

## The Gold That Grows-By Lida M. Keck

People does a lot o' talkin' Bout the streets as smooth as floorin'
An' them houses with no yards;
An'I s'pose they're good-'nough people-- Wouldn't wish 'em any harmBut I can't quite think o' livin'
Anywheres but on a farm.

Course I know you'll be a-sayin'
That I'd make more money there,
When the town-folks has to spare;

But that field o' wheat out yander (Biggest crop I ever see!)
Ain't so bad, eh? An' I reckon
That's the kind o' coin fer me
Talk o' gold! I'd ruther see it Growin' there in that big fiel Than to drudge up in the city Fer the gold my work 'u'd yield.

An' that view there, 'crost the medders To the shinin' little crick, Where the cows comes down to drink,

Sort o' preaches to a feller, Sayin', "Don't you go a way.",
Some folks moves to town, an' likes it, But I guess I'd ruther stay.
Then them black-eyed-Susans growin By the road there-see 'em, sir?Makes me think o' poor ol' mother-
Used to gether 'em fer her
'Fore she left-but, pshaw! these specks, sir, Blurs when drivin thro the dust. Ain't afeerd o' nags, I trust.


## Clover in corn

F. H., Princeton, Ill., writes: "I have read your article, 'A Clover Account,' in the Farm and Fireside of May ist, and would like to know how you sow clover-seed in the corn-field. I sow clover with oats
every spring, and turn it under in the fall," every spring, and turn it under in the fall."
In my article I referred to crimson clove In my article I referred to crimson clover, which of course my correspondent understands is very different
from red clover, such as he sows in his oats. South from red clover, such as he sows in his oats. South of
New York crimson clover is sown in late summer or New York crimson clover is sown in late summer or
early fall, generally in July or August, while in New early
York and some of the New England states it is sometimes grown from spring sowing. With me, however, its special value lies in the fact that it practically remains green all winter, growing late in the fall and maturing early enough in the spring, so that after having served for a cover crop through the winter, I can use it for soiling or hay, or turn its matured growth under in time to follow with some other crop. It thus does me a vast good as a fertility conservative, a fertility producer, a valuable food for my animals, and I sow from other crop.
I sow from ten to fifteen pounds to the acre in the growing corn in July or August at the last cultivation of the corn; or if the weather is exceedingly dry at
this last working I defer sowing, waiting for rain, this last working 1 defer sowing, waiting for rain,
providing it comes before the corn is too big for the proriding it comes before the corn is too big for the
horse to pass through it without breaking it too much. This cultivation is given for the sake of the cloverseed, but may incidentally do good to the corn also. If the clover is not sown until this later cultivation, the harrow is expanded to reach from one row to an-
other, and but one passage is made between the two rows, the harrow-teeth being set to run about two inches deep.
The seed may be sown' with any seeder that throws the seed upward, and five spaces are covered at one passage across the field-that is, the one in which I walk and two on each side of me. If plenty of rain follows the sowing, a good stand of clover may be secured by sowing the seed after the harrowing; but as even the weather-men often fail in telling what the
weather will be, I take no chances, and always have weather will be, I take no chances, and always have
the harrow follow the sower. In dry weather this is the harrow follow the sower. In dry weather this is
important, for if the seed is not covered to a depth of unfailing moisture it may, and often does, sprout and perish.

At this writing (May 26th) my crimson clover has reached full bloom, many heads beginning to ripen. It has been blooming for two weeks. I have never harvested seed. I always buy good Delaware-grown seed for each year's sowing from that season's harvest. The price of seed fluctuates. I have bought it as low as two dollars and forty cents a bushel, and have paid as high as five dollars, and always consider it a most profitable investment.

Our friend's practice of sowing clover in his oats in the spring and plowing it down in the fall seems to be a waste of what might be of more value the following year as a feed than it is so young as a fertilizer,
but the plan is so much in advance of the of stubble-land being plowed and left common one until sown to wheat that it must left to the elemen
W. F. McSparran.

## CRIMSON Clover and cow.peas

The developments of the present season will have a tendency to increase to a great extent the growing popularity of these two hay and forage crops in the state of Delaware. The hay crops of red clover and timothy seem more and more uncertain every year. This spring a dry spell of nearly two months has ruined the late hay crop, and in many cases kiled outright the spring seeding of clover and timothy. In
spite of this, the crop of crimson-clover hay was simsply magnificent, and the weather was ideal for curing it in best coudition. Our best feeders now prefer wellcured crimson-clover hay to any other for cattle and working-horses. It was cut this season May 8th to I2th-just as it reached full bloom. My own crop from six acres was nearly sixteen tons of beautiful hay, perfectly free from weeds and well cured. This was grown on land which produced over one hundred dollars' worth of tomatoes to the acre in 1902, and the crimson-clover seed was sown among the tomatoes at the last working-about July 2oth. The hay crop is now removed, in time to grow a good crop of fieldcorn on the same ground.
The three great points in favor of crimson clover are: First, the certainty and quick growth of the ceeding even red clover in nutritive qualities; third, low cost of seed and little labor required. The crop of crimson-clover hay is now (June 6th) ready to cut, and will soon be in market. Cow-peas are another wonderful hay, forage and
[CONCLUDED ON PAGE 20]

## FARM AND FIRESIDE

THE CROWELL PUBLISHING CO
$\begin{array}{lcc}147 \text { Nassau St. } & \text { SPRINGFIELD } & \text { 204 Dearborn St } \\ \text { NEW YORK CITY } & \text { OHIO } & \text { CHICAGO }\end{array}$
Subscriptions and all business letters may be addressed to
"FARMI AND FIRESIDE," at either one of the above-mentioned
offices; letters for the Editor sbould be marked "EDITOR."

## entered at the post-office at springfield, ohio as second-class mall matter

\section*{TERMS OF SUBSCRIPTION <br> 5 Cents | 50 Cents Year |
| :--- |}

The above rates include tbe payment of postage by us. All
subscriptions compence with the issue on press when the order


Parment. When sent by mail. should be made in Express or
-Post-0fice MINoney.order, Bank Checks or Dratts. When neither
of hese can be procured, send the mouey in a registered letter. Post-office Money-orders, Bank Checks or Drafts. When neither
of these be procured, send the mouey in a registered letter.
All postuasters are required to register letters whenever re-
quested ta do so. Do not send checks on banks in small toicns.
 Postage-stamps will be recelived in payment for subscriptions in
sums less than one dollar, if for erery 25 ceuts in stamps
one oue-centstamp extra, as $\pi$ 隹
must sell postage-stamps at a loss. The date on the "yellow label" shorss the time to mhich each
sulseriber has paid This: Juliga3 meane that the subscriptiou
is paid up to July, ${ }^{\text {T903 }}$ : Aug 1903 , to August, 1903, and so ou. Then mones is received, the date will be changed within
four weeks, so that the label will answer for a receipt. When renewing your subscription do not fail to sas it is a
renewal. If all our subscribers will do this a great deal of
 nember of the family. is the paper is now conning in your cife's
name, sign her name, just as it is on label, to your letter of reneical. iscontinuances,-Subscribers rishing their paper discontinued
should write nis to that effect and pay up all arrearages. If this
is not doe, it thasumed that the subseriler wishes the paper
continued and intends to pas whea convenient.

## Mr. Greiner Says

Pach-tree Borer.-A reader in Kansas tells me home-yard and what pains he trees in a limited home-yard, and what pains he takes with them. are just old enough to bear. A little way above the ground he found a lot of sticky, gumlike stuff exuding from the tree. He followed the hole in the tree-body with his knife, and finally discovered two whitish
worms. Undoubtedly they were the larve of the peachworms. Undoubtedly they were the larve of the peachtree borer, which is often very destructive to young
peach-trees. Usually the point of attack is just at the peach-trees. Usually the point of attack is just at the
surface of the ground, where the bark is soft, but surface of the ground, where the bark is soft, but
sometimes the insect gets into a crotch of the tree. The occupant of a modest suburban home who loves his few trees and vines has the advantage over the
large grower in that he can keep in close touch with every tree. bush, vine or plant on the place, see where injury is threatened, and apply the proper remedies or
means of protection. The large commercial grower means of protection. The large commercial grower
often suffers a great deal of loss before he is even a ware that anything is wrong. Probing for the peach-
tree borer with a sharp penknife and a piece of wire is tree borer with a sharp penknife and a piece of wire is
one of the safest means of protecting the tree, and one of the safest means of protecting the tree, and
is usually effective if attended to promptly-that is, before the borers have done serious harm.

Catalogue Descriptions.-Our seedsmen deserve credit for the usually fair way in which they describe
the different varieties in their catalogues. We know the different varieties in their catalogues. Se know plants, and that in a general way they follow ordinary business methods. just as a grocer or druggist would. Any man who possesses an average dose of common
sense expects them to speak more freely of the good points in an article they wish to sell than of its faults. In this direction all merchants are liable to go a little too far, and some of our seedsmen and nurserymen
habitually, and almost all of them occasionally, do that. Strict business ethics and honor should not allow them to recommend to any customer a purchase which they
know will not give satisfaction. Our Kansas City inknow will not give satisfaction. Our Kansas City in-
quirer tells of the Loganberry. with which he has quirer ter for of the past three years, with the result that the in spring to meet the same fate the winter following. years the canes were annually winter-killed, and finally even the roots gave out. The following is a catalogue
description: "The Loganberry-A hybrid between description: The Loganberry-A hybrid between
the raspberry and blackberry. The fruit is as large as
the largest blackberry, and is produced in immense the largest blackberry, and is produced in immense
clusters. The color is a clear, dark red. It partakes of the flavor of both the blackberry and the rasplerry -mild, pleasant, vinous flavor, delicious and peculiar to are very firm, and carry well. Softong grower; enor-
mous bearer. Fruit ripens early, just after strawbermous bearer. Fruit ripens early, just after strawber-
ries." Possibly the fruit is so oood that it will pay us
to take extra pains with it in giving winter protection. to take extra pains with it in giving winter protection.
but the least we can expect of those who sell plants at
wenty cents each is to tell us right at the start that wenty cents each is to tell us right at the start that
this fruit is not a hardy one and that it is not suited to
the wants of the ordinery cultivator in a cold climate the wants of the ordinary cultivator in a cold climate,
Praying for Ruin.-A large portion of this state
and other sections of the country are at the present time parched up under a nost severe and extraordi-
nary drought. From various places it was reported
that the ministers of the gospel were holding special stances such prayers were apparently answered, and
the rain came in torrents, causing Hoods and great destruction, so that it would have been in order to hold services praying for the cessation of rainfall. I
do not imagine that the prayers of the faithiul had do not imagine that the prayers of the faithiul had
anything to do with the rain or its stoppage. The anything to do with the rain or its stoppage. The
good Lord no doubt knows what he wants without the dictation or interierence of insignificant humankind, who do not always know what they want or what is good for thenn. When the natural conditions are right right for dry weather, dry weather it will be. The best right for dry weather, dry weather it will be. The best this year discovered that a hydrant in the stra wberrypatch promptly and freely used is worth immensely more for the purpose of saving a big yield of strawfrvent prayers for rain. An ounce of thorough cultivation does vastly more good in the same direction than effortless reliance on the help and protection of the Divinity. The heavenly injunction is to work and pray, the former being the chief and most essential part of the combination. This may not be orthodox,
but it is good, straight common sense and business.

A Friend Among Birds.-Some evenings while standing on or passing over the bridge which spans Cayuga Creek on my premises I see numbers of nighthawks, or mosquito-hawks, sweeping swiftly through解 is an interesting bird, this again high in the air. It is an interesting bird, this night-hawk, and yet one country dwellers. Many people fear it as a hawk, and imagine that it is an enemy to chickens, pigeons or smaller birds. In reality the night-hawk is a most harmless fellow. It does not molest the farmers' or gardeners' crops in any way, as it has all it can attend to in filling its crop with insects. As an insect-eater it has no equal, surpassing even the voracious toad. In act, this bird seems to fy with its immense mouth wide open, ready to gulp down any insect that it may
encounter on the wing. When food is plentiful, the night-hawk fills its great stomach almost to bursting. Flying-ants and grasshoppers seem to be a favorite article of its diet, although potato-beetles, striped and spotted squash-beetles and a large number of other injurious insects have been found in the birds' stomachs. A Washington authority has this to say about this bird: "From these glimpses of the night-hawk's food-
habits it must be evident that it is one of our most useful birds. Not only does it do a great our most positive good by the destruction of enormous numbers of insects, but it is to be commended for its negative qualities, in that it not only does not destroy any of use them for nesting-sites. It never touches grain or fruit; it never troubles the garden, and in the orchard it only occasionally perches upon the branch of an apple-tree. It does not even ask a blade of grass with which to build its nest, for it makes no nest. It does not injure the grass by laying its eggs thereon, for its eggs are laid upon bare earth or on a rock. It does not molest poultry nor the nests of other birds. When we consider that this bird renders such a signal ser return, it would seem as if we owe it to the night-hawk return, it would seem as if we owe it to

## Mr. Grundy Says:

Workers, Good and Bad.-It is surprising how many people can come just short of almost
perfect work It is many very. poor workmen and workwomen there are. One hires a fairly intelligent-appearing young man or woman to do farm or house work, and ather hatters hours he is a tonished to learn that they do the com monest work in a way that any really intelligent person should be ashamed of, and that they have the capacity to look after only one thing at a time
For instance, I engaged a girl to assist my wife with the housework, and she appeared to be a hustler. She was here and there and yonder in a wink, but that was all. In preparing a meal she would cook one thing at a time, letting the others wait until that was done. In preparing common vegetables for the table it was
amusing to see her. She would pull up a handful of radishes, select those of fair size, and throw the res aside; she did other things the same way. When they came to the table they looked like they had been pre-
pared for a cow. In sweeping she would make the pared for a cow. In sweeping she would make the ceiling as there was on the floor. We retired her as gently as possible, with nur regrets. etc.. etc., and ment. but a knack of making each motion count for something. She took one step where the other girl times as much

The first girl was born and raised on a farm; but a to neighbors. I have had probably a dozen young people work for me who came from mortgage-wrecked do a good job of work of any sort without being re peatedly shown how and constantly watclied. I have had two boys work for me who were the sons of good We had a girl for a short time who came from a family of wide-awake, intelligent people, and while she was a little giddy about beaus. like most young girls, she
truly was a jewel in the house. She had lots of good, plain common sense, knew how to go about her work, and liow to finish

Nine tinnes out of ten the best workmen and workwomen come from families that have succeecued ñan-
poor, which plainly indicates that home-training is one children who are of the same class. The only way to nake good workmen and workwomen of such children is to train thein in a training-school. If they are raised to be slipshod, like their parents, they go into the lowest rank of laborers, if they do not become tramps. When I was a hired man on the farm I worked with as one could be. Then I have worked with other who dropped things just as soon as they were don using them, and left them to go to rum. I do not ever accumulated any property for himself, while I do know several of the prers who are now will to life. The man who has a large family of children need have no fear of their future if he will train them to thoroughly do whatever work they undertake to take good care of their tools. and to save the pennies. Such children are bound to climb up in the world, and if the parents live to see them well along toward middle fe they will be more than glad that they took the time when they were little fellows.

Thorough Work and New Methods.-It pays to do things thoroughly while one is about it. Many a
time when rushed with work I have been tempted to time when rushed with work I have been tempted to
give things "a lick and a promise" and let them go. give things "a lick and a promise" and let them go
But if one will look over his own experience he will find that it is the thorough work that pays, whether is planting a crop or setting a hen. From the larges to the smallest matter. thoroughness pays. Another thing: Almost every man can make more or less of an inventor of himself. I never do a job of work without asking myself if
doing it-a way by which Quite a number of times I have labor or bette methods of doing common things than I had been used to. The test of value of a new invention or method is its saving of time or labor. An invention that adds to one's work or care is of no value, in fact. An inven tion that is difficult to manage or uncertain in its work is of little value. Many times a new method seems like it must be perfect, but a little practical tes proves that it is sadly lacking. I am not so young and active as I once was, and 1 am using my brain more to save muscle and time. especially the former. I mad a little ditco lithers one day, and one of them said that he had used that method a great many times

Oh, anybody can find such things out for himself," d he.
I afterward learned he knew nothing about it This: Whe thousands of such smart Alecks. It was tools, a little sand applied to the wet grindstone ever few minutes will make it sharpen the tool muc quicker. That is a very simple matter, and probably there are lots of people who know it, but there are lo who do not. If I had known it twenty years ago would have been the means of saving me many an hour's hard, tiresome
worked with a dull tool
worked with a dull tool. always had to do my own turning and grinding, and used to stand on Finally I set my brain going on the matter, and evolved the frame shown herewith. Since it was finished I have sat down and rested while grinding. The sketch show
plainly how it is built. It is all wood except the rod connecting the treadle and crank, which is No. 9 wir The frame is fifty inches long. thirty inches high and nine inches wide. The seat is shown in the sketch The splasher, A, is a strip of board fastened close to ator's legs. The treadle, $T$, is a strip one by two inches square, and is attached to the leg of the frame

with a half-inch bolt. The connecting-rod is bent around the treadle loosely, so it can be moved forwar or backward to suit the operator. A piece of lath, with a slot foo unde the and down in a slot for the treadle to move up and down in. There are what are called bicycle-mounted grindstones on the market, but when one has a stone he dislikes to throw it away to get one that is easier to work. Such a stone mounted in a frame as here described will prove as satisfactory as a bicycle-mounted one. Put a only eno on the wet stone every minute or tivo, lat you can puogh water drip on it to keep it damp, and time In order to make a smooth edge, finish without sand and with a good flow of water.

H $\qquad$ Whe Many Acres? small and large farms receive much discus-
The man who grows sion. The man who grows
asparagus or celery on a few asparagus or celery on a few
acres, getting cash receipts greater than those of the owner of a large farm, may be very sure that no man needs fifty acres of land in a farm; but every one should be able to see that the most desirable size of a farm depends upon the man, the character of the soil and the nature of the products adapted to the farm.
Ten acres may be enough, and on the other hand a Ten acres may be enough, and on the other hand a
thousand may not be too many. It is a waste of time thousand may not be too many. It is a waste of time
to discuss any fixed number of acres as the correct to discuss any fixed number of acres as observation, number for a profitable farm. $h$ owever, that many farms are too large to be handled well with the cash capital and the labor available to the owner. There is lack of thoroughness on Amerto give sufficient labor and fertility to each field. Dependence upon a favorable season to overcome neglect in preparation of land, in tillage or in seed is very common. When a soil is thin, and both seed and cultivation are only modera
lottery, with a chance to come out ahead one year in ten, mor or less. With proper care a rich soil will make comparatively few failures. As farm increase in size, the percentage of neg
lected acres shows tendency to increase. An
far
mil
be
fout
for
pos
a
toe
such
lar
of
clo
it
na
up
ac
a
ric

Value of Land.farm one hundre miles from a city ma be worth three or for handred dollars poses only. If it give a net profit in pota or some othe lars crop of fifty dol of three, and grows clover the third year it is worth the sum named, basing values acre of land or such a field probably was and its begin with, dition has been con-
close attention. It has drainage, it has decayed veg etation in it to hold moisture, and it gets as nearly perfect tillage as can be given. In the same farm other fields may not have any value, if value is based upon ing mental exercise to place valuations upon each fel according to the actual net profit obtained, and the results are apt to be surprising.

THE BEST FIELD.-In a majority of cases there is a "best field" in the farm-the most dependable one for the production of the crop that brings the greates income. Its soil is naturally good, and its care has
been good. Best of all, it has been able to care for been good. Best of all, it has been able to care for
itself. The trouble with much land is that it has itself. The trouble with much land is that it has
sunken to the point where it is not sure to help itself sunken to the point where it is not sure to help itsel when it gets a chance. Clover, heavy sods, catch crops
to make humus-all these are not sure. The land is to make humus-all these are not sure. The land is given a chance so far as time and seed go, and fail
to improve it. Not so with the fertile field. It is up to the point where it is pretty sure, and so it helps to the point where it is pretty
itself to stay above that point.

Helpless Land.-The biggest consideration in American farming to-day is that of putting and keeping land in such condition that it can produce humus for itself when given a chance. The soil falls below that point through too much cropping, lack of drain age, poor tillage or some other kind of mismanagement, and then the store of humus steadily declines, seedings to clover and grass are whole or partial fail ures, and matters grow worse year after year. The soil that is in good physical condition produces humus for itself whenever it has opportunity, and it is the old it is only a matter of physical condition. It is only a comparatively small area of naturally good soil that will not supply itself with the needed organic matte to furnish fertility when it already has a supply of such rotted material to make it retentive of moisture while admitting the air needed for cliemical changes in its store of plant-food. The fertile field can grow heavy sods for itself, and thus help itself.

Midsummer Seedings.-It is not difficult to get successful seedings of crimson or medium-red clove in July or August on land that is in prime physical condition. Available plant-food and a supply of moisture only such soils homend such summer seeding to others who have soils deficient in moisture because deficient in humus, and failure results. As good clover as I have ever harvested was sown in August, but the field was fertile to begin with. A thinner soil may make a fine catch if the season supplies moisture in a nearly perfect way. Usually it does not. The land that most needs help is not capable of being improved by methods that make a rich soil yet richer.

Lack of Moisture.-Ordinarily the failure of the clovers in corn, or after the removal of crops in June or July, is due to lack of moisture. In most soils there is not absolute lack of fertility so much as lack plant. If there were more fertility there usually would

## All Over the Farm

be somewhat less need of water, anyway. Bear ing in mind, then, that water is the biggest factor there would be fewer failures in midsummer seeding if the tillage of the preceding crop or the preparation of the seed-bed were better, and if the seed were put into the earth in the best manner. If the seeding is in corn, tillage shoula at the last wing of the corn half of the peed should be cultivated into the ground two or three inches deep, and the other half should be sown after the cultivator. If the ground is broken for a summer seeding to clover, the work should be done just as soon as possible after the preceding crop has been removed. Then the roller and harrow should be used over and over again. The desire is to make the ground so fine and firm that the next rain will make it thoroughly wet, and settle it so that air will cease to penetrate it freely. Then seed as soon after the rain
had been used on the land the crop would have been deadly falure. The result shows that Mr. Esty's land Now as to the questions different kinds of plant-food. Now as to the questions asked
uited can buy the materials, and make a fertilizer suited to your soil and crops, for less money than you can buy a ready-mixed article of the same grade. Your experiment shows what you should buy, for where you applied the complete fertilizer you had an pounds of turnips to the acre, and where you used the incomplete fertilizer your had an increase of nearly incomplete fertilizer your had an increase of nearly three thousand pounds less than where the complete
fertilizer was used. All the experiments at the New England stations have shown that New England soils in general are very deficient in potash, and the leaving out of the one hundred and twenty pounds of potash, worth say three dollars, cost you at the rate of but
little less than three thousand pounds in the crop.

Mr. Esty says that he wants to plant corn on the plot where
there was no fertilizer there was no fertilizer
used, and beans on the used, and beans on the othvice as to the feradvice as to the fershows very plainly that the plot that was in its present condition grow corn worth gathering, and I would tilization same fersuccessful with the turnips. It is the ally assumed that the turnip crop that the all that is given it, and it is a very hard crop on the land. You want to plant beans there. Beans being a leguminous crop are supposed to be able to obtain their nitrogen from the air, and most of them except Lima beans will do so. Lima beans make no nodules on the roots,
as the ground will bear up a team and while the ground beneath is yet too wet to stir. Sow half the seed, harrow it in two or three inches deep, then sow the other half, and cover with a light smoothingthe land crust. the land crust.
Much land can be seeded successfully to clover in
the summer, but it is a waste of money to sow the the summer, but it is a waste of money to sow the seed where no effort has been made to have a supply
of moisture to start the young plants. David.

## BRINGING UP AN ABANDONED FARM

Mr. Frank S. Esty, Rhode Island, says, "I have taken an abandoned farm, and want to get it in shape to produce paying crops of hay. as quickly and cheaply as possible. What would you suggest, and where would be the best place to get the necessary fertilizer?
How would it do to How would it do to apply potash without the other ingredients? Some of the farmers here buy Canada
hardwood ashes, and apply them to grass-land. They cost nine or ten dollars a ton delivered,"
Mr. Esty states that his neighbors buy Canada ashes for nine or ten dollars a ton. It is to be presumed that they buy them for the potash they may contain. This is an uncertain quantity, and no one can tell the value of any lot of ashes without a chem-
ical analysis. They seldom have potash, and may have less. Of course there is a large percentage of lime in the ashes, but one would hardly pay ten dollars a ton for lime when he can get it for one third that price. There is also a small percentage of phosphoric acid in the ashes, which in the presence of the lime is reverted or insoluble, and you can get soluble phosphoric acid for the same price. So it would seem that the value of the ashes on the
farm is governed by the amount of potash they confarm is governed by the amount of potash they con-
tain. If there is five per cent of potash in the sample, it means that there is one hundred pounds of potash in the ton. The commercial value of one hundred pounds of potash is about four dollars and fifty cents; hence, in the ashes at ten dollars a ton you are paying ten cents a pound for potash that is worth four and one half cents, and can be bought for that in potashsalts near the port of entry. The actual agricultural value of a ton of a shes will depend on the nature of the soil to which it is applied. The commercial value is not. far from six dollars and fifty cents a ton, based on the commercial value of the contents, including lime.
Bought solely for potash, you are paying Bought solely for potash, you are paying more than
double their value when paying ten dollars a ton double their value when paying ten dollars a ton. with French turnips on a sandy loam soil. He used an acre divided into three plots of equal size. On an acre divided into three plots of equal size. On
plot No. I no fertilizer was applied; on plot No. 2 he applied six hundred pounds of acid phosphate, one hundred and twenty pounds of muriate of potash and one hundred and eighty pounds of nitrate of soda to the acre, and on plot No. 3 he applied six hundred
pounds of acid phosphate and one hundred and eighty pounds of acid phosphate and one hundred and eighty pounds of nitrate of soda to the acre. The test plot with-
out the fertilizer made two hundred and fifty pounds to the acre, showing that the land was very poor; the plied, made nine thousand three hundred and fifty-three plied, made nine thousand three hundred and fifty-three
pounds to the acre, and the third plot, where only phos-
and gather no nitro-
gen from the air, hence they need heavy nitrogenous ertilization. On the bean crop 1 would advise the parthe experiment, and to leave out the nitrate of soda. You ask if it will do to use potash alone on the and. No, it will not give the same results. I have itways found that to get the best results with potash percentage of phosphoric acid. Potash has mainly to do with the formation of starch in the plant, and from starch the plant makes its structure by various transformations. The phosphoric acid is mainly concerned with the transport of material for growth and in the ripening of the crop. Both are essential, and your soil s deficient in all forms of plant-food. But for the fact that the beans can get nitrogen from the air it would be necessary to give them a complete fertilizer, and in fact at the start a little will not be thrown away even n the beans. To bring up an abandoned farm you need to adopt a regular system of cropping, and bring in crops ike peas and beans, that will help the soil and furnish food for stock, so that you can obtain manure at home to help out the fertilizers. The results
obtained with grass by Mr. Clark, of Connecticut, show obtained with grass by Mr. Clark, of Connecticut, show
that a thorough preparation of the soil and lavish use of fertilizers pay remarkably well in the production of of fertilizers pay remarkably well in the production of
grass crops. W. W. Massey, Editor of Practical Farmer.

## Announcement of Immigration Contest

As stated in our last issue, June 15th, the $\$ 5,000.00$ Immigration Contest closed
25th, and the fiscal year ends June 30 th.

The names of the prize-winners will be made known at the earliest possible moment, depending of course on the extent of time necessary ports at which immigrants may enter are Baltimore; Galveston, Texas; Key West, Miami and Tampa, Fla.; Boston and New Bedford, Mass.; New London, Conı.; Newort News, Va.; New Orleans; Philadelphia; New York; Portland, Maine; Portland, Oreg Port Townsend, Wash.; Providence, R. I.; San Francisco; Honolulu, Sandwich Islands;
San Juan, P. R., and through Canadian ports. From this you can see that it will take the government some time to get the informa-
tion from distant points and compile it in the tion from distant points and compile it in the form of a report in proper condition to send month of July to accomplish this work, and you should not expect us to be able to give the results of this contest much before the August

## Gardening <br> by т. GREINER

What Better Crop could you select to plant on a freshly cleaned up fence-row than potatoes?
I have never found anything to beat them for I have never found anything to beat them for
subduing a neglected strip of land where subduing a neglected strip of land
nd briers have had full sway for years.
An Aster-enemis:-In the Middle and Southern states there are large black beetles that come in swarms
during August and in a comparatively short time during August, and in a comparatively short time often completely eat the petals out of asters, gladioli, dahlias, etc. What remedy can be used for them?
Has any reader used slug-shot or any other poison
俍 for them with any degree of success?

The Cabbage-maggot continues to be very destructive this year. By leaving plants in cold-frame, grow-
ing them to large size, with plenty of elbow-room, I succeed in getting the stem so large and tough that the danger of destruction by maggots is greatly minimizized. And yet with this enemy it will not do to trust too
much to chance. Tobacco-dust used freely on and about the plants proves one of the most effective fly and maggot repellers that we have

SKIRRET is one of those odd garden vegetables which are sometimes inquired about, but which seem
to have very little practical or commercial value. I to have very little practical or commercial value. I
had a few plants of it in my garden last year. When had a few plants of it in my garden last year. When
the patch was plowed recently $I$ gathered up a few the patch was plowed recently I gathered up a few
clusters of the rather slim roots and tried them raw They have a very fine flavor, strongly reminding one of carrots, but more delicate and pleasing to the
palate. Unfortunately there is not enough of it to palate. Unfortunately there is not enough of it to
satisfy the taste of a hungry person. I will try to find

Poisons for the Potato-beetle.-A reader asks whether it is safe to use Paris green on potato-vines, Of course it is safe, provided it is put on properly.
If used in water, as a spray, and strong enough to do the wed in water, as a spray, and strong enough to
the wromptly (as I like to have it), Paris green is liable to do some injury to the foliage. Iime should always be used in combination with Paris green; and so long as we use the lime, why not better
add the eopper sulphate, and spray with Bordeaux add the eopper sulphate, and spray with Bordeaux
mixture and Paris green? It makes thorough work of protecting the vines against insects, and against disease, too. In place of the Paris green, however,
I prefer paragrene, or green arsenoid, which remains I prefer paragrene, or gree
much longer in suspension.

The EgG-plant, as I have often stated, is not only profitable and highly satisfactory, but also easily grown when you once have secured good plants and
know how to take care of them. I have no assurance of success without spraying, but I have to spray a good many things inelon and cucumber vines, etc.--and every time I have any spraying to do the egg-plants get a
tose with the rest, which is only a few minutes' work. dose with the rest, which is only a few minutes' work.
Thus my egg-plants receive usually more attention in the way of spraying than any other crop in the garden, and the plants are not liable to suff
jury either from beetles, bugs or blights.

