan feasible? Isn't it businesslike? And surely everyone will agree that it is entirely fair. Then it cannot fail to shut out the chronic borrowers, who never have anything of their own to lend any one, and who wouldn't lend it if they hacl.
s to the borrowing back and forth of soap, oil, butter, straps, nails, cake, bakingpowder, etc., ad infinitum, I must confess I have no remedy to offer; this part of the question is too vast for me to grapple with. GEO R K.ipp.

Rich Red Blood

antic, Conn. tul volume very beaut titled "Sacred poems, en says: "I find that for feeling of deadness o and poor circulation of the bloud, Hond's starsaparilla has no rival.
have been troubled se MrSMaryFIoms verely with a fibroid tu incr, besides seven fatty tumors on iny left arm. My blood was in very ince taking Hood's Sarsaparilla I have good

## Hood's spatine Cures

Hood's Pills act easily, set promptly and

## (9) セix fur.

GARDEN AND FIELD NOTES

Three Things for Success.History attributes old warriors the saving that three things are necessary for successful warfare; namely, first, money; second, more money; and third, a great deal of in in successful gardening. Three


Michigar State Building.
hings are absolutely necessary and inispensable; namely, first, mannre; seceal of manure , little observation soon shows this. Applications such as are common for ordinary farm crops, say eight or ten loads to the acre, produce inferior crops in the garden. If we waut ine vegetables and plenty of them, we have to pile the manure right on, aud this anure should be well rotted and as fine s possible; not the raw, coarse stuff, con isting mostly of dry litter, that comes lirectly from the stables where bedding is used with great liberality.
A piece of a third of an acre, which I had overed with old compost three or fou nches deep troo years ago, gare the most ronderful mass of vines and crop of.cabbages and other regetables that I ever saw. From August until time of gathering the quashes we did not walk through the quash-patch, simply because the tangle as such as to make it a big task to pich ne's way through it. Bush Lima beans rew so rank and fast that I did not succeed, as intended, in keeping the plants in bush form by repeated cutting back. The cabbages, planted three feet apart, corered the ground so completely that we preferred ostay on the outside oif the patch. Last made. The ap of regetables ou this piece of ground was fair, but by no means wonderful. This year I tried it without nanure, as the soil seemed to be rich and apparently jet filled with the decayed remains of the manure applied. Late dry season is doinging the drawback of and melon vines are growing fairls well but the former would undoubtedly have made better growth and yielded more pickles in manure had been given them utside the repeated applications of tobacco dust and bone-meal to the hills made for the purpose of keeping the bugs in check. Egg-plants, while making a fair growth, do not produce the eggs that we gathered from plants grown in freshly and and heavily manured ground last year. heavy yields obtained before this under the stimulus of fresh, heavy manure applications, is the behavior of our bush Limas this year. I hare some pods to pick, but not one half the number on a plant that The early celery, planted closely on the The early celery, planted closely on the to directions for "the new culture"), is and will be a failure; possibly a total surely a partial one. This is, in a measure,
due to my trip to Chicago. This crop needs n excess of manure, and heary applications for each crop. I was well aware of it, and intended to strew the ground between
t'ae plants thickly with dried blood, dried fish and other fertilizers; also, to mulch heavily on tnp of this with old compost. this was neglected. Then came the long dro 'ght, interrupted only once by a good $r^{2}$., and still continuing. Blight also at ackerl the plants at an early stage, and I am not hopeful concerning the out-
come. The early celery will be late at best and possibly entirely missing. I have once stated that uuder the new culture we can raise celery as easily as carrots. This probably is exaggerating things a little. arrots will do well enough on fairly good oil and with ordinary manuring. Celery, closely planted, needs fire or more times the manure that carrots do, and a lot of water besides. But if food and drink is given in abundance, celery is grown easil nough. Our minister, whom I taught
are doing quite well. Peas also have Fielded quite satisfactorily, but eren these crops would have done better, I am sure,
if a dose of fresh food had been giren thern.
The need of excessive manuring is especially apparent with the dwarf forms of each kind of vegetable. Almost all extra early sorts are weak growers, and need high stimulation if anything like the yields of later, stronger-growing kinds are desired I will mention, as examples, Early Ohio potato; American Wonder pea (as also all extra earlies); Early Ruby tomato; Bar letta onion; Wakefield cabbage; Emerald Gem melou; Cory and other early sweet corns, etc
While it is thus true that we may obtain fair crops of certain vegetables, especiall potatoes, beans, peas, tomatoes, sweet corn, etc., on land that has been hearily fresh applications of plant-foods, or least with uext to none, it is alsn certain that we cau secure far better vields, and more satisfaction from our operations generally, by new heary dressings with each crop. The practical results, and conse quently the amount of pleasure secured from $m y$ garden work in any one year, has always been in direct proportion to the amount of manure applied the samo sea son. I am so fully impressed with this fact, so fully convinced of the folly of trying to raise big crops of garden stuff without big, annual applications of manure that I now keep horse and wagon hauling manure day after day. I can get old cow mauure (mostly clear droppings) from dairy farm near at thirty cents a load. The to climb, and

## manure reasonably cheap.

Now you may want to know how much I amputting on the land. Am just preparing a little patch to sow onion-seed for bunching onions (green onions). Th patch is serenty-two feet long and thirts feet wide, or almost exactly one twent fan acre and bast manur, and hed loads of manure, or at the real to one hundred and wrenty loads (equal to one hundred and twenty tons) to the acre. But it is now in shape to produce something more than merely a moderate crop; in shape, indeed, to grow to perfection any kind of veg otahle crop I hare a mind to plant on it. Every foot of land that I wish to crop in garden stnff next year will be manured in just this way. I do not take much account of the labor of hauling. The horse would probably stand idle otherwise, and there is not much other work for the boy, either. Later on, when school-time approaches, I may buy manure from the cattle-yards at East Buffalo, by the carload. This will be delivered at the station here, a quarter of a mile from my place, thus saving time in hauling. But manure is the thing we must have and will have Manure, more manure, and a Great deat
of MaNURE.
Joseper. state buildings at the columbian ex. POSITION.
The Michigan building, constructed of material native to that state, contains interesting historical relies and an exhibit of the agricultural, mining and manufactur ing products of the state.
The colonial building of Ohio, with its parlors and committee-rooms, is a pleasant club-house for the Buckeyes and their friends.
The Washington building, of native ma terial, is an interesting exhibit in itself. It is a frame structure on a foundation of


## hio State Building.

fire tiers of large logs, some of which are forming in diameter and 121 feet long, It is said ther exhibit of the state. It is said that the woinen of Kansas were rery largely the promoters of the Kansas building, and the distinctive features of the exhibits it contains, particularly in the educational line, are due to them.

## Orehard and Small Fruits

 CNDCCTED by Sa3HUEL b. GREE
## HOW TO START AND GROW SEEDLING <br> > GRAPES. <br> <br> GRAPES.

 <br> <br> GRAPES.}In Norember or December, or as late as February further north, take a box four or ire inches deep and wide and long euough to hold the seeds when planted in rows three inches apart and one half inch or more apart in rotr, fill to within one inch of the top with rich, sandy loam. Drop the seeds iu drills made with the finger or a pencil, to the depth of one half an inch or more, Corer with the same fine, rich soil, then sprinkle until saturated with water, nail the cover on lightly, to keep off owls, cats, and place the bor in some ook on the north side the house, a fence corner where direct sun rays will not strike it, and bring the soil up around he sides even with the top, so that the soil in the box will keep moist and get the effects of freezing during winter. Or the seeds may be planted at once in the place Where they are to grow permanently, by imply laying a board of flat stone orer them after planting, dnring wiuter, to protect from loss by winds or fowls, to be removed at corn-planting time in spring, and protecting, if necessary, with plantscreens until up a few inches.
In spring, if planted in boxes, when oak huds begin to swell, remove the cover and ake the box into the house, hotbed, green house, flower-pit or cold-frame; water and reat as for tomato-plants. The seeds will slow in coming up. The first two leares, seed leares, will be heart-shaped or orate in outline. Be careful to not orerwater so as to drown the young plants, but maintain growing moisture and pull out all weeds and diseased or weakly plants.
When the plants are three to fire inches high, some moist, cloudy erening in May ransplant into rows in good soil in the garden, three or four feet apart, as you would tomato-plants, placing a strong stake by each plant, to which train it until fruits, when it may be mored, if so desired, to a permanent place in the vineyard.
The vines will, if not males, begin to bear in two to four jears, if well cared for, and at six to eight jears reach full development and be ready to propagate or hrow away. Male rines produce staminate flowers only and never bear, aud should destroyed or grafted as soon as discorered, uniess the pollen is wauted for hybridizing or to fertilize flowers of pistillate rines which may stand near, and which will not bear well alone, snch as Brighton, Ioverand Lindlé5. Hermaphrodite vines, or those having pistils With loug, erect stamens, such as the Concord and most varieties in cultivation, are self-fertilizing and bear well alone
Texas.
Prof. T. V. Munson.

## REPORT ON THE NEWER STRAWBERRIES.

Timbrell.-This is a variety of great merit, and all who have it should increase their stock as fast as possible. That it will be a tandard variety there is no doubt. I have watched it carefully, and am glad to report that it has not a single weak point. The plant is a luxuriant grower and enormous-


Virginia's huilding is an exact reproduction of Washington's home at Mount Vernon. It is filled with valuable historical

## Now is the time

 TO MAKE MONEY Working for this paper.ly productive. The fruit is very large nearly always of regular, conical form crimson color, firm and of very excellen quality, and one of the latest to ripen. Beverly.-This is a five berry and rery satisfactory to both producer and consumer. The plaut is healthy and producoí good quality. It is rather late in ripen ing and bears a long time

Muskingum.-Another year's experience with this berry strengthens my good opinion of it. It is large and productive and destined to be a good berry for market. Leader.-The plants and fruit were among the finest on $m y$ place. It is early, large, has a good color and excellent qual ity. I have heard no unfavorable reports from any quarter, and I think the Leader is destined to become one of the standar varieties.
E. P. Roe.-With me, this is as worthless a variety as was ever sent out. It fruited here this season for the first and last time Last year I paid one hundred dollars in cash for a lot of poor plauts, most of which died. Those that have survived have been a source of disappointment. Princess.-It has sustained its reputation for great size and productiveness, it which it is hardly surpassed. It is not however, dark enough aud firm enough.
Dayton.-This was a great surprise to saved it. It was one of the earliest, large and of fiue appearance and good quality The crop was fair.
Gov. Hoard.-It did not fruit'with me but a rery careful grower near here, M1 thing on his place. Its only fault is that the blossoms are very likely to be killed by late frosts.
Gillespie.-It is very satisfactory here, and most excellent reports come from
others. It was John F. Beaver's largest He had one berry three and a half inche in diameter (not circumference). It is rather early, of good quality, fine appearance, and is a good thing in every way.
Parker Earle.-It is one of the most val uable berries erer sent out. The only
thing ever urged against it is that it does not always ripen all the berries. With me this year it proved very fine.
Staples.-This variety was received from Dayton, Ohio. It will be introduced nex has a large, strong plant perfect blossom, and is very productive. The fruit is large rouud, firm, very dark and of very excel lent quality
Greenville.-This fruited with me under farorable circumstances and disappointed ine somewhat. Too many of the berries were small and knotty.
Ohio.

## A CURIOSITY AMONG APPLES

Although the effect of the root-stock on grafted fruit is well known generally, yet there is continual inquiry on the subject. The freak of nature, or probably the nat ural result of grafting referred to here, may be interesting as well as instructive. On a "greening" tree was grafted some
scions from a "sweeting" tree. Not an apple from the scions was all sweet or all sour, but every apple was both street and sour apple might be sweet and the other half an apple might be sweet and the other hal parts and alternately as many sour parts, the skin of the latter being green and that of the former yellow
The sweet and sour parts of every apple were shaped like the parts of an orange, and then a slice of sour apple until the whole apple was divided into equal parts. In cooking these apples-baking them for "apples and milk"-the sour parts of an apple were cut out and slices from another sweet apple inserted, and the whole when sweet.

## INQUIRIES ANSWERED

bX sascoel b. green.
Propagating the Fig.-M. F. The fig is readily increased by layers, suckers and autumn, cutting just below a bud, and handle the same as grape cuttings, Some growers, however, prefer to place the cuttings where
the tree is to stand. The fig may also be grafted by any of the com
Cranberry Culture.-H. B. D., Pittsburg Ill. Many attemṕts have been made to grow cranberries in Iowa and Illinois, and I think
without exception they have ended in failure Th is fruit does not seem to be adapted to limestone drift, characteristic of these states, and is only grown successfully on granitic soils The plants should be set in the spring. Spring Watc is sometimes successfully used for irri-
gat.un. Webb's "Cape Cod Cranberries" may be obtained of Farm and Fireside. Price, 40 cents.
Grafting the Malberry-Grape Seed-lings.-T. M. F., Warsaw, Ohio. The mulberry may be grafted in the spring before grafted. The scions for this purpose should
scasou. It also may be budded. It would be
well to bud your tree in August, and if the buds do not do well, to graft next spring,Grape seedlings do not produce the same kind of fruit as their parent plant, and most of cept to origlnate new varieties.
Rose-bugs.-LL. J, H., Bogart, Ohio. There is no practical way of getting rid of this pest when they attack peach-trees. Where
they are abundant, the people in the iminediate vicinity should endeavor to find out where they breed and then should plow the land late in the autumn. They generally breed on light soil, and certain fields in locapurpocm to be selected by them for this other grapes that do not need foreign pollen to insure fruit, the blossoms may be bagged
before the flowers are open, and with good before th
results.
Strawberry-plants Not Fruiting.-E.
E, West Point, Cal., writes: "I have a trawberry-patch that grows luxuriantly,
blossoms, but produces no berries. The plants are large and fine. What is the trouble?"
vegetables will do finely on such new land
Onions and uther plants that need a finc sed Onions and uther plants that need a fine secd of are not so good for new land, on acco
of the great labor involved in properly of the great labor involved in properly paring the land for then. But when a good secd-bed is prepared they do well on new land However, 1 much p.
sandy one for onions.
nay one for onion
Ladybirds.-G. W. K., Trichler"', Pa.
Writes: "Please name and give remedy for
insets I mailed you in a separate package today. The insects gather in groups aroun
small $t$ migs, some three eighths of all inc thick, and eat them clean off, wood and every apple-tree, and nobody scems to know what
they are. It seems almost impossible, but no
worms or anything have been seen at the
Reply:-The insects received are not the ones that injured your apple-trees. They ar
young ladybugs, or "ladybirds," as they a yometimes called; that is, the larvee of this in sect. They are very beneficial, fecding a they do upon lice and other insects, and the has damaged your trees, but think I can tel
if you will seud me a sample of the gnawed


at fault, aud I cangot answer your question decisively. It may be that your plants are all pistillate, when some perfect-flowering kind should be planted near by to furuish pollen. Or it may be the blossoms were injured by rost or dryiug winds.
Blackberry Culture.-J. L. S., Fort Branch, Ind. The land for blackberries should be prepared as for a corn crop. That of medi-
um or even poor quality is rather better than um or even poor quality is rathel better than
rich land. The plants may be set in fall or rich land. The plants may be set in fall or
spring. I prefer to set in the fall and then pring. I prefer to set in the fall and then from being throwu out of the ground by frost Be sure to make the land solid around each plant if set out in the fall. Plant four feet apart in rows seven feet apart. The second ther material, to protect them from drought. or varieties, use Ancient Briton and Snyder for main crop, and put in a few Erie and Minewaski. The two recommended for main cropl are not large, but are of good size when
well growu and are very reliable.
wood. In the cut herewith is shown a lady ladybird), but it is somerwhat different from

In the ladybird. he lara, b the pupa, ${ }^{\text {a }}$,
he beetle-all natural eize.
the one you sent, although there is quite a similarity between the two. The ladybirds Black-rot-Moving Roses.-L. S., Independence, Iowa, writes: "MYY grapc-vines
were properly prued, and after blossoming
thinned out leaving anot more than two thinned out, leaving not more than two
bunches on each branch. I have gone ove
them lately and given a thorough summe pruning, and while at work I have notice black spots from the size of a pin prick to one
fourth of an inch in diameter. The vines are


Kinds of Fruit for Pine Land.-J. B., cres of land in Shannon county, Missourl, Which I intend to use for fruit and poultry
raising. The land has pine timber on it but
is not poor, like pine land generally is. It has a black, sandy top soil and a kind of clayish
subsoil. (1) What kinds of fruit will and will
not do well on said land? (2) Will the trees
and do well if I clear and break the land this fall be better to wait one year and raise a crop of
corn on the land before settlng out the trees?
3) Will vegetables, such as Will vegetables, such as potatoes and
onions, do well in new ground?",
Reply:-(1) On such land as you describe al Reply:-(1) On such land as you describe al
most any of our fruits would do well, but most any of our fruits would do well, but peaches and plums on it. The small fruits will all do well on it. (2) If the land breaks up would plant the tree fruits and bush small fruits at once. Otherwlse would raise some crop on it first. (3) Potatoes and most of the
heavily loaded and are very thrifty, stand on
high and dry grouud, free from shade, and are
train trained to wires, the lowest about three feet
and the upper about four and one half feet
from the ground. What is the cause of these from the eround. What is the cause of these
spots? Will they ruin the grapes? Should
they be they be removed or sprayed? My Wife has
about a dozen choice rosebushes which were
set out four years ago She desires to move set out four years ago. She desires to move
them to auother part of the garden. Please
tell us if lt is safe to move them, and when

Reply:-The spots you refer to are probably the first indications of rot. It is doubtful if
you can do anything to prevent it as late as you can do anything to prevent it as late as I think you had better put paper bags over the bunches at once. Anyway, this treatment will protect the frult from the birds, spiders and dust, and the fruit will be thin-sklnned
and of as good if not better quality than if not bagged.- The best time to move roses is in the spring, just before the buds start.

KEEPING POTATOES.
The following is my plan of keepiug potatoes: Dig a pit in the ground of the equired size, under a house or shed; or build a good shed over it. Put the potatoes in and place plank or boards loosely over them until cold weather, then close up the cracks and put on cnough dirt to keep them from freezing. I have tried My pit is four and one half feet dcep, six ride and twelve long. It is best not to put er one hundred bushels in one pit. Mississippi.
EXTRACTS FROM CORRESPONDENCE.
Froar Canada.-Fall wheat did not turn out as well as was expected. A few loads brought into our local market weighed from fifty-cight
to sixty-two pounds to the bushel. Earlying are light, owing to drought and too rapid ing are light, owing to drought and too rapid cases, was a failure. The hay crop was unusually large and very fairly saved, especlally
towards the last. Peas promise well, with good length of straw and are well podded. Corn promises well. Potatoes will be small, unless and suffering for the want of rain. Our cheese factories are complaining of a large diminu-
tion in the receipt of milk. In this county, Lambton, grasshoppers damaged late oats and pastures, and even garden stuff. Cattle have done well so far, but dealers with a large stock on hand are feeling a Our small fruit crop was very abundant, but there will be a scarcity
of large fruit. Early Harvests and Astrachans are fairly loaded, but late fruit, with the ception of Northern Spies, will fall short of home wants. Summer fallows for fall wheat early sowing will be the rule.
Wyoming, Ontario, Canada.
LANDS FOR SAIE
by the hlingols central r. r. Co., AT Low

## SOUTHERX ILLIVOIS.

The best faim country in the world for either large or small farms, gardens, fruits, orchards, dairying, raising stock or sheep. A greater variety of crops, with a greater profit, can be grown on a less amount of lands in this coun-
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MILK

## (

NEWTON'S HEAVE, COUGH and DISTEMPER CURE.



## （9）ざMM．

## THE POULTRY YARD．

poultry on an acre

Amoxg the inquires that came to us during the month is one Which demauds an extended eply．It is from a subscriber
Hardy，Arkansas，who wishes to know if fifty hens compose the correct number for an acre of
ground，and if it would answer to build a poultry－house to accommodate two hun－ dred chickens in the center of every four acres．Also，how many cold with fifty hens．
The subject has received attention fre－ queutly in this department，but as new readers are always coming in，it is not out of place to again refer to the matter．An
acre of ground would afford ample space for fifty hens，and the poultry－house may be placed at the point of junction of four acres，though we consider it a better plan
to have the house on the dividing line of two acres，with one hundred hens as the limit instead of two hundred．
It would he an advantage to divide each acre iuto two fields，so as to permit the
hens to occupy one half of the space while some crop is growing in the other half． By such a method quite a large share of the be seeded down，to be followed by a crop of corn in the spring．The land will then be really deroted to two purposes．One half of the space will be in corn and the
other half taken up hy the hens，thus allowing hut half an acre to the hens in－ stead of a whole
acre．When the acre．When the
corn is off the hens can he turned into
that field and the other one plowed， which will also flean the ground the droppings． We are pleased to uotice that
templates keeping only fifty hens on an acre，thus differ－
ing very mnch from a great many others． The difficulty the great majority
is the desire to make an acre keep as hle，the result being crowded and do not
thrive．It is estimated that one male｜may be ten feet square，the passageway should be allotted to a dozen hens，but if $\quad$ being three feet，making the width of the males with fifty hens will be sufficient， though there is the drawback of disagreeing of the males，which leads to quarrels aud battles for supremacy．
Some hens will thrive on less space than
will others．The Leghorn will roam over larger area than will the Brahma，as it is more active in habit，but no mistake will be made if plenty of room is given over which breed is kept，and fifty hens in one flock are as many as with a possibility of

## FORCE THE TURKEYS．

In about two months the turkeys will begia to go market，which is but a lim－ grow and attain full size．They must now be forced in growth and made to gain as
rapidly as possible．For quite awhile jet the turkeys will pick up a large share of
their food，bui it will pay to feed them both morning and at night．Give bone as
a portion of the ration，by scattering ground bone where they will have access
to it，and if meat can he procured it should also be used．

POULTRY－HOUSE ROOFS．
The roof of the poultry－house may be flat，and tarred paper used，in which case n．The advantages of such a roof are the retention of warminth and the low costcorn－ pared with shingles，as the work can be
done more easily and in a shorter period of done more easily and in a shorter period of leaks must be stopped，and the floor of the
poultry－house must be kept dry in order to poultry－house must b
avoid roup in Winter．


CHEAP WHEAT AND EGGS
If wheat is now cheap you can afford to sell eggs aud poultry at a lower price than hefore，especially if you have to purchase the wheat；but if you have to grow the wheat and cannot afford to sell it at its to convert the cheap wheat into something that is more salable．Eggs are always cash in market，and the hens give in thei returns daily．We know of nothing that gives such quick profits as poultry－raising， and there is no crop prodnced on the farm that does not cause delay in selling．Wheat has to be handled several times before it gets to its destination，but when used as food for hens，and thus changed into the form of eggs，it is sold almost on sight at the farmer＇s door．More money can be secured from wheat hy keeping a large flock of heus than by selling it to the mil lers，and every farmer should increase his flocks：

HOUSE WITH PROTECTED SHEDS．
The illustration shows a house divided into three roosting apartnients，with a shed attached to each apartment．It may be of any length preferred，so as to have more
than three roosting－rooms if desired．The sheds are protected on the south side by doors of wire netting，the shed at the right being shown without the wire in order that the interior may he displayed．A passage－ way may extend the whole length of the house，beginning where the door is shown． The house is warm in winter，as the sheds the hens can scratch under shelter．In the summer the sheds ser to afford shade， the hens may roost in the sheds in sum－ mer，and the wire－netting doors closed to

TEMPERATURE AND HATCHING
When a hen is hatching a brood of chicks out of the shells a few hours，or as much as a day，ahead of the others．This is due to the fact that such chicks have received companions．It is now known that when heat during incubation，some of the chicks
vill come out of the shells a day ahead of will come out of the shells a day ahead of tack of heat the hatching period been oxtend a day over the time．，If the condi－ tions are correct，the chic
out on the twentieth day．

## CAPONS IN THE FALL

Capons may be kept together in yards， how many are in a flock，provided they hare plenty of room and are not crowded． and forage，they may be kept within a lim－ and forage，they may be kept within a lim－ There is no adrantage in selling them at
this season．They should be kept until this season．They should be kept until When marketed，as they 1 gril
good prices and sell readily．

## FILTH AND DISEASE

Filth breeds disease and provides the
est conditions for lice．A fiock of hens require but＂a few days in which to cover floor of the poultry－house with their drop－ pings，and the surface of the yard is often in a disgusting condition when neglected for a week in the summer．The poultry－ perforining that duty frequently than by waiting too long，and the yards should be filth under the surface．

## DISINFECTING．

When roup or some contagious disease destroy the fowls rather than to spend but the entire premises should also be dis
usually begin to lay after molting and la
through the entire year until the next molt ing period arrives，which is in summer or fall．

## CORRESPONDENCE．

## MY EXPERIENCE WTTH PLYMOUTH ROCKS．－ noticed a letter in the FARM AND FIRESIDE，

 I noticed a letter in the FARMI AXD FIRESIDE，in wich some one said＂wad things＂about
Plymouth Rocks Now，I want to rise up and give my experince in this＂meetin＇，＂for I have
raised that breed altogether for the last nine raised that breed altogether for the last nine
Years，and am just as much in love with the speckled beauties to－day as when I com－ menced．In the first place，they are large
mithout that wretched clumsiness that several breeds hare．The hens often weigh seren
pounds after having the feathers remored，
also heads and feet，and if there erer was a better breed for laining，thes must lay two
eggs a day．In all the time I have bad them
cold weatber nerer stopped them from laring cold weatber nerer stopped them from laying
－but that I had all the eggs I wanted to use－
until last Winter，and until last Winter，and then the reather was so very cold；they，were not well provided for it and breed hare done ans better under the cir－
any binstances？Then as for sitting，they do not
cump go to sitting as early as some breeds，but quite earligenough for the poor little chickens，for
spring weather in Iora might very easily be
called winter up to the thirtieth of May，at
midnight．About this time，as the almanacs say，＂look out for a spell of＂eather，＂and we
usuall get it．A week or two such cold，
＂wet rain＂makes too early chickens a nui－ sance．A ferr rears ago I had about one hun－
dred young chickens old enough to leare the hens，and one day a sudden showercame up be－
fore we could get them in the coops．and－
well，when the rain slackened a little，the boys went out to see to them，and came in directly，
carrying sixty dead chickens iu an old dish－ pan which they had found out somewhere．
The kitchen store was still warm，and we
went to work and spread them about the store and in the oven，and my girl and I worked
and and those chickens rubbing and warming
wem until ther all＂came to＂but five，which Were＂sure enough dead．＂Then the same
night it rained rery hard and blew the cover
off a coop containing fifteen chicken off a coop containing fifteen chickens about as
large as quails and the frst thing I saww in the
morning was fifteen chickens stretched morge as quais and the frst thing I sawr in the
morning was fifteen cbickens stretched out in
the coop．The head of the bouse said thes were ＂goners；for certain，and touse one of the bore
to carrs them off after breakfast；but in get－ ting reads for Sunday－schoolit it ras forgot ten， of the little ones out to take them and sent one
she noticed one when she noticed one gaping，and said，＂Oh，ma！dis
chicken ain＇t dead；I ain＇t going to carrs it
off．＂I ran out and gathered them up in my apron and began working With them，and
everyone but one lived，and I believe tbe ants
killed it as its ears were full everyone but one lived，and believe tbe ants
killed it，ss its ears were full．Now，this may
seem＂fishy，＂but it is true．Where is the
breed more tenacious of life than this？The
brity saw，and the most careful mothers I erer
will defend their chickens against
hogs that have a taste for that sort of food， flying on them and fighting like perfect furies．
They are great rustlers often raising their
chickens chickens out around the barn and fields，
hunting their own living，though I much pre－
fer them to come up and be sociable．I have often had them so tame that I could sit on the
edge of the porch and call them，and they
would come fring from every direction．and
 fuss－all pets．The hens are not cros，as a
general thing，when sitting．I go out among
them，patting them and smoothing their feathers，and talk to them，and they listen as
if they understood it all．Then Itake them
off the nest and set them down on the ground off the nest and set them down on the ground
until I mark the eggs and get the nest fixed，
and then put them back on the nest again；
they cuddle their eggs under them，and wiuk they cuddle their eggs under them，and wiuk
slyly at me，as mucb as to say，＂Now jnst see
if woun won＇t do Tonders with these egs，＂and
it must be confessed that sometimes tbes do， sure enough；but so do all other kinds，for that
matter．Then the soung chickens are always a comfort to behold．Instead of great，awk－
ward，bareback，feather－legged chicks．Whose
backs are nearls blistered from the hot rays of
thesun，the Ply mouth Rocks allwass look like they had just stepped out of a band look，or at
least had taken time to dress before starting least fad the das．The dear little hens and
out for the dars in miniature，in tbeir quaker garb，
roosters
looking for ali the world like the old ones，are ways，but the cheapest method is to dissolve in four gallons of boiling water，then add six gallons of cold water，and sprinkle or
spray the house and yards．

## INQUIRIES ANSWERED．

Standard Guineas．－R．W．，Peoria，Ill．，
Writes：＂Are guinea fowls recognized iu the standard for poultry？＂
REPLT：－They are not in the standard，and Leg．Weakness．－T．B．S．，Macon，Ga．，
Writes：My late－batched chicks are weak in
tbe legs，but otherwise appear healthy．Wbat


## Spnce on the Roost．－A．G．L．，Bataria，Ill．， writes：＂What is the estimated allowance of

 space for each hen on tbe roost at nigbt ？＂， duced in Winter，but in the summer seasonthes should be given plenty of roon，tbough
they will crowd some no matter how much

Off Color of Leghorns．－＂Subscriber，＂ Randolpb，N．Y．，Writes：＂Last spring I pur－
chased a sitting of egge of Brown Legborns．
Ofthe number hatched，one has bluish，orslate－ color legs．Is it an evidence of impurity？ if so，to What extent？＂
REPLY：－The color of the legs of Legborns
should be yellow．If bluish，it would be sus－ should be yellow．If bluish，it would be sus－
picious．It not safe to inbreed tbough it is
not necessarily harmful，if practiced one year

## INTRODUCING NEW BLOOD．

When the flock is to be improved by pro－ curing males from elsewhere，the farmer
should so arrange his yards as to know acquired male out to become a memher of
the flock，where there may be other males his object may not be attained．The proper in a yard with the selected male in the hatching the chicks arrives．It will do no during the winter，provided they are sep－
arated as mentioned，in the spring．If ner hlood is to be introduced you must he sure


Roup or Indigestion，－Mrs．J．M．B．，Al－
gona，Kan．，writes：＂Mry Ply inoutb Rocks have unlimited range．They become sick and
some die．They first droop，and when beld head downward a sellowlsh，and offensive
water runs from their mouths．＂ REPLY：－Tbey may bave the roup，due to
exposure at night，or the diffculty may be in－
igestion，caused by overfeeding Tin best remedy is to giree no grain，and add a tas－
rpoonful of tincture of nax vomica to eacli gallon of drinking－water for a w
dimicult to treat tbem bs handling．

## Moltine and Laying．－E．Z．Maxson，

 ong wilit be before she begins to molt？＇How ong wilt Spanish molting last？Will Leghorn andBlack


$\qquad$
$\qquad$ there is any other breed that has as many good
qualities and as fer bad ones as the Plymouth
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## (1) IIt firstid.