The Striped Bug.-Mr. Woodworth, the Perfection plant-protector man, tells the following story
about the striped beetle: "I find the striped cucumabout the striped beetle: I find the striped cucum-
ber-beetle goes in colonies, the same as the ladybug. ber-beetle goes in colonies, the same as the ladybug
They first seek the wheat-fields. When the whea begins to head out, they leave for pastures new. They begins to head out, they leave for pastures new. They
send out scouts, the same as honey-bees. When they send out scouts, the same as honey-bees. When
find a patch of melons, they make a peculiar grating
sound with their wings. These scouts go back to the sound with their wings. These scouts go back to the
colony and report. If there is not much dew, they movc atter night or in early morning, and stop on one
side of the patch and go to work. I spent fifty dollars for lime and all sorts of preparations to protect $m$ vines before I got to using protectors. Now I can go
to sleep at night, knowing my work will not all be in
vain." I give this without comment. vain." I give this without comment.

Early Onions.-I have a few chance onions growing in a strawberry-patch. They are white, and at this
writing (early in June) are already far advanced toward maturity, being two inches in diameter. The
appear to be of the White Portugal type. I do no appear to be of the White Portugal type. I do no
know how the seed or plants got there, or when they were started. It shows, however, that it is possible to grow very early onions in open fields by starting
plants in the fall and wintering them over in open ground. This problem is worth further investigation, and whoever will solve it successfully will have the means of making early-onion growing yery profitable.
I still believe that the Prizetaker. large and sweet as it is. is as hardy as any of our ordinary onion varieties, Still the White Portugal type of onions may give us
earlier onions in open ground.

Dissolving Bones.-One of our readers (F. B.
atrona, Pa.) has a lot of bones which he desires to Natrona, Pa.) has a lot of bones which he desires to
dissolve if there is a practical way of doing it. It is
an easy proposition if he has a lot of unleached woodan easy proposition if he has a lot of unleached wood
ashes, but even then it will take time. Stratify the
bones and ashes in a barrel, and add water enoust bones and ashes in a barrel, and add water enough
from time to time to keep the whole mass moist. In the course of six months or a year the bones will be
softened and can be broken up fine with a mallet. The fortilizer-men's way is to dissolve the bones with sul-
phuric acid, but this is hardly safe for the average phuric acid, but this is hardly safe for the average
farmer to undertake. If the bones are old, and there is not much nitrogen left in them, they represent
simply insoluble phosphate of lime, and the best way to
break thent up and get the plant-fod break thenl up and get the plant-food in them in a
form to become available for plant-nutrition by natform to become available for plant-nutrition by nat-
"rral chemical action in the soil is to burn them in a
"roast of

PLAnt-protectors,- 1 have nothing to say against
lant-protectors. They are a good thing, and I use them to some extent myself. It is an old plan. The eommon form of such protectors is a square frame
(from eight to twelve inches) covered with wire screen (from eight to twelve inches) covered with wire screen
or muslin, or even a pane of glass. By their use I can often sufceed in getting my squash-plants through the period of danger unharneed, when without them almost every plant would be destroyed by the yellowstriped beetles. The man of the patented Perfection plant-protector, alias Gold Mine, tells me that this year he has set out tomato-plants, cabbage, planted in April. The soil was banked up around the protectors from the outside, to prevent cold air coming through underneatl the protector. There were several frosty nights, the ground freezing quite hard outside, yet the plants came through in good shape, and June, while his tomatoes, cucumbers, etc., are well adranced, notwithstanding the lateness of the season

Egg-plants for the Border.-I was wondering this year what to put in some of my flower mounds
and borders, also where to put the egg-plants for which I had neglected to make provision in my richest garden-spot. I finally concluded to use the eggplants for the mounds and borders as an ornamental object, and at the same time utilize those rich spots
of ground for a very practical purpose. I can hardly imagine anything more ornamental and more striking that a group of well-growne egg-plants-bushes of thrifty tropical growth and loaded down with those edible size at a time on each bush. In short, the eggplant is the one thing above all others in the garden to combine the ornamental with the useful. In a year like this, however, when the plants are very scarce, and in some places unobtainable, I take especial pains with them, and good care that they are not exposed to dangers. I plant them in large wooden plant-boxes (four and one half inches in cube), and keep them
growing in the greenhouse or in a frame, well-progrowing in the greenhouse or in a frame, well-pro-
tected until they are of quite large size and not so tected until they are of quite large size and not so easily injured by potato-beetles, which are especially fond of the egg-plant, and often come upon the plants in great numbers, doing them considerable damage even before the poison on them can take effect. Then along in June, when the soil is warm, and the weather plants, they are taken out to their summer quarters, carefully planted, and sprayed at once. If the potatobeetle troubles the plants I may use a little dusting of tobacco-dust, and this will drive them off. From all this my friends will understand why I think so much of the egg-plant, and why I feel that I must have them, no matter at what cost of care or watchfulness.

## Fruit-Growing By S. B. GREEN

San Jose Scale.-Z. W. A., South Carver, Mass.
The twigs inclosed with your letter are infested The twigs inclosed with your letter are infested
with scale-insect, which is unquestionably what is known as San Jose scale. This is perhaps the most dreaded of all insects that infest trees in this country. The remedy has been referred to so often in
these columns that it will be unnecessary to repeat it.

Negro-bug on Strawerrites.-J. C. H., Sparta, Wis. The bug which you inclosed is known as the ea-like negro-bug (Corimelæena). They may be found on plants of all kinds, sometimes in considerable num-
bers. They suck the juice, but noticeable injury is rarely inficted by them. Their most disagreeable rarely in layicted egy them. Their most disagreable blackberry and raspberry, and if these are crushed in eating, a very disagreeable, bedbuggy taste is noticed.

Pqanting Black Locust and Hardy Catalpa in Old Forests.-H. E. S., Camas Valley, Oreg. The black locust and the hardy catalpa are both light-de-
manding.trees, and will not do well under the shade of manding.trees, and will not do well under the shate of other trees, and I doubt if you will be successful in
getting a stand of them by sowing the seed among getting a stand of them by sowing the seed among
standing timber. The seed grows easily, and would解 case of standing timber where there is considerable
light among the trees your suggestion might work out.
Pluns for High Altitudes.-W. T. R., Saratoga, Wyo. I think that some of the native Americana them do very well in Assiniboia, where the season is very short and the cold very intense. The hardiest of the named kinds with which I am acquainted are Cheney and Aitkin. If you wish to enlarge the list, and include some that require a somewhat longer season, but are hardy in Minnesota and generally more
desirable than those mentioned, I would suggest that you try De Soto and Forest Garden.
Fruit-trees Fatling.-M. B. W. Fort Worth, Texas. I cannot understand why such fruit-trees as
cherries, mulberries, plums and peaches so often fail cherries, mulberries, plums and peaches so often fail condition. Is this a common complaint of fruitcondition, is your immediate vicinity, or is it a special soil-cond own pacell as to improper varieties to poor soil-condition, as well as to improper varieties
or lack of pollination? I should have to know more completely about the circumstances surrounding your orchard to answer you intelligentl.
Rose-worss.-L. C., Alma. Mich. If you will send me a specimen of the worm that is injuring your roses,
I think I can identify it. From your description I have an idea it is one of the foliage-eating worms, and that it will be readily destrnyed by white hellebore
mixed with a little flour. If you to a litlle to get gooder results froin the use of this material, I would suggest that you try strong tobacco-water, made by steeping
the stems in water until about the color of strong tea.

Scale on Orange.-J. R. E., Baxter, Kan. The with a common greenhouse scale, and the best treatment is probably to use whale-oil soap and water In applying it, use a tooth-brush for scrubbing the loosen the scales, and permit the soap-suds to do it work in killing them. After this operation, wash thor oughly in clean water. It may require several treatonce got ahead of the scale I think you will be able to keep it free by treating it once or twice a year.

Cinders Around Frutt-trees.-F. S., Old Fields, W. Va. Cinders from a blacksmith-shop might be useful around fruit-trees or bushes to keep down weed and to prevent the soil from packing, but of cours hey are not nice things to work into the land, and on I do out think they would be especially help ful in eeeing insects away from the especially helpuin blacksmith-shop are ofttimes a fairly good fertilizer they are not too coarse since they generally contain more or less of very rich in nitrogen. Thie cinders will not injure the grow th of the trees, and they might possibly be soine-

Borers in Apple-trees.-H. E. M., West Warren, Pa . The best remedy in the casc of borers in appletrees is to look the trees over in the summer and dig plan for you to protect your trees during June and July with a wash of soft soap, thinning with lime white-
wash to the consistency of paint. This will have some wash to the consistency of paint. This will have some on the trees. Where trees are badly infested, I think a very satisfactory remedy is the bisulphid-of-carbon oreat-dronper. which consists in using this liquid borers are found inject the liquid from the oil-can into the holes, and then stop up the holes with a little putty. The vapor of the carbon bisulphid is sure death to the insects confined with it.

Plant-Lice--J. J. S., Becker, Minn. The leaves
your box-elder tree seem to be badly infested with of your box-elder tree see is the sole trouble. I do not think the flies which you sent in the bottle had anything to do with the injury to the box-elder. If the oliage of this tree was sprayed with strong tobaccothis is a very considerable task, and I doubt it you will want to undertake it. It is probable that these insects,
while very numerous this year, will not be so troublesome again for many years. I do not think they will kill the trees. I think I have never seen foliage as badly infested with lice at this season of the year as
the specimens which you inclosed. If the trees were small, then spraying with tobacco-water would be quite practicable. I occasionally use tobacco-smoke ing a smudge of tobacco-stems under them. If you decide to make an experiment with tobacco-water, you should make it about the color of strong tea. The

Borer in Elder-Lice on Roses.-W. M. B., Minneapolis, Minn. The borer that works in the stems o elder is very numerous in some seasons, but seldom burn the affected portions, or cut out and destroy the borers, as soon as the canes appear to be infested. You probably do not notice that there is anything the matter with the canes until they begin to wilt, when it is too late to save them. However, the Golden elder pruning, and I sometimes think that the best way o treating it is to cut it off at the top of the ground eacl season, when the new growth is of a brighter color than that on the older wood. The rose-lice of which you complain are best killed by dipping the ends of the branches into tobacco-water, or by spraying this water on the plants. To be effectual it
should be done consecutively for several days, but the shoulc be done consecutivery for several days, but think the best way to make it is to pour scalding water on tobacco-stems, and use treatment, but for them a somewhat better remedy is to spray with water containing a small amount of teaspoonful to a gallon of watcr.

Resurrection - plant - Plant - lice.-V. B. C., the common form, called Rose of Jericho. This socalled plant, which is similar to others of the samc name, is not a plant at all, simply the dried seed-cluste which when dry closes together, but when wet opens out and appears green. When rold together seed-cluster breaks ofin the old plat, af the ground rolled along by the wha on the When it reaches a moist sit seed starts into growt. cluster. Your disappointment in this matter is nothing uncommon, as. I have frequently met others who thought as you do, that it could be started into a new plant. There are other resurrection-plants, some of Which will really grow when put in a moist place The green lice plants, that dry up in dry seasons.be found collected together at the ends of the nev growth. The best remedy for them is strong tobacco water, made by soaking tobacco-stems in hot water.
If the leaves are not too mucli curled, so as to protect the lice, this material may be sprayed on the tree with good results. If the leaves are much curled,
way is to dip. the brancles in a basin of liquid.

I
 the street, which
usually they claim, T MAY be a rep-
etition to call attention to the feeding of corn
son opens, but the meat from now on, meat from now on, the larger will be the heating, and while it promotes animal heat in winter, at a time when warmth is required, yet it is the most unsuitable of all foods when cold weather passes
away, as it is a carbonaceous food and deficient in mineral matter, though

## MARKETING DUCKLINGS

Young ducks should be marketed when they weigh about three pounds, and they niay be sold either alive or dressed, the carcasses. The proper time for selling young ducks is in the summer, and they
should be plump and fat, but they must be hatched early or they cannot attain that weight before prices begin to decline

## ANIMAL-MEAL

The ordinary ground meat, also known s "animal-meal," contains meat from which all fat has been pressed under large proportion of bone. Considering the price at which it can be purchased, it is a cheap and excellent food. No food is better than ground meat for geese and used for chickens. It is not equal to cannot be conveniently purchased from a butcher, ground meat may be substituted.

## excellence of varieties

The inquiry is frequently made in regard to the superiority of certain varieties of a breed, such as whether Brown Leghorns are superior to the White or
Buff varieties, or Barred Plymouth Rocks compared to the White. Color of plumage is a matter of preference only. and Barred Plymouth Rocks in laying qualities or hardiness. Some object
white birds because the plumage is more white birds because the plumage is more seem to "show dirt" less. There is no advantage possessed by any kind so far

## SUMMER GREEN FOOD

If a small patch of ground is sown with Essex rape, it will serve the fowls with green food during the whole summer. in yards, the rape will serve as anchange and an excellent addition to the ration. Belonging to the cabbage family, rape
may be substituted for cabbage, and it may be substituted for cabbage, and one third the cost of cabbage, a very will grow a new crop as fast as it is used. The seed can be had of any seedsman, who is interested in poultry

## SELECTION OF BREEDS

Amateurs who are not familiar with the merits of the various breeds find it difficult to make a selection. Everything depends on locations and condi-
tions. The best breeds for confinement tions. The best breeds for confinement
are the Brahmas, Cochins and Plymouth Rocks, the first two breeds being easily kept within bounds by a fence only three
or four feet high, but they readily become overfat if too highly fed. The leghorns and the Minorcas are excellent large combs, which are liable to become frozen if the winter is severe. The
Wyandottes are of medium size, and are excellent for nearly all purposes, but are not as active as Leghorns or as con-
tented as Brahmas. They have rose combs, yellow legs, and are excellent layers. The different varieties of Wyan-Buff-differ only in color of plumage, their characteristics being the same. The best breed for laying is
the breed as in feeding.

## PRECAUTIONS AGAINST DISEASE

To an observer, scaly leg is simply a accumulates until the legs are double the ordinary thickness. This accumulation of scale is the work of millions of par-
asites, which store up matter on the legs asites, which store up matter on the legs
as industriously as the coral insect works on the reefs; yet the closest examination kinds of parasites cause skin and bowel diseases and other ailments, while lice take advantage of the work of the parThere are so many different kinds of lice and parasites that the closest vigilance is necessary in order to keep the poultry-houses and birds free from at-
tack. Fortunately we can partially prevent the difficulty by the free use of

No matter how free from attack the birds may appear to be, the precaution should never be neglected. At this season, when housands of young chicks will soon be and the liability to attack increased hence, if the chicks are to be raised they should be examined frequently.

## FRESH AIR FOR CHICKS

We believe it was Helen Hunt Jackson who described the wonderful cure of an invalid by simply swinging a ham-
mock outdoors and sleeping in it in all weathers at night to get the benefit of fresh air. This is a favorite cure of doc resh air. This is a favorite cure of doc it becomes a fad for poultry-breeders to give their flocks fresh air at all times w will have better poultry and more of it. A little later in the season people will complain that their young flocks are at a standstill, that they are not growing, watch was kept on the size of the growing flock, and the room increased in pro-
portion to the increase of growth, there portion to the increase of growth, there
would be no check in growth from overold they should be taught to roost in open coops, and if these coops are mov-

ble, so much the better. It is easier to move the bad smells from the former method.
The poultry-house is better to have a
est some time this summer. It should be thoroughly disinfected, whitewashed, and treated for lice about the time the shens have stopped laying and are beginning to think of molting. The hens turned outdoors to roost will store up eggs later on.-Wallace's Farmer.

## RAISING CHICKENS IN TOWN

It surprises one to see how many a child, can and do raise on a bit ground no larger than a good-sized table-cloth In the cities many persons raise chickens for their own use in small inclosures, and a few raise them to make a small profit. We know one little girl who preferred to take five hens and a rooster in place of a skye-terrier and a
white kitten her papa said that he would white kitten her papa said that he would
buy for her. She feeds them the tablescraps, with an occasional feed of whole She has forty chicks so far from her five hens, twenty now so from her fiv hens, twenty now $\begin{aligned} & \text { nemost ready for a } \\ & \text { restaurant-keeper near by, who has }\end{aligned}$ promised a good price for them. Bepromised a good price for them. Be-
sides the pleasure it affords her to be the owner of so much live stock, it is teaching her habits of saving, of looking out for the comfort of something by way of
profit. of doing work at regular hours. profit. of doing work at regular hours.
In the small city inclosure for chicke extra care is necessary in the matter cleanliness, and not crowding too many together. If the yard is well drained,
and fresh gravel put on the bit of ground given over to their use, disease-germs lime often and plentifully, vermin-powders to keep down mites, and all the the chickens will breed healthy and thrifty year after year in these small pens. I have known them to have few diseases in these places than on farms. One can raise chickens in plenty in
small back yards of the village home. small back yards of the village home
With an alley to take a run in, or even

MIXED FLOCK enough to know when to come have sense at and roost. Sometimes one loses and trolling them in for his own use, but these cases are rare, and one must expect
some losses along witl the profits. It you are ever in doubt which you must raise, garden or chickens, on a village
back yard, let the garden go, and raise chickens. Garden-stuff is cheaper than chickens.-Twentieth Century Farmer. PROFITS AND BREEDS
The best way, to enjoy keeping fowls all the receipts and expenses. It is an exdone and how to economize. profit can be made with a flock-that is, while the receipts may not be large, yet the comparative profits on small flock pays because it consumes much waste material that would otherwise give no return, while a home nur
ket always exists as long as ket always exists as long as eggs are used in the household; and it may be the candled stock usually sold the candled stock usually sold as such. managing a small flock, and all the mem-
bers of the family become interested The enjoyment will be greater if some
pure-bred variety is used, the aim being to excel in all the requirements of the breed. Children make pets of the fowls and chicks, and that is a point in favor looked. Some breeds can endure close confinement without injury, as they have been bred for that purpose. The Brahmas and Cochins may be mentioned a examples. They have small wings and fence, and are contented on a limited area of ground. If the active breeds which delight in foraging, such as Legthey will attempt to escape at every opportunity, and if they fail they become discontented unless kept actively at work to work diligently for all they receive. If not so managed they begin to pull feathers from each other, and learn other vices which render fowls unserviceable
and unprofitable. Good results are oband unprofitable. Good results are ob
tained from birds kept in confinement, but it would be well to consider the will adapt itself to circumstances.

## INQUIRIES ANSWERED

Feeding Ducks in Summer.-E: L Easton, Pa., asks "how to manage ducks ing." The best plan is to turn them ou on a field, giving no food at all, as ducks
will consume not only insects, but also grass and young weeds.
Loss of Chicks.-J. R. S., Warren ton, Va., states that nearly all of his young chicks die. He feeds mostly corn meal. In reply it may be stated that corn-meal is a very incomplete lood fore allowing almost anything that they will Lice on Turkeys.-E. B. M., Wheaton, Ill., asks "how to "prevent the large lice
on young turkeys." Such lice come from the turkey-hens. Apply a little melted lard olso a drop on each chick. The best preventive of lice of any kind is the ad vertised lice-killers.


THE PLANO 6 SHREDDER \$ to fine corn hay of highest
value. This Husker and Shredder works fast
enough to yield big profits —husks and shreds acres in a day. $\qquad$ Belt prevents all clogging and makes clean husking safe-nocrippled operators here, for they nor easily get at
husking mechanism



|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |


\$5.00 A DAY mate by inationess
 Much cheaper than salt, ice or any other preservative.
Requires no labor to apply. Write and get a quick selTHE SWAN CHEMICAL CO
WEL Pay Thererich
(3) = = = wa

Thand ese, yity Thompson's Eye Water


Sinicisil
 CHILDS SO-BOS-SO KLLLY
Kills fies and all insects: protects horses as well
as cows. Periecty larm tess to man and beast
Res.
 antiseptic; Eepeps stables, chicken hons
pens in perfelly

CHAS. H. CHILDS \& CO., Sole Manulacturers,
14 LaFayette
Street, Utce, N. $Y$.
EXTENSION AXLENUTS

 PONTIAC HDW.
Box 60, $\quad \begin{gathered}\text { SPLTY } \\ \text { Pontiac, }\end{gathered}$ SEPARATORS AND POWERS
 GOODWIN'S FLY KILLER


HEAVES CAN BE CURED
 ABORTION Retention or placenta these diseases. Write for circular. Adrress
H. WV. KELLOGG CO., St. Paul, Minn.

## NO HUMBUG

Live Stock and Dairy
where the cow gets her start

S

 will be all right, so that the calf reaches thie age when shie takes here place among the milkers of the herd. If she simply
lives all right; that is enougl. lives, all right; that is enough.
This is $t$ mistaken idea
This is a mistaken idea. The calif as any other member of the herd from
the start if we would realize anything tho start if whe would realize anything
worth the while from her. What does worth the while from her. What does
this mean? It may best be explained by
giving once more the methods of the best growers of calves. According to
up-todate methods the calf when say up-to-cate methods, the calf when say
four months, old is given a place with other calves in a little yard, if it be sum-mer-time, where it may get fresh air and
sunshine. It has its due ration of milk. sunshine. It has its due ration of milk.
care being taken never to overfeed, and Seing careful always to have the milik
warm when feeding. This is followed warm when feeding. This is followed by a
ration of bran or buckwheat shorts, with a little oil-meal mixed. This is siven
a followed by a ration of lay During the time of feeding the calf is kept in stanchions, to prevent sucking other calves and to insure its getting its fair share of When the weather is hot, he call should be kept supplied with, plenty of fresh
water and in fy-time it must be given a Water, and in fy-time it must be given a
lace of escape from its tormentors. phace of tscapelf will ly grow up to be a
Thus fed the calo
Tt will go out to pasture in the foll like any gow. but wo pasture in ted all the
first winter first winter grain and milk if possible. This plan will insure a cov that will do
business if there is any business in her.

FOR THE BEST MILK
During the last few years there has been such extensive discussion through
the daily press of the many shortcom-
growth of their consumptiont las been in
terfered with. As the city milk-consume-
ter
sees hiss glass of millk on the tonslume, his
mind by a process of reversion brie,
mind by a process of reversion brings up
all he has read and heard about uncleanaliness, adulteration, preservation, cermms,
line
lact the milk is drank at all it it is taken with
a reservation of conf fidence that generally makes a second glass inpossible. The
milk may be, and doubtless is, as pure
and uncontaminated as its unnavid pube
association with man will pernit it tabe be but the consumer takes the benefit of the
terial changes becomes very manifest
With the most careful With the most careful milking by hand,
surrounded with the inost complete san surrounded with the most complete san-
itary conditions, absolute purity is impossible; whereas in instances, where the nilk is exposed to less favorable condi-
tions. the removal from purity increases rapidly, In either of these cases the me hanical condition of the milk is imroved if it is run through a centrifugal separator immediately after milking, whis removing ail solid foreign matter as
weducing the bacterial content. That this reduction may be maintained it is of course necessary, as I have said to hold the milk at a temperature below
the cultural demands of the reduced germs, as they increase under favorable onditions with marvelous rapiditity.
It ti it is understood, of course, that after separation the millk and cream are again combined, for the process of separation intended to be only a method of purifi-
W. F. MCSPARRAN.

ETCH, COW-PEA AND SOY-BEAN HAY AS SUBSTITUTES FOR WHEAT BRAN
The following is a summary of Bulletin No. 123 of the Alabama Experiment Sta
The object of the feeding-experiments herein described was to ascertain Whether hay made from hairy vetcl cow-peas and soy-beans could be advanageously substituted for most of the
Ieat bran in the ration of dairy-cows. Ah in calculating the cost of Sh in calcula ting the cost of food
Vheat bran, twenty dollars; vetcl hay
her dollars; cow-pea hay, ten dollars meal, twenty dollars; cotton-seed hulls,
Vetch hay proved fully equal in feeding value to a similar weight of wheat bran. By this substitution the cost butter was reduced twenty-five per cent which is equivalent to a monthly saving
of twenty-two dollars and twenty cents in a herd of twenty cows. .TVith the vecth ration the cost of foo Cor one pound of butter averaged ten tentlis cents when wheat bran was fed. "The waste in feeding vetch hay wa the amount offered, and with cow-pea hay about sixteen per cent; the latter part of the ration.
That portion of the cow-pea hay actualy eaten proved fuly equal in feeding
value to a similar weight of wheat bran.


HAMPSHIRE YEARLING EWES
doubt, and the milk trade does not grovy commensurate with its relative impor-
tance to human food.
I do not mean at all that the consumer should remain in ignorance of any faults will not take into his mouth those things offensive to his stomach; but I do mean yenders of it should so hedge the sensi-
ive fluid food around with safeguards ive fluid food around with safeguards should accompany it from the cow to the the clean. healthy cow, the clean stable,
the careful. tidy milker. clean pails and cans. absence of dust tand dores, thorough
cooling ind low temperatre
As milk is the most perfect food for As milk is the most perfect food for
man or animal, it also is the most favor-
able medium for the development of bac tere medium for the development of bac-
terial growth, and while the common idea that all bacteria are harmful is very
erroneous, the conditions that as a rule encourage the multiplication of the harm-
less ones encourage equally the harmful Tess ones encourage equally the harminth
ones. One of these conditions warmth
and therefore the necessity of reducing

Charging the cows with all the cow-pea hay had eighty-six per cent of the ped ing liad eighty-six per cent of the feed
inheat bran, one ton of this hay being equal to one thousand seve hundred and twenty pounds of bran. dollars a ton cow-pea hay was worty seventeen dollars and twe
vetch hay twenty dollars.

## The monthly profits

our dollars and sixty-five a cow were etch ration, and four dollars cents on the
"O of the cow-pea ration.

## est produced butter at a cost for foo

 pound when fed on the vetch ration. Cutter did not decrease the waste in feed cutter did not decrease the waste in feed"Four and one half per cent more butter was produced with soy-bean hay than

more feature demonstrating the anqnestioned
merit of Superior Seeding Machines. The above
illustration shows the Superior Dlsk Wheel with sliding Pinion. It consists practically of 13 wheels of different sizes cast upon a
plate. Wlth it 13 different sown from each aide of the distrihnter whe This dispenses with all loose wheels and all side draft. There are no removahle geare to get lost and cause annoranoe. Change of qnantlty hy is free tells all ahout this and other Supe

## SUPERIOR

 Built solid and strong fill not choke in trash man or boy can do perfect seeding in any fiel under all conditions. Superior Soeding MaSUPERIOR DIVIIIONamerican seeding machine co. SPRINGFIELD, OHIO.
H. \& R. SINGLE SHOT GUN

$$
\begin{aligned}
& \text { The cheapest absolutely safe gun, with it it } \\
& \text { provements found heretofore only in th }
\end{aligned}
$$

highest priced. Perfect in model and co struction. Simplest "take down" gun made
Top snap; center hammer; rebounding lock
$\qquad$
$\qquad$
Harrington \& Richardson Arms $\mathbf{C}$ Dept. 21, Worcester, Mass


4

## 100 OHIO FARMS FOR SALE

E. II. KISTLERT. Farm Agent, WARREN, oHII

## SCALES

## BUGGIES

## SOUTHERN FARMS 

 Cow prices, easy
## Live. Stock and Dairy

FISTULOUS WITHERS AND POLL.EVIL.

F"thistelow," is a running sore that follows the fornation of an abces hers of lorses. or in the upper part poll-evil is a similar condition withers ing in the region of the poll.
vil are caused by specific orms ainit ntrance to the system, probably through regions above described where the roducus, or matter, to form, and thus they may be caused or aggravated by local injuries. such as blows or ill-fitting
collars or saddles, liitting the poll against the ceiling, or fromp pulling on a halter. velling of the withers or poll, usually on ne side or the other; this swelling is the muscles of the welling becomes more prominent in
ome part. softens, and unless opened, breaks and discharges pus. or matter. smooth "false membrane" that secretes pus and is very difficult to heal. Some-
times a fistula of the withers! or poll-evil, will discharge for a year or two, and fre quently causes the death of the animal. often possible to cause their absorption part with lot water, rubbing and knead ing the parts thoroughly, and applying ing: Strong ammonia, one ounce pintine, one ounce; water, one ounce applied once daily until the skin begins few days. then repeated. Application of tincture of iodine and blisters are also used to "scatter" fistula and poll-evil. ated it is impossible to "scatter" them, then they should be opened freely with a knife; good surgeons often dissect them incision shonld be made as low down as casses a cavity will be found with one more "pipes" extending into the tissues. In case the bones of the withers are cally. The cavity should be thoroughly
cleaned out, and kept clean, all pieces of diseased tissue removed, and the cavity dried by swabbing out with absorbent
cotton. Pure tincture of iodine should cotton. Pure tincture of iodine should drying. A solution of one part of car
bolic acid in twenty-five parts of bolic acid in twenty-five parts of water
is good to clean it out. Pure turpentine can be used in place of iodine with good results in some cases.
is to thoroughly swating after openof the cavity and "pipes" with a good liquid caustic, such as butter of antimony. In place of a swab, rags saturated with
butter of antimony can be packed in the cavity and "pipes;" they should be removed in a few minutes. This destroys
the "false membrane," which slouglis out in a day or two. The fistula should be washed out daily, a four-per-cent solution of carbolic acid used, and the parts
kept clean. In using a caustic it should kept clean. In using a caustic it should be used once carefuly and thoroughly
Repeated use of caustics is injurious. Rubbing with liniment or applying often useful in assisting the healing pro cess. Othcr good solutions used to in are corrosive sublimate, one part, and water, one thousand parts; blue vitriol,
pulverized, one teaspoonful dissolved in a pulverized, one teaspoonful dissolved in a
pint of water, or a one-per-cent solution of creolin or similar coal-tar products. In treating these diseases, a good
syringe with a long nozzle that can be inserted into all parts of the fistula is essential. Showering the part once
daily with cold water, with considerable force with cold water. with considerable briskly until it is dry, is often beneficial. is important that the fistula should opening is allowed to close before the Animals with will break out again. should be well fed with nutritious food, and salted frequently. A tonic condi-
tion-powder is often very useful. The following is good: Sulphate of iron, one saltpeter two one ounce; gentian root, two ounces. A heaping teaspoontul can bed given in the
feed twice daily. N . Mayo in Bulletin o. 12I of Kansas Experiment Station.

COW-CATCHERS
If the census-taker when he was last around had gathered figures from pro consumptionk relating to the result would have been surprising. In man families on the farms, grand crop of boys and girls is being grown, the milk consumption does not
go beyond a little milk or cram for the tea and coffee. for berries and for cook ing. Why? It won't do to say the country people are not fully
the tutritive value of milk
for as great readers as farmers are the amount that is being written about mill They lynow, too, that collateral with its food value it carries the recommenda-
tion of cheapness. Many farmers claim they cannot afford to eat eggs when they
will sell for over twelve cents a dozen Spring clicketh, young pig and lamb are cause they are "worth more to sell. and one word will in a large number of cases explain $\qquad$ se-di

Very often, if the milker and cow-tende realized that the cow's surroundings and the care of the milk were below the re-
quirements for producing a clean article of food, more care would be taken and conditions improved. But dirt that may not be visible
vidence to the sloven may be so much i vidence to the sensibilities of the discriminating stomach and palate, that even an encyclopedic knowledge of the worth
of milk as a food will not make it relished.

Soluble dirt may affect only flavor; visble dirt, as dregs in the bottom of the lass, is no advertisement for the drinke to take another glass.

Often the milk is no more unclean coming from a filthy cow-stable than the ther food of the meal having come from but grosser foods do not have the delcate absorptive affinity for foreign odor that milk has, and they pass detection at often it is a vain thing trying to eat at a hotel where there is a suspicion of uncleanliness, and so in using milk-so picious that we partake of none.
Shall I interject a story? Once, when Governor Curtin of Pennsylvania with two fellow spellbinders were doing camonize an uninviting hotel for one night and they came to breakfast with tire eelings in their appetites. When the waiter came for", their order, the yamous please give me two boiled eggs with the Mr. S. said, "Well, you may give me a potato with the skin on." Mr. P.; "sup-
"Let me see," pose you g;
feathers on.
Let us therefore have the products of our dairies clean, and let it be known that they are clean and wholesome and ng of generations of American babies Let us have it so clean and above an suggestion of taint that we and
children will want a second glass.

There is no doubt that the centrifugal separator is a cleanser and purifier of milk. It certainly removes any solid foreign matter that may have passed the
strainers. This should be no excuse, nilk the for caressness in handling milk that is to be separated, for such
soluble impurities as have entered into solution in the milk will not as a rule be removed in the machine.
If the dairyman has clean cows in good health. fed wholesome food; clean, well-
ventilated stables; clean, personal habits; ventilated stables; clean, personal habits;
clean pails and other utensils; aerrates the milk as soon as drawn, and cools it and contaminating odors, he has done enough to make his milk fit to drink. Some milkmen will object to such plain
talk as I have used about impure milk on the ground that the city consumer question when an acknowledged dair man comes out thus and exposes
All milk is not impure; most of it is duced with the best of intentions. Howsweet and inviting that the city dweller would turn from impure city water a
drink more milk. W. F. McSarran.


Handy Wagon that is only 25 inches high, fitte


This wagon is made of the best material throughout aud really costs but a trifie more than a set of new
wheels, and fully guaranteed for one year. Catalogue


 by Cream ExTractors that mix water
with the nilk, and do not extract
The Superior Cream Extractor


00 CORN FARMS Sor sale

## STEEL ROOFING



AT \$2.25 PER SQUARE



## The Grange <br> 

JUST AND EQUITABLE LAWS IN DANGER OF REPEAL

WLL-FOUXDED rumors are afloat that attempts will be made to
repeal or weaken the Rawlings and Morganthaler live Rawlings these measures were secured after a long need the same bulldog qualities to defend them.
Briefly stated, the Rawlings law provides for the taxation of goods in the enactment of this measure, machinery or other goods in the hands of the manufacmoment it passed into the hands of the consumer it became taxable
The Morganthaler law provides for a ax-inquisitor, who seeks out and lists concealed property. Few laws are so with more bitter opposition.
That theory which seeks to exempt certain favored industries or products from taxation. which shitits the burden while not decreasing it, is vicious in principle and dangerous in policy. Every
successful attempt weakens the notions successful attempt weakens the notions
of citizenship of the favored party, and creates hostlity to the favored industry and distrust for the machinery of government in the masses who bear the ex-
tra burdens. Our loose tax-laws provide tra burcens. Onr loose tax-laws provide of property, classed as "intangible," of property, classed as intangible, poor and well-to-do classes, whose property is apparent. The aforesaid laws dollars to the tax-list, but many hundreds of thousands more are concealed than have been brought to light. No system of laws has ever been derised that could reach the mass of intangible property. Every just and equitable law that pose should be jealously guarded by the people. With every advance in civilization there arises need of heavier taxes. The very class that seeks to evade the just payment of its burden is the one their part.
Clark County Pomona has taken the nitiative. Let every grange and farmers' bers. If possible see that cand its memthe legislature will stand squarely against the repeal or weakening in any way of your neighbors, and be ready to make a stand for justice. Agitate, educate.
resolutions passed by the clark COUNTY POMONA GRANGE
Resolved, That we believe the Rawlings tax-law is just and correct in principle, and we will oppo
weakening of the sanne
Weakening of the sane. not add anything to the tax-duplicate not already provided for by law, but it does authorize the appointment of an inquisden away or through negligence not reported or listed for taxation, therefore, Resolved, That we will oppose the repeal of said law.

## POSSIBLE DELIVERANCE

The recent massacres of the Jews at
Rishineff aroused the sympathy of the Kishineff aroused the sympathy of the
civilized world. Hundreds of thousands of Jews will leave Russia, and if they
find a home and political and religious find a hoine and political and religious more will leave inhospitable shores for nore homes. The Jews are an industrious, homeple. Farming communities that are now expériencing a dearth of laborers would ple to settle among them. The Jew loves his own roof-tree, and will best serve all interests if he owns his own home. Many of them are poor. however, and could
buy only smatl pieces of land-from ten to forty acres. They have large families
that farmers could employ. Their love that farmers could employ. Their love
of home would make this population of
yond young people fairly permanent. Help could thius be obtained indoors and out.
With the present scarcity of labor, and its high price, farmers can well afford o make concessions. If a number of
farmers would unite and offer concessions, it might result in a large influx of
labor into the community. The Jew is bound to come to America. Sooner or later there will be a Jewish problem, as there is an Irish one. Fortunate indeed will it be for the nation if this new pop-
ulation is scattered over our farms, far ulation is scattered over our farms, far
awray from the congested centers where fortunate will it be for the farmers to
have a source of labor-supply somewhat adequate to our demands. We have been so long dominated by the labor trust that a possible deliverance through
the Jews is a "consummation devoutly to be wished

## THE OBSERVATORY

Get rid of your prejudices
Win the heart, and you will convince he head.

The grange is the watcll-dog of farm-
The heaviest tax the world pays is the tax of ignorance.

A good dictionary well used is an indication of intelligent membership in a grange.

Even as cheese is a bait for mice, so is
useful grange the bait for membership of the best class.
Constant watchfulness. combined with vise civic ideals, is the only safeguard of our institutions.
United, enlightened public sentiment can overcome jobbery and corruption.
Right is might, and must eventually win.

If conditions do not suit, change them It is the limitations of the individual rather than of the locality that make the environment.

Principles are eternal as the hills; only our interpretation of them varies. Free and powerful is he who sees them in brighter light each day.

The churches, schools and clubs of a community are what the predominant element want. If it is content with little,

little will it receive; if it demands much. | it gets much. |
| :--- |
| ittle will it re | $\qquad$ -

Let a special committee be appointed from each grange to solicit members at your field-meetings. To avoid unpleasant contingencies, make out a list of desirable members beforehand.

Since our political and financial welfare are indissolubly bound together, it follows that we must safeguard our political interests with the same forethought and care we do our financial.
He who takes his notions and opinions as he does his name, from his fathers, must be narrow and bigoted. What yesterday was liberty, to-day is intoler-
ance, and to-morrow will become tyranny.

Never pick a wild flower unless it will Never pick a wild flower unless it win
add to the beauty and perpetuity of the plant or give happiness to some one. The ruthless plucking of our native fora choicest plants.

Village-improvement societies in our section are waging war aqainst the filthy nuisance of spitting on the street. Even men who pride themselves on their civic righteousness need a law to prevent them
from committing a crime against decency. Commiting
Ceres, Pomona and Flora can find ample employment in promoting esthetic notions about the adornment of our filled with beautiful homes has a ligh financial rating, to say nothing of the esthetic.

Never let your zeal for membership
overshadow the worth of the grange. The grange is destined to play a greater part in the drama of internal affairs in the next ten years than ever before in its history.
Let us have members who will stand by principle, and not be led away by puff of wind. Cherish your grange as you do your home.
"Let us convince those who represent us of our integrity and ability to care for ourselves. Let us make use of the optelephone at our desle. the mail at our door. Now let us pave the way for the trolley-car by improving our methods of farming, that capital may be induced to a depot. there will be no stale fruit for the consumer, but berries with the morning dew yet upon them, and the bloom and fragrance of the apple, peach and
plum as pleasing as when rocked by the plum as pleasing as when rocked by the Davis, Lecturer Pomona Grange, Ohio

## Handy

 Household Articles
## "Marvelous Duplex Fork"



Just what is wanted for handling boiled or baked potatoes, boiled eggs, baked or use, and by a slight pressure on the handles anything can be easily taken hold of without fear of breaking or crushing, and without burning your hands. The fork being plated, require no scouring. When once used they become an indispensable

Farm and Fireside one year and Marvelous Duplex Fork, 45c., by mail, post=paid Or given for sending ONE new yearly subscription, not your own nor any member

"Lamp=Chimney Stove"
Invaluable for its convenience and economy. Made of bright brass, compact and ornamental.


To heat curling-iron, use as shown in cut, and the hande of the curler will be thoroughly protected from the most economical and useful household articles ever offered to the public. Indispensable in the sick-room. Heats water for shaving in a jiffy. Doesn't smoke the cup. Order as No. 823
Farm and Fireside one year and Lamp=Chimney Stove, 40 cents, by mail, post=paid
Or given for sending ONE new yearly subscription, not your own nor any member of your family


## "Useful Cooking=Knife"

## For turning pan- cakes, eggs, omelets,

 fish, meat, potatoes, warming potatoes, theshape of the knife is such that the work can be done in less time
as a cutting edge four inches long is brought into use. Order as No. 824
Farm and Fireside one year and Cooking-Knife, 40 cents, by mail, post-paid Or given for sending ONE new yearly subscription, not your own nor any member of your family

## The Quick "Parer and Corer"



Farm and Fireside one year and Parer and Corer, 40 cents, by mail, post=paid Or given for sending ONE new yearly subscription, not your own nor any member of your family
"Sensible Cleaner" For Pots, Pans, Etc.


Landle two-ring wire cloth with iro doubly effective. No family slould be without one. Does its work quickly and effectively, scouring and cleaning the bottom of the pot or pan in a mankeeping the hes dight and satisfaction keeping the hands out of the soap and
water, which chafes and ruins the skin of the hand. Saves your finger-inails
too. The most-rvanted kitchen utensil

Farm and Fireside one year and this Chain Pot=Cleaner, 40 cents, by mail, post=paid
Or given for sending ONE new yearly
subscription, not your own nor any subscription, not your own nor any
member of your family

## F. D. "P., Kansas

 asks: "If a woman having nothing mar works and does he part, and they get have three children can he will every away fromBy the laws of Kansas, on the death comes the property of the wife, and such one half cannot be taken away from her by will of the husband.

## RIGHT TO WILL PROPERTY

M. A., Iowa, writes: "If a couple are married, but have no children, and the will it all to the husband? Can her brothers and sisters come in and take a share if the wile by the will?"

## PARTNERSHIP PROPERTY

A. E. S., Pennsylvania, puts the following: "A. and B. own and occupy a house and ten acres of ground in partries, and moves to another state. B. still years, refusing to pay any taxes, insurance or rent to A. Recently B. died. tled up
Yes; the estate of B. would be liable A. or his one-half interest.
R. McI., Illinois, wishes to know: "What are the laws of Illinois in regard o property, when a man dies, leaving a or brothers and sisters claim any of the personal property?
When a widow or husband survives, with no child or descendants of child,
one half of the real estate and all of the personal estate goes to the widow or of the rea! estate goes to the parents,

## CONTRACT FOR REAL ESTATE

## A subscriber gives the following: "A.

 furnish abstract and title to. be correct within thirty days. A. tells B. S agentthat if he does not get the paper ready to pay the on the money he has, as the time for the assessor is at
hand. The thirty days were up the fourhand. The thirty days were up the fourday of May before A. could send the time A. goes to B. and tells him that he ought to pay the taxes, as it was his fault B. shys, 'No, I have nothing to do about it. If you have anything to claim, go to
the agent. I have nothing to do about it.' Is B. responsible for the contract drawn up by his agent, or will A. have to go to the agent? The contract reads:
'Time is and shall be the essence of this

## The Family Lawyer <br> By JUDGE WM. M. ROCKEL

Legal inquiries of general interest from our regular subscribers wiil be answered in this departinent
Querists desiring au iumediate answer by naill should remit one dollar, addressed
contract, and the sale and transfer of said hereof, shall be consummated within the time specified above. The contract pro-
vides that B. should trim hedges on the farm, but hedges are not trimmed. B wants to get out of it, as it is a large B to get an answer in the next issue. his agent might have done which would his agent might have done which would
be within the scope of the agent's anthority, and in the case as given I should think that B. would be directly responsible, although not sure. It seems that sible, although not sure. It seems that
if the delay was caused by B.'s failure to consummate the contract within the time tipulated, B. should pay whatever dam ges was suffered by A. If the contrac stipulated that B. should trim the hedges he must do so, for he might have ac cepted the benefits of his contract, and Note-The inquirer wan
Nore-The inquire wants the answer given in the next issue. Let me again say that inquiries made are answered in if an immediate answer is desired the inquirer should follow the course outlined at the head of this department.

## DIVORCE

J. N. A., New York, asks: "Can a man get a bill of divorcement from his wife, on the grounds of desertion, in the states of Illinois and New Jersey? If so, how long must he prove desertion, and how long should he be a resident of each

By the laws of Illinois, divorce may be granted for desertion after two years without reasonable cause. The appliyear before filing the bill. By the laws year before filing the bill. By the laws nate desertion for the term of two years is grounds for divorce. Parties must the time the desertion has continued.

## CANCELLATION OF MORTGAGE

S. E. F., New York, inquires: years ago C. bought a farm of B. Last year B. died. His widow and an exhave an attorney. This spring C. wants to pay the mortgage, and would like to know if they should all sign the discharge of mortgage to make it legal, or would
the attorney be enough to make it all right." The executors of the estate are the proper persons to release or cancel a mortgage. Where there are two exec-
utors of the estate, any one of them utors of the estate, any one of them
may do whatever acts he sees fit with reference to the estate, therefore a cancellation will be good if signed by one A cancellation or release made by an at torney is not proper, and s.
istered. The dog
and takes what I put out for my chickens and takes what I put out for my chickens.
I have asked him to keep the dog home,
but he does not. I have been told to shoot the dog."
At common law a dog was not considchanged in many of the states. A person killing a dog might be liable for whatever instances like that suggested in the quesinstances it may be difficult to find legal remedy, and parties are sometimes justi-
fied in taking the law into their own hands. I think I should be tempted in such a case, after having notified the owner of the dog to keep him away, to
follow the advice that has been given you. In many states recognizing that dogs are property, trespassing dogs are
permitted to be killed without liability. LINE FENCES
J. B. H., Indiana, says: "A. and B each own forty acres of land adjoining, one hundred and sixty rods. There is a hundred and sixty rods. rods of line fence all at one end, and B. owns the other eighty rods. A. sells twenty acres of his tract lying along B.'s part of line fence to C. Now, can B. take away forty rods of his fence and
compel C. to make forty rods between compel C. to make forty rods between
B. and C.? If so, can C. hold A. for forty rods of line fence, A. still holding eighty rods of fence of A.'s part between
A. and B.? If neither A. nor B. can remove any of this established line fence how can this one hundred and sixty rods of fence be divided so that each A., B The above states a condition of facts with reference to line fences which is frequently inquired about, and is nowhere It, seems that when a man buys a farm he is bound to take notice of the condition of the fences on the land, and he is
bound to know whose fence is on the line bound to know whose fence is on the line
he is buying. Where it is necessary to he is buying. Where it is necessary to parties having placed the fence there permitted to remove it. In many states permitted to remove it. In many states
the township trustees settle the question.

## RIGHT TO CLOSE ROAD

H. P. B., Pennsylvania, wants to know "If a road or pathway has not been used way has been used steadily, would such acts be an abandonment of the road or
The simple non-use for twenty-one years will not be an abandonment such as would vacate the road. A mere clos
ing of the road or pathway by bars would not defeat the right of a person road when he wished to reach his land.

## CEREAL FOODS

 A subscriber in Ohio writes: "Will you kindly give your opinion of the
## constant

## constant

suggestions ancial or injurious? Your to see something on the above topic. numerous prepared breakfast-foods that now flood the market. It is difficult to give a reliable estimate of the value of
these foods without an exact knowledge of their composition and method of prep aration. I believe that many of the so any more, if as much, nutritive value as the cereals from which they are made and the cost to the consumer is, four or five times greater. No doubt the man much too high an estimate upon them in setting forth their claims to the public, in order to sell them, it being a purely of these foods are partially cooked. and more or less saccharine matter added in
their preparation, which increases their value in carbohydrates and fats, but not in proteids.
doubt they may be more digestible tho doubt they may be more cligestible than not so sure about their auginented food value. Some of these foods are so hard in masticating them, or better, to sofen

## The Family Physician <br> 

them before eating, that they will produce mechanical irritation in the stomach bread, if properly done, makes it more digestible. Often only the surface of
slices of bread is toasted, and the interior slices of bread is toasted, and the interior
left soft. Such toasting does not increase left soft. Such toasting does not increase
the digestibility of bread. $Z$ wieback is well-toasted bread. The readiness with which the cereal foods are digested
depends greatly upon the care with which depends greatly upon the care with which they are disintegrated and the fineness of
their division during mastication and during their stay in the stomach.
Experience has taught athletes and their trainers that a generous mixed diet is the best one for them. At the trainsuch food as the following are eaten: Breakfast-cereals, dry toast. vegetables
in reasonable variety, and fruits; beef, lamb, mutton, chicken, fish, bacon and eggs. Desserts of simple puddings or
ice-cream are furnished, but no highly seasoned food is ever allowed to find its way to their tables
The subject of dietetics is intensely inthoroughly understood by all classes of people, both in regard to the value of foods as nutriment for persons in health as well as for those who are ill.

## blind and partially

 tered that institution for treatment. Upon investigation, it was discovered that anantiseptic containing a large amount of
wood-alcohol had been used throngh wood-alcohol had been used throughalcohol taken internally affects the optic nerve, thus destroying vision. It is feared
many will never recover complete vision. HUSH-MONEY
"I call that hush-money," said the happy father to the chemist, as he placed
twenty-five cents on the counter for a bottle of soothing-syrup.

This department has received during the past year a large number of inquiries, but being invariably of personal rather than, general interest, I have not an
swerbd them in this column. It will be readily understood that I cannot use this department for making individual pre
scriptions or giving diagnosis of disease scriptions or giving-diagnosis of disease
for individuals. I have gratuitously an swered by mail many of these individua inquiries, but find that this method of I shall take pleasure in answering as best I can all questions of general interes


You Can't Get a Home for Nothing
but nowhere in the country can a
Good home be had today for so low a price as in the Northwest, along the
line of the NORTHERN PACIFIC RRILLWAY Very low round-trip
rates are now in effect. Write tor information regarding them and the
low-priced lands of North Dakota aud Montana and the irrigated farms
of eastera W Wshin CHAS S FEE ${ }^{\text {CHAS S. FEE, }}$ S. P. P.

THE LUCKY "4-LEAF CLOVER"




 impossible to leak or sour
Express char of es prepuid.
Catalogue free


ENTIRELY NEW

The Twentieth Century Peerless Atlas and Pictorial Gazetteer of All Lands is up- and sells at one fourth usual Atlas prices. Gives

Every Census from 1790 to 1900, also 1901 Crop

Agents Wanted

Tbe Peerless Atlas is guaranteed tbe finest seller
on the market, enabling agents to double the best
profits they ever made. Your success is certain
$\qquad$

THE CROWELL PUBLISHING CO
Department of Agents, Springfield, Ohio

## holiday in the woods

BY JOSEPHINE E. TOAL
Down in the shady wood to-day A jubilee is made.
The woodland folk are all at play,
There's music and parade. There's music and parade.
Now, what's sit all a bout,
Come,
This morn at rising of the sun I heard the waterfall.
Boom! boom! it went, till really one
Would think the rocks must fall. Would think the rocks must fall. And all the little folk
Within the wood awoke.

A hundred flags flung gaily outAnd high and low and all about, On grassy bank, in mossy cave, I surely see, don't you,
The old red, white and The old red, white and blue.
And listen now! What do we hear?
A sound quite like a drum.
Come, keep within this thicket, dear, rom here it seems to come. Ah! look close by that tree:
It's Drummer Partridge, see!

They're wearing uniform to-day, Look, Brighteyes, overhead; Of blue and gold and red; And there the blackbird sings,
With straps upon his wings.

Grand fireworks they'll have to-night,
These forest folk, I know;
For in the wood, half out of sight, Is where the rockets grow.
And, too. when it is late They will illuminate.
A hundred tiny lamps will glow Down here on every side,
And from the sky the moon will throw Her search-light far and wide Indeed it will be fine.

The orchestra, of course, will play,
The frogs are very good. Oh, you have guessed their holiday

Yes, here, in fitting state,

## The Fourth they celebrate

## CURIOUS DWELLINGS OF MAN

Ainvestigation of the ways in which the differis inhabitants of the globe bunld their houses
is interesting. Some of these homes excite our wonder. They are, too, a gage of man's advance civilization and prosperity.
Naturally, in his earlier
Naturally, in his earlier days and savage state man took shelter under trees and rocks, and when possible, to form a sort of roof. Then rushes and minor vegIn this way used to make the covering enstructe A roof of bamboo or palm-leaves, supported in front by two posts about six feet in height. and in the rear by others half as high, constitute perhaps the most simple house in the world. Under such a structure the natives of Andaman Island are contented, be the weather fair or foul. A parallel in simplicity is the abode of the pigmy Veddahs of Ceylon, though the latter sometimes pile up brush on one side to afford protection from the sun's oblique rays.
The Fuegians, even more slothful, construct with a
w broken branches stuck slantwise into the ground and thatched with grass a wigwam which can hardly be called a house. The Indians of Paraguay, by thrusting the ends of two or three short poles in the earth, and The Patagonians are much better house-builders. Their huts are rectangular in shape, about the height of a man, and from ten to twelve feet square, with a
gently sloping roof. A framework of posts set firmly gently sloping roof. A iramework of posts set firmly poles, which in turn support the rafters covered with skins. These nomadic people take their houses with them wherever they move, on account of the scarcity of wood.
dred feet in Islanders delight in having houses a hunwith a hin length, one third that distance in width, are compactly built, and the earthen floor is strewn with dried grass. Their doors are low, and oblong in shape. build a hut of gipsy type barely large enough in which build a hut of gipsy type, barely large enough in which
to sit down. When sleeping they have to curl up their legs. Four persons often manage to occupy one dwelling. If they were to straighten out they would push
their feet through the walls. In fact, in the warmer portions of the country an opening is left in the sides, so that the sleeper can thrust his feet outside to cool.
Thse miniature dwellings are constructed of slender poles, having both ends stuck in the ground, and standing near together in a conical form. They are covered with bark and leaves.
The Maori builds his house and from eight to nearly to the ground. Its frame consists of light
polcs, and the roof and walls are made polcs, and the roof and walls are made of dry grass
and lined with bark. It is no untusual thing to see the ridge-pole ornamented with the carved likeness of the proprietor. An aperture near the low door answers
for window and chimney. The roof projects so as to form a portico, where seats are placed.
The dwcllings of the natives of Fiji are built of cocoanut and tree-fern: they are oblong in shape, and a very sharp angle, and the rafters, of palmwood, are

## Around the Fireside

hatched with sugar-cane and fern-leaves. A matting serves for the door. The building is undivided inside and on one side is a stone fireplace.

The Nootka Indian, who delights to enter his abode hrough the roof, leaves the planks loose that form the covering. An escape for the smoke or an ingress or the walls are wide bencles, upon which the family sit and sleep. At wach end of the louse is a large tree and sleep. At each end of the house is a large tree, drawn and painted with a curious fidelity to nature.
In Kamchatka the winter honse is built exactly like vault, oval in form, and sunk a dozen feet below the surface of the earth. The framework of this curious surface of the earth. The ramework of this curjous
abode is of wood and whalebone, and the roof of twigs and grass. The means of reaching it is a notched pole standing upright in the center. In the summer these strange people go to the other extreme, and build their huts of poles on a platform above the ground.

The Eskimo in his brief summer lives in a tent of skins supported by deers' horns lashed together and fastened down by stones. His winter dwelling as a rule he builds of ice and snow. Selecting a firm embankment of snow, he traces a circle on it the size
of his proposed louse. The snow within the inclosure of his proposed house. The snow within the inclosure he then cuts into slabs about two feet long and six inches thick. With these he forms the walls, which he gradually strengthens as they rise, until when they meet at the height of ten feet he has made a domeIt takes two men to do the work, and when it is
completed, one man is imprisoned in the snow house. completed, one man is imprisoned in the snow house.
He then cuts his way out, the place of exit being He then cuts his way out, the place of exit being
intended for the doorway. Another aperture is cut intended for the doorway. Another aperture is cut
higher up, and an ice slab fitted in for a window. A tunnel is then made, leading in a circuitous direction from the door, to serve as a wind-break.
When the snow has been shoveled up so as to fill all the crevices, the building is completed on the outside. Within snow benches are made, and are covered with birch boughs overlaid with skins. In the spring, with his snow cottage melting away, and the cold too
severe for him to abandon it for his tent, the Eskimo severe for him to abandon it for his tent, the Eskimo
passes the most unpleasant season of the year. Among the most curious dwellings are those of the people who live in regions of water. That fairly enlightened races have dwelt in such places is proved by the hamlets yet to be seen beneath the Swiss lakes, In India are to be seen the Sindian houses; on the In India are to be seen the Sindian houses; on the southern coast of Africa, the airy slianties of the dwellers, Little Venice. These last aquatic people are detually driven to live on the water, that they may escape the vast numbers of mosquitoes that infest the eighboring country.
The dwellings of t
Maracaibo ree, which lasts for ages in the floód. Across these tree, which lasts for ages in the flood. Across these
posts are laid beams and planks of a lighter wood,

house-fly on a piece of sponge-cake
with a roof and walls. There are four groups of these singular dwellings, comprising what the Spanish discoverers nicknamed Little Venice, from whence comes the name of the province of Venezula.
The Dyaks on land houses built on piles. So it is on the islands throughout the archipelagoes. At Banka, where an inundation the place the name of "floating city." In Sumatra. Java, where the people live in constant dread of earthquakes, the houses arc lightly
built, with large movable shutters. As soon as the first remor of the earth is noticed, each occupant of the dwellings seizes one of the broad shutters, and holding it above his head as a shield against falling objects, rushes to an open door. Here the bamboo protector is thrown upon the ground, and the owner seats himself upon it, to await the end of the shock, and as
the earth seldom opens wide enough to swallow up his the earth seldom opens wide enough to swallow up h capacious platform, he feels comparatively safc.
rounding conditions-whatever inconveniences belong rounding conditions-whatever inconveniences belong to his situation, they become a part of his existence;
whatcrer dangers besct him are looked upon as a matter of course. The Sicilian, without a suspicion of dread, toasts his cheesc in the seams of Mount Etna: the Italian roasts his fowls in the lava streams of Mount Vesuvius; while with equal unconcern the Iceander boils the water for his tea in the fire flood

## THE HOUSE-FLY

In a paper written in 1900 by Dr. L. tomology at Washington, on "The InSpecial Reference to the Spread of with phoid Fever by Flies," it was shown eighty-seven that owties of twenty-seven thousand and ent parts of the country in rooms where food was exposed, as would ordinarily be the case in a kitchen or dining-room, more than ninety-eight per cent of the flies bred taken were ordinary house-fies. House flies breed to a very large extent in horse-manure, but in human average about one lundred individual hy lays on an a few hours hatch intore "may eggs, which in another transformation at the end of ually become full-grown adult insects. ually become full-grown adult insects;
dered at that typhoid fever often prevails in the woun try, especially when we consider the unsanitary system so often in use for the disposition of human excre ment. Under these conditions every opportunity is offered for the dissemination of this disease through the agency of flies, particularly the house-fly, which finds in the country stable and the outhouse conditions admirably adapted for its development.

In view of these facts, the importance of keep ing flies out of the kitchen and away from all food supplies cannot possibly be overestimated. To this effort should be made to eliminate all places thet effort should be made to eliminate all places that are should be thoroughly screened, and where it is not practicable to adopt this measure, chloride it is not practicable to adopt this measure, chloride of liberal quantities and well sprinkled through the manure, will prevent the development of thy egg which may be deposited in this material. The out house also should be thorotighly screened, or better yet, where practicable, should be done away with altogether. In no way can the wastes of the human body be more easily and safely disposed of than through the medium of water. Running water is now so generally available that there would seem to be little excuse for not utilizing it in this connection and thus doing away with the many objectionable features of the primitive system still so largely in use in the country. The water-carriage system of disposal, to cannot be satisfactorily answered even in country places. The cesspool, once so much dreaded, has a last under proper management won for itself han it is not available are rare. Extract from aricle by it illian Lyman Underwood of Mact tute of Technology, in Country Life in America.

## AN INFORMAL LUNCHEON

Among the most charming ways of showing attention to a friend who may be visiting you, and whom you wish to honor, may be reckoned the luncheon to which only women are invited. You have an old schoolmate staying with you, or anl aunt or cousin from a distant place. Ask six or eight agreeable friends who know
one another, or who are likely to have subjects in comone another, or who are likely to have subjects in com-
mon, to meet her. They arrive at the designated hour one or half past usually, and probably keep on thei bonnets or hats and their gloves until they are seated with the pulp remover from the skin, and put hack with the pulp remover from the skin, and put back, so or four strawberries added, and the whole sugared, is very nice. Follow this with bouillon served in cups Creamed or fricd or broilcd chicken with peas and potatoes may be the next course; or broiled lambchops or any dainty meat may be substituted for the chicken. Then have a salad of plain lettuce, or lettuce and tomatoes. or lettuce and chopped apples and celery. For dessert nothing is quite so popular as icecream and cake, but strawberries or preserves, or a delicate pudding or pie, will
ish the luncheon with coffee.
ish the luncheon with coffee
Conversation should be general, not confined to a funny story, tell it.

People do not linger long when the luncheon is diately after this function.-Christian Herald.

## THE LOUISIANA PURCHASE

Now that great preparations are being made at St.
ouis for the celebration of the one hundredth anniLouis for the celebration of the one hundredth anniversary of this great event inl our mations history, it them in epitome what the domain then purchased now embraces.
The western boundaries of the territory included in the purchase were somewhat indefinite, but the area involved consisted of ncarly one million square
miles. Fourteen of our states and territories now lic wholly or in part within the limits of the purchase. This area is about seven times that of Great Britain Emp Ireland; it is four times the size of the German France, Portugal and Italy combined.
Within the territory then purchased from France there now dwell fifteen million people. That is to say, by a curious coincidence, a century after the pura human Loting Louis, where the purchase is to bc celebrated, the United States Government now collects each year a revenue greater than the price paid Napoleon for relinquishing his dream of colonial empire on this side of the Atlantic
At the time wl
mitted their when Livingston and Monroe committed their country to the transaction, the price of sum. Within the territory thus purchased the value of the manufactured products alone in 1900 was $\$ 1,492$.S63.129. while the value of farm products in 1809 was $\$ 1,457.533 .338$. In each of these years the valuc of one class of product alone was one hundredtimes the price
of the purchase.-The Religious Telescope.