"In God's Ounn Country."

ook at her, mates!"cried the old man, his arm with anindignant where the staunch little whaler
lay in midstream,spick paint could makeher.
"Look at
her! She looks like a
painted Jez-
ebel, so she does. If it wasn't for the cut of
her jib you'd never know as she'd been as her jib you'd never know as she'd been as
decent a little woman once as ever walked the water.'
It was the day, last summer, when the Peary relief expedition set sail from St. Johns, Nerr-
foundland, on the "Kite," in search of the foundland, on the "Kite," in search of the
missing explorer.
Mrs. Wentroorth and her husband were Yrs. Went Trorth and her husband were
among the crowd of New York tourists who among the crowd of Jew ins ark harists who chanced to be in St. Johns,
bid the royagers God-speed.
At the end of the wharf stood a knot of old had spoken ont his indiguation, was an old sea-dog, gray haired, but hearty still, and
bearing old ocean's hall mark on erery inch bearing o
of him.
"Who is the woman in the case!" asked
Mrs. Wentworth of Michael Hawbnrne, who Mrs. Wentworth of himated her guide.
"It's no woman at all," laughed Hamburne. "It's the ship. He's talking of the Kite. It's
a was we Newfonndlanders hare, sou know. We paint our ships once in a lifetime. That's When they're built. After that, any old sea-
dog will tell you that he'd sooner think of dog will tell you that he'd sooner think of
gilding a lily than painting his boat. It's gilding a lily than painting his boat. It's
sure to bring them bad luck, they say. By the war, Mrs. Went worth, Fou ought to Enow old
Ballister. He's a great old character. Your Bollection of natural bric-a-brac won't be complete until jou've added Ballister to it.
I suppose yon've no objections to human cnrios, as well as inanimate ones. Don't step cnrios, as well as ingous corns, and you'll ha
on any of his retig slave in half au hour."
him your deroted him your deroted slave in half au hour.
"Is that Pilot Ballister?" broke in Doroth
"Y'es, that's he. Jonah's his first name. Fe
as christened Jonah because he was born in was christened Jonah because he was born in
a whale's inside. Oh, yes, he was, really. It was his father's ship-the Whale, Jou know. He's been a narigator ever since." ",
"Stop talking. and do present me, laughed Dorothy. "He's the man above all others that I want to know. I want him to help- How answer to a call from Hawburne, Ballister telling Mr. Hawburne how much I wanted to knor you."
The old man bowed profoundly. exclaimed. "Strangers, so long as they ain't a Frenchman, is always welcome within our gates."
Well, T 'm not a Frenchman, whatever my straight into the old man's eyes. "God's own countrs," she repeated; "mbat a lovely name.
Is that what yon Newfoundlanders call the Is that , "'
island?
Ballister's eyes smiled back.
he said pointing out through the yonder," he sala, pointing out thooth under the rays of the July sun. His
agaln.
"The sea's a monarch, and God rules. It ain't got no goverwor-general, and the fish is is good citizens, and lives according to their lights, whlle on shore here-bnt pshaw, I'm
talking foolish, lady!" As he spoke the Kite moved off, amld the last cheers, and the eager crowd began to melt away. the subject which at that moment lay nearest
her curio-loving heart. her curio-loving heart. "Mr. Ballister," she said, "I want you to
help me. Oh, it's nothlng hard. Only I've help me. Oh, it's notblng hard. Only I've to get it. I saw it, just by chance, the other day, When I was walking along Signal Hill. The door of a tiny house, which looked for all I peeped ln, and there I saw it ticklng away in the corner-the loveliest old grandfather's clock you ever salr. I've dreamed of it ever
slnce; and really, I'd glve my ejes to get it, Mr. Ballister. J Wonder if you've ever seen
the one I mean'" the one I mean
"Yes, lady," he answered, "I know that
clock. That clock has been tried by fire, it has. But you'll never be able to buy it, lady.
It's mine."
"Yours!" she cried, catching hold of his coat-
sleere in her eagerness. "Yonrs! Why, I never dreamed it was yours, Mr. Ballister. At
the hotel they told me that there was only the hotel they told me that there was only one man in St. Johns who could prevail upon
the owner of that clock to part wlth it, and the owner of that clock to part wlth it, and
that man was Pilot Ballister. I supposed that that man was Pilot Ballister. I suppo
it belonged to some friend of yonrs."
"No, lady, it's my rery own. I conldn Dorothy could not concel
Dorothy could not conceal her disappoint
"Oh, but, Mr. Ballister, I would give you an price for it. Why-
"Why?" he interrupted softly. "Why, lady? it, I'll tell you why I couldn't give the cloc array."
Dorot
Day
"I couldn't nerer part with it, lady, because that clock was my wife's engagement ring. I'm a widorr-man, lady," the old man said
earnestly, "and that clock was my wife's enearnestly, "and
"In our courtin' days, my wife as was to be had sald to me, 'Don't get me no engagement
ring, Jonah; but get sometbing as wlll be useful abont the house.'
There was an auction sale that week, and I young married couples were a-bidding on it but I outbid them all and carried it off to Ben

He took her hand and patted it gently, as though it were that of a little child.
"That's all right, lady. Yon're done me "That's all right, lady. Yon're done me pump now and then. It's many a day now since I're piped an ere.'
"He's the noblest old creatnre I ever met, Tom," she said to her hnsband later, as she story.
At that rery moment Ballister, in his cabin was sobbing hls heart out.
"She's enough like Beulah to be her trin," eyes on her I said, 'It's Benlah's ghost, dressed up for Sunday, with rings on her fingers and a new name.' I wouldn't let her know it for a gorge of seals-not for a gorge of seals. It wonld make her feel bad if she knew as she was harrowin' old times for me like this. I'll
never say nothlng, but as long as she stays never say notblng, but as long as she stays
here, I'll just make believe as it's Beulah as here, I'll just make believe as it's
has been a ray and has come bact
Johns, and during all that tlme Ballister Was Dorothy's constant attendant. Ther scoured Dorothy's constant attendant. They scoured end of treasures in mahogany and brass. On the day before thes sailed for Ners Yo Ballister asked if he might take all of Dorothy's treasures $n p$ to his cabin and pack them away in a chest.

lah. When we was married we put it np in our bedroom, right alongside the chimney. "The year the baby was born was the best
sealing season I ever seen. We came home sealing season I ever seen. We came home
laden dornn with 'em. We got in just afore daybreak one Monday, and I started for home on a run, without speaking. Just as I got you're sitting, lady-I stopped to catch my breath. The sun came up. I looked eagerly out for the little house. The chlmney was standlng, that was all. Even the walls had dlsappeared. I rushed forward; there was no home, no wife, no baby.
all that had happened.
Ballister paused for an instant
is eyes.
"My wife's and baby's bones was found in clock." "The clock?" said Dorothy.
"The clock," said Dorothy. was the clock, scarcely scorched. Its face was blackened, but it withstood the fire, and inst they was in all that desolation, and lond as cannon-balls."
Dorotby was crying softly. She sprang to
her feet and seized the old man's hands, while "Mre tears stood on her cheeks.
lve myself for touching your can never for this. But yor touching your old sorrow like not know, on what sacred ground I was

## lady," he said. "I'll see that nothing gets

Dorothy thanked him and consented. If any one had peeped in tbrough Balllster's Wlndow that night, he would have witnessed wall, where the clock had hung. The clock lay on Its back on the kitchen flour. Over it stood Ballister, his weather-beaten old face fnrrorred $\pi$ ith perplexity,
Before him stood two chairs. "This," he sald slowly, touching one, "thls is Beulah, and this," touching the other, "thls is the Then, standing midrray between them and morlng hls finger at each word from one chair to the other, he began:

## "Annle, Orry, 'Ickery, Ann, Filsey, Falsey, Nicholas, John <br> Queehy, Qnahhy, Irish Mary, <br> Stickeren, Etackeren, Johnnie-Co-Buck."

The last word fell to $D$
great slgh broke from him.

## "It's done," he said.

Withoutan lnstant's pause, he pulled some old clothes out of a cupboard and began to Tind them slowly around the clock.
Findlng-sheet, when at last the old in its work was done. He lifted lt ln his arms as gently as though it were a sleeping child, and lald lt down in the packing-case.
Just as the day was breaking, with his packhe started for the Mirends's dock. When, six
hours later, the Weutworths came down to
look after their luggage, the packing-case had been stowed away in the hold.
The parting एras a simple one. When all the other good-bys had been said, Dorothy hel her hand out to Ballister
"Mr. Ballister," she said, while the tears
stood in her ejes, "I shall nerer forget you"" The whistle blew again, cutting her words The Whistle blew again, cutting her words
short. Ballister snatched up her hand and kissed it with a gentle deference.
Eissed it with a gentle deference.
"Good-by, lady," he said; "God bless you, and come bacis to God's own country sonn again."
"I will, Mr. Ballister, I will," she shouted, as the ship slipped away. "God bless you! I She had beeu at home for several dass be fore, in the bottom of the packing-case, she
found Ballister's gift. When she did, she cried found Ballister's gift. When she did, she cried
over it for a little, then sat down and wrote over it for a little,
Ballister a letter:
If I kept yonr gift, dear Mr. Ballister, the hlank space on 5onr kitchen wall would hannt me foreve and ever. So. I thank you from the huttom of my
heart, hat it is not right or jnst that $I$ shonld What you prize so. Yon wnst keep it near yon Wass, for Benlah's sake. And now, with
lore, helieve me, Your affectionate friend,

And as soon as the mail could bring it, a answer came in a cramped and scrawly hand Dear Becilah:-Oh, how good you were to me. shouldn't never have rentured to write to yon if it
hadn't heen for sour letter. The clock has came. It haoks fine, and ain't lost a selond since it left thi port. It's a good sailor. I'm so lonely, Beulah. D hnt I pine for you sorely. Eren the sea has lost it salt for me sinie yon hare gone. Bnt such things
can't he. So the Lord has willed it. I keep sasing, can't he. So the Lord has willed it. I keep saying,
'Beulah, Beulah,' all the time. I call yon that hecause you was so ike her that it was jnst as if then
lab had been away and learned grammer and then come hack to me zgain. Gire my best respects to
yonr huzhand. There will he lots of tront next sea son. And now, dear Beulah, I'll say good-hy, an $\begin{aligned} & \text { come hack to God's own country as goon as son can } \\ & \text { Yours forever, } \\ & \text { J. BALLISTER, Pilot. }\end{aligned}$
Over and over Dorothy read the pathetic letter. Then, as she locked it lu her davenport she said to Tom
"In your rery most ardent days, Tom, yon never wrote me so beautiful a
that."-Acton Daries, in Fashions.

## FIRST MENTION OF THE PURITANS.

I have in my possession a detailed account of the temper of parties in England, draw mada came. The writer was a distinguished Jesuit. The account itself was prepared for the use of the pope and Philip, with a special wonld meet with, and it goes into great
wonld detail.
The people of the tomns-London, Bristol, ete.-were, he says, generally heretics. The peers, the gentry, theirtenants and peasantry, Who formed the immense majority of the
population, were almost unlversally Catholics put this writer distinguishes properly amon. Catholics. There were the ardent, impassioned Catholiss, ready to be fossors, ind ready to rebel at the first opportunitr, who had renonnced thelr allegiance, who desired to overthrow Elizabeth and pnt the Queen of Scots in her place. The number of these, he says, was daily increasing, orring to the exertions of the seminary priests; and plots, he boasts, were being continually formed by them to murder the queen. There were Cath olics of another sort, who were papal at heart, but went with the times to sare their prop-
erty; who looked formard to a change in the erty; who looked formard to a change in the
natural order of things, but would not stir of natural order of things, but would not stir of
themselves till an invading army actually apthemselves till an invading army actually ap
peared. But all alike, he insists, were eager for a revolution. Let the prince of Parma come, and they would all join him; and to gether these tro classes of
three fourths of the nation.
three fourths of the nation
"The only parts," he says
noticeable) "that would fight this is reall qneen, the onls real friends she had were the Puritans [it is the first mention of the name which I have found], the Pnritans of London, the Puritans of the sea towns." These, he admlts, were dangerous, desperate, determlned men. The numbers
providentially small.
providentially small.
The date of this document is, as I said, 1585 , and I believe it generally accurate. The only mistake is that among the Anglican Catholle there deras a nlag to see that under the act of uniformity Catholic doctrine might be taught and Cath ollc ritual practleed; who adhered to the old forms of religion, but dld not beliere tha obedience to the pope mas a necessary part of them. One of these was Lord Howard, o Effingham, whom the queen placed in his hlgh command to secure the warering fidelity of the peers and country gentlemen. But tbe force, the fire, the enthnslasm came (as tbe
Jesuit sarr) from the Puritans, from the men Jesuit sarr) from the Puritans, from the mon
of the same convictlons as the Calvinists of Holland and Rochelle; meu who, driven from the land, took to the ocean as thelr natural home, and nursed the reformatlon in an ocean cradle.-J. A. Froucte, in Longman's Magazine.

New terms in the way of liberal cash com-
missions are given to club raisers for this
paper. Hrite at once, for orur "Special Cash
Terms to Olub Raisers," giving full particulars Terms to Orub Raisers,"giving full particulars
of a plan which practically insures the success of a plan which prac
of every club raiser.

## HOME

Go through the town auy evening, and yo will be surprised, if you have given tine mat ter any thougbt, at the number of boys and young men who make a practice of squanderspent in the same manner. Squandering time is the siu of the age. As a rule, the idle, indo lent boy goes to the bad. He may havc all the elements necessary to make a first-class business or professional man; but if he is not in structed and encouraged to form habits of industry, he will be a failure, almost inevit ably. Therc is wisdom iu the Jewish proverb, "He who brings his son up without a trade, brings him up to be a thief." Prison statistics show that a large proportion of convicts never learned a trade until they learned one in prison.
There is one way this great evil of squanderiug time cau be remedied, if uot altogether hand-must themselves thet the example of in dustry and frugality, aud must see that their children imitate the example and that tbey have sometbing to do. Make the home pleas ant and attractive. If the boys love the street or loafing-place better than the home, you may rest assured that the home is lacking in some important particular. Provide the boys with andesting reading matter and usefutime in any harmless way that will keep them from idleness and profligacy. Wheu you see a boy mouth, a year in doing the work of a disgusting street loafer, you may set it down it would not take much to persuade that boy o scoundrel.
It is well to teach the boys that no success comes from squauderiug time, and that the better class of people have about as high a regard for a real industrious thief as for an ignorant, idle loafer. It is in the power of most parents to regulate this mater, and fling, loafing young men and boys diminish Make the home what it should be, and you have done much toward assuring the future of your boys.
But if parents suffer their own minds to grovel continually in sties and stables, and see notw can they lead their children on to useful lives, fruitful in noble words and deeds?-The Common People.

## ANTHROPOLOGY.

Man is held to be the latest creation, unless we except woman. It is orthodox to say that man was the masterpiece, not only the last, purpose.
There is one department at the world's fair or any invention of mankind. It apparently came near being an afterthought of the exposition management. At any rate, the building was the last to be decided on and the last to be constructed. It is known as the antro known, also, as that of archæology and eth nology, and is in charge of Prof. F. W. Putnam, of Harvard college, who is eminent both as a scientist and as a man of affairs. The big names of Greek derivation should that there is oue department, as wie have indicated, which relates to man. It goes back to prehistoric times and includes all history, and hence the name, archæology, which is the science of the old or ancient. It covers all tribes or nations of men, and hence the word ethnology, or the science of the races. But be to know that in this department and in this latest completed building are some of the most important and interesting exhibits at the fair. These exhibits are rery largely American. They ought to be particularly
sought for by visitors from abroad. They are rare, full of instruction, and to the thoughtful rare, full of instruction, and to the thoughtrit information than any other class of exhibits Vvisitors at the fair cannot afford to pass this building by. It is not far from the agricultaral building, which is next to the leather exhibit, which, also, is a building that all should visit.-Farm, Field and Fireside.

## THE LOST TAIL.

When one passes from the head to the other extremity of the human body, one comes upon a somewhat unexpected but very pro and not only of the tail, but of muscles for wagging it. Everyone who first sees a human skeleton is amazed at this discovery. At tbe end of the vertebral column, curving faintly outward in suggestive fashion, are three, four and occasionally five vertebre forming tbe coccyx, a true rudimentary tail. In the adul this is always concealed beneath the skin, bu in tbe embryo, both in man and ape, aimbs early stage it is much longer than the lime decisive as to its true natnre, however is that eveu in the embryo of man the muscles for wagging it are still found. In the grown-up human being these muscles are represeuted by bands of fibrous tissue, but cases are known where the actual muscles persist through life.
That a distinct external tail should not be still found in mau may seem disappointing to
more for evolution than its preseuce would the theory of descent had heen coutrary to louger tail. For all the anthropoids most allied to man have also long siuce parted with Magazine.

## POOR PRESIDENTS

It is still true, even in these days of great fortunes undreamed of when it was founded, that the American presidency may be aspired presidents have not rich. elected-Washiugton and Cleveland. Washington was oue of the wealthiest men in the country in his time.
Adams was worth one hundred thousand dollars at his death. Jeffersou was "land poor" and iu straits. Madison and Mouroe had comfortable estates for those days.
Jackson, according to the New York Recorder, was born in abject poverty and never be came wealthy. Van Buren was the sou of Johnson's youth was even more unfortunate than Lincoln's. He was appreuticed to tailor, barely learned to read in his minority and was taught to write by his wife after marriage.
Grant was born only moderately poor and nercr became rich. So of Hayes. Cleveland's youth was one of privation and toil.
Harrison was of good but not wealthy family, aud was, up to recent times, a country lawyer in good circumstances. He is but moderately wealthy.
The "aristocracy of wealth" has never made any inroads upou the white house.

## THE AUTONOMY OF LABOR

The fact cannot be too strongly emphasized that every man's labor is his own, and that he an do with it as he pleases. He has a perhours, his own duties, and all the other terms under which he is willing to be employed, and if they are satisfactory to the one who hires, an agreement is reached and there is an end of controversy betweeu them. It is a bargain and it is no competent contracting parties, They are free from the restrictions of any ther employer or employee, and are not sub ation or organization to which they do belong, and to which they do not owe any allegiance. The right to discharge and the right to quit must go hand in hand. One cannot well exist without the other, or else the parties are not upon an equality before the law. The wages of labor, as a general fould be left free to be determined by negoiation $r$ ruree to be determined by nego Senator David B. Hill.

CLEANLINESS THE FIRST LAW OF HEALTH
The following words of the late Dr. Richar son should be ever kept in mind: "Cleanliness covers the whole field of sanitary labor Cleanliness, that is purity of air; cleanliness, that is purity of water; cleanliness in and around the house; cleanliuess of persons; leankess of dress, cleanliness of food and habits of the individual ; cleanliness in cleanliness of life and conversation; purity of life, temperance, all these are in man's powe

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## HOME STUOY. A practical and complete Basperfect batibifaction. Send tic. for Cat. and Trial lesson Bryant \& Stratton, No. 419 Main St., Buffalo N.



Oor grandmothers, dressed in their linsey, Would kindle a fire in a hole,
And over it swing a big kettle On two forked sticks and a pole. With lye they had strained through the ashes, And scraps that were lying around
They made for our fathers and mothers, A soft saponaceous compound
But now in great buildings that cover More ground than a fortress of old,
In caldrons of brass and of copper, That glisten like silver and gold;
With oils from the far-away tropics, And alkali made from the dew,
Are mingled the essence of roses And lilies and jassamine too.
The result of this rare combination, Is the Ivory Soap of to-day, To-morrow, next week, and thereafter, Forever and ever and aye.
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HOW MR. CHINNYWICK SAW A GEOST.


Angelina (whose father has forbidden Charles to visit
his danghtw
we do? Hete, this Charley there is pat What shall
Tableau of innocence mhen the ond gentleman onters
roamy anarles, seated on the coal-scuttle, resembles an
easy-chair. we do? Hexe, this chair-cover, quick!" What shall
(See next 2 numbers on page 18.)

## 

## LOVE LIGHTENS LABOR.

A good wife rose from her bed one morn And thought with a nerrous dread Of the piles of clothes to be washe
Than a dozen mouths to be ded. There were meals to begot for the men in the field,
And the children to fix away
To school, and the milk to be skimmed and churned;
And all to be done that day
It had rained in the night, and all the wood Was wet as it could be,
And there were puddings and pies to bake And a loaf of cake for tea.
The day was hot, and her aching head Throbbed wearily as she said,
If maidens but knew what good wires know They would be in no hurry to wed."
"Jennie, what do you think I told Ben. Brown?"
Called the farmer from the well; and a flush crept up on his bronzed brom, And his eye half basbfully fell:
It $\pi$ ras this," he said, and coming near, He smiled, and stooping down, Kissed her cheek, "'twas this, that you were the best
nd dearest wife in town."
The farmer went back to the field, and the wife, In a smiling and absent way, Sang snatches of tender little songs She'd not sung for many a day.
And the pain in her head was gone, and the clothes
Were white as foam of the sea,
Her bread was light, and her butter was sweet And golden as it could be
"Just think," the children all called in a breath, '
"Tom Wood has run off to sea: He wouldn't, I know, if he only had As happy a bome as we.
The night came down, and the good wife smiled
To herself, as she softly said,
'Tis not strange that maids will wed."

## DOLL'S PAVILION.

Adoll's house-not Ibsen's, but one infinitely more attractire to the arerage little girl-may be easily and quickly made at home after the following however, it would be well to study the diagrams until the directions are thoroughly understood.
Cut four hexagons, measuring six inches on each side, for the foundation. Reverse one of them for the floor, and cut each of the others exactly through the center. Strong cardboard or thin wood may be used. Corer each of the six half hexagons
with dark green cloth, glue them together to form the terrace, and then fasten them firmly to the hexagon that makes the floor.


Next make the framework as shown in Fig. 1. For this use small, wooden laths Cut six upright posts, measuring fifteen inches in height, and twelve horizontal
pieces (six for the top and six for the botpieces (six for the top and six for the bot-
tom), measuring six inches in length. Fasten these firmly together with small, brass tacks, and from the under side of the floor drive tacks uprard into the framework to fasten then securely together.
Only three of the sides are to Only three of the sides are to be covered
in; the hack is all left open to show the in; the hack is all left open to show the
inside of the house. The three walls in
front are made of cardboard, corered on the inside with pretty tinted paper. Before fastening them to the framewrork, draw
the windows with a pencil, and with a sharp penknife and scissors cut them out in kind of lattice pattern. Paint the walls on the outside pale gray, or in imitation of bricks. The door in the center wall is not movable, being only a paiuted one. Paint it brown, leaving pale gray lines to indicate the panels and fanlight. Cover the framework of the house with brown paper wound around spirally, then neatly glue the three walls in their places.
For the roof, cut six sections of cardboard, each measuring seren inches at the bottom and gradually sloping to a point at the top. Line these sections with tinted paper (or they ulay be painted if preferred) and cover them with the petals of fir cones glued on in rows. Join the sections together, and orer each join place a small, mooden rod that has been gilded. These rods should project half an inch beyond the roof, and to the end of each suspend a small, gilded cone. The top sits down caplike orer the frame of the house, and should protrude over it about an inch. The
bottom of the outer walls is also ornamented with the petals of fir cones up as high as the wiudom-sills, and two rows of high as the wiudorr-sils, af the door and
them go up the sides of them go up the sid
around the top of it.
Small, gilt rods eight inches long are placed all around the bottom of the house (over the cone petals in front and across space in the back), and are fastened to each other and to the upright posts with fine, brass wire. Four little wooden rods of graduated lengths are painted stone color and glued to the terrace, to represent steps leading up to the door.
The house may be furnished with any pretty toy furniture. White curany pretty toy furniture. White cur-
tains should be hung at the windows tains should be hung at the mind back with bright ribbons. Jara canvas will make a pretty carpet, and there will be room on the walls for a small picture
and also for two or three tiny brackets.
The measurements I hare giren only make a small house, but it could be made larger if desired. In making this little parilion, great
care should be taken fasten it together as strongly as possible ; otherwise it will give rery poor satisfaction

Mrs. S. H. SNider.

## DRESSES.

In the illustration we gire of a lady's dress, the rery simplicity of the style is its greatest charm. The most of any dress at this time is iu the style of the waist and sleeres. The sleeres being more bouffant than ever and the waists full also, it char acterizes thestrle very much.
The lacing effect in front can be permanent or not, as you please.
The girls' dresses are very comfortable and effective,
and will answer nicely for and will answer nicely for Skirts for small girls ar much shorter, while larger girls
long.
Kilt
Kilt skirts for a short girl are very pretty, and with a jacket and blouse form a comfortable dress.
The dress with the revers of white upon a dark cloth is trimmed with white braid on the sleeves and down the front of the waist.

## CORRESPONDING WITH HERSELF.

Kate Fields Washington says that Mrs. Noble, the $w$ ife of the secretary of the interior, has a way of writing postal-cards to herself one day, as reminders of special duties to which she needs to give attention on the next. She employs for this purpose abbreviated memoranda intelligible only to herself. Whenever invitations are issued for an en tertainment at the Noble residence, Mrs. Noble pursues this same plan, and sends herself a postal, as by its prompt receipt she can determine whether or not her invitations have been promptly mailed instead of reposing in the oblivion of the messenger's pocket.

The biggest cash commissions ever given by any
paper are now given to club raisers for this paper. Write at once for "Special Cash Termus to Crub Ratsers."


## WHAT WE SPENT AT THE FAIR.

Jane and I started with the intention of being economical, but not penurious. We lived in different towns, but it happened that when we met in Chicago we had spent respectively $\$ 12$ and $\$ 12.50$ for trareling expenses.
Nobody can describe the expectancy with which one goes to the fair for the first time. We made our entrance at the east eud of the Midway. We had been saying Nidmay Plaisance before we arrived, but in Chicago the hasty inhabitants abbreviate everything. We at once adopted the habit. We passed the place of the forty beauties (some one had told us it was a sell) and the Irish village without being enticed at either place to pay the quarter
entrance fee. We walked joyfully past entrance fee. We walked joyfully past
the woman's building, and as it was directly in our path, we went into California Here were canned fruits in profusion, and of monstrous sizes. There was a small apartment set off in honor of California's artists and authors, where Bret Harte, Joachin Miller and others had their portraits done in pyrographs, and their books bound in velret on a shelf. We glanced a
 the prich from the menu card, and as down, we plainly set afternoon was employed looking at the xhibits till three oclock, when we sat on the lake front and listened to a concert given by the Cincinnati band, from the pavilion just before the middle of the liberal arts building. At fire o'clock we took a steam launch in the "basin." This was a great treat, and cost only a quarter. We sailed past the statue of liberts, through the colonnade, far out in the lake, around the pier with its morable sidewalk, out into the lake again, up north to the naval pier, past the war-ship, then returned to our starting-point. Another lunch on stools at a counter, a little more lunch on stools at a counter, a little more enough to think of home; home in this case meaniug a hotel where we eacli paid a dollar a day to be lodged. But on the way we found the sweetest haren of rest, a beautiful house, a reritable Holland home, where could be bought a cup of cocoa.
The exterior was attractive, but the interior more than realized expectations. The floors were hardwood, exquisitely polished; the walls were wainscoted with blue and white tiles; the fireplace was lined with the same. The moodwork was carved; there were carved racks holding plaques on the wall; there were porcelain pictures handsomely framed. From the wiudows we could see the biue
waters of Lake Michigan. A pretty girl with costume Hollandish came and gave us a cup of cocoa and two delicious wafers. Benediction on the sellers of cocoa. Anywhere a glass of beer could be bought for gave a better bargain.
We took the "L" (Chicago abbreviation for elevated railroad) and counted up our expenses for the first day- $\xi_{2} .10$. This was our arerage individual spending, and did not include lodging. You may peep into my note-book
"Secoud day-Started at 9 A. M. for the Midway. Went into Chinese theater, 25 cents; Ferris wheel, 50 cents; streets of Cairo, 15 cents; dans de ventre, 25 cents; Jubian dances, 10 cents (not worth even a dime); ice-cream and coffee in Turkish cafe (poor stuff); Libbey glass-works, 10 cents. Awfully tired, hungry, cross, miserable. Went on ' $L$ ' to fisheries and liberal arts; a square meal, 50 cents; Jane went to art palace; I sat still; chocolate; home. Spent $\$ 2.50$
"Saturday, third day-Began to study the art gallery. Spent $\$ 2.90$.
You can plainls see that keeping accounts began to be a bore, so, to tell you
the whole truth as to what we spent, you must depend on generalities and a fival grand total.
In Jane's note-book was this entry:
"Playing the fool, 50 cents." You might "Playing the fool, 50 cents." You might think she had done something rery silly, but it was this: One morning at the place to buy tickets she laid down a dollar; the crowd was unusually great, and a policeman was calling out, "Hare your money ready! More on! More on! Jane snatched her ticket and "mored on" without waiting to take up her half dollar change. She looked back longingly as soon as she remembered her mistake, but
the crowd was as great as ever; we had the crowd was as great as ever; we had
passed the turn-stile; there was no retrieve. The same entry uight have been in my note-book, for by a sudden tossing off of clothes at the end of a hot day a miserable
convenieuce may dictate.) The fare is ten cents, and one certainly gets a satisfactory
dime's worth of rest, sight-seeing and economy of time. Having arrived at the south loop we walked out on the pier, where is the morable sidewalk. This is a fine, jolls place, like a huge merry-go roun. For fire cents you cau lide as long which seems to be a hint from the manager that riders would better racate their places. It is not tiresome to walk across the colonnade, because one -is so excited by the beauty the dazzling magnificence of the architecture on the other. We wished to take a ride out on the water,
but from the pier could not do so without paying our entrance fee to the grounds oll our return, an extravagance not to be thought of.
In the liberal arts buildiug are several cafes. They are not rery stylish, because one mu ordered lunch from the menu card, and as he price of everything was plainly set
  -路

doctor's bill of a dollar. Moral, put a
little medicine in your trunk. Handkerlittle medicine in your trunk. Handker-
chiefs had to be washed -nine of them-75 chiefs $h$ cents.
Well, where did the money go? We each bought a package of tea in Ceylon because it had such a pretty picture of an elephant in a yellow landscape. Jane bought a souvenir ring, and I a china cup. We saw Buffalo Bill's willd west, we rode in a gondola, and did the Irish village, We had to pay dearly for laving our valises taken to the rallroad station, and a cluded and our return home secured, we had spent $\$ 52$. That was $\$ 4$ a day. Do better if you can. Kate Kaurfanan.

## "IF."

## 'Twist what thou art and what thou would

 be, letNo "if "arise on which to lay the blame. Man makes a mountain of that puny word? But hike a blathe withers bere the will Stirred by creative force, sweeps tow'rd aim.
hou wilt be what thou couldst be. Circumstance
Is but the toy of genius. When a soul Burns with a God-like purpose to achiev Must vanish as the dew before goal

## "If" is the motto of the dilletant

 And idle dreamer; 'tis the poor e of mediocrity. The truly great Know not the word, or know it but to scorn; Else had Joan of Arc a peasant died, Uncrowned by glory and by mell unsung- Ella Wheeler Wita


## HINTS AND HELPS FOR HOUSEKEEPERS

Don't say, dear readers of Farm and Fireside, "Does Hope Holiday think w don't know anything about preserving?' Far from it; it is because you know so much, and want to be the very best housethat Hope Holiday wo the crystallized experience of many years Again and again have printed recipes failed me in my younger days, until in despair I discarded the cook-books and wrote one for myself, from my good moth er's experience. Some of these very recipes she tried and made them what they are now. I give you her experimental wisdom, and you need not buy your cul inary knowledge as dear as we did. Again I promise that these recipes, if carefully followed, insure success.
Now is the time for watermelon rind to prove itself valuable. You have had the worth of the melon in your enjoyed des sert, and the rind is clear gain. Cut it to suit your fancy, in squares, circles, leaves or strips; weigh it, use your porcelain kettle and cover the fruit with cold water; let it boil slowly until tender, not soft, lay it out on plates, make a syrup of half a pound of sugar to each pound of fruit, and one pint of water to each two pounds of stugar. Boil and skim free of all scum Flavor with scraped green ginger-root and sliced lemon to taste. A small piece of alum keeps it firm, but I do not use it Put the fruit into the syrup and boil unti clear.
Citron is done in the same way, except that the fruit is allowed to remain, after cutting it as you want it, in cold wate with a small pinch of alum; all night These must be kept in self-sealing jars. Spiced Watermelon Rind.-Prepare the rind as for preserving; put over the der; lay out on plates. Of course, you weigh the fruit before boiling. Make your syrup of one pint of vinegar and four pounds of sugar; this is sufficient for spoonful of ground cinnamon, allspice spoos on grou, tie the spice in three four small bage made of thin mull, boil four small bags made of thin mull; boil the vinegar and sugar and spices together skim and put in the fruit and boil a few minutes-five is sufficient if the fruit is soft; if not, longer, but not long enongh break. Put all out in a stone jar and let it stand all night; in the morning pour of the syrup and boil it to just enough to cover the fruit; pour over the fruit and tie up. Keep in stone and let the bags of spice remain in it. This recipe will do for spiced pears and peaches. Pare both. We halve our peaches, and spice only small pears, leaving them whole. Don't select them so green that they are bitter. Peaches should be nearly ripe

Canned Peaches.-Select the best; cut up the specked and use for marmalade. Pare very thin and neatly and drop at once pare only four pounds of peaches at once
else the syrup will be too dark. Dissolve and boil one pound of sugar and half a pint of water, skim and drop in the peaches, boil until tender; have your jars in the jar before filling, they will not crack; lay the halves in neatly, outside up, and when full pour in syrup to top, draw out spoon, seal quickly after carefully wiping the edge dry. Pears are to be done in the same way.
Yellow Tomato Preserves. - These make a delicious preserve. The large, round are the best, but are difficult to find in our market. You ean use the small oval variety, and they are very good. Scald, skin and take out all the seeds. I wash mine to insure this. Take, for seven pounds of fruit, five pounds of sugar; use the rind of two oranges; cut it small; tako the juice of six and put orange-juice, sugar and tomatoes together on the back of the range, stir until sugar is melted, bring to the front of the fire, and after it degins to thicken, stir continually; when the fruit is clear and the juice has thickoned sufficiently, take from the fire and put at once, while boiling hot, into selfsealing pint jars-glass always.


A good memory drill, a good educator
and a pleasant pastime may all be secured in trying tho following game:
Some one gives a quotation, for instance "Those friends thou hast and their adoption tried, grapple them to thy soul with hoops of steel." The last word of the quotation is steel, its initial letter being S. Immediately some one else of the com pany, any one who thinks first, gives another quotation beginning with S. For instanee: "Singing she wrought, and her merry glee the moek-bird echoed from the trce." Then some one else who thinks quickly might add: "To thine own self be true," etc. To make the game instrue tivo each one who gives a quotation should tell from where it comes, or at least give its author. It is easily secn that the new quotation must always be begun with the initial letter of tho last word in the preceding.
Auother very exeiting and mind-stimulating game is "Buzz." The company form a circle and count rapidly. Now, any number which is divisible by seven mus not be called seven, fourteen or twenty

INTERESTING FACTS.
Old, loose kid gloves, worn when ironhands.
A Boston lady has invented a spoon for measuring medicine, by which a dose can be administered without spilling.
Julian Hawthorne, who is the father of sevell children, ealls his home at Sag Ha
Twenty young women, skilled in the use of the microscope, have been employed by tho government as pork inspectors at Kansas City.
Queen Victoria long ago discarded the use of stays. Princess Beatrice, following her nother's example, has discarded the use of corsets.
Miss Florence Nightingale is seventytwo years of age. Her health is very poor, nursing journals.
Miss Mary A. Ball, of Sioux City, Iowa., has been successfully engaged in the insurance business for nearly four years. She eniploys several assistants.
Miss Constance Smith is the head of the female staff at the post-office saving's bank in London. Subject to the controller, she has comm

An invention for hospital beds whereby the patient ean raise and lower himself without aid, has recently been patented by Mrs. Bailey, wife of the editor of the Utica

It is safe to say that the two widestloved women in New York are Mrs. Cleveland aud Mrs. Custer, the widow of the Indian fighter. These two women have the spell ' hearts.
The only ornament ever worn by the widowed Arclduchess Stephanie is a
locket containing the portrait of her little locket containing the portrait of her little daughter on the one side and that of her
mother, the queen of the Belgians, on the other.
A carafe which has become coated from standing filled with hard water, may be easily cleaned by rinsing in water in which a little muriatic acid has been poured.Housekeeper's Weekly.
If one is inclined to a chilly feeling in the back between the shoulders, baste a piece of all-wool flannel in the upper half of the back of the undershirt. It serves as a lung protector.
An English lady, who died not long since, left money to pay for sprinkling Tower Hill, London, with ashes and gravel, so as to mitigate its slippery condition, for the benefit of heavily-loaded horses
Notwithstanding the cares of office and the disquietude caused by nihilist plotters, the czar of Russia has kept hiş interest in and increased the fine collections of birds' eggs and stamps which he began as a boy.
Police matrons are now employed in New York, Boston, Chicago, Philadelphia, New Orleans, and other large cities. The appointment of the matrons has generally been secured by the efforts of women, and in spite of the opposition of the police.
Princess Maria Bibesco lately succeeded in swimming the Hellespont-Dardanelles straits-from the European to the Asiatic shore, and thus ranges her name alongside of those of the classic Leander and the poetic Byron. She is but twenty-four years of age.