## Sunday Reading

THE CONTENTED MEADOW•MOUSE I am a simple meadow-mouse, But I can look up through its door And view the sky, and sometimes mor Now it's a linmet, now a kite Gouverneur Morris, in McClure's Magazine.

## CHRIST DOES NOT PATCH

Gpatches. The gospet is not here to mend people Regeneration ing and ethical cobbling. What God does, he does new-new heavens, new
earth, new body, new heart- "Behold, I earth, new body, new heart-"Behold, I
make all things new"-C. S. Parkhurst.

## WORKING ON ONE'S KNEES

clergyman walking on the public highway observed a poor man breaking stones, and kneeling the while. so that he might be able to do it more effectually. Pausing and saluting him, he rethe stony hearts of my hearers as easily as you are breaking these stones."
John's answer was a memorable homethrust. "Perhaps, master," he said, "you o not work on your knees.
Praying brings down the power that
can break the flintiest heart.-Christian can break the f
$\qquad$
GEM THOUGHTS any market-Charles Lamb makes mo many of them.-Abraham people, he makes so many of them.-Abraham Lin-
coln.
Keep your shine and the shadows will fall behind your--M. B. Whitman
vorld too much if God's will controls us Worldliness is not love of the world, but slavishness to it.-M. D. Babcock.
The smallest things become great when God requires them of us, they are
small only in themselves; they are always small only in themselves; they are always
great when they are done for God, and great when they are done for God, and
when they serve to unite us with him when they serve to
He has His plans, What if He even holds back, all through the summerflowering, that they may be more ready for some day of days? Never question the widsom of His will.-Sarah F. Smiley.
I do not know that martyrdom will prove any harder than that discipline
which renders us quick to forgive, which can look upon the success of a rival with loving pleasure, which can maintain a
guileless integrity in the minute transguileless mintegrity in the minut
actions of life.-George Brown.

## STUB-ENDS OF THOUGHT

The empty life can never be a holy
How can God hear those who will not isten to him?

## be not a

Dark hours are necessary to make us ook upward.
Man forgets his dependence upon God intil dark hours come.
Brains are necessary for a man to be
omething and do something The man who talks with. man whose talk people listen to.
man a proficient kicker Any to make a mick. A mule is past master of the can The men who do the most good are alone, but men of heart and brain com bined.
Many
Many of God's zealous workers are but heroes and hero are not fanatics, they are counted by God.- Ram's Horn

## THE TASTE-BERRY

In the wilds of Africa is found a vine on which grows a small berry about the Size of a cramberry, which has the pecutaste, so that all sour things seem sweet After a few hours the taste becomes natural again, but during that time all hey find this berry, the natives eat a few and then fill themselves with the sourest filuits they can find, getting the same enjoyment as from the sweetest and rarest much to the pleasures of life if some expedient could be found which would effect the same transformation in all the
affairs of our lives, emabling us to extract happiness from the most unpleas
features of life. May not a quiet and con tented spirit in a large measure furnish sunch a counterpart of the African tasteberry?. A disposition to make the best of everything, a happy determination to look on the bright side, a gentle resolve
to ignore so far as possible the disagreeto ignore so far as possible the disagreeable facts of existence, or
look upon what better sides able to find, will not indeed make every thing in life appear sweet and enjoyable unpleasant to the lowest limits. have heard of a man who said he devoutly thankful that God ha him blind. It may not be easy for us to that a persistent effort to find good in everything may be rewarded with a large increase of happiness.-Watchman.

## A VISION OF GLORY

A young Scotch girl who was taken ill in this country, knowing that she must die, begged to be taken back to her na tive land. On the homeward voyage sh kept repeating over and over the sen
tence. "Oh. for a glimpse o' the hills o tence. "Oh. for a glimpse o' the hills o
Scotland!" Before the voyage was hal scotland!" Before the voyage was hal caring for her that she could not live to see her native land. One evening, juts west was all aglow with glory, and for few minutes she seemed to enjoy the scene. Some one said to her, "Is it not beautiful?" She answered, "Yes, but I' rather see the hills o' Scotland." For a little while she closed her eyes, and then opening them again, and with a look o unspeakable gladness on her face, she ex claimed, "I see them noo, an' aye they'r she added "I never kenned befoor that it was the hillser Kenned befoor that prophet saw the horsemen an' the char -prophet saw the horsemen an' the char
lots, but I see them all, an' we are almoost there." Then, closing her eyes, she was soon within the vail. Those beside her knew th...t it was not the hills of Scotland, but the hills of glory that she saw. Perhaps there are some fair
hills toward which you are now looking, hills toward which you are now looking, and for which you are longing, and you
may be thinking that life will be incomplete unless you reach them. What will it matter if, while you are eagerly looking, there shall burst upon your vision comes forth to meet your King himsel into that life where forever, you shall
walk with him in white because you are worthy.-Watchman! :

## PULLING DOWN

There may be something gained in criticizing and "picking to pieces" some body else's religion, but the gain is very ministers of the gospel, spend hours and ministers of the gospel, spend hours and
hours writing articles and books setting forth the fallacies of some other so called "religion." In the meantime they fail to call on the sick who need them.
The man who is thus occupied in tearing The man who is thus occupied in tearing
down some one else's stronghold forgets down some one else s stronghol his own portion of the Master's vineyard and the weeds of sin flourish "like green bay-tree."
If these pastors would go about doing good among the sotil-sick and body-sick members of their flocks and of the community, the world would be a very much happier place of abode. If men and filled and overflowing with the swee truths of the Bible, the weeks would
seem all to long between the holy days seem all to long between the holy days As it is, there are fat too many sermons
full of bitter but futile railings against some other "sect." The writer once met a man who had religion. Upon being asked how it hapthings against this religion that. so I read the other side, and now I'm converted.
Whether or not he chose wisely is not for me to say. but this story and many lesson, You can never build up your own cause by pulling a nother down.
In this regard "the children of world, are wiser than the chinddren of light." You couldn't get a successful merchant or his store He has enough to do, he will tell you, to "talk up" his own goods. Let the other fellow tak merchant's store will be the most popular place in town.
Make your
Make your own. religion so meritorious and attractive that people will be draw to it. and above all things don't be nar
row and do keep sweet! L . M. K.

## THIS WATCH FREE

 -
 he "sixacoupon book" if you want to try for a prize. If you don't sell all, we give you a cash

MOVEMENT Refular sisteen sise and THE GUARANTEE In every watel

 or this quickly we are going to give prizes every two weeks perhaps. It is possible to win the first two
prizes, 85.00 inall. Prize-winners' names in FARMI AND FIRESIDE each month. Address for full particulars
FARM AND FIRESIDE, Dept. A, Springfield, Ohio

## PERFECT EGG-SEPARATOR



This cut represents
our new patent egg-
separator. It sep-
rom the yolk of
he egg in a most
satisfactory way,
eaving a particle yolk together. It
is one of the few in-
dispensable house-
sought after by every housewife. The separation of the egg is instantaneous and absolutely complete. Order as No. 827.

We will send the Perfect Egg=Separator, and the Farm and Fireside one year, for only

40 cents Or given for sending ONE new yearly subscription (not your own nor any member of your family) to the Farm and Fireside Address FARM AND FIRESIDE, SPRINGFIELD, OHIO

NOT A MAN OR BOY BUT WILL TAKE PRIDE
IN THE POSSESSION OF THIS

## High-Girade Pocket-Knife

The blades are of the very best cutlery-steel, tempered
by experts. ground to a keen edge and then highly polished. the knife is brass-lined and hand forged. Buffalo-horn handile,
The knife
and German-silver boister and shield. Satisfaction guaranteed.
We will send the Farm and Fireside one year and
this splendid Knife for only 80 Cents.
Or we will send the Knife FREE to any one sending FOUR
yearly subscriptions to the Farm and he subscribers can ac the Farm and Freside. In this case
$\qquad$
EARM AND FImeside.

FARM AND FIRESIDE
FARM AND FIRESIDE

NOVELTIES FOR PICNICS AND SOCIALS

FOR a woman half the enjoyment in attending a picnic or social lies in filled with goodies as any of her neighbors', and this enjoyment is en-
hanced at least fifty per cent if she can display some novelty to attract attention.

Many women never experience this
peculiar pleasure because they are afraid peculiar pleasure because they are afraid to undertake new dishes. They think fancy things require much
time, skill and money, so their more ambitious friends carry off the honors at the country gatherings

There are enough elaborate instructions going the rounds to contuse even cooking-school graduates, but nost of those described in this article are the inven-
tions, if we may use that word, of a busy farmer's wife who don't know a fancy pudding-mold from a milk-pan. I well remember a cake of hers that caused all the common cakes at a Fourth-of-July picnic to blush
with shame because of their plainness. It was a plain white one originally, and was longer than it was wide. After the white had become cold she had drawn on the top with a flat pine stick a perfect American flag in red and white icing. The tiny stars on the blue field (put in with a fine toothpick) were real works
of art, and in listening to the many compliments her of art, and in listening to the many compliments her cake received the hap
her two hours' work.

That is only one of the many original ideas that may be carried out by any one who gives the subject a little time and thought. A round cake on which was drawn a clock-face with the hands pointing to nineho did received much attention at a birthday party, and so did one at the same place that had a gold star on
the white icing. Now, anybody can make yellow icing, and if it is impossible to draw a star with a toothpick, cut one out of paper, and mark lightly around it on the white surface, afterward covering up the line with a heavy border of gold.
O course the cake part may be any tested recipe ut the beauty lies in the frosting. Checker-boards in any combination of colors are exceedingly easy pattern or sketched by square may be traced from a A pink-and-white ground, with chocolate-creams for he checkers, make a fine combination, and the checkers need not be put on until the place where the dinner or supper is to be given is reached
One of the prettiest features ever seen at a countrychurch supper was a row of cakes three or four one lettered so that when placed in order down the middle of the table they spelled the name of the church ociety. It took fifteen letters to do this, and each block rested on a large green sycamoreeaf, though paraffin-paper kept reen doily. The letters wer put on with harmless green coloring, and attracted much attention until the close were sold at ten ents each.
The list is really endless, for cake lends itself to decorative art at rural gatherings. After cake
 ide salds, which are comparatively under the general head of slaw. cabbage that comes recipes do call for outlandish things-there are enough simple salads to be made from celery, peas, beans, asparagus and almost every vegetable that grows that
will find favor with learty appetites. Where the book alls for olive-oil use nelted butter if youre the book alls for olive-oil use melted butter if you don't hapand pepper still former, and remember that plain salt and pepper still form the standard seasonings of

Bread baked in baking-powder tins, ans from which the rims have been melted, makes dainty sandwiches, and instead of the red, makes liced ham try running it through of the che regulation sliced ham try running it through the chopper, using the result. This has the added advantage of using up scraps of meat that are usually left at home until
the next day. Run the lean boiled meat through the
 was boiled is added to the vin-
egar. and a small amount of
dissolved gelatine used, the that held the meatri. It is isery easy to po place slices ese of
beets, lemons or hard-boiled eggs, or alternate
 pour the liquor on the pieces of meat after they have
been placed in it. When this is turned out it pre-
cents a pleacing appearance, and the taste is delicious. chopper the day the sandwiches are to be made. Don't attempt
to make them too long ahead, for the fresher they are, the better. Season to taste with prepared mustard, salt and pepper, and make it moist with a
little cream if inclined to be too stiff. This may be packed in a jar, and the sandwiches made
after the picnic-grounds are reached. Old chickens used in
this way make delicious sandwiches, and form a welcome change from the ordinary boiled any skin to cling to the meat, as it spoils the looks, and boil the
chickens in as little water as

Potted veal is much relished pared. as is also potted fowl. highly, and pack in small crocks with vinegar to cover and a few
spices to suit individual tastes. If the liquor in which the meat
was boiled is added to the vin-

## The Housewife

Instead of plain pickles and hard-boiled eggs, try cutting the eggs lengthwise and chopping the yolk fine, with one pickle (small) to each three yolks melted butter. Fill the cavities, gad fasten together with fine toothpicks run diagonally through the wher with I think I hear some one saying that these things don't taste a bit better than plain food, and that busy women in the country have no time to waste on them anyhow, but I flatly contradict both statements. The fancy dishes do taste better, for I've helped dispose of


AMERICAN EAGLE SOFA-PILLOW<br>DESIGN

some of them, and many a weary woman finds pleas ure and rest in the change of employment that comes when preparing for the happy country gatherings,
which there are too few.
HILDA RIcHMOND.

## THAT GOOD COFFEE

How do you make such delicious If I answer this question truthfully I shall contradict some of the modern science anent coffee, but I cannot help it. I iva
shame the devil. When I married I had great ideas about the "correct" making of coffee. I shall never forget that first marital cup, so to speak. My beloved sipped and sipped, and then began to look about in the strangest manner for something.
"Vhat do you want?" asked, with anxiety
A chair," he answered.
For pity's sake! What for?"
Mo set this coffee on, it is such a 'weak sister.'" to be greatly disturbed by this, but still I undertoo to learn the lesson. The fact that every one who
to comes to our home. and their name is legion, says (with the exception of two dyspeptics), "What good coffee you folks have," rather consoles me for the fact that break all the scientific rules and do as I please.
First, I buy good coffee. Twenty-five cents a pound will do fairly well, but thirty cents is better-"Mocha and Java," as they call it. Second, I have a
lain-lined pot, which I keep scrupulously clean. lain-lined pot, which I keep scrupulously clean. Now, Please go and take a look inside your pot this minute. Please go and take a look inside your pot this minute.
Is it a shade or two darker than it was when new? Is is brown inside-a color that will not come off when you wash and wipe it, but which was not there when you bought the pot? Is the inside of the spout, which is so hard to get the cloth or fingers into, very brown?


LEMONADE IN THE PEEL OF A LEMON
That color is stale-coffee deposit, and will ruin the taste of fifty-cent coffee made in the most approved ashion you can follow. But how to get it off?
Buy a can of concentrated lye, fill your pot Buy a can of concentrated lye, fill your pot to the brim with hot water, put in a teaspoonful of lye and a few shavings of soap, and set the pot on the range where it will simmer all day, adding water as it evaporates. Then at night or after several hours carefully pour this liquid away-taking care not to spatte it on your hands or in your eyes, for the lye is very
hurtful and dangerous-and scrub that pot thoroughly with hot suds and wood-ashes or whatever you scour your kitchen table with. Get a little stick. and clean in and about the spout. Now your pot is "clean," Keep it so by washing it out every day as carefully as you do your drinking-glassed, using hot suds, and again, as it may in time, give it another dose. But i you are careful it will keep clean. Give yourself from twenty minutes to half an hour for coffee-making. My tablespoon measures three by one and six eighths
inches. This heaping full twice and half full the third time to a quart of water is the proportion which does not result in a "weak sister", I use which on state occasions. When you use egg you need a little more coffee or a little less water. as the egg seems
to have the effect of abating the strength
of the coffee to a considerable extent My process is simply to put the dry coffee into my clean pot, and pour over it a quart-not a "heaped up", quart, but
a scant quart-of madly boiling water all at once. I stir it down briskly, cover, and set it where it will come to a boil,
and boil gently for ten or fifteen minutes. Before serving turn a little out, and pour it
back. This clears out the spout and settles the back. This clears out the spout and settles the whole. If you use egg, use a very little. Mix with the dry oughly, and boil a little longer than at other times.

## NEEDLE POINTS

In the summer wardrobe of the little girl there should be two or three simply made dresses of inexneck and short sleeves or any cool fabric, with low dress to its band or low-necked yoke, and sew in short puffed sleeves, or in their place merely a ruffle, and the pleased owner of such a comfortable frock will find a surprising number of hot days on which to wear it. and ribbon. Though it may give just the finishing-touch needed to a pretty yoke, vest, shield or collar, and the habits of economy in these things which appear to be trifles may be the
secret of tasteful dress. secret of tasteful dress.

## WELL TO KNOW

A very good substitute for cream in coffee or to serve on fresh fruits may be made as follows: Beat the whites of two eggs very stiff, add a tablespoonful gradually add a cupful of cold milk, beating steadily until all the milk is used. Beat a cupful of milk with a piece of butter the size of a hickory-nut in it. When at the boiling-point set it back on the stove, and pour in the egg-mixture. Let simmer until the milk thickens to the consistency of ordinary cream. Strain through
a fine sieve, and allow to cool. J. R. Mackintosh.

CROCHETED DESIGN FOR BELT, COLLAR AND CUFFS
Use either coarse linen thread or silk.
Make a chain of twenty stitches. Join in a ring b slip-stitch, and make fifty single crochets in this ring.
Fasten with. slip-stitch, and $*$ make a chain of six Fasten with. slip-stitch, and $*$ make a chain of six
stitches. Skip four single crochet stitches of ring, and stitches. Skip four single crochet stitches of ring, and
join with slip-stitch in next single crochet. Repeat join with slip-stitch in next single crochet. Repeat
from ${ }^{*}$ around the ring, or until there are ten loops,

then make five single crochets in each loop. Tie, and break the thread.

This completes one ring. Make as many rings as needed for the desired length, joining them togethe through.the opening of the rings.-Delineator

## FRUIT-ROLLS

Stir one tablespoonful each of butter and sugar and one teaspoonful of salt into one pint of scalded milk when lukewarm add half a cake of yeast dissolved in one fourth of a cupful of water and three cupfuls of flour, or enough to make a drop-batter. Let it rise until light, then stir in one half cupful of butter creamed with one half cupful of sugar, and add sufficient flour to make a stiff dough. Knead until smooth, and when inches. On the center of the dough lay half a canned peach, well drained or four or five stewed prunes, or any preferred fruit which has been stewed and sweet ened. Bring the corners up to the center, and press them together lightly, leaving spaces where the fruit shows. Lay them close together, and when risen again until light bake in a quick oven.-New Ideas

## BATTENBERG PINCUSHION-COVER

This dainty pincushion-cover is in the new fash ionable shape, and is made of very fine wide Batten berg braid and No. 250 thread. While the stitche are quite elaborate, simple stitches can be employed in its construction. The cushion should be made the same shape and a little larger, with a full puff around the edges.

## A PRETTY HOME-MADE TRIMMING

For a simple but effective trimming which can be used on the edges of tucks of summer shirt-waists or on the edges of the ruffles of sofa-pillows, stitch two row of machine-stitcling about a quarter of an inch apart and the same distance from the edge. Then threads of Roman floss or heavy mercerized braid of contrasting color or the same color as the goods diagonally through every other machine-stitch, which should be long in order to permit the thread to run through easily.
An ingenious woman can make a score of variations
on the basis of this design, crossing the contrasting

threads of silk. making circles between the rows of stitching, or using three or four harmonious color together. Or the sik may so space will be left in the middle for French knots or little stars or crosses.-Good Housekeeping.

THIS jaunty suit HIS jaunty suit is made of
cream - white cream - white
chcviot, with bands of blue braid for trimming. This
and white is highly favored for natitical costumes, although many
The blouse is made over a glove-fitted ming that closes in the center front. The back is plain across the shoulders, has a slight fullness at the waist, and blouscs slightly all around.
The closing is made with silk cords over buttons on the edges of the fronts. forms a decided blouse over the belt. A rolling collar of serge, trimmed with braid, completes the neck, and a cravat The one-piece bishop-sleeves have a light fullness on the shoulders, and fit the upper arm closely. They are very arge at the lower edge, and adjusted on wide wristbands.
Seven gores in the skirt are fitted moothly around the waist and hips without darts. The closing is made invisibly at the center back under two in-
verted plaits that are flatly pressed and present a perfectly plain appearance.


## ADIES' DRESSING-SACOUE WIT

A sheath effect is maintained from bel to knee, but below that point each gore t the hem that marks all walking-skirt his season. Three rows of braid are ed as a foot-trimming.
Costumes in this mode are made of lannel, serge and Venetian. It is also ppropriate for piqué, linen, cotton chev and madras, and when developed or mountains or sea-shore

## LADIES' SHIRRED SURPLICE WAIST

Although shirt-waists and separate blouses are much worn with odd skirts here are quite a large number of simple but dressy waists used in their stead


A DAINTY SUMMER - Modes.
Slightly low neck effects are worn by roats, and it are blessed with beatitiful have an airy, summery appearance that cannot be attained in a waist that has a high collar, be it ever so soft.
The illustration shows a charming model developed in écru batiste, em broidered with pale blue figures, It is mounted on a glove-fitted lining of white lawn, which closes in the centef ront. The back is plain across the belt, where the slight fullness is arranged in fine plaits. in fine plaits. and blouse well shirred on the shoulders blue ribbon. They cross at the lower edge of the $V$-shaped neck, and fasten in surplice effect. One-piece sleeves are shirred at the top to form a tight-fitted cap, below which they fall loosely. The fullness at the wrist is gathered and ar ranged on narrow embroidered bands, adjusted half way between the elbow and wrist. Sleeves in this length may be considered elegant to athough it is not to the elbow.

How to Dress

Dainty waists are made of dimity, lawn, organdie, silk, muslin, mull or any of the soft sheer fabrics that are designed for summer wear, and trimmed with lace

LADIES' DRESSING-SACQUE WITH SAILOR COLLAR
Ecris and pink wash-silk is used for this dainty negligee, with white lace and pink baby ribbon for trimming.
The garment is simply adjusted with


LADIES' OUTING COSTUME
shoulder and under-arm seams. The back is plain across the shoulders, but quite full at the lower edge
Gathers on the shoulders in front provide becoming fullness over the bust.
The closing is made in surplice effect. The closing is made in surplice effect. loosely, like a kimono, or be drawn in close at the waist with a narrow belt that crosses in the center and has a stylish dip.
The neck is cut out a little V-shape sailor collar of lace This is edoed by a full ruffle trimmed with three rows of velvet ribbon. The skirt of the sacque is also finished with a ruffle
The sleeves are shaped with inside seams, fitting the upper arm closely and flaring widely to the hem. They are trimmed with deep lace ruffles and rows of narrow ribbon.
Sacques in this. style are made of dimity swiss, lawn, percale and mercerized cotton, while the collars are of embroidery or plain white lawn.
MODEL FEEDING-BIB AND CHILD'S SUN. BONNET
Both patterns are included under one number
No. I is a sunbonnet made of white No. I is a sunbonnet made of white
linen. The scalloped edges are stitched, and the back finished with a large white lawn bow.

The edge of the full crown is provided


## LADIES' SHIRRED SURPLICE WAIST

with buttonholes, which fasten over buttons on the head portion of the scalloped rim, and almost covers the buttons Hats in this style are particularly appro priate for piqué, linen, madras, or even
and do not lose their shape if the
edges are finished edges are finished featherbone. No. 2 is a model feeding-bib. The long portion is ask, and is stitched or hemstitched on the edges. The protective bib is heavily quilted, and retain, the moisture. Fancy tapes or wash-ribbons attached to side
pass around neck and fasten at the back.

INFANTS' CROCHETED SILK CAP Into a small ring crochet twelve double stitches.
Second row - Crochet two double stitches in each of the twelve double stitches. Repeat eight rows, widening at intervals to keep the circle from cupping.
Ninth row - Double crochet two Tenth row-Plain double stitch in each titch. inches in diameter. Make thirty-two


MODEL FEEDING-BIB AND CHILD'S SUNBUNNET
shells of six double stitches to shell round crown. Repeat for seven rows shells for the back. Then crochet back and forth for front until sixteen rows in depth. Make one extra row across top five shells from each end. On the next row crochet all the way across the front Border of shells, composed of twelve hell. Complete by running baby ritithon between the rows of shells from crow

to front, making three loops on each at crown, and six at front for ruche around the face with a few fuller loops on the top.
The quantity of material required for this cap is two and one half balls o crochet silk (white), eighteen yards of
baby ribbon, and one yard of two-inch baby ribbon, and one yard of $t$
wash taffeta riblion for the ties.
ribloon for the ties.
Heister Eiliott
Any of these patterns will be furnished
from this office for ten cents each.
Ladies' Outing Costume.-The Waist Pattern, No. 9017, is cut in sizes for 32, 34, $36,38,40$ and 42 inch breast measure. The Skirt Pattern, No. 8460 , is cut in sizes for a $22,24,26,28,30$ and 32 inc waist measure
The Pattern, No SURPLICE Waist.a $32,34,36,38$ and 40 inch bust measure Ladies' Dressing-Sacoúe with Sailor Collar. The Pattern, No. goio, is cut in sizes for a $32,34,36,38,40$ and 42 inch bust measure.
Model Feeding-bib and Child, Sunbonnet.-The Pattern, No. 9006,

## Eczema

## Salt Rheum, Ringworm, Itch, Acne or other skin troubles,

## Hydrozone

 s harmless germicide, which disease germs. Used and endorsed by the medical profession everywhere. Sold by leading druggists. If not at yours, send 25 cents for atrial bottle. The genuine bears trial bottle. The genuine bears
my signature. Accept no my signature. Acc
substitutes. Address

FREE $\left\{\begin{array}{l}\text { Valuable Booklet on the } \\ \text { freatment of diseases. }\end{array}\right.$


NO USE FOR HAT PINS
 THE HANDY secures the hat
firmly to the head,
is 0 rna firmly to the head,
is orna me ntal,
does not break,
dea not ond wear out or make
unsightly holes, and when in place
is entirely is entirely con-
cealed by the hair. Price 25 cents by
mail. Ag ents
wanted wanted to handle
Fastener and other The Ideal Supply Company and Buyers Agency
Jackson Park Station, Chteago, II.

## HERE'S YOUR CHANCE,

Don't work for small wages when you can make
more. If you have a team and can give bond and are not afraid of work, we have a great
proposition for you, selling our 52 standard proposition for you, selling our 52 standard
household remedies. extracts, etc. The oldest, laugest and best company of ex the. Kind indest,
lome the
world. Write to-day for world.. Write to-day for exclusive territory.
THE J. B. WATKIHS CO., 48 Llberty St., WInona, Minn.

SALESMEN AND Ansemp Big wages isw s.


 Write for apeela. orfir, new plan. Catalozue Fre.
WORLD MFG. Co., 5236 World Bidg., CINCINNATI, 0 Hio
Wanted Yaman man incer hasuay or before, to take orders in town and country direct for our woolen mills, on men's all-wool suits and
overcoats made to order. We want bright clean overcoats made to order. We want bright, clean.
thoroughly reliable men (farmers' sons preferred). Permanent position. The right man can make $\$ 1,000$
per year. References required as to character. Address MICHIGAN WOOLEN MFG. C0., Detroit, Mich.

8Years of Progress
 … -


SWAMP $=$ is not reommended or eo ereary
 you. At druggists have a sample botyle of this wonderiful new discovery by mail, free; also a book telling all
about it and its great cures. Address Dr. Kilmer \&
Cout about it and its great cures.
Co., Binghamton, N.Y.
$\substack{\text { ranaliced with } \\ \text { weake ese } \\ \text { vise }} \substack{\text { Thompson's Eye Water }}$

THe Princess de Rosemont was walk-
ing in her park, her head bent in romantic meditation, when sle was startled by a voice, "Hello, sis."' She started back, and saw a young
ailor standing in the dusty road. He sailor standing in the dusty road. He
wore the blue uniform of the navy, and bore the insignia of a petty officer on his
arm. The sailor did not know that he arm. The sailor did not know that he
had met a princess. He saw a slimı girl of twelve years in a blue calice dress, heavy shoes and a white sun-
bonnet, carrying a little tin bucket in her hand.
"I miling.
dn't mean to scare you, sis," said the

## =


"You'd better stayed in the navy," said Robertson. Oght, and if I reenlist in three months papers are all right, and if I reenlist in three montlhs I don't lose anything. I was brought up on the training-ship, and
they like to keep us fellows. I'll keep the 'crow' on me arme all right,"
it's an eagle!"
"Yes, I guess it is," replied the sailor. "But that's what the Jackies call it. It's just one of our little jokes." "Y

## "You haven't had any dinner, have you?" asked Robertson

I, got dinner at the big sawmill back here a
mile or so.
Amy now went home with the empty luncl-bucket, and Robertson and the sailor began work on the tree. The sailor soon threw off his cap and heavy blue shirt, and the streams of hoinest he shook his head dubiously.
"Say," "ife puffed at last, as he sat down to rest and use you could only had some blasting-powder and mering the arms off you." "Yes, but powder

## Robertson. dejectedly

The hot afternoon passed, and there were still thirty-three logs left when Robertson and his assistant quit work.
"Never mind, we'll do better to-morrow," said the The cheerfully.
The evening
The evening passed pleasantly in Robertson's hum-
but neat home. Mrs. Robertson gave the young ble but neat home. Mrs. Robertson gave the young sailor a motherly welcome, and Georgie and Davy
looked upon him as a hero. The "cold potato" exlooked upon him as a hero. The "cold potato" expanded into baked beans and pork, fresh biscuits, sweet, yellow butter and abundant milk. The sailor told them
of his life in the navy, and of his experience at the of his in the navy, and of his experience at the
battle of Manila, where Dewey destroyed the Spanish battle of Manila, where Dewey destroyed the Spanish
fleet. Suddenly he struck his fist on his knee. "Rulolph Robertson!" he said. "That must be the name, and that's where I heard it."
"Where? At Manila?"' asked Robertson, eagerly. The mother leaned forward with breathless interest, and the hand trembled that held her mending.
'Yes," replied the sailor, still in deep thought. "It as 'Rudolph,' sure. That's an uncommon name-a sort of fancy, name, you might say, I'm sure of that.
And the last name began with 'R.' I'm sure of that, And the last name began with 'R.' I'm sul
"Where was.he? Did you see him?", ask
Where was he? Did you see him?" asked Robertson, anxiously.
"No, $1-1$ heard about him," answered the sailor, with a reluctant and
"Why?" inquired Robertson, with compressed lips. Never mind," said the sailor, "we won't say no "Tell us,". spoke Robertson, sternly. "Good or bad, we want to know."
"Well, he was a soldier in one of the regiments out. there, and he deserted to the enemy. and the boys caught him at the head of a squad of Filipinos.

There was a chill silence.
"It wasn't my Rudolph!" exclaimed the mother, with a face of pale scorn and indignation.
"Why-of-course-it-wasn't," said oothingly.
"No," ${ }^{\text {siaculated Robertson. sternly }}$, "No," ejaculated Robertson. Sternly, drawing a
deep breath. "My son died in Central America. deep breath. "My son died in Central America. "He this-this man?"
"He died-sudden-one
plied the sailor. significantly.
Mr. Robertson fell into M. Robertson fell into a gloomy silence, and the things in order fork and sadly moved about putting things in order for the night. Then she came
with a candle, and showed the sailor to his neat bedroom. When he was alone the sailor to his neat adcandle for some minutes. Then he muttered, "It began with 'R.' 'Twas Robertson, sure
. He had been. in bed not more than an hour, and the house was silent. when he rose and quietly dressed himself. Softly opening the window, he could see by the bright moonlight that it was only a few feet to do ground. He leaped out lightiy, and wurn a but down the road. In less than an hour he returned, but gulch to the tree. He carried a small iron canister gulch to the tree. He carried a small iron canister his hand a long-shanked auger. It was long after his hand a long-shanked auger. It was long after
midnight when he came back, leaped nimbly in at his window and went to bed.
In the morring he was awakened by a low tapping at his door, and saw that he had overslept. He jumped up, "ressed quickly, and went out, where he
found breakfast waiting. "Didn't hear the bugle," he found breakfast waiting. "Didn't hear the bugle," he
said, "but I smelt that breakfast in me dreams, and I said, "but I smelt that breakfast in me dreams, and I
thought I was in the Palace Hotel. I'll just dip me thought I was in the Palace Hotel. I'll just dip me
head in a gallon of water, and then I'll join youl." head in a gallon of water, and then
The two little boys were complaining because the had no fire-crackers. but he said to them, as he polhad no fire-crackers.
ished his face with the towel "DDow't you, say a word,
me bullies. Just you wait till after breakfast, and I'li me builies. the bigrest fire-crackers youl ever saw in your lives. They're that big I'll have to fire 'em off meself, and all yon'll have to do will be to keep your eyes open and
little tummies."
But the boys were so excited by this announcement that they could hardly eat. After breakfast the whole family set out for the tree, in response to the sailor's urgent and mysterious invitation to come and see some fireworks. In honor of the day, Amy, Georgie and Davy each carried a little American flar that they had arrived, Robertson saw at once that the sailor liad
bored a deep hole in the top of each log, and put in a charge of blasting-powder fuse stuck out of each one. was his brief remark.
"There's going to be a salute of thirty three guns firea," said the sailor. ".
guess you folks had better go up the gulch a little ways, and get on the other side, cause there's hable to be ructions here in a minute. Say,
kids, what do you think of these for fire-crackers, hey kids, what do you think of these for fire-crackers, hey.
Ever see any like 'em in the store? I guess not. But you just wait till you see 'em go off."

The spectators were soon in a safe place where they torch of dry splinters, now, who had prepared a little the one lowest down the hill. Passing on he 'lit the fuse of the next 10 g , and so: climbing rand he withe steep slope, he lit one fuse after another. Just as he was lighting the last one at the top the butt $\log$ ex ploded with a loud bang. A half was thrown to each side, and tumbled down the hill. The next $\log$ slid and rolled a little, and then exploded. The third $\log$ started downward more rapidly before flying to pieces with a flash and roar. By the time five or six and now unsupported from below, on the sliding, rolling tumbling and exploding in a grand and startling mix up. Some, striking an obstacle or one another, leaped cannon, the pownersmair. The blasts went off like white surfaces of the riven every direction. So the logs hashed through it in from bottom to top as if by mace, hurled dow the hill, and piled at the bottom in a mass of gray and white blocks, blackened here and there with the smut of powder.
"Hurrah, hurrah, hurrah!" shouted the sailor from the hill. He had drawn a little silk American flag from the breast of his shirt, and was waving it. The Robertsons, recovering from the
"I've seen blasting, but I never saw a job like that before," "Tsaid Robertson, when the sailor rejoined them. "Those fuses were timed to a second. You're an expert.
plied the sailor, langhine handled powder before," re here kids, don't you say you didn't hoy s play. See of July.
neasily, "Tt powder and fuse-" began Robertson, uneasily, "It must have cost you considerable."
"No, laughed the sailor. "Didn't I tell you I haven't got a shot in the locker? I got it at the mill back here. The boys there seemed to like me uniform, and when I mentioned Manila they wanted to give me the whole mill. I'll return that auger, though, as go along. I guess I'1l foot it back to Frisco again, and
see the lieutenant. Your job will be a little easier see the maybe?
"Well, I guess it will!" responded Robertson, ferently,
"I'm sorry to leave you all," continued the sailor, "but when I want to chop wood a gain I'll come down." io a grateful procession of Robertsons escorted him back to the road, where he bade them good-by on his shoulder
As they walked slowly homeward the children were eagerly talking about the sailor s wonderful fireworks, were both thinking of that renegade soldier who had "died-sudden-one morning at sunrise." Hearing the sailor rapidly apprnaching. Robertson went to meet himl, wondering at his strange return.
"Say," called the sailor, breathlessly, as he came up, it began with ' $R$,' and I thought it was your name; but t's Arbuckle
Robertson burst into a loud and joyful laugh. He "Arbht the sallor had cracked a little joke about Arbuck out ogng wis lis entirely out of proportion to sucha mild joke. It was
the laughter of relief from a deadly fear that his son had come to a dislionorable end
"well see the boy back again some day," said Robertson, cheerfully. emphatically. "I'll keep my eyes open for him. Goodby, uncle.'

Two months later Robertson received an extravagant telegram from the sailor, but he did not begrudge the dollar he had to pay to the boy who
brought it up from the nearest telegraph-office, five miles away. It read
"Arbuckle does not begin with 'R,' after all. Just got it through my head. So 1 dont know what the found your son. Officer on a transport. Look out fo him. He is going to surprise you, and I am in the plot

## SUMMER MOODS

I love at eventide to walk alone
Down narrow glens o'erhung with dewy thorn, Where, from the long grass underneath, the snail, Jet black, creep, out, and sprouts his timid horn. love to muse o er meadows newly mown, Where bees search round, with sad and weary dro In vain for flowers that bloomed but newly there While in the juicy corn the hidden quail Cries. "Wet my foot;" and, hid as thoughts unborn, The fairy-like and seldom-seen land-rail
Utters "Craik, craik," like voices underground
Right glad to meet the evening's dewy veil,
And see the light fade into gloom around
Woe to the youth whom fancy gains,
Winning from reason's hand the reins:
Is soft. contenpolative and kind


Lots of preparation Must be made for these Fat and juicy Danvers;
Sun and soil and breeze
Must be right, in doses Not too much or less
Than the beauties call for Than the beauties call for
Or there'll be a mess.
When they're stored away
Safe and sound, all frozen Safe and sound, all frozen,
Covered up with hay.

## City chap up yonder

 And his talk 'bout "lhatching,"Can't come up to onions, Not by any means.
Chicks need too mucli coddling,
Corn, house-room and screens.

## But when they are planted, All one has to do <br> All one has to do <br> Is to trust their growing, 'Most within one's view.

Bother on your poultry, Feathers, stomachs, eggs;
Have no use for business Made of wings and legs.

Give me fields of onions,<br>Thousand bushels To the acre, then I'll<br>Sing my little song<br>What to Eat

## The H. T. M. <br> By FRANK H. SWEET

Rdgerord Acadeny was very select, and had accommodations for only
a limited number of pupils; so hen Charlie Stoughton found himself actually enrolled as one of its members, he naturally felt very much
elated. For Charlie was a poor boy, without farily influence, factor idea of its importance as a social most. At home he had been one of the and in spite of the fact that his school, took in washing and plain sewing, had felt himself fully the equal of any of his
companions. That they had to contrive and economize in every way in order to
furnish his school outfit had not seemed furnish his school outfit had not seemed
a. disgrace-far from it. He had told his companions that an aunt was to pay for his odd jobs about the village were to go his odd jobs about the village were to go
toward a new suit of clothes, and they had symp
his pluck
But a few days at Ridgeford opened his eyes to many things. Among them was the fact that family had something boys. Not that they were especially
rude or overbearing-they were rude or overbearing-they
splendid set of fellows, with
splendid set of fellows, with one or two
exceptions-but they had a way of al-exceptions-but they had a way of al-
luding to their set and speaking of the positions they expected to occupy afte aroused the first feelings of discontent in the mind of the country boy Many of them had been to Europe, and they frequently" compared notes or related odd adventures, and listening to their talk with the avidity of one who was fond of travel, Charlie sometimes felt his face burn as some one asked him a question,
then turned it off with an "Excuse me, I forgot you had never been there.
No one asked him directly family, but he was alwayly about his some one might. At first he would not have minded, but as the weeks went by fluence of his surroundings, he felt it would be awful to have them know about his sawing wood and peddling huckleelevation of their eyebrows.
But the worst of it was the false impression he was creating. He knew
they regarded him as of good family but without the advantage of travel. Sometimes when he was alone he would take himself to task, and resolve to make
a clean breast of it. They could than boycott him, and anything was better than this mean feeling of passing under false colors. And perhaps it might
not be so bad as he imagined. They were a fine set of fellows, and they
seemed to like him more found himself in their midst, the evil day was put off. Could he tell his room-mate, the senator's son, or Jack Tracy, whose grandfather had discarded
a title, that their companion was the son of a washerwoman? And, after all,
whose business was it but his own? whose business was it but his own? It
would be time enough to tell when they asked him.
His vigorous country training had made him an adept in most outdoor sports, and he soon found himself not only popular with the teachers. but with
the boys also. It was "Stoughton, lend a hand here," or "Come, Stoughton, we're waiting for you." In the face of
all this could he tell them that he was an impostor?
"It seems curious, old fellow," said Jack Tracy to him one day, "that a chap like you has never been anywhere-not pater must have kept you pretty close."
My father has been an invalid a good many years," replied Charlie, slowly,
"and-there have been reasons for my staying at home."
"I see, timid women and remote country home; afraid to have you go Youl don't know what you have missed.;
Charlie flushed, but did not answer. Like most schools of this class, Ridge-
ford had its secret society. It was
known as the H. T: M., and every boy known as the H. T. M., and every boy
who was not a member had an intense who was not a member had an intense
longing to be one. The rules were supposed to be very peculiar, but no one outside the society knew just what they ganized the H.T. M., and outsiders generally understood that eligibility depended on personal character; but there were many of the best scholars who had gone through their, three years at Ridgeford without wearing the coveted badge. plication by letter and his name was put on file. Then, when a vacancy was to be filled, these names were voted upon by
the members. When Charlie entered the the members. When Charlie entered the
school there were several of these vaschool there were several of these va-
cancies, caused by graduation of students, cancies, caused by graduation of students, but forme fill them. It was currently reported that every student who was not a moster had his name on file, although
For some months after entering the school Charlie was so absorbed in hi what was going on around him. He felt that he did not belong to their set, and kept as much as possible to himself.
But gradually his proficiency as a pitcher leaked out. and he was persuaded to join the ball club. Then the boating and other amusements naturally followed,
and it was not long before he found himand it was not long before he found him-
self one of the most. popular boys of the self one of the most. popular boys of the
school. It was very surprising, but none the less pleasant. Then he accidentally discovered that. Tracy and the sen H. T. M. nearly a year before, but as yet
rather surprised him, and gave him his first real desire to become a member. If it could ignore such applicants, it must certainly be an honor to belong to it, and the next time he met the secretary,
a bookish young man from Georgia, who was seldom seen on the playground, he bowed very deferentially. He had never
spoken to the stately young Southerncr, spoken to the stately young Southerncr,
but it might be well to cultivate his acguaintance. A few days later he had fro double honor of a commendation office of captain by the ball club. Elated by this, he went early to his room, and indited a polite note of application to the As the weeks went by without bringing any response, his vague expectations grad-
ually died away. Occasionally he met the ually died away. Occasionally he met the secretary, but that reserved young man
either passed him with a preoccupied either passed him with a preoccupied
nod. or else failed to notice him at all. nod. or else failed to notice him at all.
But Charlie did not feel particularly hurt at this. None of the fellows were inti mate with Charlton Calhoun. He was older, and more studious than most of ing himself for the ministry. And there was something about the absent-minded chivalrous young man that Charlie found very attractive. Ever since he had seen him walk calmly into the icy water of the
mill-pond to rescue a drowning kitten he had been glad of even a passing nod. It was a custom for the Ridgeford
boys to have frequent excursions during boys to have frequent excursions during
the spring and fall months. Sometimes the spring and fall months. Sometimes
it was to the mountains, and hammers it was to the mountains, and hammers
and collecting-bags were taken along; and collecting-bags were taken along;
again it was to the sea-shore, and nothing again it was to the sea-shore, and nothing
was too small or apparently insignificant for the Professor to explain or comment upon. These excursions were not mere pleasure-trips, but were part of the Ridgeford so popular with the boys.
Professor Taber was not given to making long announcements. When he had decided upon anything he was ready to
carry it out imnediately. This gave the enterprise the zest of novelty, and kept the boys in a state of subdued expecta-
tion. So one day when he announced tion. So one day when he announced
that on the morrow the school would that on the morrow the school would
make a trip to Island End Beach to study the sea mosses and shells, no one felt surprised, although every face beamed
with pleasure. Island End Beach was with pleasure. Island End Beach was a
popular summer resort some sixty miles distant and noted for its fishing and bathing. Many of the boys had been there, tractions to their less fortunate companions. Charlie listened to their remarks said that he had been to the place. Then, as if to avoid further explanation, he
walked away toward the river But his walked away toward the river. But his
mind was in a tumult. Island End Beach was but a few miles from his home. Could he go there and spend a day without being recognized-without having an unpleasant explanation forced upon him? he could be sick, or have some reasonable excuse for remaining behind. But he could think of nothing that would be go, of course, and trust to chance to escape recognition. The worst would be when thc train stopped at his own village. There was always a crowd of boys
standing around the station. Suppose standing around the station. Suppose
they should see him? Suppose one they should see him? Suppose one of
the village newsboys who cried papers the village newsboys who cried papers
through the train should stop and call him "Chud," as they used to? The thought made him shiver. And the ugly was close beside the station and in full was close beside the stati
view of the car-windows.
The dread followed him all through the afternoon arid evening, and at night ening as the train neared the little village he took an inside seat, and carefully pulled his hat. down over his eyes. He wanted to turn his afraid it would attract attention. Nevertheless, as the train slowed up he counted every window in the little unpainted house opposite. The water-bar rel and the broken wooden steps were just the same and-yes, there was actual-
ly little Ben swinging on the clothes-line y little Ben swinging on the clothes-line.
For a second he wanted to call to him, then he shrank back into the seat as low as possible. It was not until the train the last house behind that he breathed freely and pushed the hat back from his eyes. Then he glanced around appre-
hensively. What if some of his old com panions had entered the car? But quick glance reassured him.
A few seconds later Jack Tracy rushed
into the car. Holding up a hat filled
with choice pears, he cried, "Hi, fel-
lows, look at these! Real Beurre GiiOwner said she was taking them down to the Island End Hotel, but I assured ter prices. They're primel" pay her bethis white teeth into one of the juicy pears. wild scramble was made for the next
car, and Charlie found himself eagerly elbowing his way in the midst of it. In his former dread, and pushed on with as much ardor as the others. The sight There were several trees in his own dingy back yard, and they had always yielded abundantly. It was not until he he saw the person who was selling the of dismey he stopped with a low cry of dismay. Had she seen him? Could But even with the thought came a flush of shame to his face. After a moment he stood up again. Yes, it was the same were Calhoun and Tracy and the senator's son selecting pears and dropping coins into her hand. At that moment she looked up, and he saw her face plainly Every wrinkle and gray hair scemed familiar, and the sight of the tired face drove everything else from his
mind. With a few vigorous shoves the minc. With a few vigorous shoves he forced his way to her side, arrd taking the heavy for you, mother; let me sell them." Then turning to the a stonislued boys, he added, quietly, but with two red spots burning in his cheeks, "Come, fellows, they're genuine Beurré, Giffords, I can warrant that. You don't often find such fruit in market.
For a moment there was an awkward
pause, then Calhoun stepped forward and pause, then Calhoun stepped forward and selected some of the fruit. Others folbasket was empty. Charlie felt the boys were regarding him curiously, and their tones. But what did it matter? After this he was sure to be boycotted and he might as well be getting used to his schooling he could leave Ridgeford; but still it was his one chance for an as long as he was allowed. Somehow he did not feel about it as he had expected to. Perhaps the caressing touch that he occasionally felt on his arm had
something to do with it. He had not seen his mother for months, and it was good to be able to look into her loving eyes, and he would make it up to little Arriving at the Istand
helped his mother from End station, he helped his the from the train, and took her into the small waiting-room.
A moment later Calhoun walked
"Come, Stoughton." he said, "the fellows are forming into line to march down to the beach. You will havc to hurry," quietly. "I shall take the next train back with mother, and spend the day with her I will join you when the train comes up in the evening
For a moment the young Southerner looked at him, then glanced at the patient face half hidden by the sunbonnet.
It was late in the evening when the last train arrived at the little village. From his place on the platform Charlie saw ward car, so he made his way to the rear one, and slipped into an obscure seat. None of the boys were in this car and when the train reached Ridgefor ward the school-buildings.
He was not surprised a few moments after, entering his room to have the sen-
ator's son come in and treat him with cool impertinence. They had never been on very cordial terms, and Charlie did not that it indicated the line the other boy
would probably would probably take.
He did not leave
morning until it was nearly time nex classes to form. Only two or thre boys were met in the hall, and they freely carelessly. as he had feared. But the real test would come when school was dismissed for the day, and the boys assembled on the play increasing dread, and when at last th boys filed out through the great open
doors, he lingered irresolutely in the hall While there a sealed envelope was handed him, and he opened it mechan-
ically. Inside was a badge of the $H$. T M . and instructions to be at the next meeting. At the same moment a grea
shout arose outside, "Stoughton! Stoughton! Hurry up, the game is waiting!'

Be careful to go strewing in and out
Thy way with good deeds, lest it come
That when thour shalt depart
No low, lamenting tongue be found to
The world is poorer since thou went
But make so fair and sweet
Thy house of clay, some dusk shall When Death unlocks the door and lets thee out.

## 6 Silver-Plated Teaspoons

and Farm and Fireside the remainder of this year, for only

## 60 cents

Or, Given FREE for THREE yearly subscriptions to the Farm and Fire side at 35 cents each


Set No. 60-Cut shows the ACTUAL SIZE Nickel-Silver Base $\underset{\substack{\text { The base of this } \\ \text { wa re } i \text { is solid }}}{\substack{\text { s.in }}}$ nickel silver, which is white all the way through, positively will not change color nor rust, and will wear for a lifetime It is the highest grade know
twenty-five-per-cent nickel
Coin-Silver Plate On top of this is plated the full STANDARD amount of pure coin-silver. This combination makes a ware which we guarantee to give satisfaction. Test it, and if not found exactly as described, return it to us and we will refund the money.
Initial Letter Each spoon is engraved initial letter in Old English. Only one letter on a piece. Be sure to name the initial desired.
Patterll be have the spoons in two No. 14. You can make your choice of pattern. Where no choice is named we will fill orders with our selection. We also reserve the privilege of substituting one pattern for the other if the supply in any particular initial is exhausted. We can thus fill all orders the same day they reach us. It is impossible to describe the beauty of these spoons, and the illus tration far the atractiveness idea or they perfect and will render com they are perfect,
plete satisfaction.

## GUARANTEE

We absolutely guarantee every piece of this ware to be exactly as it is de
scribed and to give entire satisfaction scribed and to give entire satisfaction or
your money will be cheerfully refunded. We are sure it will please you.
(When this offer is accepted no cash commission
can be allowed, and the name cannot counl
in a club forard a premium)
POSTAGE PAID BY US IN EACH CASE

## Address

FARM AND FIRESIDE Springfield, Ohio

## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. Will Sharpen Your Wits, Quicken the Intellect, Afford Healthful Recreation and Give Innocent Amusement and Entertainment


## THE CHARACTER-TRAIT PUZZLE

Here are Six Pictures, Each Representing a Trait of Character. Both Adjectives and Nouns are Used. Can You Guess Them?

We Offer Eight Dollars Cash in Four Prizes, as follows : Two Dollars to the First Boy from Whom we Receive a Correct Answer to Each Puzzle; Two Dollars to the First Girl; Two Dollars to the First Man, and Two Dollars to the First Woman. Contestants Must State their Ages, and Answers Must be Received Before July 15th.

## A PRIZE TO EACH AND EVERY ONE SENDING IN A CORRECT SOLUTION OF THE ENTIRE SIX PUZZLES

An elegant reproduction of the latest, largest and best photograph of Mrs. Roosevelt ever published will be awarded to each and every person sending in a correct solution to each of the six puzzles. This picture is a reproduction of a ten-
dollar photograph, which is the latest and most approved photograph of the First Lady of the Land now in existence. Answers must be addressed to the "Puzzle Editor," Farm and Fireside, Springfield, Ohio.


ONE


FOUR


TWO



THREE


ANSWERS TO PUZZLES IN JUNE lst ISSUE
The Six Animals


The cash prizes are awarded as follows: Charbomuau, ${ }^{3} 63$ Avery Avenue, Detroit, Nich. etroit, Nich$\underset{\text { ign. }}{\mathrm{i}} \mathrm{G}$ Plieasant prize. two dollars-Miss Eva Carron,
 4046 Prairie Avenue, Chicago, Mlinois.
Boy's prize, two dollars-Roy K. Hawley,

## THE SECOND PUZZLE

The Six Names of Women
I-Blanche. I-Blanche.
$2-$ Grace.
$2-$-Grace.
3 -Olive.

4-Adaline.
5-Anne.
S-Anne.
6-Eunice.
s.
sons for the first correct ans
from their respective states: Canada-Albert M. Kniglt, Keswick, New Brunswick.
Georgia-Linton B. Holleman, Dunbar. Georgia-Linton B. Holleman, Dunbar
Illinois-Mrs. Alice Conley, Westfield. Indian Tersitory-Aaron C. Parrott, Checotah. Indian Territory-Aaron C. Parrott, Checotah.
Iowa-Mrs. Joe Hawke, Route I, Stanwood. Massachusetts-Miss Clara J. Fox, Newbury$\stackrel{\text { port. }}{\text { Michi }}$
Michigan-Mrs. Mary E. Wallace, Muir. Ohio-Mrs. B. M. Allen, Greenville.
Virginia-T. B. Anthony, West Augusta.

## DRAKE'S RIDDLE

When freedom from her mountain height Unfurled her standard to the air, She tore the azure robe of night,
And set the stars of glory there And set the stars of glory there;
Slie mingled with its gorgeous dyes She mingled with its gorgeous dyes
The milky baldric of the skies, And striped its pure celestial white With streakings of the morning light.

MISS FANSHAW'S ENIGMA
Twas whispered in henven, and mut hell, And echo caught faintly the sound as it fell; And rest, And the depths of the ocean its presence conTwas fessed; the ligltning ond herd in the 'Twill be found in the spheres when riven asunder: Twas given to man with his earliest breath, Assists at his birth and attends him in death; Is the prop of his house and the end of his pe, every wish it must bound, And though unassuming, with monarchs is Without it the soldier and sailor may roam, Wut woe to the wretch who expels it from Bu: in tive shade let it rest, like a delicate O. breathe on it softly: it dies in an hour.

## Wit and Humor

## DIDN'T KNOW

AA social gatherifig, when still Bishop of London, the late Doctor Temple, Archbishop of Cansaid, in great excitement, "Oh, Bishop, my aunt had a wonderful escape. She have been killed in that terrible railwayccident. Was it not providential? "Madam," replied the Bishop, "I ", New York Tribune.


## NO WAY OUT

Assistant Secretary of the Interior Ryan, who was once a sheriff in his native ordered to arrest an Indian who had been selling whisky to his red friends on the reservation. After the sheriff had captured "Poor Lo" he gave him a sound ecture on the depravity of his conduct.
The Indian listened stolidly to the reprimand, and finally asked, "No way Injun git outer this?
"No one can help you now but God," was the reply.
Sadly the prisoner shook his head. Then he muttered, "God heap like Uncle Times.

## THE HUMAN BODY

The Human Body" was the subject set for an essay at the board-school. A little girl sent in the following. It is absolutely gentine. It shows a most declearness of thought: "The human body is divided into three parts-the head, the chest and the tummick.
The head contains the eyes, ears, "The chest contains the lieart, lungs and part of the liver.
"The tummick is entirely devoted to the vowels, of which there are fivenamely, a e i o u, and sometimes y and z."-London Express

## A VETERINARY SURGEON NEEDED

The amateur automobilist tries to go through a ten-mile-ordinance town at the rate of forty miles an hour. At the intersection of the main sles, chains, fenceposts and other barriers. He is dug out of the wreck, and carried into the first doctor's office his rescuers see. "I can't do anything for this man," says the doctor. "I'm a veterinary surthe amateur automobilist. "I was a jackass to think I could run that machine." -Judge. $\frac{-}{\text { A. LARGE ORDER }}$
The proprictor of a certain restaurant had "leased" the reverse side of his bill printed advertisements thereon.
The other day a customer in a great hurry ran into the restaurant, sat at a table, and was handed a bill wrong side up by the flurried waiter.
The customer put on his pince-nez, cirled his mustache with his left hand, and shouted in a voice of thunder, Bring me a fly, a landau, two victorias The waiter fled.-London Answers.

## WHY HE DID NOT TRY

When "Gabe" Bouck was Representa tive from the Oshkosh district of Wis consin a pension bill came before the while his his great vexation of spirit, for rectly opposed to it his political were diwere strong enough to whip him into line. On the day the bill came up for final disposal a fellow-member met Bouck in the space behind the last row of seats, warking back and forth and ges-
ticulating excitedly, bringing his clenched

Miss Carolyn ${ }^{2}$ Wells, in an amusin article on the history of that form of erse known as limericks, in "Leslie Monthly," quotes examples of these Lear to those in recent magazines. Among them are

There was an old man who said, "Do
There was an old
am not quite sure But I fear that is almost too few."

There once was an old man of Lyme Who married three wives at a time. When asked, "Why the third?"
He replied, "One's absurd, And bigamy, sir, is a crime."

There was an old fellow of Me Who was fond of the works of Hall Ce He said, "They're good style;" Alas! the poor man was inse.

There was a young man of Ostend Who vowed he'd hold out to the end

But when half way over
He done what he didn't intend

## A MERE HINT

There i\$ a little matter to which the Mes\$enger" beg\$ to call the attention f \$ome of it\$ \$ub\$riber\$. We really ate to \$peak of it, but \$ome have \$eem ngly allowed it to \$lip their mind\$. $\$$ thi\$ i\$ a very important i\$\$ue; in fact, \$peak further on the \$ubject. Perhap\$ you have already gue $\$ \$$ ed the drift of our remark\$.-Minneapolis Messenger

## NO DIFFERENCE

This breakfast-food and most-coffee raze has got to stop. A man out in Atchison, Kan., has a wite who is a victim of the sawdust habit, and feeds him on all sorts of queer things. He wan ered home for of something on the din and found a box ofseded to eat it. It was ng-table, and proceedento it was some new breakfast-food, and finished it. The new breaklas he investigated the matter, as he felt a bit strange, and found he had eaten a box of bird-seed.-Springfield Republican.

## RHEUMATISM

## Cured

Through the Feet
Don't Take Medicine, External Rem
edy Brings Quick Relief. FREE
on Approval. TRY IT.
We want every one who has rheumatism to send us his or her name. We willend by return mail a pair of Magic Foot
Drafts, the wonderful external cure which has brought more comfort into the United States than any internal remedy eve made. If they give relief, send us One Dollar; if not, don't send us a cent.


Magic Foot Drafts are worn on the sole of the feet, and cure by absorbing the poisonous acids in the blood through the large pores. They cure rheumatism in every part of the body, It must be evident to you that we couldn't afford to send the drafts on approval if they didn't cure, 750-A Oliver Bldg., Jackson, Mich'., for a 750-A Oliver Bldg., Jackson, Mich., for a
trial pair of drafts on approval. We send also a valuable booklet on Rheumatism.
PRICES REDUCED FoR 60




THIS BEAUTIFUL RING FREE!


EYE BOOK FREE!

$\qquad$
PHOTO BROOCHES 10





Hay Fever and Asthma


 CANCER Postivaly Tired withoul niffor or pin- non
 PARM AND FIRESIDE, Dept. of Agents, Springtield, Ohio
TAPE-MORM Entront:


$\frac{\text { Tr and cted with }}{}$ wate whompson's Eye Water

## PRIZE <br> 

## STORIES FREE TO YOU <br> We offer FREE with every subscription to THE AMERICAN HOME <br> 5 Complete Stories <br> Two of these stories won the first and second prizes in our great story writing contest and for which we paid the authors <br> S100 and $\$ 50$ CASHII <br> The titles of the two prize stories are <br> 

TENNY - A tale of Arkansas remote from railroads, by Edna Thatcher Russ.

| COUPON | SPECIAL |
| :---: | :---: |
| 559 | SUBSCRIPTION |
| OFFER |  |

RATILESNAKE JIM - A tale of Beersheba

These two stories and three others absolutely free. Read the comments by the Nashville, Mc Pherson and Wichita newspapers and then subscribe for THE AMERICAN HOME and get the five stories free. The best story paper published is

## The American <br> Home

A paper for every member of the family. Clean, entertaining and fascinating stories; a page of music; poetry and humorous sketches. Alpo a page of interesting contests each month in which cash prizes are awarded to subscribers.

## A Subscription Price of Only 10 Cents a Year.

SPECIAL SUBSCRIPTION OFFER ${ }^{\text {In oredef to onitle you to the FIVE STorirs fres }}$ coupon or mention the special number in the same, in your letter sending us ten cents, silver or stamps, and we will then send you The American Home one year and in addition will send you at once the five complete stories, including special prize stories, free.


See What One of Our Subscribers Thinks





> A Few Newspaper Comments Relating to Our Prize Stories















[^0]

THEIR FOURTHLY FROLIC
by may myrtle french

Nor going to celebrate!" echoed fourteen voices of variots de-
grees of youthfulness. For the grees of youthfulness. For the
voice of the fifteentl member of Green Corners school had just proclaimed that there wasn't to be a single town celebration in the whole county. This suited all the older folks very wev, but the younger generation was in
revolt. These fifteen determined to get up a celebration on their own account. There were all the ages usual in a country school, from the two or three big boys and the same number of large girls to tiny A B C scholars. doors exercises were to be held out of circle inclosed a temporary platfiwhich an obliging uncle, who "belonged" to some of the children, and who was a lumberman, had put up for the occasion. This was decorated with all the flags in the neighborhood, and they were enough to make a very pretty display, togethe with the flowers. Only red, white and blue flowers were used. Peonies, roses and hollyhocks supplied plenty of red, the same flowers with lilacs and snowballs, of which a belated few were found, gave plenty of white; but the blue was flowers the girls had purchased aurati ties of blue tissue, and made all sorts of impossible posies, which, however looked very pretty at a little distance The platform was built around a slender tree, the trunk of which was wound witl bunting, and high above the top floated the school-house flag.
The program was short-a flag-drill on the plan of a May-pole frolic was given very prettily by six small girls in costumes of red, white and blue; some one
read the Declaration, of course; several bright recitations a ppropriate to several were given, and a young man tho day
been a soldier in the Spanish-American War gave a description of the way he spent the Fourth of July in the Philippines. Fire-crackers were plenty, and
much happiness and a few burns resulted moch happinexs and a fow The inner was served at precisely noon. mothers had helped provide, this bounteous feast. A large table was built of rough boards, and draped to the ground with bunting. White muslin was used flags made it charming. They had tried to carry out the scheme of coloring so
far as was possible even in the eatables ar was possible even in the eatables.
All the dishes uised were white or blue and white Great heaps of blood-red beet-pickles, rosy radishes, and salads in idea cabbage-leaves, helped out the sugar and candies in these three colors There was room for everybody, and after all had been eaten that could be some one proposed speeches. Everybody had to say something, and great fun resulted. After a rest and the clearing up of the table, young and old joined in games, Old favorites were chosen, with, variations. "Drop the handkerchief" was
played on the smooth, hard playground, played on the smooth, hard playground,
only instead of using a handkerchief you only instead of using a handkerchief you
exploded a big torpedo behind the perexploden "had torpedo behig the person you with other game" "clothes-pin", was played with fire-crackers: "I ondon bridge" players passed under two flas: "hide the thimble" was done with a small flag, etc.
At about four o'clock a surprise in the shape of enough ice-cream to go around, "and then some," suddenly appeared, and by the time it was eaten and all the rest of the fire-crackers fired off, the babies at least were ready to go home.
Beíore they
Bélore they went the young teacher gathered her scholars all together, and school-children's oath of allegiance.