The New York cooking-school had one thousand pupils in the year just ended, half of whom were taught free. The school gives instruction in plain cookery to children of working people, and teaches them how to prepare their food in a wholesome way, and how to market advantageously and economically. Instruction in higher cookery is given to those who pay for it.
Mr. and Mrs. W. R. Fish, of Chicago, are in the city in the interest of the Chicago Daily News Record, known, until jesterday, as the Daily News. Mr. and Mrs. Fish day, as the Daity News. Mr. and Mrs. Fish
are both connected with the business department of the paper as canvassers, and partment of the paper as canvassers, and work as to keep her husband "rustling" to work as to keep her husband "rusthing" to keep his record apace with her. Mrs. Fish
was formerly Miss Davis, of Mackinaw, was formerly Miss Davis, of Mackinaw, Illinois, the daughter of Mr. and Mrs. S. K.
Davis, old settlers of that place.-Bloomington Pantagraph.

## Agents for this paper get a

## BICCER CASH COMMISSION

than is offered by any other paper Write for special terms.

EMPLOYMENT for all, and big pay, too. journ to-day to the publishers of this

We count one, two, three, four, five, six "buzz." If the one to whom "buzz" come is so "oucky as to say the number instea, quickly a whole bright company may be "buzzed." To make it more interesting, "buzz" should be given every place seven occurs. Seventeen is not seventeen, bu "buzz." To "buzz" out those who seem invincible let sixteen be "buzz," because
one and six make seven; let eighteen be "buzz," because one from eight leaves seven. Likewise twenty-five (two and five); twenty-nine (two from nine). The last will soon put the whole company
flight, in spite of its efforts to the contrary. Ang, in spite of its efforts to the is "Bird, fish or beast," and simple as it is, it will dazzle the quickest-witted into hopeless stupidity The one who is "it" stands in the midst o a circle and at random thrusts his finger at some one, saying "bird," then counting ten as rapidly as he can. If the one designated fails to respond with the "is "it." The name of a bird, fish or beast may be called for at the will of the one who demands a name. It is rather amusing to demand a bird and have pickerel offered

[^6]
## (1) If dotichoti.

girls of to.day.
Girls of to-day, give ear!
Nerer since time began Has come to the race of man A sear, a day, an hour So full of promise and power
As the time that now is here.

Here at the gates of gold You stand in the pride of youth Strong in courage and truth; Through centuries long and black, Armed with a power three-fold.

-Charlotte Perkins Stetson.

## HOME TOPICS.

CEESE-CAKES.-This name never fails to bring memories of my school-girl days, and of good Mrs. Todd, the Englishwoman first went away from home to attend school. No clear, amber coffee with rich, yellow cream; no buttered toast and stewed tomatoes; no gingerbread; and last but not least, no cheese-cakes have ever been so delicious as hers. But it was a recipe for cheese-cakes that I meant to gire. Rub a cupful and a hal of cottage cheese through a colander, add the juice and grated peel of a lemon, butter, a quarter teacupful of swoonful o butter, a quarter teacupful of sweet crean andil until nooth. Line some path pans with a good pie-crust, fill them with the mixtur and bake half an hour. If preferred, it may be baked in one crust as a pie.
Washivg Dishes.-Nearly erery woman will agree with me that dish-washing is one of the most unpleasant duties of housekeeping. As I heard a young girl say not long ago, "If you could wash the dishes in the morning and have it done for the day, it wouldn't be so bad, but you know erery time you do it that in a few hours it will all hare to be done orer again." A feu years ago I read of a plan which I think is in the water very much. The lady who in the water rery much. The labout it said shemadesereral brushes of broom-corn and used them. As I had no of broom-corn and used them. AsI had no
broom-corn and did not know where to get any, I bought a good-sized whisk-broom, took it apart and made three brushes of different sizes, tring them firmly with twine and wire and sewing them as the whisk was made. The smallest one I left round, as that shape is most convenient for cups, cream-pitchers, etc.
In washing dishes, use two dish-pans and a large tray. In one pan have hot water with a teaspoonful of pearline dissolred in it, in the other clear, hot water, and on the ray spread a thick towel. When clearing the table, scrape all the refuse from the dishes. Then wash the glassware first, using a brush; dip each piece in the clear water and tnrn on the tray. When these are wash and wipe the silver iu the same way,
this rine with no bad results, I am just ing and experieuce. The poison-iry, or poison-oak, experieuce. The poison-iry, or poison-oak,
as it is sometimes called, may be distinguished from the Virginia-creeper or American iry, by the former having only three leaflets, while the latter has five. Another member of the samefarnily is the poison-sumach, or poison-elder. This is a six to eighteen feet high. It resembles the common sumack, but the branches and stalks are smooth, or nearly so; the leaflets are seven to thirteen. It is wise to aroid handling any of this family if you are not sure of the species. It it also wise to aroid touching the face with the hands and to wash both face and hands with strong soap-

## FOR "SICK HEADACHES.

In a practical talk on "sick headaches," a doctor says that there are three things which must be attended to in order to reliere the pain.
The light in the room mnst be darkened so that the eyes, which are so sensitire during an attack of "sick headaches," will be relieved from any strain. The temperature must be kept even, although the patient may prefer a lower one than is ordinarils comfortable
The hands and feet are usually cold, at least during a part of an attack of "sick headache." When this period prerails, a hot mustard foot-bath, soaking the hands in hot water and putting a warm piece of flannel about the body is often of inestifannel about the body is often of inesti
whole, the roasts are the best, and the whole mutton may be roasted. It needs a very hot fire and at least four hours for roasting, for mutton underdone is "sheepy." In ser ring potatoes with the roast, it is a nice way to boil them until fairly done (not until they cook in pieces), then put them into the pan with the roast, until they be come brown with the gravy. A good way to utilize stale bread is to soak it in milk until soft, then add salt and pepper and put with the roast until brown. If grav and potatoes are left from dinner, put them together and warm them for supper.
M. D. S.

## THE SWEET-PEA BED.

Some one has said, "Where there are


Inttials for Marking Household Articles,
suds, putting in a little ammonia if you hare it
roods.
If, in spite of precantions, sou discore signs of poisoning, which appear in stinging, itching, red spots, with small waterblisters, apply lime-water or ammonia water, and avoid rubbing or scratching the affected part or it will spread. Lime-water is made by putting half a pint of newlyslaked lime into a quart jar and filling it up with water. Stir it up well, and as soon as it settles, pour off the clear liquid for use and fill the jar with water again.

Maida McL.
In men, whom men denounce as ill,
I see so much of goodness still, I men, whom men pronovace divine,
I see so much of sin and blot, I see so much of sin and
Between the two, where God has not.

\author{

- Joaquin Mniler
}


## THE INDIA SHAWL

We have read a good deal lately about the return of the costly India shawl to faror, and no doubt it will follow in the wake of crinoline. Indeed, it is a regal envelopment for a matron or a middle-aged lad5, when carefully adjusted to fill the exactions of the true Parisian, whose one idea of a hanl is that it must "caress" the figure. he taste which directs a lady to select a shawl of real excellence and beauty is the
taste of education. Weight, colorand soft-
shortening the duration of the attack. While employing these measures, a mustard leaf-such as your druggist sells in little tiu boxes-applied to the back of the neck, will be found to be a raluable accessory

Persons who suffer habitually "sick headaches" can nearly always predict the adrent of an attack, and if they can, an emetic of hot water followed by a laxatire dose of salts or magnesia might sare the pain they otherwise may suffer. It is, as a matter of routine domestic treatment, a good plan to wash out the stomach in the -beginning of the attack, even when it has not oeen anticipated. This may be done without much discomfort by swallowing sufficientlukewarm water to give the stomach a feeling of tension. The rejection of this clears the stomach of mucus and irritants which might tend to aggravate the complaint.

## RECIPES.

Brown Bread.-I sat down for the milk to sour and to meditate (Samantha Allen would put it that way). The milk wasn't quite sour euough, so I set it on the stove for awhile, and while it was souring I was turning orer in my mind the number of loaves those threshers, who seem to be erils, hollow, would consume Maybe ome of the good sisters who have hollow some of the good sisters who have hollow
folks to cook for would like my recipe
thoughts." Surely, flowers do have a re fining influence, appealing as they do to the finer senses, doing good to ere and heart and soul. Last spring while makin a list of garden seeds needed, we decided that we would iuclude srreet-peas, and in clude them we did, and with what a wealth of Jlcssoms they repaid us! We planted them in the house, early in April, but the gricric outside did not admit of transplant ing until the latter part of May. They were set in a trench running north and south, so that they might get both morning and afternoon sun.
A trellis was made of four. wires for their support. They prored themselves sturdy climbers, and soon began reaching for the top wire, which was about four and one half feet from the bottom. Our first blossoms were cut about the twentieth of June.
Ouly three blossoms! But what a trans formation came over them, for in less than two weeks the whole row (about twenty feet) was a mass of beautiful bloom We cut them erery morning, and the din ner was never complete mithout a jar o sweet-peas. What admiration they solic itated, and I think every member of the family grew to have a real love for the farorites, for they won their way among ns as would lovely children.
As much as we enjoyed them, a greater enjoyment came from the daily custom of sending a bunch to some one, either sick or well. In July the hot, dry weather came, and there were signs of yellow leaves at the base. A good, thorough mulchiug and liberal watering sared them and still gave us blossoms without stint, and so it continued to do until Jack Frost came with his chilling breath, conquering the beauties and causing them to droop their lorely heads, and making us row rengeance, by deciding that each year the sweet-pea bed might have a place in the garden, and prore the old maxim that "a thing of beauty is a joy forever.'
M. D. S.

A little camphor placed on every window-sill will keep out flies, except in the kitchen, where the temptation is stronger aud the remedy of necessity a little more stringent. But a little camphor sprinkled on the cook-store now and again will drire out the pests and keep them out, while it will also neutralize the unpleasant odor of cooking.
Sponge carpets occasionally with hot water in which either common salt or powdered alum has been dissolred. This uot only brightens the carpet, but prevents moths.

## WOMEN

Who want light and easy work, either all the tim hours, can earn big pay working for us. No other publishers pay as big cash commisfon. The business is genteel, and prour purse. Write to-day for full particulars. Address FARM AND FIRESIDE, Phil- adelphia, Pa., or Springfield, Ohio.

## It is a very old saying that

## Man's work is from sun to sun, But a woman's work is never done

Why? A question that millions might attempt to answer, and no two would agree. There are so many ways of keeping house: The strictly methodical, where everything has to be done to a minute, regardless of convenieuce, comfort or tired feet; the spasmodic, where one will scrub and clean and bake, wash and iron, too, perhaps, in one day. Result, a worn-out woman for a week, and everything at sixes and sevens in the meantime; and so on ad infinitum-a way of doing things for every individual housekeeper.

Try and bear one thing in mind above all others: Do not do more in one day than your strength is equal to, and keep good-natured. Now, I imagine I hear a snicker and a whisper, "A man wrote
that!" Beg pardon, ladies, it is an old maid, who has had the opportunity of visiting many homes, and staying long enough to appreciate the happy ones; and those never coincided with the ones whose overseer's temper was soured by continual work and worry; and by the way, those people scarcely ever accomplished as much as the quiet little woman who "makes her head save her heels," keeps cool, does what she can do to-day and with the exception of headwork, that with the exception of headwork, that
may plan the morrow's campaign while may plan the morrow's
doing the supper dishes.
Through the summer an hour in the morning is worth two in the heat of the day. Try and plan what needs to be done in the baking line, rise early and do it while preparing breakfast. One can work so much faster if they have their mind made up just what to do. It does not take long to make a pie when the fruit is prepared the night before, and while you are making pie-crust, just roll out an extra one and bake, and to-morrow make a lemon custard for filling. How quick cookies can be baked they are ready mixed the night before, they are ready mixed the night before, with just a little more four in the morn-
ing; and ginger cookies especially are inuch improved by this method.
If you have bread sponge to set at night, save the potatoes out from dinner that you need, mash them fine, and at night just pour on boiling water, stir thoroughly, and prepare sponge as usual; lots quicker than to fuss and boil potatoes at tea-time, unless you cook them for supper, anyway.
Potatoes should be prepared for breakfast the night before, for the time you would then spend on them would rush the baking amazingly.
I wonder if some one thinks, "What, a day's work for an evening!" Please stop and consider that all this does not have to be done every evening. Sometimes it is one or two, sometimes but one of them; make your head save your heels, which will save your strength, and that, your
health, which will be a guarantee of health, which will be a guarantee of
"sweet temper." One womfan will take "sweet temper." One woman will take than others will in half a day's work. Put on the dishes first and together, and half of them will not be apt to be then forgotton. If you have to go to the cellar, and no slide cupboard conveniences, take everythin from and one wall as half a dozen, when things are brought up singly. Try it, sisters. Actually, I have seen people go the length of dining-room, kitchen and pantry to put away half a slice of bread that was forgotten to be taken with the bread-plate; also, the same person would travel to the kiss, or an individual butterplate. How silly
In clearing a table, put away victuals first, of course, and take just as many as you can safely carry at one time, selecting such as go to the same cupboard to take together. Here the server or basket comes into useful service again. Pick up the glasses, and then the silver, and please don't put the forks in a pile with spoons Scrape all the scraps from the plates into chicken or cat dish, and you can take all the plates in a pile as easy as one mnssy the plates in a pile as easy as one massy half so hard to wash dishes when they are all sorted, piled neatly and scraped clean. On wash-days, if there is no threatening rain, it is so much easier and quicker to fold the clothes as you take them from the
line, and having a pail of water handy, sprinkle them as they are laid in the bas-
ket. They iron much easier than when
thrown in helter-skelter, and thus becomthrown in helter-skelter, and thus becoming so badly wrinkled.
After ironing, hang all the clothes that need mending or a button sewed on, upon the same line or bar, and then none will be forgotten, and John come tearing downsewed on when your hands are in the dough. Don't let the mending go from week to week if it can possibly be avoided; a pile of ragged clothes is so discour aging. Do it as soon as possible after ironing; it's such a relief to the mind, for I guess every woman hates to patch and darn.

One item of woman's work should never be forgotten, if it is within the bounds of possibility, and that is, a smooth head and a clean dress for the afternoon. It will
rest and refresh yourself, please "hubby" and keep your children's affections. You may smile at the last clause as a new idea;

but I tell you, mothers, just as sure as the way to a man's heart is through his stomach, just so sure is the way to a child's heart through its eye for "pretty things," and if you can just keep that child thinking that mama is always "so slick" and "so sweet," you have taken a great long step iu coutrolling and guiding him; for a child may be ruled through his affections much easier than by "you must," and "you shall." And one that can bring a schoolmate home with him and be sure of finding a neatly-dressed little mother, may be
justly proud of her, and will jump for a justly proud of her, and will jump for a
pail of water or an armful of wood much quicker than if met by a tously head and soiled garments.

Gypsy.

## SOME TOMATO RECIPES.

Green Tomato Pickles.-Take green tomatoes, cut in slices, and put in saltwater over night. Let them drain from this, and to every eight pounds of tomatoes take one quart of vinegar, two pounds of sugar, one tablespoonful of allspice, two of cinnamon, one half of cloves, half teaspoonful of pepper. Tie the spices separately in a cloth, and put in the pickles. Pour the vinegar on them boiling hot. Boil the sugar in the vinegar Pour vinegar off, and heat over for three mornings, and pour on the tomatoes when they will be ready for use.
Another recipe is just like this, only leaving the tomatoes whole, and after soaking in salt and water, boil in vinegar
until a straw will go through them; then place in jars, and pour the boiling vinegar, sweetened and spiced, over them. Will be ready for use the next day.
Tomato Mangors. - Take large-sized tomatoes, when full size, but before they have begun to turn. Cut a slice off the stem end for a cover, and hollow out the inside part, leaving only a shell. Soak in salt and water and fill with the following: One head of cabbage, a half dozen large, green peppers, a tablespoonful of mustard seed and salt, and if liked, a fer chopped onions and celery stalks, or celery seed. then chop peppers drain it over night; then chop peppers, onions and celery. Mix with cabbage and mustard seed and salt
to taste. Fill the tomatoes, tie on the tops and pack in a jar, covering with cider
inegar. A few slices of horse-radish
keep the vinegar from turning white.
Piocalillill-Chop green tomatoes and cabbage, equal parts, and hang in muslin gallon of tho drain over night. To each pers, chopped, one small red pepper, a handful of mustard seed, a tablespoonful of cloves (whoole), a tablespoonful of whole pepper, a handful of chopped horseradish and a large tablespoonful or salc Pack in a jar and pour cider vinegar on
until covered. Weight dowu with a plate, until covered. Weight dowu with a plate,
and tie a cloth over the top, and keep in a and tie a cloth over the top, and keep in a
cool place. We put ours in the cellar, and it keeps untili it is used up. Could never get enough made to see whether it would ever spoil or not. Generally nine or ten gallons made so much work we got tired and quit.
Chopped Tomato Pıcries.-One peck of Seen tonatoes, chopped, six onions,
chopped, one pint of chopped celery, six reen peppers, one teacupful of sugar, one half teacupful of salt, a tablespoonful of allpice, one of mustard seed. Boil in cider vinegar until tomatoes are tender. Use inegar as needed; one cannot tell just how cans and seal.
SPICED Grapes.-Although grapes are not green tomatoes, they are good pickled, and are always so plentiful. Pick closely, filled bunches, and pick off all faulty ones, and pack closely in jars. To each quart of vinegar needed to cover them add two pounds of sugar, a tablespoonful of clove over them for three mornings. Keep in a cool place; or, pick grapes off aud pack in
fruit-jars. Pour the hot spiced vinegar over, and seal. The spiced vinegar is
splendid for miuce pies in winter.

Beeman's Pepsin Gum.


TOKOLOGY
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(9)w simulay gfternom.

## HE IS COMING.

Yet he hides himself a little while Lift thine eyes aloft,
Watch the day-star of his smile; he falling of the $s$ He is coming-lo

Out of suffering
And of sorrow we sha thee him and be glad Mournful-countena nced aud sad, Shout aloud, all ye dumb!
Rejoice, rejoice! O rapture Rejoice, rejoice! O rapture!

He is coming!
0 dear Master, while thou tarriest prepare These waiting hearts with wonder;
Make us fair with the beauty of the Spirit Grant that we may run to meet thee In the flashing of the light!

Tthe new name. him that overcometh, Christ promises a new name. The real name is the promise of a new ileges. Abraham,the high father, beco
the supplauter, becomes , nations; Jacob the supplauter, becomes Israel, the prince of God; Simon becomes Cephas, the stone,
the impetuous weakness of his uature transformed into the strength and firmnes
The new self is as individual as the old nay, it is more so. It is the real self. Sin
d warfs, distorts and weakens the nature. Spiritual life restores it to the glory for
which it was designed. Holiness is selfWhich it was designed. Holiness is self to himself, he hastened to return to his father's liouse.
The new name, the new uature, the new powers, the new privileges, come from
Christ. He ouly realizes his best possibilChrist. He ouly realizes his best possibil-
ities twho makes the perfect character of Christ his ideal; who is inspired by his teachings and is renewed by his spirit. Salvation is character. It is a divine life
which stamps the image of Christ on the heart and makes the daily life a gospel. A the sunshine fixes a picture on the sensitive prepared plate, so the lineaments of Christ are wrought by the holy spirit on
the heart that turns toward him. "We are changed into the same image, from glory to glory, as by the spirit of the Lord." He "I am crucified with Christ; nevertheless I live; yet not I, but Christ, liveth iu me."
Paul was immeasurably Paul was immeasa liveth in me," than when he lived in all good conscience, but was blind to thi
beauty and opposed to the will of the Godman. Human nature is a rast organ Those music Christ alone can fully bring
out.

## Patience, it has beeu well said, may be

 the making of a soul. "It is good that a man should both hope and quietly wait for of delay may be productive of great good. A man going forth to battle may be ready to nerve himself for the clash of arms, bu long guard-dut y of a picket. Nerertheless a lonely vigil may do more to make a reteran soldier than the action of the battle-field. While we think of our divine Lord as an exauple of patience in his intercourse with the world and his disciples, we often life on earth.
Where can we find so grand au example of patience as is supplied by his thirty
years in Judea, when, having within himself a knowledge of his divine mission, he nevertheless was coutent to remain known gare himself to the commonest offices of that may seem to be meted ont to us, and subjected, we ought to possess ourselves in tranquility, when that it is the patieut, in contradistinction

[^7]paper, Mirgest ensh commis
sion paid
erg. Write ny publish-
Write noy puy foll
special tormay

Happy it ine inward battle.
battle between the spirit and if the should begin in him agaiu and again, as long as his flesh is not subdued to hi spirit. If he is wrong, the greatest blessing which can happen to him is that he should find himself in the wrong. If he has been deceiviug himself, the greatest blessing is that God should anoint his eyes that he may see-see himself as he is, see his own inbred corruption-see the sin that doth so easily beset him, whaterer it may be.
Whatever anguish of mind it may cost him, it is a right price to pay for the inestimable treasure which true repentance aud knowledge, tried in the fire of hitter self rience; the white raiment of a pure and simple heart; the eye-salve of honest selfcondemnation and noble shame. If he has but these-aud these God will give him, in answer to the prayer of a broken and conrite heart-then he will be able to carry on the battle against the corrupt flesh, aud its affections and lusts, iu the assured hope of final victory. Far greater is he that is with us than he that is against us. He that is against us is ourself, our selfish self, con trolled by Satan, our animal nature; and he that is with us is God-God and none other. And who can pluck us out of his hand?-Charles Kingsley.

## HIS MOTHER'S EXAMPLE.

We have heard of a young infidel who was oue night in bed contemplating the character of his mother
"I see," said he to himself, "two unquestionable facts. First, my mother is greatly afflicted in circumstances, body and mind; and I see that she cheerfully bears up under all by the support she derives from Bible. Secondly, that she has a secret pring of comfort of which I know noth ing; while I, who give au nnbounded rein o my appetites and seek pleasure by erery means, seldom or nerer find it. If,
however, there is auy such secret in however, there is auy such secret in
religion, why not I attain to it as well as my mother? I will immediately seek' it of God."
Thus the influence of Christianity, ex hibited in its beauty by a living example before him, led Richard Cecil to know Christ himself, and to glorify him by a life o Oh, ye Christian mothers, be holy! The pure light of a life of true derotion may dissipate the skepticism of your boy and open to him a course of eminent useful ness.-Christian Standard.

## KEEP STIRRED UP

Says the poet: "Help us to stir each other up." There is great need of every Christian
keeping himself stirred up and helping to keep his neighbors stirred up, also. There re so many benumbing, chloroforming influences that the Christian needs to keep constautly on his guard, lest he begin o sleep as do others. Many are the temptations to let down a little on the
cross-bearing way, to leave undoue first one duty and then another. The enemy will take adrantage of ill and tired bodies, o get us to lose the aggressive spirit. So while we have such a watchful enemy, we oo, must be sober and rigilant, putting on the breast-plate of faith and love, that we
be not overcome with any of Satan's seducbe not overcome with any of Satan's seduc-
ire charms, nor entangled again with the yoke of bondage.-The Firebrand.

## not alone

Never mind where you work, care more how you work; never mind who sees, i God approres. If he smiles, be content. We cannot al wass be sure when we are it is the multiplication acreage you sow the seed which makes up the harrest. You have less to do with being successful than with being faithful. Your uain comfort For God, the eternal one, who guides the marches of the stars, is with you.-Rev. C H. Spurgeon.

## a christian nation.

Just think of it! A lot of converted caunibals begging a Christian governmen rum : Verily, the Christianity of our own land does need Christianizing at the very core. Ships sail from American ports with missionaries as passengers to Africa, and cargo, hearen geallons of rum the cabin, hell goes in the ship's hold. How long will it take Dr. Cuyler, in New York Evangelis?.

PATHETIC ORIGIN OF A HYMN.
be the the hym "Blest small Baptist church in Yorkshire, from which he received only a iueager salary. Being invited to Londou to succeed the distinguished Dr. Gill, he acceptcd, preached his farewell sermon, and began to load his furniture-wagons for trausportation. When the time for his departure rrived, his Yorkshire parishioners and neighbors cluug to him and his family with an affection beyond expression. The agouy of separation was almost heartbreaking. The pastor and his wife, com pletely overcome by the evidence of attachment they

Looking into his face, while tears flowed ike rain down the cheeks of both, Mrs. Fawcett exclaimed:
"Oh, Johu, John, I can't bear this! I kuow not how to go."

I, either," said he; "nor will we go.
the wagons and put everything in Unload the wagons and put e
The people who had cried with grief now began to cry with joy. He wrote to the London congregation that his coming was mpossible; and so he buckled on his rmor for renewed toils in Yorkshire on a alary less by forty pounds a year than hat which lie declined.
To commemorate this incident in his istory, Dr. Fawcett wrote that hymn.Chistian Herald.

THREE DAILY DUTIES
There are three dutiful acts which a Christian should conscientiously do every morning. The first is an act of thanksgiring for the mercies of the night; the sec nd is an act of faith by which one commits ue's soul to the keeping of the redeemer, aithfully keep what is thus truthfully placed in his hands; the third is an act of determination to speak kind words of heer, or to do some helpful deed to at east one fellow-creature during the day Sidney Smith, quoting from an unknomn riter, says that to thus place a drop of comfort into the life of one tired spirit very day would be to make three hundred ad sixty fise people more or less happy erery rear. Should one do this every day保 ersons fourteen thousand six hundred stream of blessing to others, the Christian rould greatly add to his own happines since "It is more blessed to gire than to

## THE MOST NEEDSD MAN.

The man most needed to-day is not the milliouaire, the inventor, the orator, the statesmau or the poet, but the ideal man the man who is nearest to Christ, who was the model of all moral and manly beauty; hose presence was a benediction; whose vords were pearls of wisdom; whose deed were untainted by self-ism; whose manners Were affable and courteous; whose gentleness caused him to call his betrayer "friend;" whose benevolent love caused him to lay down his life to save his foes, and tho asked no return for all he tras and did, but a love responsive to his own. The man who comes nearest to this ideal man, e divine redeemer, is the man mos ug, self-seling tling, restless, unbelie ing, self-seeking age. Such a man, be otith on lis his ntitled, e, el world purer and happier, and holds high rank among the benefactors of his race and the friends of God. Therefore, the age greatly needs him, and whoever longs to serve his generation, will strive to rise s nearly as he may to the stature of the
ideal man.-Christian Advocate.

## THE HEART'S GARDEN.

Gotthold ordered a pasture in his garden to be dressed afresh, and plauted with all arieties of vulbs. The work, when finshed, suggested to him the following reflections. Although the gardener has exercised his shill upon this plot of ground, and
given it a form. which adds greatly to its
beauty, nevertheless like other eave it given it a form, which adds greatly to its
beauty, nevertheless like other earth, it
still retains the wildness of its naturewould, ere long, be overgrown with weeds children. No doubt they hare experience a blessed regeneration, have become other men, and by the grace, word and spirit of
their hearenly father, have had their nate sinfuluess continues lurking within repentance and prayer, struggle and holy do not indeerl forsake sin. but sin does not

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CORN FODDER-ITS CARE AND VALUE.

The Farm and Fireside does a good work in calling attention to the waste of an immense amount of forage in it truly says that "good, bright corn fodder is excellent food for cattle and horses." I have fed very little hay for many years, preferring the corn satisfactory results. The world's crop of hay is short this year, and although I fear that extensive shipments to Europe will not be practicable, yet prices in this country should rule fairly good, and there are tens of thousands of farmers, I dare say, who
will contlnue to feed their hay and let the fodder go to waste, when they could utilize the fodder and sell the hay, thereby netting nearly the entire selling price of the latter. I find that ten acres of good corn will produce sufficient stover to supply ten horses and milch cows with all the coarse fodder needed from the first of November to the first of May, even when it is fed long, and consequently at least one third of it is wasted, or rather is converted into manure
wilthout being eaten by stock. When one makes use of some wheat straw, permitting makes use of some wheatstraw, permitting
the horses to eat the chaff and tenderest part of the straw that is used for bedding, oneacre of corn fodder will supply a greater amount of forage than one animal will consume. The character of the food is
superior to that of ordinary timothy or clover hay, being safer for horses, as it is free from dust and is laxative as well as nutritious.
I have heard extensive corn growers ridicule the advice of some farm writers that stover should be housed in the winter-time, pointing at the time to their hundreds of acres of fodder that would indeed require immense storage-room. But I cannot see corn-producer he may be, should not be able corn-producer he may be, should not be able even if scores of other acres of fodder are left standing in the field, and what I now write is based upon my own experience on a farm that grows only about as many acres cows and other cattle on the farm, and those who usually have a greater number of acres of corn than head of stock are com paratively few.

In order to have good stover one must care for it, and not do as the majority of those do who underrate its possibilitiessadly neglect it. The best fodder is gotten by pretty early cutting of corn, yet I would not advise going to any extreme, as this
will cause a loss in weight of the grain. There is a right time to cut corn, just as there is a right time to cut wheat, and for the sake of the fodder the work should not be delayed beyond this. A majority of the ears should have brown husks and be about ripened, but the corn should not stand until all the leaves are dead and becoming bleached. Just as soon as the corn is dry enough to crib, it should be husked out of the shocks, and the fodder tied in bundles. Tarred twine is the best material for the purpose, and the band should be placed a little nearer the butt than the tips of the bundle.

If the weather be dry, the fodder may be left on the ground until it is ready for drawing to the mow or stack, but it is always safer to have three shocks put into
one in the field, drawing the tips of the bundles together with common twine or corn stalks, and let the fodder cure thoroughly, as the sap in the stalk is apt to cause heating and mold in the bottom of the mow unless the curing is well done. A few days of windy weather make it ready posure is harmful. Even some of those who seem to value corn fodder leave it in the field, drawing it in as needed; but I estimate that winter rains cause a loss of
fully one half its value. When mow-room was insufficient for all the fodder I have draivn in all that would be needed from Christmas until spring, and then drawn from the field for use in November and December, but even this degree of neglect leaving hay in the cock for weeks after it should be in the stack.

- Now, it would be easy to saj that all fodder should be cut for stock. Theoretically, this appears to be true, and in practice all farmers who have limited supplies of forage find that cnting pays.
goes farther. Some good farmers keep two
horses or cows on one acre of fodder during the entire feeding seasou, mixing the grain in the cut food. But others, like the writer needed withousing have and when they arrange to feed it handily and convert the refuse into manure, the advantages of cutting may not be equal to the expense and trouble. I believe that the prevalent idea that stover ls unpleasant to handle, both in the manger and the manure, keeps many from saving it; but the fact is that it nced not be troublesome.
If the fodder has been tightly bound into bundles of the proper size, it can be handled with forks easily. Mine is always mowed away like wheat, and in the wiuter these bundles are thrown down upon the fecding-floor with more ease than an equal amount of hay. The feeding-mangcrs are so arranged that a bundle can lie lengthwise in the bottom of each one, the bundle containing enough for two horses. As the picked so closely that nothing but the butts remain. As the mangers are double length thls refuse is easily gathered up in the hands or arms and removed to a basin just outside the door leading from the feedingfloor. If no refuse is allowed to accumulate In the mangers, this work is not unpleasant in any way, and occupies only a few min utes. In the basln the stalks are tramped and leveled by stock $\ln$ winter afternoons and together with the straw that is mixed with them, form a rotten mass by midsummer, ready for the top-dressing of wheat land.
The advantages of fodder over ordinary hay I find to be many. (1) It is a by-product, costlng only the cutting and hauling to the barn. The grain is expected to pay for raising the crop, and the fodder is so much extra gain, while hay is a main product, requiring the use of land for a year. (2)
It is free from dust. By feeding fodder it is free from dust. By feeding fodder
only I have practically cured a horse of a bad cough that seriously impaired its value in its younger days when it was kept on
hay. Fodder is the only fit coarse food for horses that have heaves or are in any way thick-winded, and all horses would be the better for an escape from the dust that is present in the best of hay, timothy clover. (3) It is laxative, while timothy hay is binding. There is no richer and more desirable forage than perfect clover hay, yet the fact that hardly one ton in hundred is perfect, precludes it from comparison wasty for horses. Fodder gives animals a glossy coat of hair, correcting the effects of winter grain feeding. (4) It
is far superior to timothy as a milk-producer. (5) Its manurial value is a considerable item. Prof. Armsby estimates it at $\$ 4.39$ per ton.
I cannot expect those farmers who leave the stover standing in the field until spring to agree with my statements concerning its value. Neither do I know of more uning of wet, frozen and half-rotted fodder to stock, and the cleaning up of the refuse in the mangers. Nor is it possible to make fodder go far in the feeding when it ls done being put under foot. But I have stated the facts only as I have found them in many years of feeding, and as many others have found them. The average farmer with ten
or twenty horses, colts and cows, can proor twenty horses, colts and cows, can pro-
vide shed-room for ten or twenty acres of fodder, and thus enable himself to save all the hay for market if he so desires.
Since writing the foregoing an eastern station bulletin has come to hand, in which I find strong corroboration of my estimate of the value of corn fodder. As a result of analyses and feeding experiments the station comes to the following conclusion: (1) There is more digestible matter contained in the corn fodder from an acre than corn fodder, or stover, from ane acre yields as much digestible matter as two tons o as much hay." It is not claimed that of digestible matter in the claimed that the digestiblo matin, but it is diestis as rich as and like hay, only needing a concentrated grain ration with it to make it perfect

GOOD NEWS FOR CLUB RAISERS.