This Picture should be in every home "Our Beloved Presidents"

We will send free with each picture a brief account of the most important events in each man's career. This is a picture that should adorn the walls of every American home. You now have the chance of a lifetime to secure one of these elegant pictures. We are able to obtain at the present time only a few of these pictures, and our advice to you is to get your order in NOW. Order as No. 53.

## Three Pictures in One

An Admirable Work of Art
Size 15 by 21 Inches

## Lithographed in 10 Colors

If you want one of these Pictures, order it TO DAY
We will send one copy of this superb Picture, lithographed in 10 colors, and the Farm and Fireside one year, for only Absolutely Free This allows us 35 cents for Farm and Firethe picture, so you really get side and 5 cents for postage and packing of the picture, so you really get the picture absolutely free. Given free for send-
ing ONE new yearly subscription, not your own nor any member of your family. (Agents are allowed the regular cash commission on the 40-cent offer)
Address FARM AND FIRESIDE, Springfield, Ohio

## Repeating Air-Rifle Free <br> SHOOTS 300 TIMES WITH ONE LOADING

A TRUE SHOOTER
THE IDEAL GUN FOR BOYS Boys have use for fit every minute-hunting in the woods, slooting at targets, drilling as soldiers, and
dreds of uses that onty boys know about.
 lutu it gives the boy healthful pleasure, and lots of it for the money.


all parts are interchangeable. These air riffes are provided with pistol grip, true sights, and so strongly made that it is almost impossible


[^1]
## Farm Selections

## CRIMSON CLOVER AND COW•PEAS

[CONTINUED from page i]
manure crop. Sown any time in June
at the rate of one bushel of good
seed to the acre, they require only from
sixty-five to one hundred days (depend-
ing on variety) to produce mature crops
as valuable, acre for acre, as the very
best crops of clover, and such a thing as best crops of clover, and such a thing as
failure of cow-peas is unknown. Sow
the seed, and you will get a crop. If the seed, and you will get a crop. If dressing of stable manure, and may be an acre all told, including labor, seed and rieties of cow-peas, but the New Era
seems to lead in popularity here, being very early to mature, yet making a
heavy, upright bush with dense foliage which holds its leaves well until the pods for seed and the vines cut for hay after cure for hay than clover, but when cured THE GERMAN AND AMERICAN SYSTEMS OF FARMING COMPARED
Erich von Fluegge, of Speck, Pomer party that is now investigating American agriculture. in speaking of Germany's agricultural condition and of the advan of the scientific investigations along ag"You have already made use of all we have learned in centuries of practice
Now our land is poor, and we are a poor people, and we are driven to 'intensive'
farming. Fertilizers and a carefulness not necessary here are demanded of any
German who would find profit in his land become a chemistry. The farm is simply become a chemistry. The farm is simply a limited space covered with worn earth ceptacle for fertilizers, in which he plant and grows. In America you concen crops, and so keep down the cost of ma
chinery, buildings and labor. Potatoe are Germany's great staple crop. With
nearly sixty million people we must find a cheap food, and here the potato serve well. During the past ten years agricul-
tural methods have changed for the better in many particulars. We are growing new crops, are uniting in buying and sell-
ing, and are using improved machinery as well as improving our stock. If Ger Missouri to develop, it would be anothe Germany

CATALOGUES RECEIVED alogiss Chressie Neff, Saluda, N. C. Cat Ed. G. Sheldon \& Co., Kansas City
Mo. Sheldon's Bulletin for home-seek ers. Also "Tallmadge on Oklahoma." Whitman Agricultural Company Whitman's "World's Standard" baling Alabama Land \& Development Co Mobile, Ala. Descriptive circular of fruit and farming lands in Alabama an
Mississippi:
Plano Division International Plano Division International Harves
ter Company of America, Chicago, Ill binder and husker and shredder. NEWS-NOTES
Road-building in Pennsylvania is to be
conducted in a reasonable and just way.
The plan contemplates the dividing the
cost of durable, well-constructed roads
between the state, county and township.
The state is to bear half the expense, and
the county and township each one fourth.
They will be constructed by competent
road-builders, and kept in good repair.

## If any one proposes settling in th be well to ascertain where rural free livery has been introduced. An inquir <br> roads are kept in a passable condition and that the community is a progres sive one. Wherever a rural-free-delivery route has been established is a good place to invest in farm-lands. $* * *$

A fine reproduction of the latest and best photograph of Mrs. Theodore Roosevelt will be given to every one who Trait Puzzle on page 6. our picture is eleven by sixteen inches.

8

## President Roosevelt's Newsboy



TEvening Post to President Roosevelt every Thursday. Last fall William started to sell The Post in Washington. He already sold newspapers. One day, after he had received his supply of the out-of-town newspapers, h passed the White House and noticed that some papers which he had had for almost two hours were just being delivered. Next day was The Saturday Evening Post day. As soon as he had gotten his package he started for the White House on his bicycle at top speed, and sold as many copies as possible among he attaches. A few days later the President noticed a newspaper which he knew as told that it had not yet arrived. Inquiry was made as to where the copy which he had seen came from. He was told that "it was delivered by William Smith, THE Saturday Evening Post boy," it being related how he had been supplying the White House staff ahead of the regular carrier. The President left instructions with Secretary Cortelyou that William be brought to him. He shook hands with him and said that thereafter he wanted him to deliver his copies of the daily papers and The Saturday Evening Post. The story of "The President's Newsboy" traveled and now, in addition to his newspapers, William sells from 400 to 500 copies of The Post each week, principally to members of Congress, the President's household, and department clerks.

> There are 6000 boys like William Smith selling THE SATURDA Y EVENING POST all over the country.
They do it Friday afternoons aften school hours and on Saturdays. Some are making \$15.oo a veek. We zeant more boys. It costs nothing to start; we send the first zoeek's supply of ro copies free. If you
worite to-day, YOU CAN START NTH zurite to-day, YOU CAN START NEXT WEEK

$\$ 250$ in Extra Cash Prizes

will begiven Next Month to Boys who do Good Work
BOY DEPARTMENT, THE CURTIS PUBLISHING COMPANY

S26 Atch st, Priladelphishin


Dr. Coffee's famous 80 -page illustrated book on "The Eye and Its Diseases," will be sent to every reader of this paper who has any disease of the eye.


This book has pictures of all kinds of diseased eyes. It tells you how you can cure yourself of Cataracts, Glavcoma, Granulated Lids, Scums, cars, own home without visiting a doctor.

This book tells the complete story of how thousands of people afflicted with diseased eyes and blindness have cured their eyes and been restored to perfect sight by Dr. Coffee's mild home remedies. Write to Dr. Coffee today and you will re
sional opinion of your case free of charge.
 using $\$ 5.00$ worth of Dr. Coffee's absorption home remedies. Read what some of them say: Dr. Corree, Des Molnes, Iome, Ongl.

Hennr C. Laub. of Penision Towa, mas buina mith cataract

 month's treatment.

 H. W, wim
 One month's stre at itmont ourch herefys, and bindaness.



can read instructions, and they restore sight perfectly without visiting a doctor. Write to Dr. Coffee and tell hi who condition of your eyes and he will send you his book and professional opinion absolutely free of charge and tell you how to cure yourself at home if you can be cured. If you cannot be, Dr. Cofiee will tell you so frankly,

Dr. Coffee's Mild Medicines cure at Your Home Cataracts.Scums and Inflammation.
Glaucoma, Granulated Lids and
Wild Hairs, all Ulcers and InfamWild Hairs, all Ulcers and Inflam-
mation, Paresis of the Optic Nerve,
Weak and Congested Eyes. Dr. Coffee's Book gives instruc-
tions on how to diet, how to take tions on how to diet, how to take
physical exercise. how to bathe
properly, how to breathe properly and how to keep in perfect health.
It tells all about Dr. Coffee's Mild Absorption remedies and how 90,000 people have been restored to
sight by using them.


 Mrs. $\left.\begin{array}{l}\text {. . . Shuter. Bracondale, Ont., says: "My eyes are } \\ \text { perrect. Ican see better without my glasses than with the }\end{array}\right)$ since using one mothinth's treatment of your remedies
which cost $\$ 5.00$., Edwin Skillman, Centralia, Ill, says: or One month's
treatmoent $\mathbf{c}$ (ured my eyes pertectly of granulated lids,
 Harry Bu y ar i ever did, in my mi, life sio, says: "I can see as perfect-
reatment your Absorption J. M. Brewer, Dresden, Tenn, was blind from paraly nis or
the optic nerve. Doctors sald he would have to
ent he optic nerve. Doctors said he would have to stay blind
rest on hisistie. Was restored to perfect sight by Dr. Coffee's

819 Good Block, Des Moines, Iowa.


ALL STEEL LAWN FENCE
$\qquad$
 . Buy direcifrom us Save Agents Commission UP-TO-DATE M'F'G CO.


BOYS a good watch for a littie OF YOUR TIME. SEE PAGE 11. WE wILL MAKE You a Present of a chain $\$ 10.00$ IN CASH PRIZES

Awarded Every Month for Quick Work
ADDRESS FARM AND FIRESIDE, SPRINGFIELD, OHIO


IS THERE ANY REASON


## ORNAMENTAL FENCE



RAN

## Agricultural Progression-By Walter E. Andrews

IN A certain big state in the heart of the Middle West there lives a sunburned farmer who typifies agricultural progression the world has ever seen -a rural progression which in rapidity, perfection of detail and insistent, virile resourcefulness has not been equaled since the creation of the Universe. As farmers' names lave not as yet kept pace with their environment, the man to whom I refer is known as plain "Hank Peters." Some day, perhaps, his admirers will speak of him as "Mr. Henry Peters," but the more dignified title. Although excessively particular about the pedigree and name of lis live stock he is more or less indifferent about his own name Some thirty years ago Hank Peters "lorated" quarter-section of land that was just "five miles from nowhere." The roads were Indian trails; the land was covered with trees; in places stagnant water stood, breeding huge doses of "fever an' ague" and vast swarms of hungry mosquitoes. Three years passed. The trees had disappeared, and in their place arose a cheerless aggregation of stumps and a more or less checriess cabin ot logs., the inos quitoes were still on hand, and "fever an' ague" was a daily guest. Several settlers (attracted by the cheerful heroism of a bad example) had drifted into
the neighborhood. They, too, raised a crop of stumps the neighbornood. They too
In the course of a few more years the Peters' log cabin was replaced by a remarkable structure called a "board house." The neighbors, looking at that shanty, spoke of it in tones of admiration, They referred to Hank Peters as a "risin' citizen." place, a few house were a bare ficles of furniture enough to eat, and an extra chair for a possible guest There was not much else except hope. During cold weather the family rode to town in a rough, home-made bob-sleigh that drew tears of envy from less favored neighbors; at other times of the year a squeaking springless farm-wagon was the only vehicle in use. A ten-mile ride in it to town and back was a soul-
stirring, nerve-racking experience peculiarly piquant stirring, nerve-racking experience peculiarly, piquant.
The Indian trails were now called "roads" an impossible slander on the name during half the year and an impassable slander the rest of the year.
The Peters had no sewing-machine, n
piano, no stoves, no curtains, no conveniences or lux-

uries. Their clothes were home-made. Their pleasure were home-made. Their troubles were not made at all, When necessary-life was chuck-full o troubles.
When Peters planted corn he dropped the seed by hand and covered it with a hoe. He cut grass with a scythe, raked and pitched it with the sweat of his brow, dodged stumps and chills, and then went lome to a dinner of corn-bread and fried pork. A God's slyy the only shelter for the hay and fodder. God s sky the only shelter for the hay and fodder. daily papers or mails were unknown; the joys of living were condensed into sticks of "honey an' terbacker."

To-day, should you chance to visit Hank Peters farm, you would rub your eyes and look again. Where are the stumps, the swampy fields, the swarms of mosquitoes, the rude shed-barn and the more rude board house, the lonely life, the monotonous grind?

Gone, all gone.
Tile-drains have destroyed swamps, malaria and mosquitoes at one masterful swoop. Time, muscle and fire have eradicated the stumps. Genius and science have destroyed isolation and monotony. Hank Peters, despite boots and overalls, is now to be envied. ey cows, his high-bred pigs, his driving and work

horses, his pure-blooded hens. He still works hard at times, but not so hard as he once did. Horse-power, electricity, steam and air power have taken many more with his heade jobs from his hands. And feet. He has more leisure, more comfort, more luxury.

The Peters' present farm-house, enlarged and improved, is a marvel of homelike comfort. In it are to be had almost every, comfort and convenience that are found in a rich man's residence-pretty rugs, pictures, curtains, furniture, dainty china and linen, comfortable chairs and couches. new books and periodicals, hot and cold water up-stairs and down, modern plumbing, a porcelain bath-tub and a kitchen range. In the hibrary (which room is also the owner's office)
there hangs a telephone; in the cellar is a gasthere hangs a telephone; in the cellar is a gas-
machine and a hot-water furnace; in the attic is a machine and a hot-water furnace; in the attic is a
billiard-room for the boys. The girls have a billiard-room for the boys. The girls have a
piano-and know how to play on it. The wife and mother lias a sewing-machine and a rubbertired carriage.

The boys and girls of the household play tennis, ride bicycles and take dancing-lessons. One boy is in college. The others could go if they chose, but instead they have preferred to take a short course at an agricultural school. They want to be twentieth-century farmers, like their, father; they have no desire to "leave the farm,"
for what other business could be more indepenfor what other bus
dent or desirable?
dent or desirable?
Hank Peters- uch the same old Hank of logcabin days-is in the prime of life. His face is ined with the furrows of past hardships, but there is now a certain calmess and serenity shining in
his gray eyes that was not there thirty years ago. his gray eyes that was not there thirty years ago.
Sundays and evenings he wears good clothes, a collar and a patient smile; at other times he revels in overalls, jumpers and solid comfort.
The new barnl is a constant source of delight to the owner. "'Twas my pet dream," he remarks, reminiscently, "to own a barn big enouligh to turn 'round in. An' I've got it!" He has, and more, too. On top of the barn is a poiver windmill that does
more work in an hour than Hank used to do unaided more work in an hour than Hank used to do unaided
in a day. It shells or grinds corn, saws wood, cuts in a day. It shells or grinds corn, saws
fodder and does many other useful things.

The name of the farm is on the steel mail-box by the roadside, and when the rural-mail carrier comes on his regular rounds he sometimes deposits in that box
(along with the daily papers and the other mail) a (along with the daily papers and the other mail) a
gone-astray letter which has been returned according to the printed instructions on the envelope, to "H.

Peters, Lake View Farm." . Hank has become a convert to printers' ink. He prides himself on his neatly printed.stationery, and often puts an advertisement in the local papers. "That's business!" says Hank. If he wishes to go to town, he can either take the trolley-car which passes by the farm, or "hook up" the trotting-mare to the rubber-tired road-cart. The roads at last are worthy of the name. If he wants a sack of sugar or a piece of fresh beef, he has only to step to the telephone and order what he wants from the town merchant. The trolley-car brings the goods to his farm; it takes the younger children to an excellent town school; it makes visiting and church-going easy; it brings the farm into close touch with the
town.
Modern machinery has brought a great change

Modern machinery has brought a great change
into Hank Peters' farm-methods. The ground is now plowed with a gang-plow, whereon the driver comfortably sits while four horses do the work. This plow turns two furrows at one operation, doing double the work of the old-style "walking-plow" at one half the expenditure of human effort. A "riding-harrow" follows the plow. Machine cornplanters do away with iniles of weary walking and days of hand-work.

In fact, almost all the operations of the farm are now accomplished while the operator is comfortably seated under a sunshade. There are horse-power machines for planting and digging potatoes, for
sowing grain and distributing fertilizers, for spreading manure and for mowing raking and pitching ing manure, and for mowing, raking and pitching spray the potato-vines. Centrifugal separators whirl spray the potato-vines. Centrifugal separators whirl
the cream from the fresh milk, and save the housethe cream from the fresh milk, and save the housewife the labor of setting, skimming, and washing the churn, and electricity carries the butter to market -the housewife no longer need be a family drudge. She sets a better table. She has time to read and visit. When the corn is ready to husk, a traveling "husker and shredder" comes to the farm. This wonderful machine, operated by steam-power derived from a traction-engine, husks the corn, dumps the ears into he crib, shreds, through a hoge pipe up into the barn mow blows it through a huge pipe up into the barn mow. The macorn, and in a few days the once tedious job is finished Grain is threshed, beans are harvested and cleaned,

apples and potatoes are graded, and butter is worked -all by machinery. Machinery runs the farm, and Hank mercly bosses the job. He has learned that bossing is easier than back-breaking-and more prot-
itable. He has learned, too, that there is as great an itable. He has learned, too, that there is as great an
art in selling a crop as there is in growing it. Once art in selling a crop as there, is in growing it. Once
he "took what he could get" for his produce; now, he took what he colld get for his produce, now. Hank Peters is but one instance of the possibilities of farm life to-day. What he has done, other men can do, will do, are doing. come a mighty factor in the upward and onward
has becolution of the world. evolution of the world.

## FARM AND FIRESIDE

THE CROWELL PUBLISHING CO.

\(\begin{array}{ccc}147 Nassau St. \& SPRINGFIELD \& 204 Dearborn St.<br>OHIO YORK CITY \& OHIO \& CHICAGO\end{array}\) Subscriptions and all business letters may be addressed to "FuRM AND FIRESIDE," at eitber one of the above-mentioned offices; letters for the Editor sbould be marked "EDITOR."

## entered at the post-office at springaield, ohio

## TERMS OF SUBSCRIPTION

In Clubs, if Paid in Advance $\quad: \quad: \quad: \quad 35$ Cents 50 Certs Year
On The above rates include the payment of postage by us. All
subscriptions commence with the is ue on press when the order is received.
Subscribers receive this paper twice a month, which is
often as most otber farm and poultry journals are issued.


## Mr. Greiner Says

BUilding and Loan Associaftons.-A lady reader in Saratoga Springs, N. Y., asks what has become of a building and loan association fo
merly doing business in Syracuse, that stat They or their agents promised great things. For over
three hundred dollars paid to them she has received fifteen dollars. The rest, with her interest for a series of years, had to be charged to the loss account. I
have made mention of the mutual building and loan associations in a general way once before in these
columns, saying that they are right and useful in columns, saying that they are right and useful in
princinle, and frequently very wrong in practice. Since that time a large number of them have gone to the wall, among them two that I know of in Syracuse,
N. Y. I had withdrawn, with some slight loss, from ali such institutions to which I belonged except one,
and in this last one I got pinched a little more severely. and in this last one I got pinched a little more severely, N. Y., for instance) that are entirely trustworthy, because managed economically and carefully by prominent local people. They are doing good work in their
line, giving to their shareholders an opportunity to accumulate some little money by means of regular
monthly payments and economy, or to establish and monthly payments and economy, or to establish and
pay for a home of their own. Ordinarily, however, these institutions are organized and managed for the officers, and the expense accounts are run up so high officers, and the expense accounts are run up so high
that the shareholders finally have to suffer. Therefore
I would not recommend them for the safe investment of your earnings. They are least trustworthy when promising a high rate of interest on the money, and
in mo respect equal a well-established savings-bank. The best investment, of course, is a home of your own.

Iaipoverishing Soil by Fertilizers.-A reader asks me about the use of nitrate of soda-whether it
is good for all kinds of crops, in what quantity, and whether it will leave the ground poorer. The fear is often expressed by farmers that the use of chemical
fertilizers, such as acid phosphate, etc., will leave the fertilizers, such as acid phosphate, etc., will leave the
land poorer than before. It seems to me rather
strange reasoning for strange reasoning for good farmers. Who would exand weaker than it would be if it were given neither and weaker work? I am never arraid to get a day 's work
oats nor a strong, well-fed animal nor to take a full crop
out of out of strong, well-fed animal nor to take a yull crop
off strong, healthy soil. By using the whip you may
be able to squeeze a little more work out of a tired and starved horse, or by using plaster, lime or salt you may squeeze an additional bushel or two of grain out of a
run-down acre of land, and thereby break down the
horse or ruin the land. It is certainly true that by the horse or ruin the land. It is certainly true that by the
removal of a full crop of wheat oats, corn or any-
thing else we also remove a big tot of thing else we also remove a big lot of plant-food; but smaller quantities of plant-food. The facts are that rather than impoverishes his soil at the same time. If the land already contains plenty of minerals, phos-
phoric acid and potash, and nitrogen is the only thing
别 phoric acid and potash, and nitrogen is the only thing
that is lacking, the application of nitrate of soda will
most likely not only increase the crop, but also leave most likely not only increase the crop, but also leave
the soil in better condition for a succeeding crop. Or if potash is the only plant-food that is in scant supply,
its application will help the present crop, and probably
put the soil in better condition for another crop. Ni-
trate of soda, however, cannot be expected to stay in the soil for any length of time if not taken up by plants. It is readily soluble, and is liable to be washed out in
 A Visit At Guelph.-I have made another trip to
the college and experiment farm at Guelph, this time in a joint excursion of the Niagara County Farmers Club and the Welland County (Ontario) Farmers Club. I do not believe that anybody can liit himself
up by running his neighbors down. I do not believe hat palifed praisequires us to give immoderate and unqualified praise to our own institutions and refuse to recognize or mention the merits of other people. merits of our neighbors. The college and farm at Guelph is a great institution; in fact, a model in some respects-a model as an experiment station and as a and farm life. The colle educates boys for the farm antictly weedless farm of which I know. June days were busy days for Doctor Mills and his staff, for
almost every day brought one or more big excursions from some part of the province to be fed and shown around. No visitor at the college grounds need go
home without being filled with good and valuable home without being filled with good and valuable
points and lessons. Some of these I will briefly recount.

Gratn Tests.-The cereal tests of varieties and methods of seeding, fertilizing, etc., begun years ago, are still continued. From soine distance the plots look as pretty as a picture. and when you come to
them you see ideal stands of grain without as much as such plots, of uniform and quite respectable size a such plots, of uniform and quite respectable size, as of these plots amounts to about fifty acres. Professor Zaritz, the skilful and well-known experimentalist, has made the experiment of growing grain in mixtures, especially oats, barley and peas. For the past fix years, in nine cases out of ten, he has, secured larger
yields of both fodder and grain by growing mixtures ather than single grains. Oats and peas gave the largest yield of fodder, oats and barley the largest yield
of grain. Of all the different proportions tried during of grain. Of all the different proportions tried during the past three years, one bushel of oats to from one to ne and one-half bushels of barley has proved best Oats alone gave about two thousand pounds, barley
alone eighteen hundred pounds, and the mixture alone eighteen hundred pounds, and the mixture

twenty-two hundred pounds, of grain to the acre. Pro| by selection and crossing. Of all wheat varieties |
| :--- | Dawson's Golden Chaff still remains at the head as a yielder. Turkey Red is the hardest wheat. but short et no wheat that and a small yielder. There is as the prolificacy of Dawson's Golden Chaff. Mr. Zaritz now has a lot of crosses of Turkey Red upon Daw son's Golden Chaff, and the combination may finally give what is desired. Another course also promises

good results. This is to start with the best varieties, and then select and propagate the best plants. White Siberian has proved the best variety of oats, Man-
churian the best barley. Both are of Russian origin.
Grass Tesss.-In the grass tests it was found that tall fescue makes a splendid pasture-grass. Together of oats to the acre. This was the method of sowing of oats to the acre. This was the method of sowing has resulted in the splendid stand of all grasses in the plots. Tali oat-grass and alfalfa gave the largest obtained from timothy and clover. Both grasses come in at the same time, which is not the case with timothy and clover. Besides, there is an excellent aftergrowth The combination is, good for hay or pasture, although the tall oat-grass is not quite so good in quality as
timothy. Alfalfa is richer than red clover. Both timothy. Alfalfa is richer than red clover. Both
grasses last a good many years. The mixture has also grasses last a good many years. The mixture has also
been sown with winter wheat in fall with good results. If it is to be sown with spring grain, it should be done as early as possible, and seed used at the rate of twelve pounds of alfalfa and tiventy-six pounds of tall
oat-grass. Alfalfa has proved its great value at this oat-grass. Alfalfa has proved its great value at this
station also. Up to twenty tons of green fodder to the acre have been secured from it in a year. In the first year it is sometimes a little tender. and will need year it is sometimes a littie tender and will need
nursing. The stands on all the alfalfa-plots on the
grounds were magnificent, and were about equal, no grounds were magnificent, and were about equal, no applications of plant-food had been made in former seasons. Mr. Zaritz advises the cutting of alfalfa when not more than one third, or perhaps better, only one tenth, of the blossoms are out. The stem after-
ward becomes hard and woody. In curing, alfalfa ward becomes hard and woody. In curing, alfalfa
should not be left too lorig in the hot sunshine, for fear should not be left too long in the hot sunshine, for fear
of losing too large a proportion of the tender leaves. Finish curing in the cock. Alfalfa requires a good
open subsoil, but is not particular as to the top soil.
Improving Grains.-In the improvement of our standard cereals no doubt there is an open field that anybody can enter. The starting-point, as already curable. Then comes the matter of selection. Whoever finds an especially fine plant-a plant that bear an especially large ear with especially large and plump
grains-should save and propagate it. It does not require a station expert or a professional propagator
to do that; in fact. many of our best things in this line to do that; in fact. many of our best things in this line,
and in fruits, too, have been accidentally discovered by non-professionals (or non-professors), and owe their existence and fame to the foresight with which their discoverer saved the plant or seed from destruction or
from the loss of its identity. In the course of the Guelph experiments it has been found that a large, pump sed-grain gives a larger yield than a small,
plump grain or a shrunken grain. Consequently, when an improvement by selectio is attempted, the parent plant should be allowed to come to full maturity. and the dead-ripe seed be saved for propagation. Every one ought to be on the lookout for fine individual

## Mr. Grundy Says

LEaf-scab.-I asked an orchardist what he did to prevent leaf-scab on his apples and pears. He asked if it always had the desired effect. He said it appeared to in a favorable season. If the ture had very little effect. Last year was a favorable year with me, and the mixture seemed to prevent leaf scab almost entirely. It was a great success. This year we had a very wet early spring, followed by a was at its best, and Bordeaux seemed to haver leaf-scab was at its best, and Bordeaux seemed to have had about trees lofect it as so much water. I never saw fective. I have many times noticed apple if be de for leaf-scab are unfavorable it is easily kept in check and almost annihilated by Bordeaux. If the applications are not made it will spread rapidly whenever conditions become favorable, which they are likely to do almost any time in the early season. So I have come to the conclusion that it pays to spray for leaf-scab every season.

Red-mites by the Million.-The same rule ap plies to poultry-houses. Some seasons the little redwith, the meanest pest the poultry-raiser has next they will appear by millions. One must have sharp eyes to see them. It is easy to find them with a powerful magnifying-glass, and every poultryman should have a hand-glass. It will enable him to see things that will surprise him. Then it pays to spray for the pestiferous mites every season. If the season is unfavorable for them they may be kept in check effective, but if the season is favorable for their devel opment they will appear almost in a day by millions, and one must be up and at them two or by millions, week to hold them in check and prevent an times "cholera" from destroying his fowls. I am satisfie that mites kill more fowls and chicks than disease have seen the perches almost covered with them, and the owner of the fowls wondered what ailed them. An a vigorous and frequent spra with lice and mit killers, getting into every chink, will destroy them.

The Boy's Gardening.-A few days ago I saw little fellow ten or twelve years old peddling lettuce.
He had a half-bushel market-basketful, and I asked him how many heads there were. He slipped his han in, and showed me that there were just four. Th four plants filled the basket.
tender, brittle, delicious ene had a great mass of smooth-leaved, cabbage sorts, and had been grown in rich soil in the boy's little garden. He said he had sown transplanted a small box about the first of March, and work up well. The plants were set about eight inche apart in rows fourteen inches apart, and they had grown so large that four of them filled a half-bushel basket. One plant made a good mess for an ordinary family, and he was selling them for five cents each
He said that as soon as the lettuce was sold he would He said that as soon as the lettuce was sold he would plant the space with celery
The day before I saw the boy selling that lettuce I heard a farmer's wife say that she had not raised a
"square mess of vegetables" this season. The radsquare mess of vegetables" this season. The rad-
ishes were small, tough and bitter, and the lettuce grew so, slowly that it was not fit to eat. All the dandelion that she had dug up along the roadsides. They have plenty of land, manure, tools and teams, but the men-folks don't like gardening, and she had so much to do that she could not attend to it. A neighbor sent her about a peck of radishes and lettuce one day, and the men-folks quickly that she scarcely got a bite." It is safe to sa that every day each one of those four men would eat and more than relish a whole head of lettuce such a the boy was selling. And they could have it as well as not, but they dont like gardening, and consequently their bill of fare is limited to bacon, beans, corn and wheat-bread, with potatoes part of the season.
Quite a number of people asked the boy how he managed to raise such fine lettuce, and he told them just how he went about how he manured the ground worling the manure all through a soil at it about half manure; how he dug it over again las spring; how he grew and set out his plants, etc, and the more he told it to his admiring listeners the better he liked to tell it. He was unconsciously doing excellent garden-missionary work, and it is safe to say that others will grow fine lettuce-heads next yearpeople who never before grew a good head of lettuce,
never even knew that they could be grown to such perfection, nor how much superior they are to a mer bunch of leaves, such as most people grow. Very few people seem to know that to grow first-class vegetable the land must be prepared the previous season. It will not do to wait until spring before manuring. Spring manuring means a big crop of early weeds and grass, the best success by clearing the ground and manuring heavily in the latter part of July, plowing the manure in, and sowing to turnips. Plowing and harrowing the following spring fit the soil for gardening, and we get the full benefit of the manure applied. A farmer whose soil is rather heavy clay, and who always has good garden, tells me that after manuring heavily and plowing in July he sows cow-peas, and gives the patch no more attention until spring. The peas make a heavy growth of vine, are killed by frost, and lie on the ground until spring, when what remains of them i turned under with the plow. This is an excellent
method, especially in sections where the soil is heavy.

FRESTRY. - When $t h$ spoken of, we inctine to refer to the theorist for eonsideration. It may we say, but only in a hazy
indirect way, and one wholly
beyond his control. And so the subject is dismissed as one not worth the time and consideration of a man who must look out for himself. I admit that this view was,my own years ago. It was all right for a city or state to concern itself about great areas of torest that
affected its water-supply, and it was to be expected affected its water-supply, and it was to be expected
that a theorist would tell farmers that they should that a theorist would tell farmers
grow trees to affect the humidity of the air, but the grow trees to affect naught to do with the subject. I trust that in recent ycars I have gotten nearer the landowners need specific information about timberproduction, because they should be growing some timproduction, $\begin{aligned} & \text { ber for their financial profit. The subject of forestry } \\ & \text { bet }\end{aligned}$ concerns men who own farms containing one, two or three acres of rough land far more than it does
or men with large holdings of land. The laking, for men of moderate means, and can never do much in the practical way of producing timber to the best advan-
tage. The information is most needed by those who tage. The information is most needed by those who
have their farms well in hand, and have only small have their farms well in hand, and have only small-
areas that should be producing timber. With wellareas thab labor such men will add to the value of their farms through practical forestry on a small scale, and the aggregate of such timber-producing areas wass by come large before any great number of years pass by
The pioneer in the wooded districts of this country thought only of "clearing" land, and that was the right thought only of clearing land, and that was the right
thing for him. Ground for cropping was the necessary consideration. But this virtue in the pioneer has become almost a vice in his descendants. We have continued to praise the farmer who labors hard to kcep
the bluffs and thin breaks on his farm clear of any the bluffs and thin breaks on his farm clear of any
growth except grass, and as he very often cannot get growth except grass, and as he very often cannot get
or hold a stand of the latter, he has as pay for his labor only the praise of others in that his farm is covering, and the cheap and profitable covering is covering, and the che business of the owner should be may be good profit in the future, and this would be the course taken by very many people if they wcre in course taken by very many people ia they wcre in
possession of all the facts about varieties, rate of growth, market prices, etc. I hazard the guess that three fourths of the farms in the United States could
have their value and appearance improved by plots of have their value and appearance improved by plots of growing timber ranging in size from half an acr
scores of acres, according to the size of the farm.

The State's Duty--If it is within the state's
province to foster agriculture as it has fostered all province to foster agriculture as it has fostered all
other industries, it should now place facts concerning other industries, it should now place facts concerning
forestry before the farmers. Our experiment stations forestry before the farmers. Our experiment stations
should take the matter up vigorously. We want all should take that can be obtained by scientific inownewth be secured and growth be secured and
controlled most cheaply, and what returns
lipon the invcstment may be -expected with
eonfidence? We have isolated experiences to encourage us, but more
data of an entirely acdata of an entirely ac-
curate kind are needed, curate kind are needed,
and our stations should and our stations should
equip themselves with equip themselves
the necessary facts.

Effect of Forests on Soil.-We know by grow more fertile while grow more fertile while
producing timber. The trees use fertility, and yet leave the ground
more productive. This is true not only of such varieties as the locust, which gets nitrogen
from the air in the manne
and es will pay us best how may the

fresh forest-litter." After giving a summary of the Professor's experiments, thc writer continues: practical deduction from Professor Henry's scientific investigation is the advisability of planting cut-over areas as soon the soil may hind in fornt que longer cutover areas main unplanted, the less is success to be expected from planting, as the young trces develop poorly because o planting, as the young trces develop poorly because o
insufficient nourishment. Thus the forest not only furnishes timber and other products, prevents snow and land slides, and regulates the flow of rivers, but enriches the soil with nitrogen, one of the most essential nutritive elements of plants, and in this way transforms poor soils, which have been fit only for tree-growth, into rich agricultural lands.

Keep Soils Covered--Lct us draw one practical lesson from these experiments, whether we are in terested in a plot of timbcr on the farm or not. I decaying forest-1caves entrap some fertility from the air while rotting, 1 think we may saiely infer that all decaying vegetation does the same thing. I have never bcen satisfed that the supply of nitrogen in our soils could be accounted for by reference to legume
like clover, stable manure and the slight amount re ceived in rainfall. Too many acres get none of th first two purvcyors of nitrogen, and this element is always escaping from us, and yet the aggregate amount in any fair soil is quite large. We must believe that soils have other means of securing some of the expensive nitrogen, and one of these means is
pointed out by the experiments mentioned. The lespointed out by the experiments mentioned. The lesson is to not leave land bare, and that the supply of vegetable material to be rotted on top or in the soil
should be as abundant as possible.

## WEED-bATTLES LOST AND WON

A farmer is known and judged to no small extent by the weed-company he keeps about him or the absence of it. Weeds, scientifically considered as "plants when they are allowed to take possession of the space when rights of more valuabie plants that they become. a menace. It is not uncommon to find farmers who have developed an unreasoning weed-craze, and make life a burclen in their efforts to annihilate every weed injurious or otherwise, on their places. The practical farmer will use an intelligent discrimination in his nec essary warfare against the wced-hosts. It is not the rank-growing young weeds, lining up along the fencerows and greening the unoccupied spaces, nor yet
the occasional straggling weeds which have escaped the occasional stragghing weeds which have escaped
the cultivator, that should disturb or compromise the farmer who is out for results. An army of puny, spindling weeds may appear among the corn, cotton or other "laid-by" crops, which will cause some disfigurement to the field at time of harvest in the eyes
of the uninitiated, but their start will have been too
a familiar scene
late to harm the crop, which by that time will so overtop and smother the late-comers as to allow of but little damage being done either to the crop or in the maturing of weed-seed. What the careful, progressive farmer should guard against and feel disgraced by is the bristling, leafless stcms of the ripened weed-plants, nodding and beckoning in the breeze to the passer-by
after their matured seeds have already been scattered by wind, bird and beast to continue their mischief in future years

The successful farm-general in the battle with the weeds is the one that assaults the successive regiment at the critical moment, bcfore they have time to be come intrenched. With cultivated crops a proper and sufficient preparation of the seed-bed is half a victory in itself. A periectly preparcd seed-bed will allow of ruptedly, even before the crop appears above ground. Thus myriads of weed-seeds are put out of the race moisture needed for the future is conserved, and the soil warmed and aêrated, where otherwise early culti vation would have been so destructive as to be imprac ticable. In sown crops the weed-battles are also greatly assisted in the winning by perfect seed-bed preparation, thus enabling the delicate young crop-
plants to be in the race from the start. Much, too, can
ture is to get the soil so
highly productive and densely sodded that in the struggle for existence the grasses and clovers will choke, dwarf and crowd out the weed
without much assistance.
B. F. W. THoRPE.

## when the farmer goes to town

We all go sometimes, and we take with us stuff from the farm to sell. That is a part of our business, and it is quite a study how we may do it most success fully. Not cvery man is a success as a marketman fotown soliciting in his own behalf. He is glad when the ordcal is over and he has disposed of his milk his the ordcal is over and he has disposed of his milk, his
butter or his vegetables. Such a man should not drive butter or his vegetables. Such a man should not drive
himself to follow this occupation. He slould turn his stuff over to some one who enjoys meeting men in his stuft over to some one who enjoys meeting nen in
this way. And some do. They make a success of it because thcy like to rub against men in their own homes, and take pleasure in a few moments' chat.

But when the farmer gocs to town, whoever he is, or whatever he has to sell, he should dress for his beard on his face cannot present his wares to the city customer as successfully as the one who is well dressed, clean, and shavcn as if he were going to
"have company." Folks notice such things, much as wc may think to the contraice such things, much a wc may thimk to the
If it is butter he is selling let be put up in a neat way If a in. I know a mang who has a print of his neat as a pin. with a beautiful flower on it. The butter he puts into this mold is simply fine. Folks look at it, and see how attractive it would be on the table, and they buy it, and pay a little more for it than they would if it were
simply packed in a square or round roll. If the butter simply packed in a square or round roll. If the butter
is in jars, let them be scrupulously neat-neat to look is in jars, let them be scrupulously neat-neat to look at, and neat to taste and smell.
And that leads to the thought that the butter and other produce offered for sale must not only look nice, but must be nice. You cannot build up a reputation on looks alone. The buth poor, with short-keeping qualities, you have really
done yourself an injury by taking so much pains in packing You cannot make poor butter rood by putpacking. You cannot make poor butter good by put-
ting it into a beautiful mold. The first thing to do, ting it into a beautiful mold. The first thing to do,
then, is to learn how to make good butter. If it is fruit or yegetables you are offering, see to it that they are all nice, choice apples or vegetables clear down to the bottom. I have been in a position myself to know how it seemed to buy such things of farmers. I know how often the nicest stuft is put on the top, while down a little way one will find the small and imperfect fruit or vegctables. That is an actual loss to the man top, or better still make two put the very poorest on top, or better still, make two assortments, putting the good in one crate and the inferior in another, and havmuch, and establish a reputation for strict honesty.
And then, be honest in every way. If you promise to deliver stuff on a certain day, be there. If the lady of the house makes a change, correct it, even if the error was in your favor. Keep track of
all the jars and other packages you leave about town, and call Many men when empty. Many men lose con-
siderable sums by failsiderable sums by fail-
ing to get back the ing to get back the
jars, etc. Study ment
and women. Try to and women. Try to and be fair. Then exe worthy of it, and it
will come. E. L. Vincent.

## MACARONI WHEAT

Prof. M. A. Carleton, of the United Agriculture, in an address delivered at the, United States Millers' Convention at Detroit
June 3-5, 1903, made it very clear that the
growing of the aroni varieties of wheat is likely to prove quite profitable in the semi-arid sections, where other varieties cannot be successfully grown. No less than half a
dozen of the Unitcd States macaroni-factories are now using the flour made from this wheat. The fact has to produce a flour for macaroni-making equal to the
best now imported from southern Europe.

## BIRD•HOUSES

In the Farar and Fireside of June I, 1003, I note wish to tell him that sparrows can be kep out of houses designed for bluebirds by simply omitting any perch, as the sparrow cannot enter a house without a
perch. All of our desirable birds are independent of perch. All of our desirable birds are independent of
the perch.
RUBY CLARK.

## dignify farming

If the farmer is in love with his profession, as he should be, he can, if he will, do much to elevate it and make it looked up to. Let dignity be added to labor, all occupations will be accorded its full share of respectful consideration.

## Gardening

by t. gREINER

Ir Seems Pretty Hard Work on my grounds this year to save a few cherries from the greed of
robins. I have such fine varieties, and such a full crop, too. If I want cherries for canning I must pick them long before they are ripe
The One Redeeming Feature of even the most severe drought is that we can mitigate its effects by
irrigation. But we can't hold umbrellas over our soil irrigation. But we can't hold umbrellas over our soil
or light up an artificial sun when it rains "cats and or light up an artificial sun when it rains "cats and
dogs" three days out of every five and the sun remains
hidden behind clouds almost for, weeks.

Another Bad Season for Melons.-Between the unusual coolness of the season. an excess of rain, and the usual abundance of the yellow-striped cucumberbeetles, my melons are having a sorry time. If the
rain lets up, however, I shall yet plant the quickrain lets up, however, I shall yet plant the quick-
growing Enerald Gem for a fall crop. My watermelons won't amount to much, though.

Green Peas in full supply on the first day of summer (June 21st)! The Alaska is still at the head for an early pea, and in quality it is almost equal to the
wrinkled peas. It wants strong soil to give a full wrinkled peas. It wants strong soil to give a full
crop, and then it is remarkably prolific and the pods
well filled. Oi course it gives onty a few pickings. well filled. Of course, it gives orty a few pickings. By July ist the first-planted Alaska is already sup-
planted by some other crop, usually celery.
A New Early Strawberry--While at Guelph, Professor Hutt showed me his trial-patch of hundreds
of yarieties of strawberries. He tells me that he has of varieties of strawberries. He teplis me that he has
thrown out the Michel's Early, simply because he finds that the new VanDeman is just as early and a much
better berry. Of course, I am going to try it; but I will not discard Michel's Early until I have tried the other and found it satisfactory.

The Everbearing Strawberries.-A couple of
ears ago I let my bed of the Alpine Everbearing years ago I let my bed of the Alpine Everbearing
strawberry run out, or rather had it plowed up. I am strawberry run out, or rather had it plowed up. I am
almost sorry I did, and may procure a new stock. I like to have a few of them on the place, even if they
give me no more than a taste at any time, and not give me no more than a taste at any time, and not
much of that except in and shortly after the regular much of that except in and shortly after the regular
strawberry-season. The flavor, however, is exquisite. fruited berries in the new French Everbearing sorts refruited berries in the new French Everbearing sorts re-
cently introduced. These new Everbearers seem to be utterly worthless here. I can't get even a taste, for
the few berries that do grow and come near ripening are invariably picked up by the birds, possibly on ac-
count of their fine flavor. I might have saved a few count of their fine flavor. I might have saved a few
of the earlier and larger berries by putting some sort of guard or protector over the plants. I have fussed with the "French Everbearing" sorts for the past
three years without even being able to get a full stand three years without even being able to get a full stand
of plants. They are poor plant-makers, the plants are not rugged. and they make no particular effort to bear
fruit except in the regular strawberry-season. I will fruit except in the regular stra
have no more to do with them.

SUPPORT FOR BuSh-FRUITS.- -My raspberries and blackberries have made an unusually rank growth, and
many of the large blackcap canes have been knocked many of the large
over and wholiy or parktially broken off near the roots.
What is left of them I have given a severe trimming so as to make them short and to prevent further
breaking down. There is probably no easier way to give them some protecting support than by driving a
little stake in each hill and tying the canes to it. My

## (aty)

red raspberries are supported by a line of slats on each side, the two lines being about a foot apart and three feet high. The raspberry and blackberry bushes on
the New York Experiment Station grounds are nicely the New York Experiment Station grounds are nicely
supported by a still simpler and cheaper device. A
stout stake is driven firmly into the ground at the end of each of the rather short rows, and provided with a strong cross-arm, say about two feet from the ground. A stout wire is then stretched from arm to arm on
each side, and it seems to hold the bushes up very well.

Keeping Potatoes for High Prices.-Just at this time old potatoes are at a premium. Those who have
kept a surplus until this time (nearly July) can easily kecure from one dollar up to one dollar and twenty-five is usually a time just before our own early potatoes get is usually a time just before our own early potatoes get
big enough for une when old potatoes bring a big
price. The question is whether it will pay us to keep
them until this time and incur all the risks of shrink them until this time, and incur all the risks of shrinkage,
rot and other accidents and incidents, and all the labor and trouble connected with their repeated handling.
It usually would if prices are low in fall or early winter. In the first place, we should try to select a va-
riety of potato that is tardy to sprout. Of all potatoes that I am acquainted with. none keeps longer without
sprouting than the Early Ohio, the very earliest good
sort we have. I believe if this were kept, and planted quite late in spring or early in summer, the resulting
crop might be held until potatoes came a gain without showing much tendency to sprout. But there is much diference in regard to the season of sprouting be-
selected for late keeping. If these are properly handled
they may be had in excellent shape for cooling purposes the latter part of June or during July. I find it most convenient to put them in crates, and empty crates, and stacked up crate upon crate, the potatoes will not be injured for culinary purposes even by exposure to some light, and this again would retard their sprouting. I do not believe that any treatment that will absolutely prevent potatoes from sprouting, and keep them in best condition for cooking, has yet been
discovered. It seems to me that such a process could be found, and that it is well worth looking for

The Strawberries.-At this writing the straw-berry-season is nearly over. I have had an abundance
of berries, and enjoyed them as much as ever. The of berries, and enjoyed them as much as ever. The
first berries I had this season came from the Michel's Early patch. This is not a high-grade berry, and is not particularly prolific. The berry is not of extraother varieties begar to give ripe fruit. Thus the Michel added a whole week to my strawberry-season. The patch yielded more or less freely from June Ist until June Isth or 20 th, or for nearly three weeks. growers here, and it surely remains "the cook's favorknow how we could afford to discard it or what sort to substitute for it. We have plenty of berries that give excellent satisfaction as table-berries, but when we want berries for a first-class shortcake or for a candle to the Wilson. The pickers like the Brandywine on account of its size, and we like to eat it in
the patch, or with cream and sugar. It is a magnifpurt berry here, and one especially suited for show purposes, but it does not ship quite as well as the
Wilson. I planted some Clyde, simply because I had heard J. H. Hale, the peach king of Connecticut, speak quite highly of it a few years ago; but I don't like it, from it. For a late berry I have the Gandy. It has not proved much of a plant-maker for me, but the berry is large and good, and at this writing only the
very first of the berries begin to ripen. It will give us strawberries for the Fourth of July. In the Granville, a new variety from Ohio. we have another very late one, although a triffe earlier than Gandy, and it gives a fairly good quantity of very dark-colored, very
firm, good-sized berries that have something of the firm, good-sized berries that have something of the
flavor of the wild fruit about them. This berry resembles our old, now discarded Long John in color, and is darker than any other that I know of. It seems to be somewhat weak in plant. however, and may need from the same originator, has the same "wild" flavor, is better in plant. nearly as late, of large size, but not as highly colored. None of the one-dollar-a-plant sorts (Pan-American and Wild Wonder) are as yet making any very remarkable showing.

## Fruit-Growing by S. b. GREEN

## MAKING GRAPE-JUICE

FOR general family purposes I think the best way
of making grape-juice is to crush the grapes of making grape--uice is to crush the grapes, Allow them to cool, then bring them to the boiling-point again, and strain at once into self-sealing one will get best results by bringing the juice in the
bottles to one hundred and fifty degrees, allow to cool, then again bring it up to one hundred and fifty degrees, and seal at once. Then bring the juice in the bottles to this temperature again.
My wife puts up her grape-juice by bringing it once to the boiling-point, and holding it the re without heavy boiling for perhaps five minutes, and then canning in self-sealing jars which have been thoroughly sterilized by boiling. In all our experience we have seldom had aver, I am disposed to think that a little of the best quality of the juice is lost by bringing it to so high a the ordinary canners' method.

Pears for Tennessef.-M. E. S., Niota, Tenn. Probably the best pears for growing in Tennessee are
Keiffer, Le Conte and Garber. I do not know of any Karifer, that does especially well in your section.

Trimiming Cuthbert Raspberries.-C. F. L., Yankeeburg, Ohio. The Cuthbert raspberries are practi-
cally thornless. The only trimming they need is in the spring, when they should be cut back about one fourth of their length. There seems to be no special advantage gained by summer pinching. Generally they
should be thinned out to about four canes to the hill.
N. Buncires on Apple Twigs.-J. W. T., Ticonderoga, sent, and my opinion is that the over thinal buds of the twigs have been stung by some insect, and were thus this, but have never known. it to last more than a year
or two. I do not think this will cause any weakness in the trees, and I think they will soon outgrow it
Plum-pocket.-M. IV. S.. Palm, S. D. The trouble with your plums is that the fruit is affected with what
is known as plum-pocket soon after the flowers fall is known as plum-pocket sonn after the flowers fall,
and this causes them to puff up in the peculiar way and this causes them to puff up in the peculiar way
which you describe. Your treatmentr of them I think is fairly good, although it seems to me very likely that
the cottonwood-trees are so near them that they must the cottonwood-trees are so near them that they must
take out too much of the moisture which should go to the plums. This risease. which is caused by a fungus can be prevented, or at least greatly decreased, by spraying the trees thoroughly with Bordeaux mixture
early in the spring, at least two weeks before the buds expand. This has not been widely tried in your sec to show that this disease can be almost entirely prevented by employing this treatment.
The Brunette Stranberry-Time to Transplant
Fruit-trees.-S. C., Spring City, Tenn. I think the Brunette has perhaps the pleasantest flavor of any o the strawberries, although it is not the most productive. In your section the best time for setting them out would probably be in the autumn, soon after the autumn rains have begun.-The best time of year for transplanting cherry, plum and $p$
the spring, before growth starts.

Planting Prune-seeds.-R. B. C., Middleport Ohio. If you plant the seeds of the common prunes you will get plums or prunes of some value, but you must not expect them to be nearly as good as the kinds that you buy. However, if you wish to, you could take these seedlings and bud or graft them, and vated fruits come true from seed, the only exceptions being in the case of some of the peaches, which come very nearly true from seed. Probably the best plum for planting in southern Ohio is the Abundance.
Treatment for Cherry-pits.-A. R. S., Paducal,
Ky. I have seldom had trouble in managing Mahaleb Ky. I have seldom had trouble in managing Ma haleb dry in autumn, and were mixed with sand and kept
outdoors all winter. My plan is to mix the seeds with sand in boxes, as soon as gathered, and allow them to stand on the surface of the ground all winter. As soon as warm weather comes in the spring I stis, until thom the bottom every day, or at ien I sow them, in good rich loam. I am well acquainted with the Mahaleb cherry, and it is best for general nursery use, as it is healthier than the Mazzard.

Big Tree of California.-J. R. M., Bloomingdale
Ohio. The big tree of California reproduces itsel with difficulty from seed, and small seedlings ar seldom found. However, it is possible to grow it burn, 36 Cortlandt Street, New York City, the price of which is seventy cents an ounce. The Sequoia sempevirens is smaller than that mentioned above, and much more common in California than the redwood from seed, and is the best one to prow in nurseries. have seen good specimens of this in England, where it does best in sheltered places near the sea-coast.

Peach-curl on Plum.-R. H. L. J., St. Paul, Minn The twisted and swollen plum leaves and twigs sent are infested with what is known as peach-leaf curl, which is botanically the same as plum-pocket, it being caused never same fungus plums, and the only way that I can account for it is that you have had a phenomenally moist year, and the trees have made a very succulent growth. The best
work on the subject of this disease has been done by work on the subject of this disease has been done by
Prof. Newton B. Pierce, of Santa Anna, Cal., and it has been clearly shown by him that spraying the with Bordeanx mixture is the most successful treatment. I know of no remedy that you can use this mear, and think the disease will trouble you very little yore this season. It is this disease that commonly affects peach-trees in some sections, causing the leave to fall off, thus entailing serious injury to orchards.

Planting Arbor-vite Seed-Amour Barberry The seed of arbor-vita should be planted either in the autumn or in the early spring, in retentive, sandy soil in a location where it will have a good circulation of air. After the seedlings have come up, the ground between them should be covered with about one fourth
of an inch of dry sand. The whole should then be of an inch of dry sand. The whole should then be
shaded with laths or a brush-screen at least three feet above the bed, sufficient to keep off about half the sunlight and make a play of light and shade over the bed shrub Amour barberry is very hardy. and a goo shrub. I think. however, that it would hardly give For shade in a hog-pasture I am inclined to think that you will find nothing better than the Russian mulberry of the care may be necessary to protect the trunks They trees from having the bark ture is short.-The red cedar is undoubtedly the hardiest evergreen that you can gro

Injured Vines-Pears in Sod-Pear Variety.-
W. L., West Cliazy, N. Y. If your vines have killed J. W. L., West Cliazy, N. Y. If your vines have killed
back severely, but are sprouting vigorously from near back severely, but are sprouting vigorously from near select some good strong sprout, and remove all others, and let this make the future vine. If there are no ing from near the root, and the vine bad shape, it would be a good plan to saw it off at the produce sprouts, one of which may be selected to form the future vine. It is not a good plan to do severe pruning on grapes in midsummer or later, and you had better let the vines remain as they are until next spring, and then treat as directed. I do not know why root-killed in winter.-Pear-trees generally do best when cultivated, but if the land is very rich they are more liable to blight when cultivated than when left sod-that is, in most sections. If your trees are mak-
ing a good growth, and are fairly satisfactory in sod, I ing a good growth, and are fairly satisfactory in sod,
should not disturb them. On the other hand, if they should not disturb them. On the other hand, if then I would break up the sod and give them a small amount refer, be if your will send not know to what pear youmen when ripe think I can probably identify it for you. The variety described by you as having a bright golden-yell
is not Winter Nelis, as this has a russeted skin

Dvery warm ive poultry should be shipped is in most cases
much too great, as the lack of good care, want of water, exhaustion and consequent shrinkage, and the freights, commission and loss from the lack of condition in the fowls at the time they are sold com pel returns from the merchant that ar PURE WATER
Unless the water is changed daily and kept very clean it will occasion disease If a bird has the roup, or even a sever cold, the discharges from the nostrils will contaminate the water, and disease will
be the result. A sick bird should alway be the result. A sick bird should always
be removed, but there are occasions be removed, but there are occasions be known, and for that reason the wate should be changed once a day, or oftener acid in the drinking-water will greatly assist in keeping it pure

## COCKERELS AND SPACE

It is a waste of time and food to keep ockerels that are not desired. Where are hatched every year, one male is sufficient. Many persons who keep an account with their flocks complain that the hens do not pay, when in fact the laying hens are not only paying, but also supporting a flock of drones. The object in reducing the flock is not so much to save food as to secure more room in the poultry-house. It is in occupying space profitable fowls do the most injury.

## late chicks

July is considered late for the hatching of chicks, but they do not come into market until November, when they can be prices last year being fifteen cents a pound. At such prices the chicks will be profitable, as the food should not cost over fifteen cents for a three-pound chick, while the eggs for hatching and the labor required are not so great as in winter, provided lice do not attack them -but lice do not belong in a well-regulated poultry-house. If one is deterlet lice get a foothold either in winter or let lice get a foothold either in winter or allowing the hens to hatch out a brood allowing the hens to hatch out a brood,
which is that they get rid of the surplus fat, and come into better condition for laying in the fall. But there is always a good price for three-pound chicks, even when old hens are a drug on the market and there is no reason why the poultryman should not take advantage of the warm weather and, raise all the chickens

## Poultry-Raising <br> By P. H. JACOBS

enous materials result, for which reason the feeding of grain should be moderate only, the diet being reinforced with the exact quantity required, as each individual will have its special requirements, but the point should be to not feed too much, especially as the temperature becomes warmer. Sitting hens will come off the nests reduced in flesh, as they will eat but little while incubating, and it may be added that there is nothing better for sit and raise a brood of chicks.

## SUBURBAN FLOCKS

No one can easily estimate the number fowls raised in cities, towns and villages. The value is millions of dollars. young, even cumstances: will find a profit and pleasure in keeping poultry. A few hens will soon fill the egg-basket, and with the aid of the scraps from the table and a small allowance of extra feed, will keep up the supply until molting-time in the fall. Whare the space is limited, the chicks
should be used in the family or marketed when young, but the earlier hatched pullets should be kept to fill vacancies mong the hens. The hens are profit sionally there are exceptions. Young sionally there are exceptions. Young

## BEGINNERS W:TH POULTRY

Beginners should never buy their hens rom any and all sources. Select from a breed for the kind of fowls desired. This may entail a year's loss of time, but it will be less expensive than expending a large sum for hens only to be compelled to destroy them, to say nothing of he labor involved in the eradication of lice and disease from the premises. The individuality of hens is too seldom con sidered. Poultrymen look to the breeds the flocks and the broods as though locks were uniform, and expect all to be qually thrifty. When poultrymen mak ing from the others, realize that some are valuable while others are not and persistently destroy the weaker, the dam age and loss will prove but a very small item compared with the great gain and profit, and the saving of expense in favor
of the strong, vigorous and hardy birds.

## EGGS AND EGG-MAKING

The first eggs of the brown-egg layers are generally of a good color, but as the the amount of color, owing to the fact

The hen that is laying needs more han she would need if not laying. any other machine, she must be furnishe the material from which to manufactur her finished product.

Where market-eggs are the object, it bettcr to have the birds of some purel distinct breed, so that the eggs may be as uniform in color and size as possible
Keep the, laying hens busy in scratch Keep the, laying hens busy in scratch ing a good part or more and lay more. Feed them plenty of ground green bone, broken shells, grit contain the elements needed by the laying hens.
The civilized hen needs more lime than she is likely to get in her food. The hen that used to roam the wilds and lay eggs for a single brood of chicks each year put upon lime. But now we have one hundred eggs a year, and for the shells for that number of eggs a considerable quantity of lime is required.

Fertile eggs, with strong, vigorous germs, can be obtained only from healthy
stock well cared for. Fowls require plenstock well cared for. Fowls require plenty of exercise, sanitary quarters and clean food, with pure water, some grit, vegDespite the various theories and meth ds suggested, no one has yet been able to know exactly which egg will hatch and which will fail until after a certain period of incubation; and as to discerning the sex of the prospective chick, it is an impossibility.-American Cultivator.

## SPADING THE YARDS

Frequent rains and excessive heat will cause the yards to be in a very unhealthy condition unless the surface-soil is either spaded or turned under in some manner especially on heavy clay locations.
spading is too laborious, then the yard may be benefited by sprinkling them may be benefited by sprinkling them stone, dissolving one pound of the mineral in two gallons of water, and sprinkling through the rose of an ordinary watering-pot. A few spoonfuls of also be found of advantage

## NOUIRIES ANSWERED

Swollen Eyes.-A. C., Accotink, Va. desires to know "the cause of the eyes fowl is apparently well." The cause is probably due to a draft of air on the hen from some source above her while on the nest.

Loss of Goslings.- L. L. M., Toron of goslings just feathering which a flock of goslings just feathering which lose the
use of their legs. He feeds cracked corn,


THE LEGHORN-HOUSE AT THE MARYLAND AGRICULTURAL COLLEGE
possible. They may not sell for a very that the pigment which provides the in proportion to the capital and labor will have been invested; while the hens will be all the better for having been
given the privilege of hatching broods.

HEAT-PRODUCING FOODS IN SUMMER As the weather becomes warmer, the hens will naturally begin to lay, and will produce more eggs than during the cold
season, which fact shows that warm weather conduces to laying as much as does the food; but the demand of the crease, for heat-producing foods will decrease, and a greater desire for nitrog-
that pigment which provides the There are hens in every flock that do not lay enough eggs to pay for their board. There are individual hens in these same flocks that do the bulk of the aying. Economy comes in by breeding rom the heavy layers and getting rid o the inferior stock. to sustain life and produce an egg. If the hen does not get it, the egg-basket uffers. You cannot steal
without paying the penalty.
Better the story of the man who ha ucceeded with a dozen fowls than the
wheat,, soft bread, and they get plenty o grass. It is probable that the inquirer goslings will become very fat. Damp quarters will also cause the difficulty. Breaking a Sitting Hen.-J. L. I
Reading, Pa., asks "how to break a ter from inctibation." There are many methods, but the best and most humane (lath bottom, also) and confine the hen therein. If she sits, she will feel the cold
air under her (as the coop should not rest on the ground), and if she cannot create heat under her body she will aban don the nest.