Among the buying A cow Anhng the quarter of a million readers fly fot on farms. A large numy probably not on farms. A large number of
these, perhaps, were brought up on farms, and although they may have gone to the city years ago, yet there remained the love of the farm, and they kept it up-kept alive their interest and remiuiscence by taking
the farmer's family paper. Distinctively the farmer's family paper. Distinctively
agricultural papers are found in the city agricultural papers are found in the city
home where there is not even a gardeu; home where there is not even a gardeu;
where, apparcntly, there is nothing to suggest agriculture, but their presence is amily Ong, perkist acquisitions in the line luxury of the city man is that of a cow If he was once a farmer, or lived on a farm, he gets to the "cow luxury" sooner than the man who has had no farm expefor him and his family; what a helpful factor she will be in his health and prosperity. But even the man who was
brought up on the farm, and who remembrought up on the farm, and who remem-
bers the "foaming milk-pails," but who eft the farm years ago, may not have suf ficient knowledge to buy a cow wisely. Milk is the prime object, but there are other considerations. The cow is a social and domestic animal; she enjoys the company of other cows, and if the city cow be required to wean her or win her from the remembrance of the many congenial cow souls (?) she left behind, and to make her content with the society of man, and thereor-this must be taken in cow-a fam y cor, that is a cow must be conside tion, that is, a cow must be chosen that has not a nerrous temperament, a cow that
has not a long memory, if there be any way f solecting such a corv
Some persons fume and fret over every ittle disturbance, every thing that is out of the ordinary course, and make themselves and others uncomfortable, if not miserable. nreasonable, contrary without sufficien cause. I have had experience with such cows. They are not worth bothering with anywhere, much less in the city where there will be some privations.
The city family cow will probably not vave unlimited range; she may be tied rotten and left too long without water, ied where she can get no shade, and be subject to a dozen other "irregularities." Yow, under such treatment some cows amily become of very hitlle value a in trouble all the time. Therefore the sow must be selected that will bear all these annoyances with as little friction as possible. It must be borne in mind that the cow, to be the most profitable and satisfactory anywhere, must be in state of absolute rest; she must want nothing, nd be subject to nothing that will disurb; when a cow is in this condition she will be all that she can be to her owner.
late episode, that suggested this
cle, shows that it pays for the inexperienced to consult authority on cows when a cow is to be bought. A wanted to buy a
cow-a family cow-one that could be conent with the comforts or discomforts of a ity hom the comforts or discomforts of a nilkman. Naturally he applied to his to do with buying cows, but it may be ineresting and open some eyes. A had
boasted of his milk and his milkman, for both were good in appearance at least. neatly-dressed man, with a fine horse and rean, resplendent in new paint, go a great way in recommending the milk he
sells. Seeing the milkman occasionally, A had greeted him with, "How's the farm"
or, "I hope you are taking good care
my cow," meaning the cow that produced is milk, and as far as he remembers the replies were satisfactory. But now a
wanted to buy a cow, but the milkman wad none to sell. A was persistent. 'You've brought us rich, yellow milk for several years, and I'd like to get a cow that
gives that kind of milk; I'll pay a good price."
But the milkman declined to sell; said he had none to spare, and appeared disappointed at the man's indifference to his wants,

Where is your farm? I'd like to see your cows, even if I can't buy any of
The mllkman was cornered, and reluctantly disclosed the fact that he had no farm and no coll
"No farm and no cows!" returned A.
"Where do you get your milk that you
Buy it."
Well, where does the farmer live you uy of?"
plied the comes from different farms," re plithering up the reins. A was aroused, and grasping the horse's bridle demanded, "Where do you buy the milk you bring me? I have a right to "I buy from a wholesale dealer on -
"And you never had a farm or cows?"
"Do you know where the milk comes
"Not cxactly."
A thought it was time to have a cow, and proceeded to buy one. He engaged a friend who knew something about cows to go with him to the farm where several from the to be tied in the barn-driven in from the pasture at a certain time for his selection. They found seven cows in the barn. Now, to the practiced eye of the
"cow-man," not one of these cows were suited to the purpose, and it was necessary only to glance at each one to come to this conclusion; a cursory examination in front of the cows. Two were as large as
Texan steers, with wide-branching horns, Texan steers, with wide-branching horns,
and either could jump a six-rail fence and either could jump a six-rail fence
without winking. Going behind the cows without winking. Going behind the cows each one sheered around to look at the visitors through the stanchion. They were all nervous, high-strung, with too much heel, horn and hoof for domestic cows. When the farmer saw that he could not sell his jumpers he said, "Well, go into the pasture and take anything you want I'll turn out these and let them go back to pasture ;" and back they went like cattl in a stampede on the plains. The herd was lying down in the shade when the runners appeared, but most of them got up and left for other parts of the pasture. N wonder the farmer wanted to sell the seven jumpers and runners; their presence in the herd was a positive and continual in jury. But under a tree was a cow that had
not been stampeded by the others. A and his frien stampeded by the others. A and no friend walked around her, but she paid ing the cud. The farmer said "You don" want that cow; she's the slowest, laziest cow disturb her."
"That's the kind of a cow you want," said A's friend. She was a good milker, all marks showed it, and she was bought The farmer was loath to part with her, but he had given his word and kept it. Sh proved to be as the farmer said-a laz cow, slow as a snail-but for all that, and in part on that account, an ideal cow, a
rich milker, docile as a sheep and conrich milker, docile as a sheep and con tented anywhere
After the cow came A made another dis covery. His cow did not give milk as thick and yellow as that brought by hi mikman. The milu was tested and foun of above the average. With the help conclusion that the milk he had bought from the milkman-the man who did not own a farm or a cow, and perhaps never saw either long enough to be acquaintedwas "doctored" milk or water, given "body" and coloring matte
Before a cow is bought in this age of tuberculosis, let a veterinarian examine and also have the milk tested, for there ar oors that give milk, eren on grass and a grain ration, that is little more than water, on which an infant would starve.
And by all means, for a family cow get a lazy cow $\qquad$ George Appleton.

## A SILO CONVERT.

Although I am on record as saying that I would not build a silo if I could otherwise protect my corn from the depredations of vermin, yet last winter has made me seriously consider the evil of having to feed my corn to the cows at a tcmperature far below freezing-so far that a large share of it must be used to keep up the bodily temperature of the animals which consume it, and is therefore so far a
total loss. It is true of course that the heat in the silo is kept up by the slow com-
bustion of the silage itself, but the condi-
tion of the tions of the silo are such that this waste is
much less than in the case of unsiloed dry
fodder

## 1 Cure Dyspepsia, Constipation


-
(O)ut zthistrllamy.


I stood in the great courtfard of Sing Sing
prison two days before the famous escape of prison two days before the famous escape of
Roebl and Pallister. The genial keeper had shown us everything and everybody of the
hundreds nf prisoners save the fatal fire in the shops, the dining-room, the tiny sleepingapartments, the chapel painted by a convict's o me:
There was a little girl-the daughter of an
official of the prison-surrounded by three
official of the prison-surrounded by three
men in stripes. How they kissed her innocent mongst them, with the sunlight playiug around her slender form.
"Strange thing, sir; but these fellows do so love the childreu," said the keeper. "If we
only let them play where the prisoners can hing alive, thes will eatch, tame an The scene in the grim, gaunt prison was a
fascinating one. Asthegreatiron gate clanged was still there, gilded by the April sun-

Truly, the worst among men must love. A error of punishment. For love is stronger In cvery heart, however degraded aud
$\qquad$

IN A HURRY

$\qquad$
$\qquad$

Making the exception that the secoud session of each Congress is too sbort for the deliberate transaction of business, there is a universal agreement that our legislating bodie are in session a sufficient length of time, The trouble is that legislators are needed The trouble is that legislators do not mak good use of their time. The time which they
waste early in their sessions they must do Without at the end.
For this state of things the people are no doubt responsible, as they are for other mis deeds and failures of their representatives. It they exercise due care in the choice of these sponsibility, they may be able to diminish thi crying sort of hasty and ill-considered legisla tion aud appropriation during the fatal las

TOO MUCH THRESHING.
Country boys who are inclined to think that pared with their dails toil in the couble com pared with their daily toil in the country, are
apt to find themselves mistaken when they come to town and subject themselves to the high-pressure system of business establishments. An amusing example of this sort is related by a country exchange.
A farmer's boy went to the city, finding th work at home rather tiresome, and obtained a sitnation in a large "family supply" store
where a "rushing business" was carried on He "took hold" very well, and his employers liked him.
Thes were surprised, however, when he came to them, before he had been two month
"Well, Mr. A, I guess I'll have to get through here next Saturday night."
"Get through?" said his employer. "Why, hat's going wrong?
"Oh, nothing in particular."
"First-rate b but I'll
trikes me. Up ou the farm just how
the threshing-machine come once a year, and
then we threshed for three days, and you'
what, I've been here seven weeks, and you're
threshed every day. I guess I've got enough
He went back to the farm, convinced that
farmer's life has its compensations.-Farmer
Review.
In this issue will be found the advertise-
ment of the Portland Mfo. Co., of Portland,
Mich., who are the manufacturers of Terriffs Mich, who are the manuacturers of Terriffs
Perfect washing machine. The machine
washes everything from the finest linen or Washes everything from the finest linen or
lace, to the heaviest bedclothing, eren to the
dirtiest Wristbands and collars, and all With
equal effect and the ease with Which it is operated is due to the fact that it is operated
by levers, besides the pressure is brought

HOW THEY MAKE INSECT-POWDER.
There are few people who have any idea to That extent the flowers of Chrysanthemum cinerariæfolium are cultirated in Dalmatia, for the sole purpose of making the powder estroser. The whole of the supply of these flowers has ince of Dalmatia and the neighboring provIontenegro. Trieste is the market to which these flowers are brought, aud from whence hey are distributed to the average annual ralue of $\$ 200,000$ to $\$ 250,000$.
The plant is one that is easily cultivated in any kind of soil, and almost in any climate. Within quite recent years it is said to have been introduced into Australia, California, and South Africa, in each of which its cultiation on an- extended scale, for commercial purposes, is contemplated. In the neigh-
borhood of Berlin it is also stated that the plant is grown largely, but up to the present time Dalmatia is the chief source from whence plies. The harvest draw their principal supplies. The harvest commences at the begin he plants had suffere ty plants had sumed much frops the rward to with some anziet - Gardener,

ONE.CENT PIECES IN CALIFORNIA:
Boys and girls in California ought to be happy over the one-cent pieces which have ust been introduced there. Until recently, ent piece, and when a boy wanted toen a fire cent piece,and when a boy wanted to buy candy ecause there was no worth or go without Bananas were sold five for aive anges four for five cents, while grapes were five cents a pound. This sounds very cheap and vers nice. But there are times when the boys and girls want to buy just one banana or ust one orange or a single bunch of grapes; New York Ledger. Putinto a small bottle six tablespoonfuls pure water, one teaspoonful spirits of ammo nia and a half teaspoonful alcohol. Then grandma's "specs," or even auntie's stylish "glasses," need a good cleaning, apply with a soft cloth, giving a final polish with fine brighter.-Housekeeper's Weekly.

THE MODISTES.
Little Dick-"Why do all these dre
Little Dot-"I dess they is modest?
isn't their fault the dresses is folks to know

LOOK HERE! What the Public has to say about the BARKLEY GOODS.





SALT AS A FERTILIZER.
Common salt does not contain plant-foo and is not, correctly speaking, a fertilizer. dissolves plant-food already in the soil, and does this by attracting moisture. It. has a ten hardens compact or cake the soil, jnst as 1 or bins. It should not be used on low, we ground, but rather on loose loam or sandy soil. $t$ acts best on soil enriched by liberal applica tions of stable manure, and should not be used any weed or cultivated plant, and prevent the growth of vegetation until washed out bs rains. tsparagus, celers, onions and cabbage will stand heavier dressings than some othe crops. Salt is said to stiffen the straw of grain crops. This it probably does by setting free the potash already in the soil, or in other Journal.

## THE MISSING LINK.

The hand-organ has often been roted a nui reason that it set up too high a standar Edith had been to church for the first time "And what did rou thint of ito" asked

## mother.

"didn't like the organ very well."
"Tause there wasn't any monkey with it"

## TIME AND MONEY

"Time is money, my dear," he said, hustling "Come off," she replied tartly
plenty of time to go down street and buy

"Oh, Tham, I mean Thammy," said Miss Prister to her bashful lorer, "if yon love me
thay tho, and if you love me and don't like to thay tho, thqueeth my hand," and then
Sammy astonished her by gently whispering
"tho"


## World's Fair

SOUVENIR PLAYING GARDS Views of all Buildings in Colors. A Regular Playing Card Price, by Mail, - - $\quad$ \&o
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four journal. Ligh
enteel work. Earn your ne sure. We pay the largest cash int. Succe: ofred by any publishers. Besure to write to


For 20 consecutive years we have made and sold HARNESS to Dealers, BUI NOW we are selling direct to the

## Selectiouti.

## воон

On afternoons, wh
splendid nap,
splendid nap,
and sits, like any,
nurse's lap,
In this pecullar
my face
cautlously
the place to vlew,
And you should hear him laugh and crow when I say "Booh !"
Sometlmes that rascal tries to make belleve that he is scared
And, really, when I first began he stared and stared and stared;
And then his oue,
Tll mama and the
But now what does
1spplng baby do
say "Booh!"
He laughs and kicks
turous glee, aud then
In shrill, despotic treble, blds me "do it all aden."

and I itor , , course I do lt ; for, as hls progen | itor, |
| :---: |

is such pretty, pleasant play as thls that am for. it is, oh, such fun! and I am sure that shall rue
time whe
time when we are both too old to play the game of "Booh ""

Iis an gig is attained by women oftener than by men. Tissot, with doubtful gallantry, accounts for this by declaring that the large amount of
talking for which women are famous, is a very healthly exercise and promotes circulation of the blood without over-
exerting the organs. The true reason, probably, lies in the quieter and more regular life usually led by women, whose nervous system and brains are consequent those of men.
One of the most famous female centenarians, was the Countess of Desmond Who and died in the reign of James $I_{s}$ from the effects of an accident. The wonderful woman found herself at the age of one hundred so lively and strong as to be able
to take part in a dance, and when she was one hundred and forty she traveled all the way from Bristol to London in order affairs.
Lady Desmond is, however, quite thrown into the shade by a Frenchwoman, Marie Prion, who died in St. Colombe in June, 1838, it is said, at the wonderful age of one of her life she lived exclusively on goat's milk and cheese。 Although her body was so shrunken that she weighed only fortysix pounds, she retained all her mental faculties to the last.
It is an extraordinary but incontestable fact that some women, at the age when most people die, undergo a sort of natural wrinkles disappear from the skin, and sight and hearing reacquire their former sharpness. A Marquise de Mirabeau is an example of this rare and remarkable
phenomenon. She died at the age of phenomenon. She died at the age of
eighty-six, but a few years before her eighty-six, but a few years before her
death she became in appearance quite death she became in appearance quite
young again. The same change happened to a nun of the name of Marguerite Verdur, who, at the age of sixty-two, lost her Wrinkles, regained her sight and grew
several new teeth. When she died ten years later, her appearance was almost that of a young girl.

## fLUIDS WITH MEALS.

The arguments presented by many writers seem to prove that the moderate taking of fluids with the food at meals is not
without benefit. But the importance of the thorough mastication of food before it is presented to the stomach must not be
overlooked. If this is interfered with in any way by the use of liquids, we must promptly prohibit their indulgence.
Fluids may be taken ad libitum during meals by those whose digestive powers in mind that the strongest stomach may be abused too far, while those whose stomachs are already unequal to a severe strain tity of fluids imbibed with the food.

The saliva is the best lubricator for the
food while it is in the mouth, both because food while it is in the mouth, both because its alkalinity serves to stimulate a copious flow of the acid secretion of the stomach.
Any habit, therefore, which permits the entrance of food into the stomach before it is thoroughly incorporated with saliva, must be pronounced pernicious in the extreme.
If we canuot afford the time necessary for masticating our food properly and incorporating it thoroughly with saliva, it would be better to take nothing but broths and similar foods. The use of water and other liquids as lubricators is not to be tolerated.
On the other hand, if we bear iu mind the whole mechanism of digestion, it will readily be seen that, in cases of weakness or want of toue on the part of the inuscles of the stomach, when every part of the food cannot be properly presented to the action of the digestive juices, the introduction into the stomach of a moderate amount of water may be of no slight benefit. The mass of food will becoine more pliable, and so more easily operated upon by the weakened muscles.-Youth's Companion.

## AMERICAN SHIP.BUILDING.

It would not be at all surprisiug if with in a few years the United States should wrest from Great Britain the greatest of that nation's manufacturing privilegesthe building of ships for powers that mus have them, but cannot construct for them selves. From the day when ironclads became governmental necessities, the smaller countries have purchased their ships of war and their armament from England, but it is only reasonable to suppose that the monopoly will soon be broken. Again and again has it boen demonstrated that American material, shaped by And American material, shaped by American ingenuity, has no superior when it appears as the finished product, and to this gratifying fact the eyes of intending purchasers cannot long be closed. Every ship jul our navy testifies to the excellence of American
handicraft, and such solid evidence will handicraft, and such solid evidence will surely not be disregarded. No nation can produce better guns than ours in the important matter of armor-plate we are far in advance of all competition, while American engines have outsped the best foreign mechanism ever put in any cruiser. With these conditions unshakenly established, but little time is likely to elapse before the Clyde, the Tyne, the Thames, the Mersey, the Severn and Milford Haven will occupy minor positions in the marts of shipping, while the Delaware, the Chesshipping, while the Delaware, the Chesapeake and a score of other waters within
our national boundaries will become su. premely conspicuous.-Washington Star.

## PLUCK-A CAPITAL FABLE.

The hopelessness of any one's accom. plishing anything without pluck is illuspated by an old East Indian fable. A magician was kept in such constant ress by its fear of a cat, that the maricistaking pity on it, turned it into a cat itself. Immediately it began to suffer from its ear of a dog, so the magician turned it nto a dog. Then it began to sufter from ear of a tiger, and the magician turned it into a tiger. Then it began to suffer from its fear of huntsmen, and the magician, in disgust, said, "Be a mouse again. As you
have only'the heart of a mouse, it is im. possible to help you by giving you the body of a nobler animall" And the poos creature again became a mouse.
It is the same with a mouse-hearted man. He may be clothed with the powers, and placed in the position of brave men, but he will always act like a mouse; and public opinion is usually the great magician that finally says to such a persou, "Go back to your obscurity again. You have only the heart of a mouse, and it is useless to try to make a lion of you!"

## THE WEDDING.FINGER

How many women who fondly love the golden symbol of their wedding vow, know why they wear it on the third finger of the left hand? That particular digit was chosen because it was believed by the Egyptians to be connected by a slender nerve with the heart itself. And these ancient worshipers of Isis held this finger sacred to Apollo and the sun, and therefore gold was the metal chosen for the ring.
The biggest cash commissions ever given by any paper. Write al once for "Special Cash Terms
$\mathrm{O}^{\mathrm{H}}$ HIO STATE UNIVERSITY COLUMBUS,
OHIO.
Education in Agriculture. Instruction in Soils, TYilige stonk. Rision
 FOREST DESTRUCTION.
forests penalty of destroying a country's in the Kew Bulletin. These by article excellent reasons for asserting that the parched desert lying between the Nile and
the Red sea was once a pleasant arboreal laud. Oue argument is that of the uames arid descrt by the original Arab invaders. Most of these names signify trees or groves, or embody reference or some kind
to a green and vegetous region. Subsequeut generations of Arabs and their camels, the latter voracious as the ostrich
in appetite and indiscriminate as the Harlem goat in satisfying it, have entirely destroyed all traces of this vegetation.
The result is that rain is no longer attracted The result is that rain is no longer attracted to the region. The only storm is the
furnace blast of the simoom, and the country is a parched, desert waste. The same desolating process is taking place in
Russia to-day. "The ruthless forest deRussia to-day.
struction, which has been going on for a loug time, has had a serious effect in reducing the average rainfall. In vas regions, as, for instance, on the black soil, there is hardly a tree to be seen, and the
consequence is that the underground consequence is that the underground rivulets have disappeared. The forests also
broke the force of the fierce east desert winds. Now these winds, piercingly cold in winter and scorchingly hot in summer, burst with full fury on the plains. Their blasts are capable of withering the corn in a few days, and with them come sandmanent deserts."

## ENOUGH LAND LEFT

There is now little free public land, desirable for ordinary agriculture, left to the eastward of the Missouri river. The vacant land which remains open to settle mostly rich but arid land, upon which a considerable amount of money must b expended for irrigati
rendered productive.
But does this mean that the opportunity " "get a farm" no longer remains to the young American who prefers a country life? By no means.
The southern states and many of the hich states contain large tracts of land which may be had so cheaply that, taking
into account the greater convenience of access and nearness of markets, it is practically as cheap as distant homestead or pre-emption land.
No industrious man, even if he has been able to lay by but very littl money, need consider himself" shut out from the pos session of a farm.
If the era of the development of entirely unsettled virgin land may be said to have passed, the young and intelligent American improved agricultural methods, may hope improved agricultural methods, may hope use of the land that has b en passed by. Let our young men stay upon the land they have, or possess themselves of land easily within their reach, in the eastern central and southern states. Iudependence and health they may have there, and beyond a doubt prosperity.: if they have Youth's Companion.

TIDAL FORCES.
In all parts of the seaboard the world over, where the tides rise high, the conversome day be realized on a scale power will make manufactories, to a great extent, independent of coal. The solar heat gives us the rainfall which forms the great lakes and renders Niagara an unharnessed gian of power. Niagara has partially been util-
ized, and will be to a much greater extent. Solar and lunar gravitation, quite indepen dent of heat, gives us the tides, and these rise in places to twenty, forty and even
seventy feet. To make this tremendous forco available for turbines and conversion into electricity, all that is necessary is to form hagh reservoirs of thousands of acres The tide would fill these at high water, and at low water the reservoirs could be run off at strong pressure and made to
operate turbifes. Power thus obtained could be transmitted great distances. The cheapness and constancy.-San Francisco oall.

Manter
 free if youname this paper. Theo. W. Palime, Pres.

## 

## 

## A PIANO FREE


LADY WANTED:
CONSUMPTION SURELY CURED.

To IHE EDINR--Please inform your readers that I have a positive remedy for the above named disease. By its timely uso thousands copeless cases have been permanently

cured. I shall be glad to send two bottles of my remedy free to any of have consumption if they will send me their express and post office address. Respectfully,

Do you want Work, at Good Pay? Agents for this paper are given a Big Cash Commission. If you want to make money, write to-day for our special terms.

## he never drove a screw.

In the halcyon days before the conquest of the industrial world by the "hustler," no carpenter who had occasion to screw
two pieces of wood together thought of hammeriug in the screw nearly up to the head and breaking and destroying the tenacity of the wood around it and then sending it home with a half turn or so; but he carefully bored a hole a size smaller than the screw, then countersunk the opening and screwed the screw all the way through
solid wood. Careful provision was also made for the undoing of the work without damage, in case itshould become necessary. In fact, with some workmen these things were religious duties. An old English carpenter, on his death-bed, when asked if he were prepared to die, answered: "Why not? I've worked at my trade fifty years
and never druv a screw without greasin'

## AN INTERESTING INVENTION.

A floating rope has been invented. According to the industrial world, the inven-
tor claims that his floating rope of one tor claims that his floating rope of one inch thickness will stand a strain of more than one thousand pounds. The rope con-
sists of a core of small, round corks about sists of a core of small, round corks aboud three quarters of an inch long, placed end f cotton twine. This is surrounded by another layer of strong cotton twine braided in heary strands, which is about a quarter of an inch thick. The rope is very soft and pliable, and even after being tied into a sniall knot will return to its original shape. It can be used in life lines on light rafts, and as a heaving-line to tie hawsers with.
Smils.

A FEW REASONS WHY A SHIP IS CALLED SHE. She is sometimes attached to a buos. It costs so much for her rigging.
She gets along best twheu she has a mate, The swells of the oceau surround I'd explained to him over and often How temper and tumult to soften, And naughtr, wass to flee.
He listened mute and quiet,
With earnest eves of blue, Then, "I don't fink Till try it. -D. Lummis, in Kate Field's Trashington. REASONS FOR CHURCH-GOING. Some go to church to say their prayers,
And some go to show off their clothes; But tramps go hecause the parks are cold
And the steam-pipes warm up their toes.
A GOoD old WAY.
The way to get young folks to churchEmplos a pastor fair and young;
He'll surely draw the sweet girls out Hell surely draw the sweet girls out,
And then, of course, the hors will come.

DHIS INHERITANCE. requade, "since the grorling to Mr ness has prospered so foine wid Luvin' a crist an'a a monny hgrum Mequade, dublously; "an'shure, where would oi he afther foindin' 'em?"
a tasty man," said Mr. Hurlihy, with condea Q if oi onct put me moind to it; hut a erist ain't quite so simple. It's got t' be an animile
or a figger ar some sort, that'll have a riference to the fayther an' grandfayther av yez;
an' sometimes there's a couple ar wurruds goes wid it.".
"Phwate
Mcquade.
"A motter, mau, settin' out the principles av
rure family an' ancisthors," replied Mr. Hur Sure famity an' ancisthors," replied Mr. Hur-
lihy, with a comprehensive wave of the
hands "No nade for yez to say anny more," "Oi'm thinkin, Dinnis Mpequade'll have
crist wid the best av 'em if that's phwat wanted."
"A hin," said Mr. Mcouade with decision,
drawing an imaginary hiped in the air with a sturdy forefinger; "ca hin, wid a hroight eye on
her, her head hint formd, an' her ligs jist
 fayther manny's the toime, when worruk was
slow comin', an' fay ther was loik to fale dissay; an' good advoice it was. Oi'm thankin'
there ain't manny c'd have a hetther crist than the MeQuade's?"
Although Mr. MeQuade was subsequently
induced to forego the "motter" which had so induced to forego the "motter", "hich had so
influenced the fortunes of his family, the
"hin" in cheerful hlues and reds soon adorned
the Mrauade stationery, to the satisfaction of the entire family, who regarded the "monnygrum" as hut a tempered success compared
with it.
you can't catch a yankee boy.
A Buffalo paper tells a story of a New Hamptraveling in the country at Stoddard, where it
is all rocks and howlders, abandoned farms is all rocks and howlders, abandoned farms
and farin-houses going to ruin. He saw a hoy of twelve or fourteen hoeing in a corn-field ou
the side of what would he pasture-land on any one else's farm. The corn was poor--looking.
The traveler reined in his horse and spoke to the boy. He said to him:

corn." "Well, it looks yellow, poor and thin." "Well, we planted yellow corn." "

"Wenl, said the traveler, "I donnt mean that.
It don't look as if sou would get more than
half a crop."
"I don't expect to. I planted it on shares,"

## his great ambition.

 Old gentleman-"What do you hope to he Sold boy-"I want ter te a circus actor."old gentleman-"Well, I declare! Why do
fou want to be circua ctor?"
Smal to "So Smanl boy-"So I won't have to craml under
the tent." GOCD NEWS FOR ASTHMATICS.

## SNAKE STORY AHEAD. "I got my start in a queer way," remarked

 man of evident wealth, as the drummer finished a story. "How was that?" iuquired the drummer.
"Twenty-five jears ago," continued th successful citizen, "I was traveling with
side-show, and the husincss went to pieces leaving me its creditor for wages to the
amount of one hundred dollars and no asset
hut the stock in trade. This was divided, and my share was an anaconda ahont eighteen fee long and as hig around as my hody. It wasn' fat, though, I thiuk, for air was ahout the
only thing it had to live on for several weeks before the failure. Be that as it may, I took
the snake and started for St. Louis, where I proposed to exhihit it. I had him in a hox in
the haggage-car, and somehow he got out and started through the train on an exploring e.. pedition. Just as he was crossing the plat-
form of the second and third coaches, the coupliugs came loose, and there's no telling That wonld have bappened, for we were gohadn't twisted himself around the hreak-rod and hung on. It was a big strain on him, but hold that train together for two miles, and no the rear coaches. Thes thought so anyhoo
and made me up a purse of five hundred dollars."
The drummer coughed.
"What became of the anaconda?" he in-
"He gave me my start," replied the narrator You see, the fire hundred dollars wasn't a
drop in the hucket; hut when we got the snake
loose the strain on him had stretched him out with a snake that no other exhibltor could hold a candle to, and if you don't believe me
I can show rou that snake stnffed ing up in my hall at Denver." The drumm
"YYo ought to sell it for a telegraph pole,"
he said regroach fulls," and went Free Press.
 CARDS FOR 1893. 480 Huwuouz ias nime 2 2ts


 OUR DIP Veedie Compass if guarated thi




 $\$ 9$ S525 $2=$ $A G E D T S^{\text {abe }} \frac{\text { Mativg big money }}{\text { sELLING ote }}$ - STEEL FIBE PROOF SECELITTY BEXES.

## NOVELTIES ACENTS

 A GENS WANTED ON SALARY


## AWOMAN'S SUCCESS


LADIE ${ }^{\text {jow }}$ ch as mailing circulars, ad A sweet-faced maiden lady who still ha
hopes, sat heside a hright little fellow in an el hopes, sat heside a hright little fellow in an el overtures to his pleased parents by compli
menting the hoy on hisaccomplishments. She had asked him a good many questions about al
most everything she could think of as the speeded toward Harlem. To these the little iiar to children.
"So you are going to the park this afternoon? Do you love the park?"
"Oh, yes," he replied; then added after
pause, "hut papa don't like it."
"No? And why don't he like it
"I-I-papa says it hores him, and he don't
like it."
People in the vicinity smiled at the father's expense, and the rnalden lady appeared to he
greatly amused. The child saw this and fol-
"Papa didn't want to come, hut mama said-" What mama said was cut short by a vigorous shake from that individual, who had all along regarded the strange lady with disapproval,
and now frowned. The passengers looked dIs. appointed. The maiden lady looked a trifle "How old are you?" she finally inquired, "Ith her sweetest smile
"I'm five; how old are you?"
Mama smiled this time, and the gentlemen opposite elevated their newspapers to conceal
their agitation. The maiden lady gazed out of trying to figure it up; hut she didn't answer
the child's question.

## CASH TALKS

And that is why our agents stay with us, they
make the cash. We want agents every, where Men, Women, boys and girls, all who waut
make money. Write to-day to the publisher of this journal for "Special Cash Terms to
Club Raisers."

WORK

## "

## . $=$

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every family snliscribes. If yon want profitahle


## SILVER COINED

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get ap big clubs for our paper than for any happy. Ad Aress FARM AND FIRESIDE, Phil
hadeh mill 1 WANTED MEETIS To Sell
"SCENES FROM EVERY LAND," THE BOOK OF THE CENTURY size 11ty by 14t/ incles. Introdncticn by
GEN. LEW. WALLACE, antior of "Ben-Hur.'



O. Q. (Who has oeen to a convivial gathering)-"Mry
dear, please bring me a glass of water." (Removes
(See nest 2 chapters on page 20 .

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WHate


Tablear No. 2. Love's last adieu
O. G.-"Why my dear, whatever is the matter?",
Angelina-"Why, pa, you have just fallen over the Angelina-"Why, pa, you have just fanlen over
easy-chair and upset the scuttle. Did you ever!"
O. G.."Bless me ! I thought I had seen a ghost. The last cigar or some shing mint have been a littie too
strong for my head."

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## urrent omment.

T
He Wilson bill, providing for the repeal of such provisions of the act of 1030 as relate to the purchase of siler bulion, passed the house by a majority much larger than expected. For this house bill the senate substituted the bill now under consideration, known as the Voorhees bill. In so far as the stoppage of the purchase of silver bulliou is concerned, the two bills are identical in-language. The Wrison hill coucludes with the folipwing iu any manner affect the legal tender uality of the standard silver dollars here tofore coined; and the faith and credit of the United States are hereby pledged to maintain the parity of the standard gold ind silver coins of the United states ation may be established by law:.
The Voorhees, or senate, bill adds to repeal the following declaration: "And it is hereby declared to be the policy of the United States to continue the use of both yold and silver as standard money, and to coin both gold and silver into money of equal intrinsic and exchangeable value, such equality to be secured through inter-
national agreement, or by such safeguards of legislation as will insure the maintenance of the parity in value of the coins of the two metals, and the equal power of every dollar at all times in the markets and in the payment of debts; and it is hereby further declared that the efforts of the government should be steadily directed to the establishment of such a safe system of bimetalism as will maintain at all times the equal power of every dollar coined or and in the payment of debts."
The house bill provides for the use of the silver heretofore purchased or coined and its maintenance at par with gold. In addition to this, the senate bill declares in favor of the government continuing its efforts to establish bimetalism and the fur-
ther use of silver as money under future legislation.
The passage of a repeal bill by the senate only a question of time, the length of which depends on how much filibustering by a few senators will be permitted. The senate is liable to waken up any day to the fact that filibustering itself is one of tho most serious breaches of senatorial courlesy that can be committed.
A repeal act of Congress will place the United States in a position similar to that of France, the principal nation of the Latin Union. The Latin Union was formed in 1865 for the purpose of maintaining and regulating a uniform interchangeable coinage of gold and silver. But the Latin Union suspended the unlimited coinage of silver fifteen years ago, to avoid being driven to the single silver standard. Al-
though no longer coining silver, the nations composing the Latin Union use both gold and silver as money, maintaining the parity of the coins of the two metals circulation about 800 . circulation about $: 800,000,000$ or gold and is now a bimetallic natiou ou a single standard. And as will be seen from the clause appended to the two bills now pending in Congress, this will be the position of the United States if either bill becomes a law

WHat is a "tariff for revenue only?" It is a system of indirect taxes laid for the sole purpose of raising revenue for the uses of the government. It is therefore properly made up of duties ou such goods only as are not produced at home. Such duties will be paid withou affecting the prices of domestic goods.
A protective tariff, on the other-hand, is properly made up of duties on such foreign goods as compete with those produced at home, and by affecting the price of the and crowded out of the markets.
Under a protective tariff, noll-competing goods are on tho free list; under a revenue tariff, competing goods are on the free list. These are the definitions giveu by politin the making of tariff laws discussion and in the making of tariff laws they are fre-
quently ignored. For example, the New quently ignored. For example, the New
York Sun is now advocating as a tariff for revenue only the laying of a uniform rate of duty on all imports. That is, if our imports amount to $\$ 800,000,000$ annually, and the government needs $\$ 200,000,000$, the best way to raise this revenue is to place a duty of 25 per cent ad valorem on every article imported.
As a plan for raising revenue this has its merits. It is simple aud sure. But strictly, it is not a tariff for revenue only. It is a hybrid. If adopted, home products would be protected by the 25 per ceut or 30 per cent duty against competing foreign products. It may be called a revenue tariff with incidental protection, but it is not a tariff for revenue only.
$E^{1}$
oss a firm manufacturing butterine we have received the following decriptive circular
Butterine, or oleomargariuc, as it is technically called, has for several years been
extensively used in the leading hotels, restan rants and private families of Europe and America, and is so favorably considered that a statement of the methoo of its manufacture and the materials of which it is composed
cannot fail to interest. Butterine is compose
aeutral lard and oleo-oil.
Elgln creamery butter and butter made at the factory daily arc the milk products used in butterine.
American cotton-seed. It is a pure, nutritious vegetable oil, which is used in small quantities to soften the texture of butterine.
Neutral lard is pure billeal
Neutral lard is purc, chilled leat lard,
cooked at a low temperature, and is then put cooked at a low temperature, and is then put
into a bath of pure, cold water for about fortyeight hours, which removes all flavor, leaving a perfectly neutral material.
Oleo-oil is made from the choicest fat of
beef cattle, chilled in ice-water, then melted beef calle, chilled in ice-water, then melted pressed a perfectly soluble oir known as oleo-
oil, which is the only beef product used 1 n oil, which
butterine.
The above-named ingredients, when properly combined, salted and worked the same as
butter, form what is Which is one of the purest and most wholesome articles of food in general use.
Our factory is always
Our factory is always open for public in-
spection, and you are cordially invited to call and see butterine manufactured.
Assuming that butterine is always what is here stated to be-a compound of the
claim that it is one of the most wholesome articles of food cannot stand. Pure butter melts at the normal temperature of the omad, is oasiy digested, aid is most holesome food. The haf-cooked ard, suet of digestion and not wholesome. As food, of digestion and not wholesome. As food,
the best butterine is far inferior to good
butter. butterine is far inferior to goo
Butterine, however, is not always made or compounded as described in this circular. cheapest, not from the cleanest source. cheapest, not from the cleanest source. remetinges tanks of the country slaughterhouse, to the cholera hog or to the scav nger's collection. The "refining" process may hide the origin, but it does not make a "neutral" wholesome or desirable as food.
Even at its best, butterine, however Even at its best, butterine, however turns and an the time $i$ eaches the an arrant fraud by travels thereis a missing-syllable contest. In the factory butterine is mixed with butter, colored and named to imitate butter, put up in butter packages and advertised with Jersey-cow hromos, in order that it may be palme ff on consumers as genuin

0
E of the falsehoods torn to tatters during the discussion of the repeal bills in Congress is the widely-cirulated statement that the passage of the ct of 1873 was secured by bribery, and that demonetized
In April, 1870, the secretary of the treasury sent to the chairman of the senate uance committee a bill for the revision of all laws relating to coinage. One of the provisions of this bill was the suspension of the coinage of silver dollars. In eport accompanying the bill, prepared by the deputy comptroller of the currency, the reason given for this provision was that the silver dollar had long ceased to be
a coin of circulation because its bullion coin of circulation because its bue. Thi bill was printed and widely distributed. The following December the bill was taken up for discussion in the senate, and was passed January 9, 1871. On the niueteenth of February following it was reported to the house by the chairman of the coinage ommittee, with an amendment. It was committee. In March following it was gain introduced and referred back to the committee. In January, 1872, it was again In April and May following it was disussed at length in the house, and an amendment was adopted retaining the silver dollar as subsidiary coinage and reducing its weight from $4121 / 2$ grains to 384 grains. This amended bill passed the house in May, 1872. The senate ordered it printed and referred to the finance committee. The committee reported it back to the senate in December following. In January, 1873 , it was again taken up for amate in the senate, and after the a 384 -grain silver dollar as subsidiary coin had been stricken oul, ittee reporte in favor of the senate bill, making no provision for the coinage of the silver dollar and this report was accepted and the bill became a law in February, 1873.
In the debates in ('ongress, covering nearly three years in time and occupying one hundred and forty columns in the Globe the silver question was openly and fairly considercd.

Bring the past few weeks there hals cial affairs. Confidence is being ed money is returning from its hiding-places to the channels of trade interest rates are falling, and the great credit panic of 1893 seems to be ended. The extent of the depression in business, however, is so great that considerable time dition as it was a few months ago. Mauufacturing in nearly every line is limite to the actual daily necessities of trade which are now very much curtailed. Several hundred thousand wage-earners are out of employment. Reduction in wages of those still employed is au every-day occurreuce. The lessened purchasing ability of wage-earners affects every line Jf retail trade. What hurts one hurts all. Regarding the outlook, Pricc Current remarks: "As to general business, it has received a sctback that caunot be restored at once, but there is every reason to belier that it will recuperate more rapidly than seemed possible a few weeks ago. Already many industrial establishments hav resumed operations, and this is giving employment to labor, but there are so many yet idle that many who are dependent upon their current earnings lack the wheremithal to buy the necessities of life and the demand for food and clothing is so much restricted as to make trade dull, aud this will keep business at a low ebb for a long time; but it has started upon confident that it will keep on in tha direction.'

IHE Cherokee Outlet, containing about six million acres, has been thrown open to settlement, and the last large
of public land is passing into the body of public land is passing into the
hands of a multitude of individual owners. The tide of settlers rollin widard must hereafter be divided into thousands of little streams. After the final distribution of the goverument's domain, there will come a revival of land improvement all over the country. In the great West there are lands to be reclaimed by irrigation. In the East aud South there are lands to be re claimed by drainage. In the future the area of arable lands must be enlarged by land improvement, instead of additions from the public domain.

$\bigcirc$of the most striking lessons shown by the panic is the intimate
relation between capital and lation The contraction of credit and the withdrawal of capital from business threw labor out of employment. Althongh there may be quarrels between employers and employees, there can be no war between capital and labor. Their interests are mutual.' To strike down capital is to strike dowu labor. The blow aimed at capital falls ou laloor. A clcar recognition of this fact will tend toward the arbitratiou and peaceful settlement of all differ ences that may arise between employers and employees.

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## Oitr fiarm.

## handling and storing potatoes

Iand not from where many thou sands of bushels of potatoes are animproved modern methods of culture are practiced by using high-priced when the crops are grown they are then handled and stored by the same laborious process that our fathere used. Only last year I.saw a fiekd of inirty acres being picked up in baskets and prled in heaps in the field, to again be picked up and mored
at some future time. The grower thought at some future time. The grower thought
this way easier than to tote them down cellar and up again, and possibly it was, if the potatoes had been dumped into wagonboxes and shoreled into baskets again at the cellar; but this was not necessary in this age of the world
This man could hare purchased ninety slatted bushel boxes, two in each fifteen put together, for nine dollars; the other seventy-eight would hare been knocked the boxes with nails that would be sent with them would probably not exceed two days' work, and this with the freight would not hare made the entire cost more than
fifteen dollars. fifteen dollars.
With this number of boxes the crop of four thousand bushels could have been
transferred to the cellar with one handling, and there would have been no covering of fifty heaps in the field with haulm and stram, to say nothing of the later corering with earth, if any accident prevented marketing before winter. Most cellars are
about as inconrenient for receiving and discharging heary products as is the hold


Fig. 1.
of a ship; more so, in fact, for in the ship there are openings immediately above the cargo that permit a perpendicular hoist, or cation of anything of the kind.
I hare an ingenious neighbor who raises from one to two thousand bushels of potatoes annually, and he has devised a railfrom the wagon to the cellar bottom. It consists of three by four inch scantling framed together at intervals of three or four feet, with broad slats ladder fashion. On this track mores a car, as shown in Fig.

1. The car is sisteen inclies wide and 1. The car is sixteen inclies wide and
five feet long, and has a cleat two inches
high nailed across the lower end on the top side, to prevent the slipping of the boxes at the other end is a hook or ring in which
is tied a rope as long as the track. A knot in the rope near where it is tied to the car serves to hold the car at the top of the track by slipping the rope betreen two pegs, close together at the top of the track While boxes are being placed on the car. Sections of the track sufficiently long to
reach from the level of the wagon-box to reach from the level of the magon-box to
the cellar bottom are placed on supporto, the cellar bottom are placed on supports, wagon, loaded with boxes of potatoes, i backed up to the track, and sereral boxes set upon the car and allowed to de scend by gravity to the cellar, where an scend $y$ gravity to the cellar, where an
assistant unloads them. When all are unloaded, which takes only a rery short unloaded, which takes only a rery short
time, the "empties" are drawn up, four or fime, the empties" are dime, and the wagon driven awar for another load, which is being picked up for another laad, whe is being picked up by other help in the field.
My neighbor has no labor-saving derice as far as I know for getting his potatoes up to the wagon-box uniess he uses the track, and I have never seen this done, m 5 im pression being that the bother of setting it up is too great for single loads. Where large quantities of potatoes are to be stored in a cellar beneath a building for a series of rears, it would easily par to grade down an approach so that a magon could be represents the idea. The bottom of the slope need not be more than six feet wide and as a cellar is not often more than fire and one half feet below the earth. surface
around the foundation, and slopes more or less rapidly away from the house, it does no require the remoral of a large amount. of
earth in many cases to get a slope of one foot in seren, which is easier than many hills over which loads are drawn. In the potato-growing sections there are little rillages near railroad stations where


Fig. 2.
erery cellar is filled to its fullest capacity with potatoes, and in some cases where cellars hare been built under large store and yet no rapid means of getting them out has been prorided. In such cases extending the cellar outside the building a few feet at some point, and erecting a sort of port bull wheel, would gire a tolcrable means of getting out the potatoes, as the whee would lift them from the cellar bottom level onto a platform level with the wagonbox.
This would be much more satisfactory than carrying them up-stairs by main strength. A bull-wheel is a large wheel eight or ten feet in diameter, on a long wheel in eight inches in diameter. The hold a large endless rope, the friction of Which turns the wheel as the rope is pulled down upon. A small rope is wound upon the axle by this means, which lifts anything within the capacity of the combination. Bull-wheels are in general use in
warehouses in cities where power elerators are not employed.
House cellars, as are ordinarily con structed, are so inconvenient for getting heave, bulks regetables, that I wonder farmers do not construct outdoor cellars, that can be reached on a level to use in-
stead. The labor connected with burying stead. The labor connected with burying is nearly or quite as much as the work of constructing a cellar that would contain them. Where the country is hill,, it is a most simple matter to construct one access. They are built exactly like a side-hill vault by excarating a hole in the side of a hill at its base and walling it up, making the front plain or ornamental as one can afford. The roof timbers must be exceptionally strong and of sound tim.
ber, to hold the weight of earth on top, ber, to hold the weight of earth on top,
and if the room is wide there must be supporting posts.
Washington, I worked as a carpenter near
eral weeks, and our work was getting out and framing timber for bomb-proofs and magazines for the earthworks around
Georgetown. The walls wereheavy framed Georgetown. The walls were heavy framed
timbers, with sills and plates. For the roof timbers we took heary logs, eighteen or twenty inches in diameter, and turning them crowning side up, hewed off each side; then we turned them down and lining out what would be the bottom side so it would be square, hewred about two feet at each end, these ends resting on the plates. After corering with these heary timbers, placed close together, side by side, imperrious clay was wheeled on, and rammed down with heary rammers, such as are used to ram parements: From two to three feet of clay was put on, and it nerer wet through, the inside being onstantly dry, and powder was safely ept an indefinite time. The roof of an abore-ground cellar if built of sound oak or chestnut timber in the manner
described should last eighteen or twenty years.
The tralls had best be made of such tones as hare been gathered in the fields. Fig. 3 is a front view of a sidehill cellar, though for that matter the manner of construction is exactly similar whether it is built on lerel ground or in a hill. The dotted lines shor the inide walls, and the slope of the front wall on the left is not shown. It will be noticed that the door is at one side. This is better han to hare a door in the center, either for a cellar or a granary, the bins being all on one side. This gives a more roomy passageway, which can all be filled after ward if desired. Fig. 4 shows manner of
hewing roof timbers. L. B. Pierce.

## "THE MILK QUESTION."

The milk question is demanding more ttention erery day. People hare begun ehat it is most important, and life or death. Where milk heretofore was accepted and used without suspicion, there is now a questioning of it even if it be apparently abore suspicion. And what is the disease among cattle known as disease among cattle known as sumption in man, and what appears to be increasing carelessness and Foremple: A child greme For example. Achild grew poorer day after day, drindled to a skelConsumption did not come from the parents, and if it had would not have shown itself thus early probably, although on this point doctors disagree. It was discovered that the milk giren the child came from a tuberculous cow. Milk from this cow was fed to pigs and cats and thes became tuberculous, or consumptire ing be consumptive's cough and show. were diseased.
No other deaths from the use of the were none, why did the one referred to contract the disease? Because the system of the child was in a condition to receive the germ of disease and to nourish it.
Some persons might use tuberculous milk for sears and not suffer in consequence while others might be affected at once, or any person might be susceptible to the disease at some time of life; that is to say, to-day, owing to rigorous constitution, the germ of tuberculosis in milk or meat may have no effect, while to-morrow, owing to an impaired constitution or exh
Another case: A child fed on milk ex clusirely became so poor in flesh that its life was considered in danger, and yet the child's appetite was good and it ate raven ously. The milk was examined and found o contain only a rery smail per cent of
fat. To the eighty-eight per cent of water fat. To the eighty-eight per cent of water
found in standard milk, the farmer or milkman had added more, and as a result the child was starring and. Jet eating voraciously. As soon as the milk was changed, the child began to thrive

Again, milk is a bearer of other diseases besides tuberculosis. In a city trphoid fever, about fifty cases, appeared. The milk came from to supply the families in which the fercr appeared. But the greater danger from milk at the present time is from cows affected with tuberculosis. This disease is known to be prevalent in sereral states (some sar in all states), as common as consumption in man, and it is known also, demonstrated again and again,
imal may produce tuberculosis, or con In one state man
and is sprate prevails little if f cour anything, is done to check it, and milk ise, a great quantity of diseased mus going to market, and the result In othe a great increase in consumption appointed, affected to be killed. From German comes the report that twenty-fire per cent of the cattle are tuberculous.
In this country no statistics are arailable, but there is one thing that shows that

tuberculosis is widespread and gaining ground. Statisties in some states show a great increase in mortality from consump ion, an alarming increase; and high au thority has at last begun to look for the cause of much of it in milk from tubercuous coms. And it is found, and the dis coveries are startling. Of course, it is eas to account for the presence of consumption Without charging it to tuberculosis, bu it has been traced honne to this disease i cattle, and there is no question about it. The remedy, or rather the prevention of consumption from tuberculosis in cattle, lies with the consumer of the milk or the flesh. Every consumer of milk shoul not use another drop till he knows that the milk is not from tuberculous cows. As he ralues his life and the lives of the mem bers of his family, let him question the milk till he reaches a satisfactory concluion. The presence of the germ of tuber olosis annot be determined bJ chemical aly is a nalys, and probly examinalion, and there the consumer must follow his milk to its source an demand a certificate that ule
produce it are free from disease.
This is exactly what is coming in this country if people are interested in saring their lires and the lires of their children, and it is already here in some parts of the country. Some producers of milk have been obliged to get a certificate from reliable reterinary authority that no tuberculosis is in their herds.
When poison, disease, lurks in various oods, the consumer mar let them alone, but not so with milk, for milk the con sumer must have, and he has the right to hare it pure and simple and to make a most rigid examination of it that it may be abore suspicion eren of the taint tuberculosis.

George Appletox

## NOTES ON RURAL AFFAIRS.

Culture aid Seasor--It is not culture alone that decides the outcome of ou farming operations. The season also has weighty influence. The present year giving much evidence of the truth of this statement. All our skill in growing cer tain crops seems to be of no avail in contention with certain unfarorable conditions. One of the latter is the entire absence of rain for an unreasonable length of time. Potatoes, onions, etc., to gire good rield, need a certain amount of mois ture, and are hiudcred rather than benefited by excessive heat. Over a large range of country the potato crop is a failure. W
 Fig. 4
have plowed and harrowed and fertilized and cultured and hoed in the usual man ner, and tried to do our part as well as wo knew how to do it, but the hot and dry weatherwas too much for the potatoes; but just right for the potato-bugs. The consequeuce is that the fields here are burnt up and eaten up. What the potato-bugs lef is greedily devoured by millions of grass hoppers. Many fields will not be wort digging. From some localities I have re ports of great damage done to potato ines by the black and yellow striped blis er-beetle (the old-fashioned potato-bug These beetles, when approached, almay
to row, and finally to a row of dry straw placed there for the purpose, and destroyed with the straw by fire. Where they are numerous, however, they are sure to do some damage, and often a great deal, notwithsta
struction.
Eutomologists tell us that the blisterbeetle larva live on the eggs of grasshoppers, and that consequently the beetles will appear in larger numbers the season following one of an abundance of grass'ooppers. They also advise to deal gently with the blister-beetle just for that reason, and to destroy them only in self-defense. With the grasshopper on one side, however, and the blister-beetle on the other, ioth eating away for dear life, it seems that the potato grower finds himself between the devil and the deep sea.
Last season's absence of potato-bugs (the Colorado species) had made me careless about this pest, and I have had to suffer for it. My confidence in the capability of natural enemies of the potato-bug-the lady-bird, grand lebia, soldier-bugs, etc.to deal with them and keep them in check, has not been justified, and we should not count much on their help. Even
Paris green treatment may be too slow. I have used Paris green this year in treble strength, adding lime to the suspension strength, adding lime to the suspension
in order to prevent injury to the foliage. in order to prevent injury to the foliage. effect, and the last of the bugs and larves effect, and the last of the bugs and larvo
are gone. Usually they keep on eating are gone. Usually they keep on eating
for a number of days; but finally they disappear until rains wash off the poison', and new bugs come on. Where I made the mistake this season was in allowing the first comers of the pest to deposit their eggs. Terry's plan to pick off the old bugs at the very beginning, and thereby to prevent egg laying on, is a good one. It is true that the old bugs eat comparatively little. But if we give
them full sway, the result will them full sway, the result will
be a great number of egg clusbe a great number of egg clus-
ters, and later on a continuous hatching of larvæ (slugs). This ueans damage to the crop, even
if we are quite prompt in applying poisons.
My oxperience with egg-planí, of which potato-bugs are espec-
ially fond, serves as a good illustration, and has given me a lessou. My plants, as soon as bugs, and I could prevent their entire destruction only by prompt hand-picking. At first twice a day, picking off every bug in sight, and putting them into a tomato-can contaiuing a
little water and kerosene-oil. After awhile the bugs became less numerous, and going over the patch once a day was considered sufficient. This was kept up until the beetles became quite
scarce on the plants, when the job was scarce on the plants, when the job was
performed only every other day, and finally I gave the order to quit. The eggplants were saved, and the few larve that hatched out from eggs deposited in spite of all precautious, were easily disposed of
by knocking off into a pan and by Paris green applications.
Similar treatment would have had similar effect on the potato-vines. In short. I declare myself a convert to the hana-poband think that it only needs promptness to get the upper hand of this pest with to get the upper hand of this pest with
slight trouble. The long dry spells are slight trouble. The
more to be feared.
more to be feared.
One plan practiced last season on a comparatively small scale, however, is a good one, and seems to take the sting even out of this enemy. This is mulching the ground between the rows heavily with
coarse litter. The manure thrown out of coarse litter. The manure thrown out of
our stables during spring and early summer is usually very dry and coarse, consisting of little more than dry straw and hay. This serves an excellent purpose if used in the way mentioned. Of course, it requires some trouble to get the stuff into the patch and properly spread, so that we bave only been able to practice it on a
small scale. But it is a good thing for the gardener who grows potatoes for an early market, and expects to get a good price for them. I have never practiced the plan of growing potatoes under straw, but if I had plenty of that article and not much use for it I would give it a thorough trial, for I believe that it would pay well, especially in a dry seazon like this, when new pota-
boes even in August bring over a dollar a
bushel wholesale. All you have to do is to plant the potatoes on top of the ground,
and cover the latter with six iuches to a foot of straw, then in due season to gather the crop from under the straw.
The poor onions have had to suffer this dry weather. Mine will not be half a crop. The grasshoppers, too, are taking a hand in this game, and my neighbor tells me that he is compelled to pull and gather his still green Prizetakers in order to save them from the hoppers, which eat them down clear into the ground. I have no remedy to offer except perhaps to place a poultry-house close to the patch, and keep ood-sized flock of chickens or ducks in
It might be a good thing for such emergencies to keep a number of movable roosts on hand, and put them to proper use at such times.
baising potatoes in the southwest
Potato raising is likely to be profitable here for some, not because the country is specially adapted to them, nor fo good market facilities, but because of climatic conditions that reuder their successdeterred somewhat dimculc. for their rown attempting to raise any only in a measure overcome the difficulties have a fair field, for as a natural consequence prices are higher than if success was easily achieved.
Perhaps the best method is to plow the ground in August, and sow to oats at the rate of two and a half to three bushels per
acre. When the first frost comes, plow the acre. When the first frost comes, plow the oats under, plowing about four inches
deep. Then in February plow again about deep. Then in February plow again about
eight inches deep, and have the soil thoroughly pulverized with disk and smooth
from the spring would be too cold, and by running it into the barrels it gets slightly warmed. I started the house March 1st, and had lettuce to use one month later, and all we wanted right along; then, also, extra fine cabbage and tomato plants, strawberries, etc
"Shortly after I started to heat the house we had eighty young chickens hatched out, and I at once moved them to the greenhouse and kept them there for some time. They run under the benches, needing no nother
Of course, there was considerable cost, but look at the pleasure and satisfaction one has in having good vegetables iu wintor. My little three-year-old boy was immensely pleesed to be in the "greenhouse," as he called it, and a much larger boy (myself) likes it about as well. But I think I would like a bed made like the old-fashioned hotbeds, heated with pipes,
for tomato-plants, as it is hard to give them for tomato-plants, as it is hard to give them the proper hardening off in a house with his fall, and heating it with the heater that heats the house.
"The house has 250 square feet of ground. There is about 250 feet of $11 / 2$-inch pipe, beside a $1 / 2$-inch line connected with the barrels. The entire outfit costs $\$ 210$; most method of heating is easy and convenieut. Altogether I am much pleased with the improvement over the old process of growing early plants."
I can only hope that our friend will carry out his intention of making some hotbeds and heating them with pipes connected with his hot-water heater. This has
much greater capacity than necessary for
a house of that size, and will furnish heat
ment, an intuitive knowledge of the harmony of colors, and their inherent disposition to economize in the use of blossoms without scrimping, gives them a decided advantage over men workers in the same field. What mysteries there may be in Horiculture will be more easily unearthed by women than men. The affinity between flowers and herself is closer than between flowers and man, and in a hundred ways she has decided advantages. Why shouldn't she succeed?
While at present it is true there are few if any, schools where she may learn the practical workings of the industry, the same school of experience in which man of our best floral workers have gained their knowledge is open to her, and in this school she can surely rank high.
I number amoug my valued correspondents several women who have "worked up" a profitable business from a beginning so small as to seem about valueless.
In portions of our great country the soil and climate is peculiarly fitted for growing some of the articles used by the trade in all sections. Parts of North Carolina, for example, seem to be the natural home for some classes of bulbs used in enormous quantities. The tuberose, for instance, is as easily grown in some sections of the state as potatoes in New York or New England. Already famous bulb-growers of Europe are beginning to investigate the soil and climate of several of our southern states, wiew the growing their spec ialties here.
Several years ago so conservative an authority as the late Peter Henderson gave to his opimion that in hifty years cal ifornia would rank as the first bulb and lady in California has for several year made a specialty of growing smilax seed, and finds a ready market for all she can grow at profitable prices. Several women are now actively engaged in growing for the northern markets many of the plants indigenous to semi-tropical Florida
Sweet-peas for seed are being grown, on a moderate scale as yet, by several women in the northern states. Georgia and South Carolina can produce plants and blooms o the rose fully equal to those grown in France, and I venture the prophecy that ere many years our large perfume man ufacturers will look to parts of our own country for their supplies of flowers rather than to Europe.
I am looking forward with unbounded confidence to the time when I shall see many women engaged in profitable flower work, not only as growers of plants and makers of bouquets and floral designs, but as growers of seeds, bulbs, etc. There is
no necessity for giving the outlook a roseate hue, for everything points to it
culmination by easy and natural causes. GOOD SEED POTATOES.
Mr. T. B. Terry, in the Practical Farmer having well-kept seed potatoes. A neigh
ing barrow. Mark out with a lister, or enough for quite a systen of beds. The stirring-plow run each way in same fur that they may receive all moisture open, ble until planting-time-last half of Febbuary or first of March.
There are likely to be periods of dry weather. The object is to have the soi deeply and well prepared, that it may be loose, though firm, to retain the moisture.
Very early to medium ripening potatoes Very early to medium ripening potatoe are best.
J. M. Rice.

Blaine county, Oklahoma.

## BUILDING FORCING-HOUSES.

I have spoken of the comforts that even the home gardener can take in the possession of a forcing-pit heated in some convenient and simple way, and of the benefits in pleasure, in study, in fine home-grown plants, istuce spes in thes, ishes,
are thus put in our reach.
Friend E. Bushyager, of Westmorelan Friend E. Bushyager, of Westmoreland
county, Pa., sends me a sketch and descripcounty, Pa., sends mea sketch and descrip
tion of a forcing-house built partly on principles mentioned by me, and now in running order. He writes as follows:
"I have made it like a regular greenhouse in regard to beds, as they are raised one foot from the ground to allow looking after pipes if anything goes wrong. I buil $111 / 2 \times 30$, with a $6 \pm 6$ addition to the end $11 / 2$ story high, with a cellar. In the cellar I have a water-heater of 450 square feet capacity, costing $\$ 17$ in New York. Expansion tank, tools, etc., were kept on ground floor. In the upper half-story I have barrels for water, to water plants with. I fill the barrels by turning a valve. They are connected, and a pipe running into the foot hose with a sprinkler does the rest. To run the water direct to the plants
pipes in some of these might be put alon ho sides above ground-a single line on each side being sufficient-but for most of incased in large tile, or laid in open space under the hotbed soil. Much heat will not be needed, and evcn inclh pipes would answer for most purposes. The beds should be as near as possible to the boiler end of
the greenhouse, to avoid waste of heat through the connecting pipes.
For hardening off tomato-plants, however, I would prefer ordinary cold-frames, although the pipe system makes it possible to use a frame in either capacity, as hotbeds or cold-frame. Should a frosty night be expected, a little heat might be turned on, and off again next morning.

JOSEPH.

## WOMEN IN FLORICULTURE

Considerable stress has been laid upon the fact that many gentlewomen in parts f Europe have made striking success in horticulture and floriculture. It may be interesting to know that in our own country women are fast gaining a place among the most efficient workers in these lines.
Aside from hundreds who are in the busi Aside from hundreds who are in the business in a strictly commercial senso, there are scores who are making a good share of the family income by the culture of plants and flowers at odd times. These workers may not have more than a few square feet f garden soil, a hotbed or a sunny window at their command, but they make their own talent yield many fold.
In the line of commercial florists the number of women so engaged is increasng yearly, and I have yet to hear of a business failure among them. Women ake naturally to the industry. Their take naturally to the industry. Their

$\qquad$ seed is looking finely and will bring a fine ooking finely and will bring a fine
t does not pay to use poor seed on THE BUSH SWEET POTATO.
I have seen some inquiries about the bush yam. I have a small patch of them this year. The 20 th of July there was
not a vine two feet long, while the vines of tbe yellow yam set, whithe same easy cultivation, as there is no turning
vines, and nearly all the work can be don with the plow.

Hood's Is a Blessing since I was in camp in since I was in camp in
1862, when I caught a severe cold, $I$ havesur fered with kidney
trouble and severe pains in my back, and have been unable to do any heavy work. After pring, I had a bad fact was very weak,

completely run down. I tried a bottle of Hood's
Hood's sumicicures
my old pains and troubles sinco the from"
Willifay J. Baker, North Pembroke, Mass.
Hood's Pills cure nausea, slick headache,
Hood's Pills cure nausea, sick headache,
ludigestion, bllougness. Suld by all druggists.

## (1) IIT ざarm.

(1)LD AND GARDEN NOTES. F. M. Webster Potato-bues.-Mr. station) quotes in the Ohio Farmer the following portion of my remarks and Fireside:


Wiscorsin St
"A year ago I was in hopes that the natural enemies of the potato-bug had neanc. Surely, there were only few bugs on our
potato-vines, and not enough to call for potato-vines, and not enough to call for
the use of Paris green. This sear thes have returned in old-time numbers-by the million-and probably we shall al ways have them with us."
To this the following comments are added:

And what else could you expect? Parasites do not live on air, and a lack of their
natural food last year could have had no other effect than that stated, Last year, of all others, was the very year to ube poisons. There were just, enough bugs left orer to
stock the fields this spring, but not enough stock the fields this spring, but not enough
to keep the parasites up to their usual to keep the parasites up to their usual
numabers. The enemies of your potatonumbers. The enemies of your potato-
beetles had your enemy cornered for you, but you let him escape, when a little effort on your part would have completed the extermination. The commonyotipnifrat it does not pay to apply poisons unless
there is prospect of a good crop of apples, there is prospect of a good crop of apples,
or because there are not bugs enough to eat up the potato crop, is the purestof folls. The natural enemies of the potato-beetle were seriously reduced in numbers last
sear, for lack of food, and as a result sear, for lack of food, and as a result
there were not enough this spring to do ans good. This year there are few apples, ferw codling-moths, and as a result few of the natural enemies of the codling-moth will occur next jear, thus giving the latter full sway to increase unmolested. To not have sprayed this year because there were
few apples would have been equivalent to keeping a team without feed on rains dars and on Sundays, because of not working. to let a golden opportunity pass unemployed. One indiridual destroyed at such a time will result in more good, and have a more lasting effect, than will the destruction of a larger number in seasons of
abundance." abundance.

All this sounds rery plausible. "winged word" of the Germans, translated, says: "It's a beautiful thought; but it
turns out differently." So it is in this case My kind critic possibly it is in this case. a wilderness, and am the only one far and near who raises potatoes, egg-plant and tomatoes, the regetables on which the so, I might have succeeded, by dint of some work and Paris green, to kill a portion of the few scattering bugs found last sear on my potato-vines. But I have neighbors right and left-east, west, north last year were nearer the field on which I hare potatoes this jear than my own pota-1.0-patch of last season. Besides, the
beetles have wings, and googreat ways in beetles have wings, and go a great ways in
search of pastures new. In order to search of pastures new. In order to have
the least hope of success in exterminating the remnant of bugs "already cornered by thetr parasites," I would have been compelled not only to apply Paris grcen to my own patch, but to tiose of yny neighbors
besides. If my Ohio friend is young and

What they have to do. They will spray when bugs and worms threaten to destroy the same season's crop; but the present generation will be dead and gone, and I suppose a good many generations more,
before you can gêt farmers to expend labor and material on a crop not threatened by any foe, simply for problematical results to be expected a year or two hence.

We are not built that way. All that I might have done last Jear is to apply Paris green to my rines in order to set a good old and experienced in thesematters to try such schemes for the reformation and and I will leave it to younger people wit more enthusiasm and less practical , with more enthusiasm and less practical expesparrow supposed to sit.on a tree twentyfire miles array
Then another thing. Says Mr. Webster 'The enemies of jour potato-beetles had your enemy cornered for yon, but jou let him escape, when a littte effort on your par would have completed the extermination.'
(The italics are mine.) Well, my friends, don't let, us think so lightly of nature's recuperative powers. Nature is profuse in her means of reproduction. Let ten beetles escape one season, and in a rear or two under conditions farorable to their thrift they will have increased to millions. Even with means so deadly as Paris green, we can nerer hope to "exterminate" one o natnre's smallest creatures-neither bug nor worm-as long as natural conditions fayor their increase.
If, however, we fight the beetle nnisance promptly, by hand-picking the firstcomers and by poisoning the slugs later, which previous we can keep our potato-vines reasonably free from the pest; but even then there will be enough left to give some trouble tomatoes, and especially egg-plant, after lied awas. At this time, usually, the
|green, he mas ask me, "Why don't the earlier broods have reached the beetle neighbors co-operate?" Yes, co-operation is a fine thing, and would accomplish
much. I beliere in it, but it is a beautiful thought, and nothing more. Farmers can not be made to co-operate, not eren under the pressure of immediate urgent needs. Enthusiasm is all right, but young theorists often imagine they can reform the world. It is a thankless task. People do
state, and they seem to be hungry. After the potatoes have gone, other (later) members of that order of plants have to suffer, and the beetles often come in such swarms that you may poison them by the whole sale without making a visible impression on their number.
Grasshoppers.-What can we do with them? They eat us out of house and home -at least ont of our garden. Never in my life have I seen them so plentiful. They have eaten bean and potato tops, whole rows of cabbages, celery, etc., and the silks and tips of the newly-forming ears of sweet cort. I have nearly an acre of Maule's Mammoth sweet corn, and am afraid I will not have what roasting ears we want for the table. Is there a practicable remedy for this pest? They are afraid of a black cloud of smoke, such as a traction-engine, when soft coal is used for fuel, will put forth. If we wish to protec small areas, gardens, etc., it may be possible to drive the hoppers off by burning
some substance like dantp straw or sawsome substance like dandp straw or saw-
dust mixed with tar, on the windward side of the patch. Possibly a number of persons, each provided with a leafy tree branch, and forming in line, may be able to drive them away from the regetables we wish to save. Poisoning can have little effect where they appear in dense swarms and droves. They will have eaten the poisoned food before the poison can take dilemma?
Horticulteral Lima Bear.-This has been mentioned and recommended, eren by such papers as the Rural New-Yorker, as the earliest of all pole Limas, and as
snperior to anything else in point of qual ity. I find it early, indeed. The pods have ripened and the plants about died down at the time when the first of the large bush Limas are just reads for use. The pods, too, secm to ripen all at once, giving no

succession, as pole beans should. In so far I consider them a failure. Then I cannot ee much of the Lima bean characteristics bout them. I prefer real Limas to this the latter's qualits. Possibly we have not cooked them or had them serred as they should have been. I will hereafter wait for the Limas, and be contented with
them. Of course, I grow the bush forms altogether; Henderson's for early and Burpee's and Dree's (Kumerle) for main crop. Burpee's bush Lima occasionallj reverts to the running habit; but I pull up such and keep my patch in true bush form.
Bnt I think I will have to give the Horticultural Lima one more trial, and this, too,
on a larger scale. Possibly I mar yet find
in it qualities to admire. We shonld not

## STATE BUILDINGS AT THE COLUMBIAN <br> EXPOSITION

The Wisconsin building is constracted press material; brownstone feature in and hard woods. Its special and interestin way of exhibits is a large and interesting historical collection
The Texas building is constructed of native material entirely after the style of the old Spanish Missions. Building and grounds exhibit to the Fisitor something of the rast resources of that great state.
Part of the Iowa building is a reproduc tion of the far-famed Sioux Cits corn palace. The main hall is fantastically decrated with figures composed of grains, grasses and minerals. In strle the build ng is like a French chateau.
Interesting art exhibits and a display of he rast agricultural resources of the state are the features of the Nebraska building. $t$ is of the Corinthian order of architecture. Works of art, displays of the state's products, educational exhibits, historical collections, relics and curiosities are all found in Missonri's building. The eastern and restern parts of the state have been friendly livals in making attractive their beautiful club-house.

## Orchard and Small Fruits. <br> COSDUCTED BY SAMCEL B. GREEN.

## FIGHTING APPLLE-BORERS.

Prof. Forbes, Hlinois state entomologist, makes the following timely suggestions in reference to fighting apple-borers

1. Preventing the Laying of Eggs.-This is best accomplished by washing the trunk and the larger branches of the tree three or four times in summer, with a strong solnion of soft soap, to which has beeu added a little crude carbolic acid. The soil should evenly smoothed down abont the base of the tree, so the mixture may reach the lower portion of the trunk where the round-headed borer is apt to lay its eggs. Washing-soda added to the soft soap, until the whole is of the consistency of thick paint, is also thought to make an excellent wash for repelling the beetles. In Ontario the first application should be made earl in June or about the middle of succeeding applications at intervals of about three weeks.
2. Destroying Eggs and Larvo-This should be done in August, September and October. By a careful examination of the trees during this time the eggs and joung larre may be detected, and by the judicious use of a knife they may easily be killed. If the ground is smoothed off about the young trees early in the season, about the young trees early in the season,
the insects in the lower part of the trunk the insects in the lower part of the trunk are more readily reached; or an excellen eggs where they can be easily reached, by mounding the bases of the trees either with sand, which is best, as it does not crack open and allow the beetle to deposit below the surface, or with ordinary soil. According to Hon. J. W. Robinson, for many years a successful orchardist in central Illinois, one man can usnally examine and kill all egos and borers in five hundred or more trees per day.

## ABUNDANCE FLUM.

The Japan plums are quite distinct from either our native or the widely-known European rarietics. In habit of tree they re-

semble somewhat the rigorous Chickasaw varieties, but their foliage is pecullarly large and distinct. A few of the Japan plums are fairly hardy, but most of then are better adapted to the middleand south ern states than they are to Ontario, and there their introduction has giren a fresh impetus to plum growing, owing to their large size, bcauty and excellent flavor. Canadian Horticulturist.

The Abundance is one of the Japan name. It has beon considerably pushed by nurserymen. As yet it is too early for any reliable statements to be made concerning its adaptability to the colder sections of this country, but it has succeeded well during the last three or four years in Now York and Michigan.
Mr. Lovett, of Little Silver, New Jersey viewing it from a nurseryman's standpoint, says of the Abundance: "This plum is unlike any other. In growth it is strong, and handsome enough to be planted as an ornamental, and equals the Kieffer pear-tree in thrift and beauty. Its propensity for early bearing is such that it loads in the nursery rows, bending the limbs with the weight of the fruit unti they sometimes break. The fruit is large showy and beautiful; color, amber, turning to rich, bright cherry, with a decidedly white bloom and high perfume; flesh light yellow, and exceedingly juicy, tender and sweet; free stone; excellent for can aing; season very early, ripening in advance of other plums.
Mr. S. D. Willard, of Geneva, New York writes concerning it: "I have fruited this plum for four or five years, and find it hardy and productive, of fair quality and well received in the markets. I do not think it equal to the Burbank in productiveness, or to some of the sorts of the Japan in quality, but its very beautiful appearance cau
Mr. Van Deman, chief the United States department of pomology, says of it: "This plum is of medium size-that is, among the Japanese plums-being fully as large plums (Pruaus domestica), heart-shaped, of very good quality, and I think, hardy over large part of the United States. Color, greenish-red."

## PEACH BUDS IN MARCH, 1893.

In the April bulletin of the Massachusetts experiment station is the following statement of the condition of the peach mentioned had enough buds to give a good crop, providing the season was favorable, yet Crosby and Wager stand out clearly fruit buds of the kinds tested.
The following tablegives the average per cent of buds of each variety that were de stroyed March 20, 1893:

| VARIETY. | Dec. | Jan. | Feb. | Mar. |
| :---: | :---: | :---: | :---: | :---: |
| Reeves' Favorite. | . 015 | . 120 | . 245 | . 28 |
| ager | 5 | . 172 |  |  |
| Wheatiand........... | . 022 | . 1440 | . 055 | . 08 |
| Stump. | . 060 | . 102 | . 160 | . 20 |
| Red-cheekedMolocoton | . 015 | . 100 | . 195 | . 25 |
| Old Mixon................... | . 010 | . 204 | 220 ${ }^{-1}$ | 32 |

TESTS OF VARIETIES OF STRAWBERRIES.
For the benefit of those farmers who contemplate setting out a strawberry-bed this fall for family use, the following information concerning varieties is sent out at this time. These ten varieties are taken from a list of over one hundred, which have been tested for two or more seasons and have been selected with special reference to their desirability for the table. They are also divided equally between those varieties having pistillate and those is indicated by the letters P and B .
Brunette (B).-This was originated by Mr G. Cowing, of Muncie, Ind. The plant is a good grower and productive, berry dark red and of the very best quality. Especially desirable for home use.
Bubach's : No. 5 (P).-Under good treat-
ment this is one of the largest and most profitable varieties the largest and most The quality is a little inferior, however.
Katie(B). This has not become generally known, but it is really a first-class berry for the table. Quite
good size and quality.
Edgar Queen (P).-A comparatively new variety which has not been advertised very extensively, but it has given better satisfachighly praised.
Lovett's Early (B).-A good grower, productive, and the fruit of excellent quality, but not so early as the name would indiGreenvill ( $P$ ) which is an Ohio berry and Greenville (P), which is an Ohio berry and gives good satisfaction wherever grown

Parker Earle (B).-A medium late berry Gem (P). Both these varieties are .quite
productive, of good size and qualityं. The first, however, does not produce many plants.
Cumberland (B).-In many localities this old variety continues to be a favorite. With us, however, it has come to be a very shy bearer, and fer that reason alone I do not recommend it for general cultivation. Warfield, No. 2 (P).-For an all-around berry this stands at the head of the list. The plant is small, but a wonderful grower and very productive when given good care, as all varieties should have. The
berry is a dark, glossy red, not overly large, rather tart, which quality it retains
successful in dry seasons, but it should be tried experimentally at first, as the folliage of the peach is quite susceptible to injury from
arsenic compounds. -Yes. arrenke compound. - Kes. Moeneve that by
breaking up the June-grass sod and then manuring the trees with commercial fertilizer o stable manure, that the trees would produce paying crops. It always seems that the weakest trees are moore infested with insects than the whole piece, then break up a strip on $a_{p}$ side of the trees, so that the young roots can have a chance to grow. If the land dries out badly, a light mulching of refuse hay or litte Will aid in this particular very mach, but in wet autumns it should be drawn away from
the trees, or a late growth may be encouraged.

after being canined. It is the best canning berry we have tried.-James Troop, HorExperiment Station.

## INQUIRIES ANSWERED

 bunches that ripen are generally in the shade,
and grapes ripened in paper bags are extra good in quality and color. Then, too, any

Praning Gooseberries and Currants. have plenty of ront. Gooseberries nould crowded. In pruning, remove all but four orfive of the best shoots, and then cut back about
one half of the new growth each year. As these shoots get weak or diseased, allow hoots to grow to the the shoots from the roots, but the new wood on them should not be cut back. If the plants branch too close to the ground, simply remove or shorten the lower branches. Ituis to a single stem and make little trees of them, as a single borer may then spoil the whole plant, but it is readily done by allowing only one stem to grow and cutting off the lower branches. Some kinds of currants-for in
stance, Fay's Proliflc-are inclined to spread while others are quite erect in habit. Prun the spring.

Seedling Fig-tree Not Fruiting.-M. F ., Walaron, Ark. Fig-plants from seed gen erally fruit in five or six years, but there is nothing certain about the plants so grown. of little value. In your case, perhaps the bush has been growing so thriftily that it has not set fruit, and by checking its growth-for
instance, by moving it to poorer soil-you milght start it to fruiting. It is possible, however, that it may never fruit, but I would try

removal of the foliage at this time, or at any time during active growth, for that matter,
can only result in checking the growth of the can only result in checking the growth of the
plant. Most of the successful vineyardists do not summer-prune much, if at all. They only take of the thp of the young growth all of it-is prepared in the leaves.-In the autumn, after the leaves have fallen; but it may be safely done during mild days in win-ter.-Yes, it is the same insect, and it may be kept in check by jarring the trees early in the morning, when the beetles will curl up and fall down on any sheets that may have been spead under the trees. Spraying. the fruit ith Paris green and water at the rate of one ound to two hundred gallons, as recom

## SELLINQ PRODUCE.

Some farmers appear to think that it is only necessary to place their produce beto the people, that the consumer is ready to buy at sight, without question. When the first one offered, even if it fit. If the dealer tells him that is exactly what he wants he will probably buy some other He has some choice in the matter, and has the right to exercise it. It is exactly so in buying a box of strawberries; the buyer will choose to please himself, and when he buys for himself-his own consumptionhe is naturally very particular. If some
fruit dealers went into market to buy they
know that they would not buy fruit prepared as theirs is.
At a fruit-store in a large city one morn ing there was a large display of strawberries; among them was one lot of about fifty boxes, every berry of which had been picked with the stem-the stem of full length. Whatever the object was, the reult was that every box held a less number f berries than they would if the berries had been cut with short stems.
There was still another lot, as fine as any berries there, but they were "sandy." Interested to know how these berries would sell, I kept an eye to them during the day. At nino o'clock the price was 25 cents for the long stems, and for the sandy berries, 18 cents. At three o'elock not a sandy berry had been sold, and the price had been reduced to 10 cents; two thirds of the long-stem berries were still on haud and the price had decdin cents. At five o'clock the sandy berries were all on hand and the price-card had for a quarter, and about six o'clock I bought three boxes for a quarter.
It had been a good day for strawberries, and all other lots, except a few boxes of inferior fruit, were sold, and, generally, sold at the same price all day. Now, the buyer resented this attempt to sell him sandy or long-stem berries. What was the sandyberry man and the long-stem berry man trying to do, or thinking of when they prepared those berries for market? Did they expect to impose on the people? It is a curious fact that when a man undertakes to do something like this he imagines that he is a little smarter than the average buyer; but he makes a great mistake. The buyer buying for his own consumption is governed by the exercise of extraordinary care, and he can see as far into a millstone as the seller. The sandy-berry man and he long-stem berry man had their reward -no sale. They tried, presumably, to trick the people and failed, with loss of product and labor.
The Connecticut fruit-grower, J. H. Hale, told this stery in a lecture last winter: His market was overstocked with strawberries, but he had berries and they must oe sold then, if ever, at some price. As he was starting for market a momber of his family came up with an armful of roses and placed one on a box of berries. This caught Mr. Hale's fancy, and a rose or bud was added to every box-320-and the result was that, although the dealers had more berries than they wanted, yet they bought these quickly at a price above the market-12 cents-and the dealers were selling at that price. As Mr. Hale re. marked, "The people do not eat roses, but they are willing to pay more for neat and asteful packages.
If you have never been through any of the great markets, such as Quincy market, Boston, Washington market, New York, the market in Washington (you ought not to miss it if in either city), you will see how much attention is given to mere display of goods. In these markets competition is sharp, and the slovenly dealer or the thoughtless producer finds his wares unsold if there be anything to criticise, or if the dealer in the next stall perhaps has the same goods, but in a more attractive package.

## George Appleton

## EXTRACTS FROM CORRESPONDENCE.

From Louisiana.-Webster parish is in the northwestern portion of the state. Some portions of this parish are hilly and dry, which makes it healthy and pleasant. For many years Webster has been improving, and is now one of the leading parishes in the state. For
a farming section it cannot be excelled. a farming section it cannot be excelled. Almost anytbing can be raised here, and crop
failures are unknown. The general products failures are unknown. The general products
are corn, cotton, oats, sorghum, sugar-cane, are corn, cotton, oats, sorghum, sugar-cane,
peas, Irish and sweet potatoes and fruits. peas, Irish and sweet potatoes and fruit own, and are doing well. They are beginning The people are industrious, kind and social. We have good schools, and churches of almost every denomination. Land is cheap and very productive. Corn yields from fifteen to thlrty bushels per acre wilhout fertilizer, and some of our land makes a bale of cotton per acre Without fertilizer. Minden is the parish-seat, and is a very beautiful place, with a population of about 1,500. It has a railroad, a bank have good water here, some very fine springe, have good water here, some very fine springs, Home-seekers will find this a splendld country. We need maore good, honest people. Let Hearn, La.
Agents for this journal get the BIGGEST CASH OOMMISSION offered by any pub-

## (1)แイ fixut.

## THE POULTRY YARD

Thierost frequent inquiry received by us is that reforring to roup, and although the subject has been dis-
cussed in these columns cussed in these columns many times, yet we receive numerous
letters in regard to it. The hens that letters in regard to it. The hens that hereditary weakness of any kind, are most subject to it. Roup may be known by discharges from the nostrils, swollen eyes, or swollen head. Sometimes, in its most violent form, a very foul oder is present. draft of air on the heus, especially at night, and as it may be months before a cure can be affected, any attempt in that direction only involves labor that may be fruitless, especially as hens that have been attacked by roup seldom become entirely
well, being liable to attacks on slight provocations. Dampness is the principal cause of roup, and as the winter is coming the poultry-house must be put in condition to protect the fowls from leaks or drafts. Cures are of no avail, as a recovery may be
but temporary. In, case of roup, destroy but temporary. In case of roup, destroy tagious.

## OUTSIDE NEST-BOXES.

The illustration is intended to show the nest-boxes on the outside of the poultryhouse. The eggs are collected by raising assageway ( E ) at the door (A). The interior of the box is shown, the nest-
saving of the space occupied by males which should be given to hens or pullets. Those who desire to hatch chicks can select a dozen of the best females and confine them in a yard with a pure-bred male. As one male can sire a thousand chicks in one year, it is plain that but few males are necessary. The usual practice is to allow one male with ten hens, which compels the feeding of a hundred males if s many as a thousand hens are retained. The greatest advantage deriveã, in addition to the increase of eggs and the saving of food, labor and space, is that eggs from hens not with males will keep three or four times as long as will eggs from hens that are with males. If eggs are to be preserred, it is detrimental to keep nuales in the flocks. When it is considered that a large number of males become expensive, and that the hens will produce more eggs when the males are not present, and also that the problem of preserving eggs is solved by keeping no males, the farmer should hereafter make it a rule to do away with males eutirely, unless chicks are to be hatched. With the non-sitting breeds, where eggs only are desired, and not chicks, the male is a useless member of the flock.

## heavy feeders.

It is sometimes used as an objection against certain hens of the flock that thoy are heary feeders and add too much to the cost. Before a decision is made on this point, the poultryman should compare the cost of the food with the results obtained from the hens. A hen must consume a certain quantity of food in order to produce a large number of eggs. The eggs arc simply the food converted into somethiug of a different shape and composition. It is of no advantage to have a flock of hens that consume but little food if they do not lay.
three fourths bred. We suggest this, as some do not care to go to the expense of buying pure-bred females. By using good males a great improvement can be accom plished in tro seasons, or even in on the fall, as prices will be higher in the spring.

## AdVANTAGES OF PEKIN DUCKS

The Pekiu duck is entirely white, which gires the feathers a greater ralue. It is claimed that the feathers will pay the cost of killing and dressing for market. The Pekin is a breed that thrives well where there are no ponds, and the young ones grow rapidly, often reaching half a pound for each week until they are ten weeksold. We have known them to gain a pound in a week when over eight weeks old, but it is considered a good weight to have them weigh five pounds when ten weeks old, and they frequently attain it.

## CABBAGE FOR WINTER.

The small and inferior cabbages will answer as well for the hens as the best and such unsalable food may be conto gived iuto eggs and sold. It is best to aim fall has passed ood some kind after the food cannot easily be obtained after grass is gone, but cabbages make an excellent substitute. They do not contain a large proportion of nutritious matter, but serre to diet the fowls and proniote the appetite by providing a change from dry food

## STORE A SUPPLY OF DIRT

Get in a supply of dirt before winter Hare it dry, and place it where it cau be used conveniently. Dirt is important, as the hens use it for dusting. It also absorbs droppings, serves as a dendorizer, and makes it easy to clean out the poultryhouse. A bushel of fine, dry plaster, mixed with ten bushels of dry dirt, will be an advantage. Keep the dirt in a dry place, free from dampness.

## LEARNing to manage.

The only way to learn is to begin at the bottom. Study is important, but practical experience impresses the necessity of at tending to details. It is unsafe to begin of capital, time and labor, buit when the beginning is made with a small flock, the beginning is mado with and hock, the verely felt. The only way to learn to manage is to get to work and observe all manage
details.

CORRESPONDENCE.
To Shell Sunflower Seeds Easily.- When ripe, cut off the stems close to the heads. Spread the heads, seed side up, on racks in
the sun to dry, or under an open shed. When dry, or nearly so, take a head at a time in one hand and a light club in the other; turn the head over, seed side down, and with the club
strike it two or three sharp blows, from below strike it two the seeds will all fall out clean upwards, and the seeds will all fall out clean.
Dayton, Ohio.

Raising Turkeys.-I would like to add my experience with turkeys to that of other correspondents. I have raised them every profit, and again have lost every one; but I am fully convinced that they do hetter to be left to their own ways. Let the mother lay ber eggs and sit on them without being disturbed, and let her come off and go her own way, and she will find food and shelter for her brood, and bring up more of them than you Guld if you undertook to care for them.
Greenwich, Conn.

## INQUIRIES ANSWERED.

Tncubators.-L. B. Elkhart, Ind., Writes: "When should Incubators commence to hatch
early broilers?"
REPLY:-It is usual to begin in October and cease in April.
Non-sitters.-J. E., Vandalia, Ill., Writes:
"Will sou ohlige by do not sit.",
REpLY : Leghorns, Hamburge, Red Caps,
Black Spanish, Minorcas, Andalusians, Polish Food for Fattening.-C. R., Long Island for fattening chickens "atthis is the best food
often should they be fed ?", REpLy:-Giive a variety, but let grain pre-
dominate. Corn and wheat, given three times
a day, should make them very fat in two Roup.-L. M. S., Harrison, Ohio, Writes:
"Myy fowls become mopish, eves Watery and
closed, and finally they lose the use of their
legs and die. Tber roose on trees," closed, and inally they lose the use of their
legs and die. Tbev roost on trees.,
REpLY:-Piobably due to exposure tostorms,
as the symptoms are those of roup, though as the symptoms are those of roup, though
the lameuessmay have been caused bjuunp-
ing off the tree limhs. Put them in a biliding,
on straw (no roosts), and anoint beeds with on straw (no roosts), and anoint heads with
sweet-oil once a das. Feather Pulling.-H. S., Dresden Center,
N. Y., writes. "1 keep about twenty hens.
They are heaithy, and commenced shedding
feathers last \$inter. The feathers do not
grow out again. What is the causer" do
REpLY:-Your hens have been, and are now,
pulling feathers. from each other, it being a
pice induced hy idleness and high feeding. Vice induced hy idleness and high feeding.
There is no remedy but to dispose of tbem
and procure new stock. Nany rcmedies bave
been suggested, but none re effet Probsbly Poison.-"Reader," Janesville. Probsbly Poison.- "Reader," Janesville.
Wis., Writes: "I have trodozen hen, mostly
Red Caps and Hamburs. They appeared
healthy. In an hour one died. Then others
became sick. They are motionless, apparently became sick. They are motionless, apparently
dead, unless thucked. I never sar anything
of the kind hefore. Can you glve cause of tbe
ailment REPLY:-No reason can be assigned for the
difficulty $\begin{aligned} & \text { other than to suppose that the birds } \\ & \text { found and partook of some }\end{aligned}$ Preserving Eggs.-L. H. H., New Point, Preserving Eggs.-L. H. H., New Point,
Indiana, Writes.
preserved in salt? Is the salt method a goep if preserved in salt? Is the salt method a good
one? Do you know of a hetter plan ",
REpLY: Egs from hens that are not with
males $\pi i l l$ REPLY:-Egg from heus tbat are not with
males rill keep threc or four times as long as
fertile eggs Simply keep the eggs on rack
in a coolpiace and turn them three times a
week. The length of time week. The length of time they thre times a
will keep
depenas on the eggs being fertile or infertio
and their freshess. We do not advise the
use of salt or any other packing material. use of salt or any other packing material.
Koss of Chicks.-T. V. W., Lutherrille,
M., Writes: "My chicks die off at about two The of Wh
hot
corn,
have

$\qquad$
Reply:-The loss is perhaps due to large
lice on the heads, and also to mites. As young Leghorns feather rapidy they hecome debil-
itated sooner than chicks of some other breeds.
Dust with insect-powder and rub a few drops
of oll on the heads.

## Uniform

 in Action. One of the most common difficul ties arising from the use of medicinal remedies is that of over-action at first, and constantly decreasing efficiency as repeated doses are given. This necessitates a change in the treatment, and as no two medicines act alike, the full benefit of the most advantageous remedy is not obtained.Here is one great superiority of Brandreth's Pills. No matter how they are taken, they are just as efficient the last time as the first, and no more so. They never are too strong, nor on the other hand do they lose their virtue by repetition.

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are thus invaluable in cases where a physician is not easily accessible. Their action being uniform, there can be no mistake in using them.
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| :---: |
|  |  |

To Destroy Moles.-J. B. F., Anthony, mixed with sugar. Fasten a paper funnel to tbe end of a quill or small tube. With a sharppointed stick make a small hole into the runway, insert the tube, and pour in a small quantity of the poisoned sugar.
Pea-weevil.-J. R. G., Brownsville, Tenn. weevil. As soon as the peas are harvested put them in a close box. On top of the peas place a saucer of bisulphide of carbon, and cover the box closely. The vapor of this vol atile liquid will kill the insects in a few hours
time.
Chester Whites.-M. E. B., St. Marys, O., March or A pril be fattened the following fall? How wonld they do crossed with Poland China blood?"
REPLY:-Yes, pigs of any one of the large months of age. Both breeds are good, but you cannot expect to gain much by crossing them.
Planting Egyptian or Winter Onions. quite a lot of sets of the winter or Egyptian bunch onions next spring? If so, when should they be set out?"
Reply by Joseph:-This onion is entirely hardy, and will grow all winter, as long as the
ground is not frozen. You can make your ground is not frozen. You can make your
plantation now, or plant almost any time of plantation
Garden Alling.-C. V. B., Long Branch, N. J., writes: "For the past two or three expectations. Have used plenty of manure and good seed, but the returns have been
poor. Would it be of any benefit to sow rye this fall and theu plow it under in the spring The soil is a light loam.
REPLY BY JoSEPH:-I cannot tell what the
trouble is with your land without knowing all trouble is with your land without knowing all and plowing under rye will have the desired effect. Try clover or peas.
Potato-house.-H. W.P., Knoxville, Tenn, Writes: "Can you give me a good plan of a cellar. Would such a one be preferable to one built above ground?"
Reply by Josepri:-I suppose our friend
desires a cellar for Irish, not sweet, potatoes. If so, he may make a dug-ol. in the hillside of the desired dimensions, and use it for win-
tering his crop. I would like to have the readers of Faras And Fireside offer suggestions how to build the house or cellar,
how to manage the crop while in storage.
Coal Ashes Aronnda Well-Cattle-stile -J. V., Pella, Iowa, writes: "Will coal ashe around a well spoil the wat one best ma horses and catpasture that will not let the hogs out?" not likely that cinders around a well will spoil The accom panying shows how to that will allow your cattle and in and out of a pasture without letting the
hogs out. Place the posts about three feet hogs out. Place the posts about three feet a straight, hard-wood roller, five inches in diameter. Insert smooth bolts in the ends of the roller, to turn in auger holes in the posts, or in staples in the posts
hat it will tnrn easily.
Cheat.-A. W. H., Mendocino, Cal., Writes: What is the inclosed grass? It was unknown here four years ago. Now it
whole country's pasture land."
Reply:-The grass you send for name Bromus secalinus, commonly known as chess

Tomatoes Alling-Beans for Profit.-J E. T., Prescott, Wash., writes: "I have a lot yellow, and will not grow. What is the matter with them? - Is there much money in raising white beans for winter use? How many RIPITY BY JosEpy:-The trouble with your
tomatoes may be blight, maybe something Field beans (dry beans) are an important farm crop, aud often pay better than corn, potatoes, or any other of the ordinary farm crops. good crop is from twenty to twenty-five
bushels, but morecan be grown under favor able conditions. I will give a few hints on bean growing in one of my next articles.
Onions in Florida.-J. H. T., San Antonio, Fla., Writes: "Would like to have Joseph tell me what is the best time to sow in a locality With some frosts in winter and spring. Can ne depend on Mapes' onion manure alone? have no barn-yard manure. What manure or find of onion should I plaut, and where can I get good seed?"
Reply by Joseph:-I have no experience in Florida, and cannot answer all these quesbetter qualified to do so. Mapes' onion ma nure is good, but I do not know whether, vithout yard manure, it could be depended upon to give you a full crop. I would prefer o use at least a part compost, or muck that has been used as absorbent in stables, privies
or poultry-houses. Try Bermuda, also Prizeor poultry-houses. Try Bermuda, also Prize-
taker, and buy seed of any of the seedsmen aker, and buy seed of any of the seedsmen who regularly advertise in Farm and Fire-
SIDe.
Garden Queries.-R. C., Adrian, Mich Writes: "(1) What causes the curl-leaf on peach-trees, and what will stop it? (2) Is paron going to seed? I sowed the seed last year ng going to seed? I sowed the seed last year, time can you find potato-balls? (4) Is the Brazilian Ornamental Foliage beet good to use as other beets? (5) What is best to kill cab-
Reply by Josepri:-(1) Curl-leaf of the peach is caused by a fungus. Give good culture which will enable the trees to bring forth a new set of leaves. This is about all that you can do. (2) The parsnip-seed will be good. (3) Look for potato-balls when the vines begin to become a scarce article in many sections in recent years. (4) For tablense, plant the ordinary standard varieties of beet. The ornamentalleaved sorts may be used for greens, however.
(5) Dusting the cabbages with buhach (insectowder) will kill the worms. Hot soap-suds, or kerosene emulsion are also sure remedies.

## VETERINARY.

 Professor of Veterinary Surgery in Ohio State



 adad reasong. Anonymour
gonder any circumstances.
und

Wants to Know What Killed Fis Mar C. M., Corsicana, Mo. I cannot answer your
question. You ought to have made a postuestion. Xou ought
Bled to Death After Castration.-0.
Ovford, Conn. If your bulls bled to deat

rosive sublimate in contact with healthy skin. The warts themselves may receive a coat of decreasing.
Possibly Farcy.-A. M., Merengo,
writes: "I have a four-year-old mare that had five bunches on her right hind leg that looked like boils. They swelled up, broke and have not broken since June. The man I got manger, and it was scratched on a rusty nail said they would break out again this fall. Sh eats heartily and looks well."
dous; that is, like farcy, or a little susp The best you can do is to ot once notify your state veterinarian, who, on examination, will decide whether it is farcy or not
Swine-plague.-Mrs. P. E. D., Bradford so-called hog-cholera. There is no specifi remedy. A systematic treatment and good care may accomplish something, but not ver much, either. The swine-plaguc bacilli, onc within the organism, cannot be cxtracted the cannot be destroyed without destroying
the animal. If some of your hogs are yct healthy, the same possibly may yet be saved where they can be kept strictly separate from any and every source of infection. Protectiv inoculation is applicable only before the

Probably Ringworm.-Mrs. E. G., Longton, Kan., writes: "I have a two-year-old
Jersey heifer, which has something resembling a is a light brown in color, and appears to be spongy, but is in reality hard. It grows abou inches long, and grows around the eye. The ones on her neck are simply like lumps. She is in go
her?"
ANSWER:-What you describe seems to be, not warts, but ringworma. Apply to the mor carbolic acid, and thoroughly clean and dis infect the stable where the heifer is kept.
Paresis.-J. B., Hernandez, Cal., writes "Some of my hogs get weak in the back, and to drag them."
ANSWER:-Your inquiry leaves me in doubt Whether your hogs simply suffer from paresis, affected with swine-plague. Paresis may have a good many causes; for instance, it may b caused by mechanical injury acting upon the
vertebral column, by morbid affections of the spinal cord and its membranes, by inflamma tory and degeneration in the muscles, and finally by a want of phosphates and lime salts in the lood. A treatment can have effect
only if the causes are removed, and in order to do that, the same must be ascertained an

## A THEOLOGIAN hassad that

breath from Adam instead of having will not attempt to controvert this statement but we will undertake to say that thousands o Eve's descendants maintain their breathing functions working for us. No matter whether they give all or only a portion of their time to our work, they find it easy, pleasant and profit terms we are offering are not equaled by any other publication. Start now; there is money
in it for you. Address for full particulars, in it for you. Address for full particulars, Springfield, Ohio.

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| Haflictad with |
| :---: |
| bore eses nee |
| nr, Thompson's Eyp-Water |

## Cattle-stile.

ust hequence of castration, the operator egligent manner, and surely deserves blame. ext time have such operations performed by vill be no trouble
III-treated.-M. F. M., Buckton, N. Y. I treated-improperly fed and worked too hard -and this may account for some of his ailments. Still, according to your rather in definite description, the disease seems to be somerrhat complicated; consequently, it will There are enongh of them in New York state Warts.-J. D., Minersville, Pa., writes: "I have a horse that is troubled a great deal with warts around the nose and lips."
ANSWER:-If the warts are flat and small, as way to remove them is to paint them oved With a concentrated solution of corrosive
subllmate in absolute alcohol. Great care ${ }_{\text {KEEPP }}^{\text {KIT. }}$
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The paper will be mailed for the knife at once, postage at once, postage one sending only 75 cents.

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## (H) fit fircside.

## fallen flowers.

## One of the workers of the world, Living toiled and toiling died:

 Living toiled and toiling died;But others worked and the world went on
And was not changed when he was gone But others worked and the world went on
And was not changed when he was gone,
A strong arm stricken; a wide sail fnrled ; And only a few men sighed.

Fought to conquer, then fought to fail,
And fell down slain in his blood-stained And fell down slain in his blood-stained mail
And over his form thes stepped ; His canse ras lost and his banner furled;

## Sne of the singers among mankind Sang healing songs from an one

 Sang healing songs from an o'erwroughBut ere men listened the grass and wind Were wasting the rest unsung like a wave He has never heard in hle grave

## One of the women who only love, Loved and grieved and faded a

 Loved and grieved and fadedAh me! are these gone to the $G$
What more of each can I say? They are human flowers that flower and fall

## A TRAINED NURSE



HE flood of purple twilight setting sun of oue of
August's sultriest days. All the earth lay silent, as if awalting the refreshing fall of heaveu's dews; the
very night birds whispered softly, one to an-
other, lustead of calling ather, and every wiudow in
the Southall farm-house was the Southall farm-house was rant air. Miss Southall sat at the
itchen table making up her accounts by the light of a kerosene
lamp. A leather-covered notebook lay before her, and she was thoughtfully nibbling at the top of a stumpy lead-pencil. Miss Southall-she was short, stout, and fifty; and her thoughts and reffections moved in a
channel that corresponded with her outward appearance.
"Butter, six dollars and forty cents," mur-
ured Miss Southall, as she turned her head mured Miss Southall, as she turned her head
this way and that. "Spring chickens, eleven. this way and that. "Spring chickens, eleven.
Berries and vegetables-let me see. We ain't comin' out as well as we'd ought to have done
this year. It does appear to me that nothing this year. It does appear to me that nothing the city boarder. I used to set consid able her salt! I guess I'll have to talk pretty serious to Patty."
As if by the working of some magic spell
Patty herself appeared on the scene at this moment-a tall, slight girl, with very black hair and eyes, aud a crimson color that varied distant cousin of Miss Southall, whom that
thrifty dame had taken to bring up, from a thrifty dame had taken to bring up, from a than for anything else. The elder lady viewed wearily down by the window and clasped her
hands in her lap. "Dishes all don
"Dishes all done up?" said Miss Southall.
Patty nodded.
"Doors locked and bolted, eh?"
"Yes, Aunt Frances."
"Well, there's the ne
"Well, there's the new pillow-cases to be over-and-overed." said Miss southall, "in the
bureau drawers. You mlght do quite a piece
on 'em, if you bring your cheer up here by the on 'em, if you bring your cheer up here by the "I don't feel like sewing to-night, Aunt
Frances," said the girl, listlessly. Frances," said the girl, listlessly.
Miss Southall looked keenly at her. "Patty,"
said she, "you've got something on your mind. said she, "you've got something on your mind.
And I believe it's that Mr. Sabin. Do pluck And I believe it's that Mr. Sabin. Do pluck
up a spirlt, child. If a man don't care for you, why on earth should you be such a fool
as to fret after him? That's what I'd like to know."
Patty
Patty had flushed deeply, but she answered
with a certain composure: "Yes, Aunt Frances, I have got something
on ny mlnd, but it isn't Mr. Sabln, other Mr. To speak the Mruth, I am getting
tired of this sort of life." tired of this sort of life."
"El? $?$ " said Miss Southall, scarcely believing her own senses.
"It's the same
"It's the same thing over and over again,"
said Patty. "One learns nothing, one advances no further in the world. I should like, Aunt Frances, to strike out in some other
directlon." directlon."
"Humph!" grunted Miss Southall. "Don't
you get plenty to eat here?" "Oh, yes, Aunt Frances."
"Ain"t I always furnished good clothes to
"Much better than I deserve, Aunt Frances."
"Then what have you got to complain of?" swered Patty, "except that I am possessed with a spirit of progressiveuess. I want to get
away from this still, peaceful, uneventful spot, where one day is so exactly like anoiser.
To be candid, I have been reading of the To be candid, I have been reading of the
trained nurses in Boston, and I have made up trained nurses $\ln$ Bos
ny mind to bc one."
"
laughing derisively. "Oh, you waut to be
like old Becky Beers, who gets her board and seveuty-five cents a day for taking care of slck
folks." "You dou't understand, Aunt Frances," said
Patty gently. "These members of a trained sisterhood are not decrepit old women, who
understaud nothing but catnip tea and mus-tard-plasters, and who are paid the least possible sum that their employers can squeeze sible sum that they are, many of them, educated ladies, who are liberally recompensed, and who feel that they have a mission to
"Feel that they hare fiddlesticks!" shrilly interrupted Miss Southall. "I never heard
such nonsense in all my life! If I want a nurse, Becky Beers is quite good enough for me, and I never yet had a sickness but that some neighbor came in and helped around for
nothing. Traiued nurses, indeed! Trained nothing. Traiued nurses, indeed! Trained
to be lazy and shiftless, I guess. I don't want no such folks around me when I am sick. And if you leave the farm for such folderol nonsense as this, you needn't expect 1 ll ever do
anything for you again, for I won't, and anything for you again, for I won't, and
that's the long and short of it, Patty South-

But quiet and gentle though she seemed, Patty Southall possessed a resolute will of
her own, and she persisted in having her
own way, greatly to the discust of Aunt Frances.
And she succeeded in this dearest ambition ordained guardian of the sie was a divinely was one. Her footstep was lighter than any feather, her voice was low and soothing as the sound of a flute, her patience inexhaustible,
and her tempersweet and winning. Moreorer she had a certain tact and discretion tha comes only as the gift of nature, and which no amount of discipline can insure. And a the end of the probation year of trainlng, Patty Southall's name
eager young graduates.
eager young graduates. Patty was there, scraping lint, and ponderin as she scraped. It was a dariz, lowering morn ing in August, but there was a sort of sunshine around Patty's eyes and mouth which had nothing
"Miss Southall," said Mr. Ires, "I am glad you are back from that typhoid fever case. "I don't mind what I do," said Patty com-
posedly. But a little thrill went through her frame for all that. Somehow life seemed sweeter to-day than it had ever done before. not quail now
am glad of it," said Mr. Ives. "Some of our young women have such a prejudice feel that I can place every reliance on your skill and judgment. Dr. Jacobson, of Whitelands, has written me tha
lands? Why, that is my old home. And Dr. Jacobson took me through the measles and whooping-cough years and years ago. Oh
I should like to go to Whitelands!" Patty's preparations were speedily made and on her way she smiled to herself as she When he should meet her at the station. It was fully equal to her anticipation. Th
old man stared with all his eyes. old man stared with all his eyes.
claimed, peering with his near-sighted glasses all, as true as I'm born! Well, I am glad to all, as true as I'm born! Well, I am glad to seems as if Providence had sent you he
this especial moment. But-wait-stop!" He looked up and down the platform,
at a telegram which he held in his hand. "Why are we waiting?" said Patty. "Wh "I am expecting a trained nurse from the Sisterhood of St. Sulpica," said Dr. Jacobson.
"My old friend Ives was to send her down; and "My old friend
Patty smiled.
"I am the nurse," said she. "Here are my "You?", shouted the doctor. "Why, I expected to see a woman of fifty, with a hooked nose and a set of false teeth." "I
"Nevertheless," said Patty, "I am the trained "Then you knew?" said Dr. Jacobson.
"Knew what?
"That your auut was down with the small
Patty's large, dark eyes opened wide.
"I was not told the name of my patlent,"
aid she. "Is it Auut Frances?" "Yes," said Dr. Jacobson, as he helped her into tbe rusty little gig, which she could re member ever since tbe days of ber child hood;
"a genuine case of smallpox. You see, the old lady has worked too hard-she has got all run down and worn out-and last month she
took in a wandering tramp to belp witl the house work, probably because she could get her cheap. And so, unintentioually you see, woman died, and I'm afraid there isu't much chance for your aunt. Of course, not a neighbor can be found to go 1 u , and things look is always hope.
"Aunt Frances was very good to me," said
Patty calmly. "Now perhaps I can repay her
a llttle of the old kiudness."

Miss Southall had no word or look of recog-
nition for Patty. She was delirious, and lay tossin
Patty
bed.
" $A$ u Patty quietly seated herself beside the sick-
bed. or devotion she thought.
was tedlous southall did not die. Her illnes son told her that she owed her life to the constant vigilance of the trained nurse from the Sisterhood of St. Sulpica.
"You won tgo back again, Patty?" said the old lady, when first she sat up in an easy-chai lined with pillows. "Oh, child, I've longed for you so many times. You were right to go lying in my grave now. But, Patty dear, want you to stay with me now."
"Dear Aunt Frances, I cannot," said Patty. "I've been waiting this long time to tell you last patient I had was ill of typhoid fever, The last patient I had was ill of typhoid fever, and whould guess. It was Archibald Sabin. I went
woun you never to him, as I went to you, in ignorance of who my patient was. The Sisterhood chanced to send me, of all the thirty nurses who were on duty. Is not truth sometimes stranger than
fiction? And he told me that he loved me, and he asked me to marry him, when my year at St. Sulpica's was out."
"Well, I never!" said Miss Southall. "But I'm glad of it, Patty, glad from the very bothave been happier if I had been married myself to some good mau. And I thought you were making a great mistake when you went to be brought you the greatest good luck of your brough

It think the path of duty often does lead us o happiness, Aunt Frances," said Patty in a

## UUR NORTHERN BOUNDARY LINE.

The northern boundary line of the United States is marked by stone cairns, iron pillars, wood pillars, earth mounds and timber posts. by 14 feet; an iron plllar, eight feet high ight lour inches at the top; timber posts, five feet high, marks between the Lake of the Woods and the base of the Rocky mountains. That portion of the boundary which lies east and west of the Red river valley is marked by cast-iron pillars at even mile intervals. The British place one every tro miles and the Unite
States one between every two Britlsh posts Our pillars, or markers, are made in Detroit, Mich.
They f an inch in iron castings, three eighth cated pyramid, eight feet high, eight inches quare at the bottom and four at the top, as bove stated. They have at the top a solid onal flange one inch in thickness. Upon the faces are cast, in letters two inches high, the inscriptions, "C
"October 29, 1818."
The inscriptions begin about four to six interi well-seasoned cedar posts, samed to fit, and securely spiked through holes cast in the pil-
lars for that purpose. The average weight of each pillar when completed is eighty-five pounds.
The pil The pillars are all set four feet in the gronnd, south and the outh, and the earth is well settled and
stamped about them. For the wooden posts, well-seasoned logs are selected, and the porosts do very well, but the Indians cut them down for fuel and so nothing but iron will last very long.
Where the line crosses lakes, mouutains of stone have been built, the bases being in some projecting eight feet above the lake's surface at high-water mark. In forests the line is marked by felling the timber a rod wide, and clearing away the uuderbrush. The work of
cutting through the timbered swamps was very great, but it has been well done, and the oundary dlstinctly marked by the commis sioners the whole distance ft
Alaska.-New York Evangelist.

## stock gambling.

On the stock exchange a "bear" is a person interested in having stociss go down in pricehe bears them down. A "bull" wants stock to go up. To "corner" a stock or a commodity is
to get control of all of it, and so put the price ap to those who want to buy. A person who has contracted to deliver stock at a certaiu price is "cornered" or "caught in a corner" When other persons get control of that stock. is long on it, when he has little he is "short," and a man "sells short" when he sells stock which he doesn't possess, inteuding to buy it, and so fulfll his contract; a man who sells sort ls a "bull" always. When you buy" a margin" you give your broker one tenth of he face value of the stock you want him to he stock goes up, you make mone:'; if it goes down, you lose.
If it goes dow. ose the money you have put t, n as "margin,"
lose all claim ou the stock, even though the
price should advance again immediately. In England they call buying "on a margin" buyroker sells to other brokers the rlght to "put" a certain stock to him at a certain figure, o to "call" on him for the stock at a certain flgbroker for 1,000 shares of this stock at a certain figure; if the stock goes below the figure, you have a "call," and the stock goes up beyond that figure, you make him sell you what your "call" requires at a lower rate than the margin terms a puly to" is a greenhorn. All of these ever article is bought or sold.

## CHARACTER IN GAIT.

Gait is an importaut part of physical expression. By his gait a man tells us whether he is resh or tired, strong or feeble, in good health occupation. The upright and somewhat rigid walk of the soldier differs largely from the rather rolling gait of the sailor; and different from both of these is the slow, jolting gait of the country laborer, which, however, is partly ccounted for by the clumsy and heavy boots. In the peculiarities of gait, again an attentive eye discovers many moral qualities. "Slow teps, whether long or short, suggest a gentle While on the contrary, quick steps seem to speak of agitation and energy. Reflection is revealed in frequent pauses, and walking to and fro, backward and forward, the direction changing impulse of the mind, inevitably berays un It might ask too cirious a knowledge to distinguish by their iuspectire gaits the miser, the spendthrift and the philanthropist; but his step, the rain man to some extent and the bstinate man not a little.

## AN INDEPENDENT MAN.

The independeut farmer should be the most nancul man in the country durng a s mean he who owns a quarter section of land unencumbered by mortgage. He may snap hls fingers at failing banks, at silent mills and manufactories, at merchauts without customers, at the world at large; and gathering his amily about him he may proudly realize that heir limited mens will allow the poople town and cits must dance to his musto or own and city must dance to his music, or his fiddle and his bow.
To the farmer who is free from debt the ero and flow of finance is a matter of small consequence. He has no sleepless nights in a vain endeavor to formulate a plan by which he can aise the mortgage from, the home. What matters it to him if storms do rage in Wall treet, or if the local banks do retreuch, he wes no man on earth a cent and has no master to drive bim to his work, or to the sacrifice - Colman's Rural World.

## ANT VOICES.

The statemeut is ofteu made that there ar probais by the human be perfectly ulear to the auditory sense of other members of the animal kiugdom. Attention has just beeu called at a meeting of the British entomological society to a very interesting case in point. Accordiug to Dr. ducing organs that have yet been found in insects.
These are situated upon certain segments of the abdomen of some species of ants examiued by him, the sounds being produced by rubbiug.
But Dr. Sharp has not heard these ant voices, But Dr. Sharp has not heard these ant voice wor has anybody else, although he is condelicate for our gross ears.
An atter them wit detected was that produced by the auts in crawling.

## BE CHEERFUL.

Don't sit in a corner and mope becaus disagreeable face will not alter a disagreen bl fact. Try to extract some graiu of comfort out of Four adversities. Never despair. Under Whatever circumstances, be cheerful and bope on. There is nothiug so philosophical as a The A merry heart is the height or wisdom hen reater part of our griess wil cheerful ness. Let the dark past siuk out of sight. Look toward the sunrise. Shont with merri Fill your soul with the risions of mornlng and the soug of the lark. Then all will become suffused with daylight-all the gloomy places will pulse with suushine, the clammy rocks will glisten with dew.
Would you like to know the key to unlock the doorway to a happy life? It is cheerfulness.

## For temporary or pormanent work, our her:)tofore made by ne orany other reliable pubishinz-honse. We are determined oup ncents slall be well paid. Sead at once for nabishing-house. We are determined out

## REMEMBERED ALL THE NAMES.

A good story is told oí a bright young American and several German officers, who, at a comertable by chaffing him about his country. The young man is Albert H. Washburn, the United States consular agent at Magdeburg, and the story is told by the Albany Journat:
"Henry F. Merritt, then consul at Chemnitz was the first one of the Americans attacked with a taunt from one of the Germans that Le sould not give the names of the presidents of ihe United States. Merritt named them over thi some deliberation, and drew frow is aerman friend the decharation that he did not believe that there was another American rad said nothing until now; but he broke in nd declared, 'I can do it, and I will give you he rice-presidents, He was about to begin when a second thought struck him, and he said, 'While I am about it, I might as well ive you the secretaries of state, too
"The Germans got down a book giving the names and kept tabs on the young man as he correctly went through the list. They were pretty well backed down already, but Washburn had no idea of letting them off so easily. Now, I would like to know,' he said, 'whether any of you can give the names of the Prussian rulers from the time of Charlemagne and his sons down to the Emperor William."
"The Germans were completely fioored. Not ne of them could go half through the list, and they were on the polnt of apologizing to the oung hassacill more by modestly suggesting 'Perhaps I had better do it for you.
"He began with Charlemagne, and went hrough the list without a hreak, much to the astonishmont of his German hosts and the delight of Consul Edwards and the other Amercans. 'How did you do 1 t?' asked Merrit.
"، $\mathrm{Oh}, \mathrm{my}$ father had a taste for such things, and taught them to me when I was a boy, and you see, they are sometimes useful to know, equietly replied."

## cold water and long life.

Dr. R. H. Dalton says that although to suggest the methodical use of cold water as a bevangmenting the chance of longevity may render a man liable to be dubbed a crank, if not a unatic, the idea has a soundly physiological origin, and is well supported by experience. Solid and dry as the human body appears, water constitutes more than one fourtin of its hulk, and all the functions of life are really carried on in a water hath, and although the sense of the way raught of water when required, the fuid can reasons besides merely satisfying thirst.
In the latter stage of digestion, when comminution of the mass is incomplete, it is much facilitated by a moderate draught of water, fice stomach, fitting it for emulgence and preparing it for assimilation. Hence the hahit f drinking water in moderate quantities hetween meals contrihutes to health, and indicates the fact that those who visit health resorts for the purpose of imbihing the raters of mineral spriss ming more water and less ome and drinking more water and less nature and the chief agent in all transformations of matter. When taken into an empty stomach it soon hegins to pass out through the tissues hy an osmotic process into the circulation to liquefy effete solids whose excretion from the system is thus facilitated. Very few people think of the necessity of washing the he who would he perfectly healthy should he as careful about the cleanliness of his stomach as that of his skin.- Pittsburgh Dispatch.

## MAN IN SOUTH AMERICA.

There is no part of the world that offers a more curious subject of speculation as to its future than the continent of South America,
as was well set forth in an address hefore the American geographical society, by its president, Mr. Gardiner G. Hubbard.
That the Amazon river system alone drains a basin of fertile land hasking under a climate whole of Europe, 1s an astounding fact in itself. This vast territory is practically unInhahitated. Its aboriginal population 1s
disappearing, or has disappeared, and the whites, who in sparse number take their place, scarcely pretend to come with the expectation of remaining. There are tracts as large as the
whole of France of which we know less than whole of France of which we know less than are living there who are yet ahsolutely in the rumor, never heard of the European race or the use of metals.
The question up to which Mr. Huhbard leads inthropology-that of acclimation. Is it possible for the white race, when it shall be endowed with all the resources of art and science
which it is soon to have in its grasp, successfully to fight against the terrible odds of a tropical climate? He quotes in his favor the
words of the historian, Buckle, and the natwords of the historian, Buackle, and the natwelght; hut it cannot be douhted that most of themselves to this vast lnquirry lean to the under tropical skies.-Sceience.
drop of water sets a building on fire. It is rather an unusual thing to set a build what occurred in the office of the Royal insurance compauy in the Royal insurance building aday or two ago. It was another case the building for electric lights the wire had been run just above a wooden picture-molding Which went around the room. At one point the workman in joining the ends of two wires had simply stripped back the insulating material and twisted the ends of the wires went along for several years without tand any damage. The troubbe cathout doing plumbing got pue troube came when some A little water got on the floor and leave through the ceiling A drop or two fell on the unprotected electric wire and made a conduc tor through the wall to the ground. Thusshortcircuited the current set fire to the picturemolding, and had it been at some other tim qualities of the building. It was a practical illustration to the insurance men of the daugers of faulty electric wiring, and one the will not forget in figuring on future risks.

DO YOU KNOW?
Do you know you can drive nails into hard Wood without bending them, if you dip them first into lard
That corks warmed in oil make excellent Thai a lump of samphors?
press will keep steel ornaments clothes press will
nishing?
That bread crumbs cleanse silk gowns? That milk, applied once a week with a soft That gloves can be cleansed at home by rubbing wi': gasolene?
That weak spots in a black silk waist may be strengthe
That tooth-powder is an excellent cleanser for'fine filigree jewelry?
That a little vaseline, rubbed in once a day will keep the hands from chafing?
That gum arahic and gum tragacanth, in equal parts, aissolved in hot water, make th keep in the house?

## JOURNALISM.

Lectures on journalism are becoming abundant. It goes without saying that nineteen times out of twenty they are hy those Who know nothing of their subject experAnd oh, how beautifully they do talk: Bu If they'll only take a little hack at it in they'll find that journalism means something clse than spider-weh rainhows and pansy beds or we'tl lose our guess. We have never known canvassers, committees who want a lot of fre advertising in the editorial columns "for the good of the cause, you know," etc., etc., etc. Those who presume to instruct journalists and the puhlic on the duties and responsibilities of journalism, and all that sort of pretty talk, would see some things, at least, a little differently, if they'd only get down from their high horse and take a hand at journalism
themselves.- Mriford Journal.

## FIRE LOSS OF THE UNITED STATES.

The Baltimore Underuriter says: "According to the statistics furnlshed hy the United
States census of 1880 the wealth of the nation States census of 1880, the wealth of the nation
was estimated at $\$ 13,942,000,000$. "A ccording to the census of 1890 the property values of the country had climhed up to $862,600,000,000$, a gain in ten years of $\$ 18,958,000,000$. During this ten yaar perioa, accordng to the chronicle nire tahles, the aggregate fire loss of the country
amounted to $\& 1,946,896,654$. While the wealth of the country is thus lncreasing, the fire loss keeps pace in a ratio that ought to make political economists wince. There is no good reason Why the full significance of such a
ratio of destruction of material values should ratio of destruction of material values should he conif ned to the underwriter. It ought to be
hurned into the memory of every legislator, every government executive, every economlst, every business man and every property

## wner.

## CALL NO MAN FOOL.

a novice a fool because his work is not up to your standard of excellence, for ahle to give you points about pour worts that wonld cause you to fustly consider yourself the foole And hear in mind it is not always hold of a thing that excels in a pursuit, hut that it is almost invarianly so of the plodding unfluttering, thoughtful man.

H QUICK WAY For getting a start fortune is to send for our special terms to agents. We want a representative at every
post-office in the land, and to such as have hussling qualifications we will make the most
liberal terms. We helieve "cthe the worthy of his hire," and we will not have anyhody working for us unless we can pay them well for their services. Write at once BIG MONEY. Address FARMI AND FIRESIDE, Philadelphia, Pa., or Springfeld, Ohio.


THE CREAMERY.
Butter must be sweet and clean. That is the first requisite. It can not be perfectly sweet unless the place in which it is made and all the utensils used in its manufacture are perfectly clean.

The old rule was: "Do not use soap to clean the churn"-this referred to sticky rosin soaps.

Ivory Soap can be used freely ; it is the best for creameries or dairies, because it rinses easily and leaves neither odor nor taste.

## The Shawknit Half-Hose have won an enviable reputation, In being the eest-fiting, most comfortable In the market. They difer structurally from all others, In having guscets In the heel, which make the heel large enough to accom- modate the human heel and prevent drawlig over the Instep. Wearers of these

## PERFECT-FITTING

Difference between Knitting and Stretching a Stocking

## 

 the world's fair.Among monuments making the progress of Columbian exposition of 1893 will ever stand couspicuous. Gathered here are the forces Which move hnmanity and make history, the
ever-shifting powers that fit new thoughts to new conditions, and shape the destinies of mankind. Evidenced on every side are suhor dinations of the physical and the enduring
supremacy of the mind, while ready at hand are all those contrivances of civilization which help to elevate and ennohle man, to re fine his tastes, enlarge his ideas, enrich his indespotism of nature. Halos of fresh thought descend and possess us. Questions and amhitions arise instinct with new powers and new illumine the imagination; the aroma of culture fills the air, and knowledge is drawn in at every hreath. Here is vitalizing food for men for refiection, for men of action, a wealth or heritance of the wast and a promise of the future-instrumentalities, each having its induence on the social structure, to the greater piness of the race. Men are flashes of thought, pinhess of the race. Men are flashes of tought,
which come and go; results alone remain. Human nature changes but little, if at all; it is in this laboratory of life, with its enkind ities of progress which underlie the surface polish of society, and which carry all before them.-Y

HARDWARE IN HISTORY
Breech-loading rifles were invented in 1811, but did not come into general use for many sears. It is ?estimated that over $12,000,000$ are While $3,000,000$ more are reserved in the arsenals or emergencies. Statisticians say that there are $10,000,000$ guns of all kinds in the world. 1s06, but not put into prackical use until near
the middle of the century. Now the world consumes $50,000,000$ tacks a day. afactured in 1803 . Their use was ridiculed by
the men of the time Who argued that the
English race must be degenerating when knife and a spoou were not sufficient for table
usoo, Last year a Shefteld frme made over
$4,000,000$.

MIRE CASSIDY'S TOOTHACHE.
No. 1.

" T '11 tie it to the dure, an" let some wan


World's Fair SOUVENIR PLAYING CARDS A Regular Playing Card
 HE WINTERS ART LITHO. CO, 1117 The Rookery, CHICAGO.
10 DAYS FREE TRIAL



## (9) He fimishota.

## MOLASSES.

The sweetest kiss I ever got
I stole it from Merlinder.
Twas supper-time, and we-uns sot A-sparkin' by the winder
When evenln's shades are growin' long, For lore what hour surpasses?
And thar sot we-uns, lovin' strong A-soppin' oi merlasses.
With triflin' things a-rulin' fate Kin lead our path to his'n; The corn-bread slippin' 'roun' the plate Jest made me think of kissin".
Sez I: "Now, ain't that houn' of Sez I: "Now, ain't that houn' of pap's More yallerer than brass is?"
But all Merlinder sald was, "P' But all Merlinder sald was, "P'rhaps,"
Her mouth full of merlasses.
I looked at 'Linder. Oh, her eyes, How blue they wuz! How takin'! Ther filled my buzzum full of sighs, An' set my heart to achin'.
"In old maid's lives no sweetness draps," Sez I, "See my Aunt Cassy's." Merlinder choked and said: "How's craps?" Still soppin' them merlasses.
I felt my face a-gittin' hot, An' 'Linder, she jest giggled An' , a lovin' fool, jest sot An' blushed, an' blushed and wriggled. I'm greener than the grass is," An' 'Linder softly whispered, "P'rhaps," Still chasin' them merlasses.
Down 'Linder's rosy, dimpled chin Long sweetnin' wuz a-drippin She smiled. My head began to spin; My heart was jest a-skippin'. fetched one breath, an' give a jump, But me an' 'Linder waz a lump Of love and of merlasses ! Of love and of merlasses! - Samuel

FALL STYLES-CHILDREN'S DRESSES

HAVIVG the pleasure of looking over a drummer's samples, I can say that the wool goods for this fall have never been more attractire. Plain effects are to lead. In colors, bronze-green, always a loved color for fall, takes the lead. Nav
Braid will trim everything, from all shades of one color to black, and gilt. shades of one color to black, and gilt.
White suits trimmed with gilt braid will be very suitable for early wear, and serve be very suitable for early wear, and serve
for erening house gowns during, the winter. Made in the Eton jacket suit, it can be varied with waists of different colors, made of silk or crepe de chine


Fig. 1.-CHiln's Dress.
Many are taking adrantage of the late sales of summer silks
Some society young ladies produced the Some society young ladies produced the most beautiful erening gowns from the cotton crepon now being sold for fifteen and twenty cents a yard, in very delicate shades of lemon, green and lavender. The
skirts are a long, straight, full skirt, the waist in bebe style, with a fall of deep lace sleeves are one enormous puff to the elborr, made to hold its place with crinoline. straight band of relret around the waist with a lover's knot and ends behind, while w donker's-ear bow is placed on the shoulder. The dresses hare the the lef expensire the drial hare the effect of expensire them their fresh young faces to make perfect their fresh young face
pictures of themselves.
alum the size of a hazel-nut in your kettle (I use the old-fashioned brass one, but a porcelain one will do) and put in two thirds water and one third vinegar in as large a quantity as you wish to use; I do not handle more than the kettle half full at one boiling. Then let them just scald, shaking them about to have all accommodated.
In another ressel heat plain vinegar salding hot, but do not let it boil. Pack your hot pickles into jars or bottles of quart size. I putin as I pack them a tea-


The picturesque dresses for little girls in | spoonful each of celery-seed, black and this issue are not difficult for any one to contriye, and are very desirable for house wear. The skirts always plain, unless a narrow ruffe finish is liked. In Fig. the wrinkled sleeves are very stylish, the shirred neck becoming to any little
face, and the braiding in gold braid upon the corners of the deep collar giving a very effectire finish. A skirt of soft flannel or cashmere should be provided to wear under the dress, and a good idea is to make them of the same material; then afterward the
two can be utilized in the same gar ment as the child grows older.
With the large sleeres will arise the
necessity of capes. The one we gire can be made in heary cashmere, lined with silk and trimmed with passementerie.
Bring out your satin and use this winter, as it will be a very general trimming. Satin sleeres can be put into your Henrietta and gire it quite a new look.
As a trimming for black goods nothing is prettier than black silk bengaline. The black weares this winter are particularly beautiful, showing in great rarieties. Prices for the best are one dollar and upwards.
There is no economy in cheap black goods of any kind. Good black will last for years, and redye and make over for a long time. Put your money in a better body material, and curtai trimming that ever holds its own trice mg that ernas be utilized especially if of a good quality.

Christie Irving.

## PICKLES.

In choosing cucumbers for pickling, they should be well sorted, keeping as far as possible, one size together The rery smallest ones can be bottled for special uses, and those of a little larger size for constant use. All must lie for awhile in brine, making it stronger for the larger-sized ones. have usually left them over night In washing your pickles, take care not to bruise them, or to break the and to makin your pick them, as this tends to making your pickles soft. As my pickles have always met with aror recipe exactly. After allowing them m recipe exacty. After allowing them them to cear water in the morning until su are ready to begin.
 ed pepper, a piece of horse-radish, and fill up with the hot rinegar, and seal immediately.
If $m y$ jars have no tops, I use sealingrax poured on a piece of nem muslin; clap it orer the mouth of the bottle, and put a layer of cotton batting orer that, and then another piece of muslin, and tie down tightly with the selvages. I use this same method to put them up in gallon jars, and have had them keep nicely.
I quit using spices in my pickles a great many years ago. Clores always make them black, and we like this way much tbe best.
If you have large quantities to put up, fully.
For sereral rears I put them down in orine, and pickled them when wanted.
If sugar is disliked, leave it out; but we put some up both ways. Martynias are nic pickled the same way. Grapes can be pickled in bunches by laying theru in jars and pouring hot, spiced rinegar orer them.
But what is the use of living in an age of mod ern improvements unless you avail yourselves of them. Unless you raise your own cucumbers, it our grocers offer, which ur grocers offer, which are put up in kegs. I your family is small, buy nly a small quantity They are rery nice and
come either sweet or come
The California fruit put up in glass is really not any more expensive than when you try to do it orerything, and it is al ways to be depended upon.
Except in localities where fruit is scarce, it is foolish for a housemother to orerwork only that her cupboards may be full. If it ought to be garnered somehow, and one can often change one kind for another with a neighbor. Betriva Holurs.
Agents for this paper make money, and
ats of it. Write for terms.

## AN ARTISTIC INNOVATION

Among the artistsin Paris there is a recent endency to revive Bible stories and translate them into the costumes and conditions of to-day. Never before had stay-at-home Americans so fine an opportunity to study this tendency as in the fine arts palace at the world's fair. 'Two canrases are there which a year ago attracted paramount attention in the Parisian salons, L'Hermitte's "Friend of the Humble," which shows Christ supping with wodern artisans, and Beraud's "Descent from the Cross," where the cruclifion is takiug place on the heights of Montmartre in the midst of a crowd of French men and women such as we see to-day.
Of these two paintings, L'Hermitte's is much more satisfactory. His working people are picturesque, as is sure to be the case in exact proportion as fashionable dress is impossible, and Christ bas not been deprired of the dignified drapery with which we are used to seeing him clothed. Beraud has to contend with the fact that a crucifixion in the suburos of Paris is a most unlikely event at the present time.
A striking picture of this class is "The Host," by Jacques Emile Blanche. The scene is a modern Parisian dining-room. In the background is a sideboard, such as may be found in the home of any family of moderate means. The table is set so that the figure of Jesus, sitting at the head, is between the sideboard and the table, facing the observer. The folds in the table-linen are very realistic. Bread and fruit, conspicuously oranges and lemons for the sake of their color, are arranged for the meal. A child sets at the right hand of the sacred guest, and several men and women stand about the room in polite attitudes. Jesus wears a blue robe. His face is serious and unpleasantly sickly. Leaving the French department and going to the German collection, we find an example in the work of Fritz ron Chde, who has been considered the most successful of all the artists trying this experimeut. Several years ago he painted "Christ Blessing Little Children," which won a high degree of fame on account of its fine technique and beautiful. dramatic quality; but perhaps more because it presented the novelty of being a scene in the Champs Elysees, with little Parisian children under the blessing of the unirersal Christ.
Ton Ulde's "Announcement to the

Childs Cape.
Shepherds" has no startling look of everyday modernism about it. They are slepherds of to-day; but sheplierds of any time or country are picturesque.
In Norway's exhibit may be found "The on of Man," br Chr. Skredsvig. This is a cry large can vas, haviug for a background the mountainous scenery of Scandinaria The principal group of figures is in the

## middle distance, where the most important

 rigure is an ordinary-looking man in a sur of clothes similar to the garments bonghtat "ready-made stores." He has his hands on the heads of two children: around him are the old and the poor. In the foregronnd an invalid is being wheeled in a gronnd an invalid is being wheeled in a
little handcart, by a deroted relatlve, to little handcart, by a devoted relative, to
the central person. Wlthout consulting the central person.
the cataiogne for the name of this pieture, the catalogne for the name of give it the
an olserver would be slow to git proper translation, and even the name would be puzzling withont understanding the soliool of artists who are trying to paint a nineteen th-eentury Christ.

All these pictures have their merits, and the intentions of the artists are praise worthy, but on account of the extreme diffeulty of their aims and the prejudice induced by preconceived ideals, the public is hard to please.

Among the American pictures the one which seemed most closely related to this class is by Edward E. Simmons, "The Carpenter's Son." It pleases because the difficulties are avoided. The shop is jnst such a shop as might have been foundin any country. The man and woman in the
background are typieal of any parents. The beantiful boy, healthy, although thoughtful, as he sits on the bench above the sharings, Is just such a boy as might be loved in any land, and of whom migh be expected divine possibilities
Kate Kauffian.

## PICK.UP WORK.

Nearly every lady now has her separate basket of little linen articles which, in spare moments and nnder her bnsy fingers toilet. This kind of work is commend able, for it brings into use good needlework, an art that a few zears ago bid fai to drop out altogether; but as the needl paints with the shaded silks upon linen beautifnl flowers, care must be taken to
bring the shades as near to nature as bring the
possible.
possible.
Some of the table-centers are hoing simply heumed and trimmed with edges of fine crocheted work. Among the English ladies cross-stitch is held in great aror, and as it holds first place as oldYery pretty effects can be arrived at in it use upon various articles.
The holbein stitch, given on the doily for the water-bottle, is also very pretty. It is best to use canvas to work it, or nse it the canvas must be basted upon the linen and the threads drawn out after the wor is conipleted.

Very beautiful articles in linenwork can be obtained with part of the pattern begun, so as to give the worker some idea of the appearance of the work when finished. The cost of the silks is very small, and mueh pleasure can be derived from it.

I fashioned some beautiful doilies from a pair of old, satin-faced drilling pantaloons in white, that were relles of the past. Perhaps some of you have the same, or vests of the material in your lumber-chests. The accumulation of years in some of our houses needs to be cleaned out, given away and utilized in some way. Then we shonld have less for moth and rist to corrupt and thieves to break in and steal.


## Crocheted Tridiming.



## GILT-EDGED BUTTER.

Why make inferior, low-prlced and undesirable butter when by paying a ittle more attentlon to the details of our gllt-edged butter'? This deslred your glt-edged butter? This desired following instructions: Cllowing instructions
ealthy well fed, propery corel for ealthy, well fed, propery cared for, and kept in clean and comfortable quarters. The cows shonld be fed on hay, fodder,
chop, made of ground whent and oats, to chop, made of ground whent and oats, to
keep np their strength, and on corn-meal r bran to increaso and produce a good low of milk. Plenty of pure water should be supplied, and salt shonld always be placed in boxes within tho cows' reach, hat they may eat as they desire it.
Milikina and Care of Milis.-The cows' udders, before milking, should be washed ffr and wiped with a clean cloth. It is a while milking. The milker should work quletly and rapldiy. The milk should be well drawn from the cows, as the last milk is the richest. Millk very readily absorbs odors, so the place where milk is kept should be free from all odors, pnre, clean and well ventilated. After milking,
mixed by lifting from the bottom to the top of the can several times. Ripening of cream and "butter flavor" is now exwho are noted for their excellent butter make their cream-ripener, which also acts as a butter flavor, in this way: Take from the fresh inilk, in the evening, of the best cow, as much milk as will yield two per ripened; set this in ice-water over night and skim iu the morning. About one o'clock the same day this cream ls heated to $72^{\circ}$ Falnenheit and then set aside, covored, that its heat
may be retained. The next morning this cream-ripener is mixed with the can of fresh cream. This eream, i kept at about $65^{\circ}$ Fahrenheit, and
stirred about oncecach honr during tho

## day, will be ready to clinru in from t

to eighteen honrs. Tho time of the riponing depends on the degree of sweetness of the cream when the ripener is added. In summer, when the cream sours rapidly the ripeuer may be dispensed with, bn in winter, when it is so difficult to get tho There onght not be more than forty-cight hours elapse from the time the milk is

the milk shonld be carefully strained in well-scalded vessels and placed where it will cool rapidly. The greater the temperature (so it does not fall below freezing) between the milk and the snrronnding medium the sooner the cream will rise and the more there will be of it. Indeed, in summer if the separation of the cream from the milk is not hastened, the cream is mostly lost, as the milk sours before the cream rises. A milk-room in which is a shallow tank or box holding cold or ice-
rawn until its cream is churned, and this time can be shortened to twenty-four the bntter is better
Churning. - The charn must be thoroughly scalded aud rinsed in cold water before each churning. This both makes i sweeter and keeps the butter from sticking
to its sides and bottom. The butter bowl and paddle should also be scalded and rinsed before asing. The temperature of the cream for churning should be about $62^{\circ}$ in winter and $58^{\circ}$ in summer, to produce granular butter; to procuce th may be a little higher. If the cream is too cold for churning, place the cream-can the proper temperature. If too warm, place the chnrn in cold water to lower the granular butter, when the butter globules granular butter, when the butter globules
are the size of wheat grains, remove the are the size of wheat grains, remove the dasher from the churn, draw off the butter-
milk, and then fill the churn with cold water. With a perforated ladle remov the bntter from the chnin and place in a strong brine nntil each butter globnle is coated with a film of brine; then remove
from brine and use in the granular form, or press into a cake.
To make ordinary lump butter, churn little longer than for granular butter, gather into a lump, draw off buttermilk and fill churn with water as before. Remove butter as quickly as possible, as lying in the water it destroys the fine flaror of the butter. Salt the butter by adding one onnce dairy salt-one ounce is of butter, if for present nse; if for packing, use more salt. Work the salt intn the butter, draining off the buttermilk as it accumnlates. Then cover with cottu
wrung from brine, and set away
a cool place for twelve honrs. Then repaddle instea a pressing motion of the ontter as little as possible, just sufficiently oremove the buttermilk, as much working injures the grain.
may Butter.-The term "granular butter" may not be nnderstood by all that the butter grain, or granule is proven


## ocheted 'Triniming

with a cheesy substance. This can readily be washed off if left in the granular form, this cheesy matter hecomes incorporated this cheesy matter hecomes incorporated wially removed with worklng. To prepare
tian the cream for granular butter its ripening is hastened by keeping cream at, or a little above, the churning temperature, and frequent stirring. When the cream ls slightly acid it is churned at a lower temperature than acid cream. As soon as the butter granules are formed their temper-
ature is at once reduced by putting them in brine of $55^{\circ}$ temperature. If it is not desired to use the bntter in tho granular form, when it is removed from the brine, press together and it will form the finest,

Packing Butter.-There are two ways of packing, in salt aud brine. Salt packing: Place a layer of salt in the bottom of a large stone jar, and on this the butter, Then cover the butter with a cotton cloth wrung from brine. Upon this place an inch of salt. When more butter is to be added, carefnlly remove salt, rinsing off with water any salt that may have become scattered in uncovering, pack bntter as before, replace salt, and so continue nntil butter is within two inches of the top. Then cover with the brined cloth and add sufficient salt to fill the jar, after which cover with heavy paper, pasting paper
down aronnd the edges. Keep the jar in a cool place.
Brine packing: Place the bntter in rolls or layers in a jar, putting weight npon butter, and corer it with a strong brine. To make brine, to each gallon of water use peter and one half pound of white sugar. When other butter is to be added to the jar, pour off brinc, and replace when but-Miscellaneous.-If the cream of farrow cows and fresh ones is put together it from be thoronghly mixed by pouring from one vessel to another several times, cows will come first, leaving the cream of the farrow cows unchnrned in the butter milk.
milk cow is milked too near calving the and the butter will not come in churning. This milk is really spoiled, therefore nufit for nse. As some cows' milk remains good to near calving, and others' is bitter, perhaps three months or more hefore, a test mnst bo used to decide when the milk is no longer in proper condition for nse. This is the test to apply to decide the milk's fitness for nse, both before and after calving: Take new milk, boil it. If it thickens or curds it is not good, and should not be nsed.

## Sophia N. Reddin Jenkins.

## LIFT YOUR HAT TO HER.

Lift your hat reverently when you pass the teacher of the primary school. She is the great angel of the repnblic. She takes he bantling fresh from the home nest, ull of pouts and fashions-an ungovernable little wretch whose own mother lionestly admits that she sends him to school to get rid of him. The lady who knows her business takes a whole car-load of these anarchists, one of whom, single-hanccel and alone, is more than a match for hiss
parents, and at once puts them in the w:y parents, and at once puts them in the wi,y what expense of toil, patience and soulwhat expense or Lift your hat to her.
 Nisers. No wonder: We have an irresisilily
ittractive paper-it does its own talkink-
while our termere more liberal than ever Wile our terme are more liberal than ever
hfore nffered. Big cart commission. is is
itwo ind ileanant work and permanent.
(7) Six suday giternom.
be careful what you say
In speaking of a person's faults,
Pray don't forget your own;
Remember those in houses glass
Should never throw a stone.
Tre have nothing else to do
But talk of those who sin,
And from that point begin
We have no right to judge a ma
Until he's fairly tried;
hould we not like his company,
We know the सorld is wide
Some may have faults-and who has not?
The old as well as young;
Hare fifty to their ought we know
rll tell you of a better plan,
And find it works full well;
To try my own defects to cure
Before of others tell;
And though I sometimes hope to be
y own shortcomings bid me le
The faults of others go
Then let us all, when we commence
To slander friend or foo,
Think of the harm one word may do To those we litle know;
Remember, curses sometimes, like Our chickens, "roost at home;"
Don't speak of others' faults until

WTHE FIRST QUARREL. ATCH beginnings. There is alWays a point where the entering the progress of disintegration is easy. It is the first quarrel that makes possible the next, (2), and after one or two iations, those who love each other, it may be devotedly, grow accustomed to strife,
and no longer feel horror-stricken at the bare mention of it. The little rift is no more than a hand-breadth, but may widen and the wreck of all household happines follow the first tiny fracture of peace.
In the union of husband and wife, which is the most intimate and confidential relamore than mere superficial admiration, the one for the other, says the Ladies' Home Journal. The two have pledged to each can affect one without equally affecting the other. For weal or woe they have joined hands, and to the outside world they pre-
sent a united front.
And yet, if testimony could be taken, it
would be found that many married people would be found that many married people early years of wedlock. There has been
friction. There has been disappointment. The little rift has been suffered to open the way for estrangement.
life has been singularly tran whose long factory-"we decided, my wife and I,when we were married, that we would never le the sun go down on any lack of peace be pardon, if necessary, but we would never give up the point on which both could not agree, and whate resolved to have no discord." Beware of
the little rift. the littie rift.

> EASY.GOING CHRISTIANS.

Are there any such persons? Are there
any Christians who are not soldiers of the any Christians who are not soldiers of the
cross, or are there some who go to heaven on flowery beds of ease? author of our salvation say on this all-
important question? "If any man will come after me, let him deny himself and take up his cross daily and follow me."
What road did Jesus take? Peter says that Jesus left us an example that we should follow in his steps, who did no sin. head as the birds and foxes? Was henot a man of sorrows and acquainted with grief, and did he not go about doing good? Re tion, that we are to follow in the steps o Jesus. Go about doing good. Make misyourself in every way jou can to further on the cause of Christ. Remember that to doing it unto Jesus, if it is done in his name.-

OUR CHILDREN'S WELFARE.
Parents seek the welfare of their children, and are their truest and most unselfish friends. But there is one fact worthy to be remembered, very few parents are anxious to hare their children follow the same pursued. The farmer often looks for something better than farming for hisson; something better than forming tor have his
the blacksmith does not wish to sons work as he has in the dingy smithy; the physician knows enough about the medical practice to be quite willing that his sons should pursue some other calling ; and so many persons becoming acquainted with the discomforts and disadrantages o their own occupations, counsel their children to follow other callings, with the acquainted.
But no man ever saw a faithful, Godfearing Christian who was not anxious that everyone of his children should follow in his steps, and be faithful servants of the Lord. Said the beloved disciple, "I have no greater joy than to hear that my children walk in the truth" (III John iv); and this is the universal feeling of all true children of God. Could there be a stronger proof that the religion of Christ is a reality, and a blessed reality to those who in Many of them have proved the religion of Christ for many, many years, and they not only hold fast the faith to the end, but strive to induce others to share with them the blessings of the gospel; and their strongest desire is that their children
should be faithful Christians.-Armory.

## the plea of no time.

Nothing is more absurd than the plea of those men and women who insist that they have no time for the discharge o their higher duties. They have no time, forsooth, to read, to think, to pray; no time to spend in social intercourse with themselves, or in pleasant conversation with their children. With a persistency that knows no abatement, they drudge tasks that wear out their nerves, narrow their minds and deaden their hearts. And or what purpose? Simply to get a fer dollars. In some cases the encless "grind" a natural law.
We are entering no protest against hard and steady work. Indolence is a great sin. The primal law, that we shall eat our bread in the sweat of our brow, has not been
repealed. There are tasks for us all-tasks that we cannot shirk or shun withou deliberate unfaithfulness. But unless we voluntarily elect to dwarf our manhood by cutting oursel ves off from the best things, re shall be careful to reserve some por uses. The highest claims are also the first claims. They hold a prior lien on us Until we have given them due attention, we have really no time for anything else in the ingul sight when a creature made In the image of God, compares the relative
ralue of things, and allows those that are of less importance to usurp the highest place in his mind.-Christian Advocate

## A GOOD THING TO DO.

Mr. Wesley treated opposition and persecution as it deserves to be treated. At the age of eighty-seven he wrote thus:
John Atlay has a mind to throw any more dirt upon me, I do not know as I sball take any pains to wipe it off. I have but a fert days to live, and I wish to spend them in
One year later, writing to Dr. Adam Clarke, he says: "Every week and almost papers. Many are in tears on the occasion, many terribly frightened and cry out, 'Oh,
Why, 'glory to God in the highest and peace on earth and good-will among men. That will be the end. If God gets glory and the people get sared, the end will be tradict a low slander," said a venerable minister, "but let the slanderer have all the advantage of his lying report." cannot do better.- Christian Wien



We are accustomed to speak of Raphael, Titian or Turner as great artists. We go their paintings, and discuss its fine points in a hushed tone of voice. We build costly shrines and magnificent museums to hold the canvasses they hare left behind, and re ready to pay enormous prices for a ough sketch with their name or monogram in one corner. And yet
the greatest artist of all-the sun.
The sun's masterpieces hang
The sun's masterpieces hang in all the great galleries of nature-in the sky, in the sea, on the mountain heights, in the woods -at dawn, at noon, at eve; in light or hade. He lays the green upon the leares in spring, and the crimson when the year begins to wane. He paints the clouds at break of day, and again in the dusk which oreruns the night. From his brush come all the hues in rock or cloud, in fern and lower; the ruday cheeks of health, the
glory of gems, the gold of the grain. Nay, glory of gems, the gold of the grain. Nas,
more, the most beautiful orbs of our firmamore, the most beautiful orbs of our firma-
ment would lose their ardent luster and be ment would lose their ardent luster and be
reiled forever from mortal view if he were veiled forever from mortal view if he were
to withdraw his kindly rays. "Life is bottled sunshine.

## FOR THE PEW

Does not the pulpit get more than its hare of counsel concerning its duties, as ontrasted with the pew? Quite as much of the final effect of the sermon depends upon the listener as upon the preacher.
The responsibility of listening well is but ittle, if any, inferior to that of preaching well. Of no avail is the best of preaching, if it meet with a careless ear, a preoccupied mind, and a cold, indifferent heart. Powerless will probably be the minister's most strenuous effort to stir souls that are teeped in worldliness, formalism and there must be much prayer, heart-searching, close thought, and a putting aside of pride. Instead of criticism there should be personal application of the truth. Intead of dwelling on the defects of style and manner in the preacher, let there be honest confession of sin and earnest, prac-
tical reflection. Treated thus, no sermon will be so poor as not to yield some grains of good. - Zion's Herald.

## THE SCOLD.

There was a little boy of seven years in her family, whose business it was to prepare kindling-wood. Sometimes he forgot to prepare it. Seven Fears isn't a very
great while to live in this world, and sometimes people who have lived seven times seren forget things.
This woman who scolded entertains memory which will abide with her forever. The memory is associated with the words f a dying child, uttered in delirium: Don't scold me, mama dear; I forgot the indling, but I'll
The words have burned into her soul. They afford no measure of comfort. She hasn't.scolded anybody for years. There

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FREE


## THE MIGHTIEST WATER.POWER

Boast not of the roaring river,
Of the rocks its surges shiver.
For torrents over precipices hurled For a simple little tear drop
That you cannoteven hear
That you cannot'even hear drop,
Chicago Daily Tribune.

## house cleaning made easy

The very words house cleaning is enough turn the west wind of some households into the keenest and roughest northI have seen it, a seneral uphearal, original, old-time domestic earthquake. This is quite unnecessary. Of course, like many another thing in llfe, there is house nany another thing in llfe, th
If it is accomplished ln a family of two, and your husband stays down town to luncheon, then it can and ough made a season of sweet surprises. But if there are three or four children and only one "maid-of-all-work," it becomes a puz-
zling problem just how to get on and zling problem just how to get on and keep "John" in ignorance of your prostances you may have a clean, fresh breeze in place of the annual cyclone. Worse still, suppose it is a boarding-house with the boarders in it; even then there are two content. In the snall space to be given this article, we will present briefly a genthis article, we will present briefly a gen-
eral outline of this new method, for it is the outcome of reform and progress, which have accomplished much in the way of changing this time so dreaded by all men into a milder form of annoyance, and in some instances the source of admiration of woman's system and good management.
We describe now a family of six, father, mother and four children, with one maid for general house work. There are only three days in the week when house cleaning should take place-Wednesday, Thursday and Friday. The washing and ironing having lts accustomed sway; Saturday is reserved for finishing strokes and gatherlng up loose ends that there has been no time would have been done on Wednesday; a dust-pan and brush cleaning of rooms neglected on Thursday, and the sweeping of stalrs omitted on Friday. . Now let us We suppose that "Mrs. John" prepared the breakfast on Monday while Bridget
was up early at the washing. When this was up early at the washing. When this melaid, "Mrs. John" took the three children with her to the room to be attacked on Wednesday. The oldest boy was at school and numbers two and three are given the
care of the baby brother. Number two care of the baby brother. Number two
becomes now the little waitress. She answers the door-bell and carries messages to Bridget. The more useful you can make your little ones the happier they are. A the appetite for play, and children able to be of any service to the mother should be thus taught in justice to themselves. and piece-baskets as she takes them from the closet, and then carefully scrubs the helves and wipes the paint. A little ammonia or washing-powder is a great
factor in this work. "John" will arrive punctually at one o'clock to dinner, so at twelve this occupation ceases and an hour of help is given Bridget in the preparation
of dinner. Of course, there were interruptions in the two hours just passed. Not withstanding these, the bureau drawers are rearranged and the closet shelves are
drying. There was also time to quickly smooth the hair and tie on a clean apron in which to welcome "John." A dessert This was bought near by, but it could have been made if necessary. He left with a cloudless brow, and unsuspicous of coming vents already in progress.
This is one of our ways to make Monday a less objectionable day. It is a part of the husband's appetite be provided for each day of this crucial period. You have heard the old saying, "Please the mother by praising the children, the father by a good meal." As soon as the regularly recurring dish-washing is over, continue in room
number one. Replace all that is to be returned in the closet. Prepare the children for the afternoon, arrange your own person so that you be faultlessly neat when "Jobn" appears, and there is an interim to enjoy your children and sive them a happy time. Tuesday brings a "epetition of Monday's work in room num-
tacks in the carpet, but do not lift it. It is
ready for Wednesday, when with Bridget's ready for Wednesday, when with Bridgct's
aid it is folded for the cleaner. Of course, the furniture has been dusted carefully, moved into the next room or passage, and covered. While the carpet is away to be and wiping 4 P. M., the cleaning of paint and wiping of floor go on biskiy. In
some houses the mistress and maid retack the carpet; in others the cleaner, by previous arrangement, lays it when he brings it home. This is the proper way. It is heavy work for women, especially when already tired. By five o'clock this can b done, and has been accomplished in the time given, good-sized rooms, too. It does no take many minutes to replace the furniture and all looks fresh and cloan. Of course, the putting up of curtains and the rubbing of the furniture can wait and be assigned to Wednesdays, our odd day, as we term it, and silver cleaned that looks dull. Perhaps John will help you with the curtains gladly; if not, don't ask him. Bide your time and slip in the finishings later on week, because thr in the drawers and the little scarfs for decoration with other prettiness have been prepared before.
The dining-room is the most difficult of all. If at any time "John" announces his
intended trip to New York, hail this time for the dining-room. It is more unusually the case that no such good chance is given. Proceed as in other rooms. Preceding and loosen tacks. Replace as you do them, being regardless of double trouble; it is preferable to the disorder. As soon as "John" disappears through the front door summon Bridget, no matter from where or what, and get the carpet into the hands of the shaker, who will call at nine o'clock. All must now give place to washing-powder and water, chamois and brushes. Rehang pictures, and in time for dinner you may lay
the drugget, which presents a tidy and the drugget, which presents a tidy and
comfortable look. "John" may or may not see that the larpet is notice even though it be silently, the thought fulness that has placed the drugget to
please him, and the consideration that has prepared a the midst of extra work. Truly, this muchdreaded event of house cleaning may be to him a proof of your care and love for him Did you say "he won't even notice the scold if omitted, but he rarely commends Tery sorry for you, dear co-worker, but for all that keep right on, remembering it is not so much what he does as what you do yourself that will be of vast importa When the dining-room is dounts." part of this trying work is over. It will be part of this trying work is over. It will be rections for other rooms after the dinner hour. This new version of house cleaning,
one room a day, with half the work done in advance, is quite practical and possible I clean my house in this way, both spring and fall. Every carpet goes up each spring, for we have matting everywhere, even much easier, and is great economy in of carpets. The matting is raised once in tro years; no oftener is it necessary. The ervation of color and fabric. Try this way, my good housekeepers, and if anything here written seems unpractical or impossible, write me and I'll gladly explain the how and the wherefore. All suggestions over this signature are experimental. Hope Howid

## CHILDRENS' DISAPPOINTMENTS

"They are so trivial; what do they disappointment is just as serious as his grown-up brother's
think for a moment. When we take into consideration the vast universe, and begin to comprehend its wonderful magnitude, its perfect system and the unchangeable laws which govern it, when we think of our own planet, so wonderful, so complete in itself, and then realize that it is only countless numbers, then the idea of dwelling upon our own importance grows absurd; ret everyone of us is subject disappointments, rexations and sorrow and yet we are only little folks grown uly and these little we view them from our grown-np point of view they do sometimes appeal both to our humorous and patbetic sense.

Everyone will have a heart full of sym
pathy, and at the same time a twinkle o he eye or a twiteh out of the merry corner of his month, for the little fcllow who apon being presented to his baby brother
for the first time, burst into a flood o tears and left the room and fled to a corncr of the garret, where for an hour he sobbed
out the wreteleiness of his little heart. It seemed useless to try to eomfort him, of his grief. By and by he dragged his of his griet. By and by he dragged his
miserable little self back to his mother' room, and when she begged him to tell her of his troubles, his tears began afresh, and he sobbed out.
"Oh, mama, mama, what a disgrace to have a nigger in the family
A little maiden had worn for three successive winters gingham aprons of the aprons, tied in the back with two long
strings (just such alprons, as all of us
country girls wore to school). These particular aprons were brown and whitc No wonder the wearer of the brown and
white check began to long for a change.
Something else was pronnised, Something else was promised, and on onc
particular day, when the school-days verc
drawing near, her good father, on a trip to town, was commissioned to bring home
the new school apron, which should be
anything but the detested brown and
white.
How eagerly the brown cyes watched
for the home coming. At the frrst sight of
the wagon, away sho flew down the road
for a glimpse of the new aprons. She
climbed into the wagon, and all excited climbed into the wagon, and all excitcd child
white!
Her
Her father, busy with other things, had with that child's grief, and if one outweighs in promising no ds onen make a mistake promise which means so much to the child ellow when ho, learned that an eager little twas going off to attend the "biggest show "No, you stay home and I'll bring you
"Me suspenders." "Suspenders, whew!" thought the boy.
Even the elephant paled into insignif-
icance, while the inoukeys and the clown cance, while the noukeys and the clown
were completely overshadowed with the
thought of suspenders. boy in town of his size had suspenders.
He would wear them to school the very next day. Wouldn't he crow over the
other boys! Trouldn't he thrust his
thumbs into his "gallus," and stride

Wcll, the show came to an end; the
father came home, and a "suspenderless"
father came home, and a "suspenderless"
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TCALIFORNIA EUCALYPTUS.
He finest Australian Eucalyptus of its age in California is prob-
ably one that grows on Alameda creek, within thirty miles from rears old from the seed, and norr measures ne hundred and fifteen feet in height, and girths nine feet eight inches. It stands where it need not be disturbed, but can be left grow and broaden for centuries to ralian giants of which Baron von Mueller writes, that they sometimes tower nearly fire hundred feet in the air, the tallest members of the regetable kingdom.Vick's Magazine.

## PRESERVING A LAWN.

After a lamn has been neatly lereled, own, and become well set in grass, the

Self-Feed, Six Hole Picker Sheller, with Ear
Elevator attached.
The Keystone X L Hand and Porser Sheller
with Sacking Elevator and Cob Carrier is also shown.
A new Planter and Checkrower combined i arhited, called Tip Top. It is a metal ma mine, having steel frame and polished copper nish. There is no rood in this machine a able dropper, so that it can be used for eithe heckrowing or drilling.
There is also a useful little machine called They have also a Disk Harrow.
They have also a Disk Harrow, with Seede chine. One of its points is that it is provided with a double lever device, whereby either section can be thrown forward or backward independently of the other section. The seeder attachment has fonr speeds.
In has.machinery one of the features is the Keystone Hay Loader, Which, like the Keystone Corn Husker, is the pioneer in 1ts class. The Keystone $\mathbf{M r g}$. Co. has a history that is one of continued growth and rapid developfirm of Galt \& Tracy began business. In $18: 0$

## Wheat tat $\$ 1.00$ masai Books at $\$ 2.00$ BUT <br> Wheat at 50 c . wow Books at 10 c .

This revolution in prices is due to new inventions, stringency of money and over-stocks. Periodical waves of low prices come and go for reasons unknown to the wisest man.

Whoerer dreamed a fer Years ago that you would be growing the same wheat for
50 cents and me selling the same books for 10 cents? And why is this? Well, for one thing, you hare the self-binder and we the perfecting press. These sare out many thousand copies every ten hours. Wheat may go to a dollar again and books bring something nearer what they are worth-at least Te hope so, and that soon; but until they do we must continue to barter. That is certain. Wheat in your graneducate your children. A tro-edged sword cuts both wars. That time has never been hen we could gire you more good books for a bushel of wheat than we can to-day. If You can hare Jour choice for ten cents, or any five for a quarter. Think of it-
fire books for trrenty-fire cents! And they are not printed on rotten paper in small don't do any shabby work. These books are know that the publishers of this paper don't do any shaby work. These books are printed on good paper, in clear type, and bongey; you can have it. We won't be satisfied until you are. That is our motto George Washington had twentr-four rules, 'tis said, to live by, but we hare only one to
lire by and do business by, and though it is as old as time, there is no rust on the Golden Rule yet. premiums is coming in soon and we must hare the space, so we make our readers and
their friends this truly splendid offer. Why, the price is not a tithe of the ralue of the copy of loun If youghman's Pictures,' by the late Rev. Chas. H. Spurgeon, to every ou realize your opportunity you will, as Whitcomb Riley might say, snap these book Select jour five books, make a cross mark in front of each num
and inclose it to us with twenty-fire cents and your address plainly written, when you will, by return mail, receire in return the biggest and best quarter's worth of literature
rou erer saw. Bear in mind, we pay postage and refund the money if they don't suit.

## LIST OF BOOKS.

The Pilgrim's Progress. No. 802

main point is its preservation. This is in no way difficult, if frequent applications of fertilizers are made, and serere wear is not allowed in particular spots, for games or
otherwise. Though fine bone is the best o seed down mith when it is harrowed into the soil, it is of little or no use when sown upon the grass. Instead of that, a good complete fertilizer, using about fire after thè first spring mowing, will keep it up. An odorless brand is to be preferred. Wood ashes alone will keep up the grass for some time; but when this is used it is well to apply some nitrous fertilizer oca the rod, when and where the grass lacks greenness.- Tick's Magazine.

No moldy sub-cellars, difficult of acsess, are needed under the model creamery. Keep awray from them; no rotten and oilshould be spilled ve there, and no milk premises to attract flies. Build a good fif-teen-hundred-dollar creame:-; put a good one-hundred-dollar-a-month man in it, excess of milk, winter as well as summer and you will have an institution in the community that will be of lasting benefi to it.-Farm and Dairy.

## AGRICULTURAL MACHINERY AT THE WORLD'S FAIR WORLD'S FAIR.

To those engaged in agriculture the bnilding of all buildings at the World's Fair is the Ag
ricultural Building. There is not a man who reads this article but will not be amazed and delighted at what he sees in that bnilding Every farmer and every farmer's son wil
view the exhibits in that building with a thrill of pride and satisfaction. The exhibit in quality, in artistic presentation and in in county or state fair ever before seen as Maude S. is better than any Indian pony. To see the Agricultural Building thoroughly rould occupy a full week of any farmer' oughly, he might put in ten hours of ever day from now until the end of the Fair and not see it all, it only remains to pick out the best things and see those without fall. One Mifg. Co., of Sterllng, Ill. It is in the Imple ment Annex, where all the farm machinery The machine attracts the attention of Fodder Cutter or Shredder. This machine is duced all over this country wherever intro grown, and y
Scarcels less interesting is to examine it Scarcels less interesting is the Kesstone
this firm was succeeded by the Keystone Mrg. Co. From time to time the works were enlarged until two years ago the works were re-
modeled and largely rebnilt. They stand on the banks of the Rock river at Sterling, III., and are operated by both water and steam made right in the works.


 Mention this paper.

he tooth out at last


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 age which he adorned and no leas applicabie to the
preesnt times The truthe contained thin them are as
pointed and true to life to-das as thes erer were.
 tolerated in courts he must speak to please, and he
gare leesons both to prince and people by reitais of
tables, which were very popnlar in Athens dinring


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## Siletions

## THE GEORGIA MAN'S PREFERENCE.

## nin' of the faif,

fine up ther
the Midway f
an' Chinesc,
agricult'ral buldin' with its of cheese,
a-standin' there to sho
ey used to cross the ocea
dred years ago,
check 'em just like trunks,
the sleepin'-car exhibit,
But in all the show an' wonders an' the glitter an'the whirl,
Georgy girl!

## equal of my little

## THE MAKING OF THIMBLES.

Ithe making of a thimble there are several operations, the blank passing
into the cup and then the rolling on of the band. Then the thimbles, which have assumed a form ranting the name, are carried to the factory proper, and after burnishing, the more interesting process of knerling ing of the little iudentations which receive the end of the needle and assist in pushing the point through the fabric. The cup is suitable tool knerls the end of the thimble During this operation a peculiar and by no means unpleasant musical sound is emit ted with varying tones. The point of the thimble being reached, a flat knerler finishes the side, and with a sharp-edged tool
the polished cutting at the sides of the band is performed. Then on another lathe it is placed in a hollow block and the iuside burnished. All the oil and dirt are then made ready for the market. Thimbles are made of various metals, those of gold nat exhibitiou at the world's fair of colored exhibitiou at the world studded with a band of forty diamonds satue exhibition is a thimble nine inches laving at one time some idea of teaching an elephant the art of sewing.

HOW SEA.BIRDS QUENCH THEIR THIRST. The question is often asked, "Where d
ea-birds obtain fresh water to slake thei sthisst?" But we have factorily answered until a few days ago Au old skipper, with whom we were con
versing on the subject, said that he had seen these birds at sea, far from any land around and unde
like ducks on a hot day at a pond, and drinking in the drops of rain as they fell. miles or even further off, and scud for miles or even further off, and scud
with almost inconceivable swiftness.
How long sea-birds ca
water is only a matter of conjecture, but probably their powers of enduring thirst
are increased by habit, and possibly they are increased by habit, and possibly they
go without water for many days, if not for several weeks.-Golden Days.

[^8]A high-caste Hindoo is a vegetarian, and so strict is he in abstineuce from flesh
food, that he will not cat auything which has in any way come in coutact with any portion of the body of a dead animal. It possible, he will not allow himself to be who eats meat. He regards the taking of aniunal life and the eating of flesh as heinous crimes. The Asiatic Quarterly Review
describes a recently developed establishment at Woking, England, known as the Oriental institute, the purpose of which is to enable Hindoos who cross the sea to live in harmony with the priuciples of their religion and the laws of their caste, The building was erected ou soil which was uncontaminated by the blood of an-
imals. Separate and independent suites of rooms are prepared, each of which is a
complete establishment in itself. Water is obtained from newly-made wells care-
fully covered the water being drawn with
buctets which her or any other animal product. But fruits
and vegetables of all kinds, grains, lentils and uther pulses, and a variety of vegetable toods are furnished in abunance,
the smallest trace of any sort of food sub-
stance which has lived and breathed is to be found about the place.

UNFERMENTED GRAPE WINE. from the following recipe for years, sends
it in for the benefit of the household
readers: "Take thoroughly ripe grapes, wash them
before picking them from the stems, then take only the best ones and put into a sack
made of stroug material made of stroug material, press all the
juice from the grapes cold. Strain the
juice and putht into stoue jor stand in a cool place till next day. Then
pour off carefully from the sediment. Put
pi on it on to boil, and skim it till it is clear sediment will settle to the bottou. Theu
pur off the clear juice, heat and bottle

in times of sickness. This is really un$\xrightarrow[\text { GNAWING A FILE. }]{\text { communion purposes. }}$

## The rat who gnawed a file supposed him-

 the pile of white chips slowly, inereasingunder his labors. But whenhe used his teeth up, it put a different phase
on the operation. The Bible is a file on
which many a Which many a rat has tried his teeth.
They have ben ganawing at it for gener-
ations, and making an abuudance of chips but where are they? They are in oblivion,
where others of their initators will soon
be if they do whie they do not cease to make war against
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dnee by dued by oplatees-the old, treacherous, qnack treat
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yourp purse, past outrages on your conifidence, pas yoor purse, past outrages on your confidence, pai
failurees Look forward, not backward. My remed is of today. Valuable work on the subj
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"What's wrong wid ye, Mrike?",
"'Tisme tooth yeve jist pulled out

| R. SPERRY'S |
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Harte and Ralph Waldo Emerson; in foreign lands we find that Prince Bismarck paid part of his expenses at school by canvassing, and Napoleon Bonaparte was an agen when quite a young man. Don't be afraid to follow where such men as these have led.
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