18
This Is Another



## SUPERIOR

ous farmers in all sections of the world. Ther do the work of seeding just right-never clog in rash. They successfully sow and cover the seed in any field where a disc harrow will run. A man a boy can seed one-fourth to one-half mor Seeding Machines are made solid andistrone of the best materials. They are light draft. No nect eight. Easy on man and team. Our new Cat-
logue No. 17 is frez. Write for it today
SUPERIOR DIVISION,
AMERICAN SEEDING MACHINECO.
SPRINGFIELD, OHIO

## A Wagon's Worth <br>  <br> iife. The life depend apon the wheel. You get every convend ence or the Modorn Low Handy <br> ELEGTRIC Metal Wheels <br> For a fum dollars you tura your

 buy for a song, Into a new wagon. Stralght or stag-gered oval stel spoke. The stoutest wheel you can
buy
 Electric Wheel Company., Box is Quincy, IIIInols.

## S5 A DAY <br>  ervingCompound. Pre- $\$ 2$ package preserve ton of fresh pork, heef, miston, veal, etc. inde finitely, in the hottest weather, in all cliates. Much cheaper than salt, ice or any or all other preservatives. Requires no labor to apply. Guaranteed absoutely. harmless. Its use cannot be detected by sight, smell or taste. Money   SWAN CHEMICAL COMPANY






DON'T BE HUMBUGGED
The Superior Cream Extractor
 PEROOR FENCE MACIINE CO. GOODWIN'S FLY KILLER


## BUGGIES

100 OHIO FARMS FOR SALE

| Live Stock and Dairy |
| :--- | :--- |

the Cow that eats her head off
HERE are a good many things about
farm life that are not profitable.
One of them is keeping a cow that

## V. L.. of Vernon, Ala., writes: "I am thinking of going into the cattle busi- ness, and need some advice. I live in <br>  <br> $$
\begin{aligned} & \text { to doubt and our correspondent should } \\ & \text { not seek to establish what may be } \\ & \text { plague to him without further investiga- } \\ & \text { tion among his neighbors. } \end{aligned}
$$

$$
\begin{aligned}
& \text { I cannot recommend anything more } \\
& \text { highly for hay in Alabama than cow- } \\
& \text { peas, which, green or dry, make one of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { peas, which, green or dry, make one of } \\
& \text { the most valuable feeds for cows or any } \\
& \text { trind mof tival }
\end{aligned}
$$

$$
\begin{aligned}
& \text { kind of live stock, and are wonderful im- } \\
& \text { provers of the soil. The Southe prac- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "provers of the soil. The Southern prac } \\
& \text { tice of growing this crop and plowing, } \\
& \text { "scratching," it under is wasteful, as }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "scratching," it under is wasteful, as a } \\
& \text { lot of feed is lost that should be fed to } \\
& \text { profitable animals and the manure re }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Dot of tee is iost that should be red } \\
& \text { profitable animals and the manure re } \\
& \text { turned to the soil to make more pea }
\end{aligned}
$$

$$
\begin{aligned}
& \text { turnow to the soil to make more peas } \\
& \text { grow. I have seen much aluable land in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { grow. I have seen much valuable land in } \\
& \text { the South wasting fearfully by being al- } \\
& \text { lowed to lie bare all winter. If this cor- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { lowed to bare and winter. } \text { It this cor } \\
& \text { respondent will make hay of his cow-peas } \\
& \text { and as soon as they are harvested wil }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and as as they are harvested } \\
& \text { fine the soil two or three inches deep, } \\
& \text { and sow crimson clover and orchard- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { niteen pounds of the latter to the acre- } \\
& \text { I think he can cut some fine hay next } \\
& \text { spring. Do this on a small area. ex- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { spring. Do this on a small area, ex } \\
& \text { perimentally. On the balance of the } \\
& \text { land sove two }
\end{aligned}
$$

$$
\begin{aligned}
& \text { land sow two bushels of rye to the acre, } \\
& \text { and have fine pasturage all winter. Both } \\
& \text { these crops will also stop the everlasting }
\end{aligned}
$$

$$
\begin{aligned}
& \text { these crops will also stop the everlasting } \\
& \text { loss of soil by winter rains. Atter the } \\
& \text { winter nacturino of the rye hy oivino it }
\end{aligned}
$$

$$
\begin{aligned}
& \text { winter pasturing of the rye, by giving it } \\
& \text { a chance in the spring a good crop of } \\
& \text { hay may be cut as the rye blooms. When } \\
& \text { cut for hay neither of these crovs will }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cut for hay neither of these crops will } \\
& \text { interfere with the plowing of the land for } \\
& \text { any of the summer crops. } \\
& \text { any }
\end{aligned}
$$

$$
\begin{aligned}
& \text { As to the best breed of cows for milk } \\
& \text { and butter. V. L. has already made a } \\
& \text { wice }
\end{aligned}
$$

$$
\begin{aligned}
& \text { wise choice. There may be others as } \\
& \text { good; there are none better, and many } \\
& \text { not so cood. The grades should he }
\end{aligned}
$$

$$
\begin{aligned}
& \text { good there are none better, and and many } \\
& \text { not so good. The grades should be } \\
& \text { ntimulated to their best by abundant and } \\
& \text { wise feeding. The standard of the herd }
\end{aligned}
$$

$$
\begin{aligned}
& \text { wise feeding. The standard of the herd } \\
& \text { should be raised by breeding with a pure- } \\
& \text { blood bull }
\end{aligned}
$$

$$
\begin{aligned}
& \text { bood bull - not one with merely the } \\
& \text { Jersey color. but one with a good, pure } \\
& \text { pedigree behind him. He should be from }
\end{aligned}
$$

$$
\begin{aligned}
& \text { pedigree behind him. He should be from } \\
& \text { a good sire and dam. and be well fed and } \\
& \text { cared for. }
\end{aligned}
$$

INTESTINAL PARASITES OF SHEEP

$$
\begin{aligned}
& \text { In the course of a month we will have } \\
& \text { the usual complaints of parasites in } \\
& \text { sheep, particularly the stomach-worm }
\end{aligned}
$$


afraid to let hogs get any salt. as they
thought it would kill them. I have a
salt-trough for my hogs, and I find that summer and winter, dust, snow or mud
all paths lead to that trough. I am never
afraid of giving them too
$\qquad$

Margaret K. I an

Railey.



## BEST PAY

To agents, either sex.
Work easy and extra
profitable. Send for
terms and Free outfit.
HEAVES CAN BE CURED

## ABORTION Retention of Placenta

## SOUTHERN FARMS Writ of thy freo



## Wanted Club-Raisers

We want men and women, boys and girls, at every postoffice in the United States and Canada to get up clubs to Farm and Fireside, the great farm and home paper. We have a fine line of premiums that we are offering for this kind of work.

## Biggest Cash Commissions

FARM AND FIRESIDE SPRINGFIELD, OHIO

## Live Stock and Dairy

## DEVON CATTLE

AGood deal is being said these days tle, but I see little about the Devon. I suppose it is because the Devon man and care to
favorites.
This reminds me of the silent duck that had faithfully stuck to business durlarge eggs, and then complained that she was not appreciated.
See that hen over there?" said the duck. "She hasn't laid so many eggs as
I have, nor so big, but she has books I have, nor so big, but she has books
written about her, and verses composed written about her, and verses composed
in her honor, while no one is saying a in her honor, whine no one is saying a
word about me." Buff Leghorn cock that was standing Buff Leghorn cock that was stanchic
near: "is that you don't tell the public what you liave done. You lay an egg, and waddle off withoitt saying a word, while that sister of mine never lays an egg without letting everybody in the neighSo
So with the Devon. She is meekly do ing her duty, and making as much milk, butter and beef as any other breed, but sle has not made noise enough about it. The Devon is one of the oldest breeds ported, no doubt, along with the Pilgrim ported, no doubt. along with the Pilgrim fathers. There are not very many of them in the Central wist, but from Inthey are growing much in favor in all sections.
For the ranchman of the plains the hardy, and will live on short pastures and short feed. When put on the same feed and given the same care, they will produce as much beef to the bushel o feed consumed as any other breed. I
make this statement without fear of conmake this statement without fear of con-
tradiction, knowing from experience and tradiction, knowing trom expo have tried them with other breeds that they are the equal of other breeds in all respects.
While I do not claim they are th
ranch, and I find they will last two or three years longer on the range than They have proved to be the best breeders, have a good calf every year, and the steers are good ones. This is a short-
grass country, and we want cattle that can get a move on themselves.
A California ranchman who has over one hundred Devons on his ranch says, "This is a dry country, and we find the Devons do better than any other breed where they have to go a long distance to
water. Our bulls find ready sale all over water. Our bulls find ready sale all over
the coast. The Devons are not only an the coast. The Devons are not only an
excellent beef-breed, but are also great excellent
milkers."
For beef the Devon is second to none The steers grow large-two-year-olds weigh from sixteen hundred to seventeen
hundred pounds when well cared for Bulls weigh from seventeen hundred to twenty-one hundred pounds, cows fron nine hundred to fourteen hundred the Devon is the farmer's cow, or threepurpose breed-beef. milk and butter. T might give more proofs of their
merits, but think the above is sufficient merits, but think the above is sufficien
to show that the Devons are worthy of a to show that the Devons are worthy of
piace among the best. L. P. Sisson.

## COW-CATCHERS

The wisest builder of a good pedigree is a good feeder, for if all animal in with an inclination and capacity for plenty of feed, a red-lettered pedigree will not of feed, a rod-letered pedib.
save her from being a scrub.
They say that the cow's olfactories are about ten times as acute as those of man If this is true, the necessity of keeping
the feeding-trougl1, the drinking-vessel the feeding-trougl, the drinking-vessel
and all the surroundings of the cow clean and all the surroundings
becomes very apparent.
Any feed left in the trough becomes to eat it either because she had eaten enough, or because it was not good, or for some other cause. Its remaining there

a typical devon cow
heaviest milkers, I do claim that they calving. In one week Lady Alice Sizo gave 347 pounds of milk testing 4 per
cent butter-fat, equivalent to i6.19 pounds of butter. For thirty-one days she gave 1470.5 pounds of milk equal to 68.6 pounds of butter. A herd of twelve three to six months three from nine to eleven months, and two of which are now fresh, made is pounds of butter a day At a test of Jerseys, Alderneys an Devons held at Worcester, Mass, the Devons were second in the list, being only 6 of an ounce below the highest. creased her flow of milk from 37 pounds to 53 pounds a day.
At a milk test at an Indiana county fair four Jerseys were pitted against four Devons, with the following result: The Jerseys tested $5.8,6.4,6.6$ and 7.2 6.8 and 8 per cent butter- Devons 6.4, 6.6, vania breeder who takes his milk to the creamery with Jerseys, Holsteins and other breeds says, "My Devons test as high as, and often higher than, the others, and I get more milk from my herd than the others, and on less feed. A South Dakota man writes as fol-
lows: "I have a few Devon cows on my
to be breathed upon and grow more stale is not calculated to stimulate her desire for the next feed, while to toss the next feed in on the old is not a saving of the old, but a loss of the best of the new.
The cow should come to each feed with a gustatory keenness that insure good digestion, and the dainty cow likes clean dishes. The mangers should be cleaned out after the last feed, not just
before the next one.

The water for the cows should be abundant and pure. Pure water in un limited quantities is essential for the
health of the cow. By it comes bodily purification. With unclean or contam inated water the purification cannot be complete. Water is necessary also fo the best digestion of food, and without all the water she needs the co food. Milk is aboter is not essential food. Milk is about eighty-five per cent milk is very much more than eighty-five mer cent water," but that is not the fault per cent water, but that is not the fault
of the cow or the pasture. When the cow has insufficient water she does not make milk with less water in it, so that an artificial addition by the milkman
necessary; she simply makes less milk. necessary; she simply makes less milk.

## The Western College for Women <br> OXFORD, OHIO

Delightful location in the beautiful Miami Valley of southwestern Ohio, one hour from Cincinnati, on Monon and Vandalia Express routes. Full classical courses and many electives. Superior advantages in Art, Piano, Voice and Violin. Campus of sixty-five acres. Special attention to physical culture. Forty-ninth year begins Sept. 9, 1903. Number limited to 200.


## The Western College offers

1. A four-years' Classical course for the B.A. degree. S. A healthful location, a beautiful campus, comA three-years' Literary course for a Diploma. modious buildings, scientific physical training.
with golf, lawn-tennis and basket-ball for A standard equal to that of the best colleges. out-of-door exercise.

## wide range of elective studies.

Terms, $\$ 300.00$ a year, with an extra charge of $\$ 90.00$ for private lessons in music and art. LEILA S. MCIKEE, Ph.D., President

## Remington

Single and double barrel shot guns will appeal
to you on account of their moderate price. 'THEY STAND THE RACKET.'

## Ask your dealer or send for catalog which gives comple

## REMINGTON ARMS CO.

313 Broadway, N. Y. Factory : Hion, N. Y. San Francisco, Cal.
The Agricultural Drain Tile


## This Watch FREE

 MOVEMENT Regular sixten-size. and only three

 THE CUAR wath guaranteed oy the maker. THE GUARANTEE $\begin{aligned} & \text { In every watch will be } \\ & \text { found } a \text { printed } \\ & \text { guar- }\end{aligned}$
 ceatst or postage, repair it free of charge, and


## BOYS

Do you want. to get this watch?
$\qquad$


 in America. We will also send a sample copy of the paper, so you can judge of its merit for yourself. You sell these receipts to your friends and neighbors an the money to us, and we will send you the watch. Hundreds have earned watches by our plan,
and you can do it in one day's time. Write to-day. Be sure to ask for a book of six coupons.

Address FARM AND FIRESIDE, Dept. N, Springfield, Ohio

## FAMILY DIAL=SCALE

 A perfect, practical, durable, accurate dial-scale. A scale without weights. Neverthe worry and bother of hunting for a mislaid weight. Ready instantly to weigh
provisions, groceries, or anything about your house. It is constructed entirely of


## your house. It is constructed entirely of steel, with enameled dial. It weighs by

 ounces up to twenty-four pounds. It isperfectly simple in construction, nothing
to get out of order. By means of a simple perfectly simple in construction, nothing
to get out of order. By means of a simple
thumb-screv the scale is kept absolutely accurate, even in extremely hot or ex-
tremely cold weather. Whether you buy
or sell it is indispensabl tremely cold weather. Whether you buy
or sell it indispensable-a reliable, ever-
ready friend that you ought not to be paid by receiver. shipping weight about
eight pounds. Order as No. 486 .
We will send this Dial-Scale FREE for sending SIX yearly subscriptions, new
renewal, to the Farm and Fireside; or renewal, to the Farm and Fireside; or We will send the Farm and Fireside one year, new or renewal, and this \$1.25
Family Dial-Scale for only . $\$ 1.25$
 FARM AND FIRESIDE, Springfield, Ohio

## \$2.50 WORTH FULL-SIZE SHEET-MUSIC FREE

Every piece of this music is full size, printed on regular sheet-music paper
new plates. The printing is clear and up to the highest standard. The from new plates. The printing is clear and up to the highest standard. The title-pages are printed in colors. In a word, the quality of this music is the very
best, the same as sells in music-stores for so cents each. All of the most famous best, the same as sells in music-stores for 50 cents each. All of the most famous
composers are represented in this collection. Whether you want gay music or sad, modern or the good old-fashioned kind, you will find the very best of every kind offered here. Look at the list of song-writers. Household names are
there; the names of great masters of music who have won immortality by their writings.

SELECT ANY SIX PIECES FROM THE ACCOMPANYING LIST. ORDER AS NUMBERED. VOICE AND PIANO OR ORGAN

Your Choice of ANY SIX Selections | sEE OFFERS |
| :---: |
| EELOW |



## GREAT OFFERS

1 We will send your choice of ANY SIX of the above Pieces FREE, postage paid by us, for sending only TWO yearly subscriptions to the Farm and Fireside. Or
2 We will send the Farm and Fireside One Year and ANY 2 SIX of these Pieces for only 60 Cents.

Address FARM AND FIRESIDE, Springfield, Ohio

## PERFECT EGG-SEPARATOR



This cut represent our new patent egg-
separator. It separates the white from the yolk o satisfactory and absolutely not
leaving a particle leaving a particle
of the white and yolk together. It
is one of the few in-
dispensable house-
sought after by every housewife. The separation of the egg is instantaneous
and absolutely complete. Order as No. 827 .
We will send the Perfect Egg=Separator, and
40 cents
Or given for sending ONE new yearly subscription (not your own nor any member of your family) to the Farm and Fireside
Address FARM AND FIRESIDE, SPRINGFIELD, OHIO

The Grange
By MRS. MARY E. LEE

GRANGE FIELD-MEETINGS, OR PICNICS

THEse meetings afford rare oppo tunity for the dissemination of grange-principles. Those having should spare no effort to make them as valuable to the order and the public as possible. The meetings should promote social and fraternal greetings, and extend with all the good people in a radius of twenty or twenty-five miles of each meeting. To secure large attendance and the best people, system must be employed. having the meeting in charge should appoint active and energetic committees on program, on arrangements and grounds, on music, on advertising. invitation and printing, on reception. Every detail of the meeting should be thought out, and provision made to make the meeting
pleasing, entertaining, enjoyable and profitable to all who may attend.
If the committee on invitation should have printed a circular-letter cordially dressed and their families to attend, and mail or deliver to every family whom you would like to be present, it would add largely to the attendance.
largely to the attendance.
Large supplies of grange-literature should be judiciously distributed with the This will afford members an opportunity to inquire after the meeting as to the impressions made by the literature or at the meeting, and secure a good many applications. Patrons of Husbandry should remember that when those not members of the order are favorably impressed with its objects, purposes and work, it is a good time to secure their active coöperation and membership. and after the meetings to advertise the meetings and secure a large attendance, and to review the incidents and arguments presented of the benefit of the grange to its members and the public generally. In many parts of our country tage in popularizing the grange. The grange press has been and is doing much ports of the thousands of field-meetings to be held during the coming summer, thus keeping the membership advised of the activity and effort throughout the entire country to educate the people to the
necessity of 'farmers' organization to the necessity of 'farmers' organization to the advancement of the cause of agriculture and good citizenship. Members of the
grange have not fully realized in the past grange have not fully realized in the past
how much our order is indebted to the grange press and to the local press of the grange press and to the local press of the
country for the promulgation of grangeprinciples and the advancement of the principles of our fraternity. Our members should not only contribute interesting articles for their columns, but should subscribe for them and be active in ex-
tending their circulation, that they may be of greater service to our order and have greater influence in educating and molding public thought in the interest of the common people of the country. Now that free rural-mail delivery is so general,
farmers ought to have a grange-paper come to them each day, chronicling all grange-news and market reports, wit
synopsis of the news of the world. "Patrons, permit me to remind you, "Whatever we do, strive to do it well." Make your field-meetings this keeping in mind our motto, "In essenall things, charity." Fraternally,

Master National Gra
ITINERARY OF NATIONAL MASTER JONES Aaron Jones, Master of the National Grange, has accepted invitations to address meetings arranged by the Masters
of the respective state granges as folof the respective state granges as fol-
lows: Kentucky, July 15th, I6th, 17th lows: Kentucky, July 15th, I6th, 17th 23d, 24th and 25th; West Virginia, July 29th, 30th, 3ist and August ist; MassNew Hampshire, August I3th, I4th and
I5th: New York. August 17th, i8th, 19th 15th; New York. August 17th, 18th, 19th
and 20th; Indiana, August 24th, 25th, 26th, 27th, 28th, 29th and 3rst; Ohio

ADDRESS OF NATIONAL MASTER JONES Patrons and othèrs desiring to write
to National Master Jones can save time by addressing him as follows: July I4th W. K. Thompson, Master South Carolina State Grange; July 18th to 28th,
Morgantown, W. Va., care of Hon. T. C.

## Atkeson, Master West Virginia State Grange; July 28 th to August 2 d , SturGrange; July 28 th to August 2 d , Stur- bridge, Mas., care of Hon. Geo. S. Ladd, Master Massachusetts State Grange; August 2d to 8th, Concord, N. H., care of Governor Bachelder, Master New Hampshire State Grange; August E. B. Norris, Master New York State

## WING'S CREED

Here are three articles of J. E. Wing' Creed. We are indebted to the "Breed is no intelligent flem. Of course there needs to be told who Wing is. His creed fits well with that of the grange:
believe in maintaining the fertility steadily put in the land, and in adding imal-manures
blood, believe in salvation through "We believe in the eternal damnation of those who waste the land damnation scrubs, and try , to starve dollars out of acres and cows.

> THE OBSERVATORY He fliveth best who loveth best All things, both great and small For the good God who loveth us, He made and loveth all.

## Convert "I want to do" done."

Chronic discontent is chronic weakness
Keep things moving.
Even a quarre will die if not stirred up.

You can measure a man's soul by the
ay he fences the road. he fences the road.
And now for a device to "ring off" the time-killer on a telephone line
Education, coöperation, moral and spiritual development, are the high aims
of the grange.

Clean up thine own back yard, and then canst thou see clearly to clean the yard of thy neighbor.
Pray for the success of the grange, to your prayer to pass.

When every farmer makes this his mot to', "Sell for cash, and pay c
financial well-being is assured.

Before blaming others for accomplish ing little, see if you have exhausted your
Idle desires, half-uttered longings, ac complish no results. Persistent, wisely
directed labor alone fights life's battles.
What the world needs, not to-day only but all days, is men who seek tru
Truth's sake, and fight her battles.

The "Monroe Doctrine," "Friendship for all, entangling alliances with none," is wise for the grange as well as for the
Union. Many other corporations besides the a drought with benefit to themselves and the public.
Put your faith into words and deeds. It needs only patient, persistent, tactful, wise endeavor to bring to pass all the things you desire. You may not see rewards each according to the labor he performs.
She who "trades out" butter and eggs at the country store is likely to trade her her son out of a college education, and herself out of coveted pictures, books and magazines. Of course, if she is of the goody-good type, she can view the obhome with complacency.

Lowell could never have sweltered over hot stove, or followed a row of corn in the blazing sun, else he could not have written that gem, "Better give it permanent lodging in your mind, and be thankful the beautiful "Vision of Si
CORRECTING THE AC.
COUNT OF AN AD.
MINISTRATOR
J. M. R., Ohio,
asks: "A final ac-
count of an admin-
istrator passed in
court. Afterward
he finds that he has
omitted an item.
$\qquad$

Yes, the account could be corrected, matter is not. so clear. If there is no court of common pleas for its correction.

## EXEMPTIONS

E. S., Ohio, asks: "What is allowed a widow at law-a farmer's widow, I presume the inquirer wishes to know to what exemptions she is entitled. She housand dollars in value, or five hundred dollars in lieu of a homestead.

CONTRACT FOR SALE OF REAL.ESTATE W. B., Ohio, writes: "What is the law in regard to $A$. selling his farm to $B$. making an article signed by himself and and his wife will not sign the deed, will the court make a deed for B., or can B. get damages?"
and force $A$. and his wife to execute a deed. B. might likewise elect not to take

## CONSTRUCTION OF WILL

D. E. J., New York, inquires: "If a personal estate, at her death to be divided equally among his children, can they sell the real estate during her lifetime?"
the real estate during her lifetime?
The answer to the above quest would depend somewhat upon the fact whether or not the fee or title to the trustee. If in the children, they could sell. The person to whom they sold could

## SAWING TIMBER

J. F., Ohio, writes: "If a farmer hires a sawmill to come on his land to saw sume lumber for him, paying a certain the owner of the sawmill claim any of the slabs or any offall other than what he uses for fuel? Can he claim the wood for fuel if not previously agreed upon?" the contrary; I should think that the slabs would belong to the farmer.
LIABILITY FOR DRIVING CATTLE ALONG UNINCLOSED HIGHWAYS
A subscriber, Ohio, makes this inquiry:
"Is a cattle-driver, in driving along the "Is a cattle-driver, in driving along the
public highway where there are no fences, liable for damages done to crops rences, hable for damages done to crops
when he loses control of his cattle and

## The Family Lawyer <br> y JUDGE WM. M. ROCKEL

Legal inquiries of general interest from our regular subscribers will be answered in this departinent
Querists desiring an immedlate answer by mail should remit one dollar, addressed free of charge. Querists desi
"Law Department," this ofice.
they get in the crops and destroy same? Is he liable to a trespass-fine for riding horse in the crops to get the cattle?
The cattle-driver is not liable if he ercises a reasonable degree of care
keeping the animals on the highway. is a proper use of the highway to
cattle over it; and if in spite
cise of reasonable care they go into a joining fields, the driver has the right, in

## ILLEGAL MARRIAGE

## E. P., Ohio, says: "Mr. A., aged

 twenty, and Miss B., aged seventeen, are married. He got the written consent ofhis parents, and she gave her age as eighteen. What can B.'s parents do?" would be legalized if A. and B. lived to gether as man and wife after she became eighteen years of age. Usually the person getting the marriage license is com-
pelled to swear to the facts, and if he swore that she was eighteen when she was not, he could be prosecuted for perjury

## PATENT FOR LAND

J. R., Pennsylvania, wishes to know how to find out whether a certain tract of land has been patented, and also how a husband could dispose of hife and children would have the full benefit of it, without an administra tor being appointed.
Write to the Land Commissioner at Washington, describe the land, and he will answer whether it is patented or not. The husband might make a will, giving all his property to his wife and children in any way he saw fit. This might not, however, prevent an administrator being
appointed if there were credits to collect.

## LINE FENCE

The subject of line fence is ever one of interest to the farmer. E. L., Ohio, makes this inquiry: "One party expects quite a strip of fence over rough ground quite a strip of fence over rough ground
and hills. We keep only cattle on that part of the farm, but no hogs. Will it be necessary for me to build my part of that fence proof against little pigs, to keep them from my corn-field? What
would be a lawful fence? If he puts in an anchor-post, can I fasten onto it without his consent? Can a man abandon a line fence if no stock is kept in fields?"
A fence that the law considers proper to be built on a line is such a one that will turn stock ordinarily put in another freme if your neighbor wishes to put pigs,
have to make you no statute on the subject. I see no rea son why you could not fasten onto hi anchor-post. The law would hardly re quire two posts to be put next to each Inder six-months' notice. PROPERTY

## Z. G., New York, propounds the fol

 lowing: "Does a note or a book accomnt become outlawed in six year if there has been nothing paid on it a bill of groceries, which A. puts up.B. says he cannot pay for them now, and B. says he cannot pay for them now, and
A. forbids him to take them from his counter. Has B. a right to take them? property until he has paid for it. The mere fact that A. put it up into a package held such a delivery of it as to deprive If B. would have taken the goods otit o the store, or out of A.'s
could have retained them.

## TAX-NOTES-CUTTING TIMBER

M. M. S., Ohio, puts the following quares for three years at wheep on they should be equally divided. Nothing was said of the taxes. B. gave them in to the assessor in A.'s name. Who
should pay the taxes? If A. paid them could he recover it from B. when the sheep are divided? On the day of her marriage, B. gives A., her husband, some money, taking a note for the amount Can she collect it, and how long will the note run before outlawed?-A. and B join farms, the line running through timber. A. cut trees which B. felt sure be-
longed to him. He objected, but A. paid no attention. On running the line it was found that the trees belonged to
B. What would be best for B. to do?" I should think the taxes ought to b borne equally by the parties. If A pays all of them, when the sheep are when the, sheep were delivered to under the contract set forth, they benote can be collected: It would run for fifteen years from the time it was due, or ment had been made thereon. a The best thing for B. to do would be to call on A. and demand payment for the tim and recover the value of the timber.

THE PREVENTION OF TYPHOID FEVER

## An instructive study of the ætiol

 ogy of typhoid feve is furnished ty fever$$
\begin{aligned}
& \text { A. Selbert, in the } \\
& \text { New Yórk "Med } \\
& \text { iral }
\end{aligned}
$$

ical Journal." He presents a series o charts which graphically show the influ-
ence of filtered and unfiltered water upon ence of altered and unfiltered water upon
the mortality of this disease. Especially the mortality of this disease. Especially
noteworthy is the chart received from the health department of Berlin.
From this we learn that from 1843 to 1853 one out of every nine hundred inhab1891, when a sand-filter had been installed and all the old wells banished, the deathrate from this disease has dropped to one in every fifty thousand. Similar results from the installation of filters were ob-
tained in Hamburg, Hanover and other German cities. In Chicago the othe dropped from one in every four hundred and fifty to one in every eight thousand the waterworks in Lake Michigan to greater distance from the main sewers.
In New York, Brooklyn and Boston. where the water is unfiltered, the deathrate averages one in every seven thou
sand to eight thousand. D gives the following results of his painstaking investigations: All rivers. brooks and lakes in the populated districts of the
United States and Germany are permanently infecterl with the typhoid bacillus The drinking-water of cities and towns is the chief carrier of typhoid germs. All cities and towns which take their drinksloould cleanse it by sand-filters at the waterworks.
Physicians
that the small, so-called filters which are that the small, so-called filters which are
screwed onto the faucets are useless as

## The Family Physician

By ROBERT B. HOUSE, M.D.
a preventive of germ-infection. Indeed, unless frequently cleaned they are pos-
itively dangerous. Boiling the water is a sure preventive of boiling the water is all the life and sparkle from the water and discourages its use as a beverage. A better way for those in large cities is to purchase one of the spring-waters sold by a reputable company. This costs less
than the price of one cigar a day, and than the price of one cigar a day, and tion. Milk, which is also a carrier of the typhoid bacillus, should be regularly insected by the boards of health, and bought only from those dealers who can
show a clean certificate. The solving of the sewage problem, furnishing of drinking-water, should stop the ravages of this dread disease. THE PRESERVATION OF THE TEETH OF CHILDREN

## Without good teeth there cannot be

 good mastication. Without thorough mastication there cannot be perfect digestion, and poor health results. Clean teeth do not decay. The importance ofa sound first set of teeth is equally as a sound first set of teeth is equally as
great to the child as a sound second set is to the adult. Children should be Food left on the teeth ferments, and the acid formed produces decay. Decay leads in time to pain and the total destruction of the tooth. The substance be impressed constantly upon all chilbe impressed constantly upon all chil-
dren: I. The teeth should be cleaned at

## used, brushing up usistes, should be

 and down and across, and inside and outside, and in between the teeth. 4, A simple precipitated chalk taken up on the brush may be used if the teeth are dirty o stained. 5 . It is a good practice to rinse rough usage of the teeth, such as crack ing nuts, biting thread, etc., should be avoided, but the proper use of the teeth in chewing is good for them. When decay occurs it should be attended to long before any pain results. It is stopping asmall cavity that is of the greatest ser small cavity that is of the greatest ser
vice. In ten thousand children's mouth examined, eighty-six out of every one hundred required skilled treatnient.
hands and the ravages of time Hands show the ravages of time mor tists attest the fact, and the hands of yond argument. Between the ages seventeen and eighteen the hand de velops into the maturity of beauty and
symmetry. Until almost thirty the hand symmetry. if subject to rigid care practically imperceptible change begins, and despit imperceptible change begins, and despite
constant attention, the beauty wanes The skin wrinkles and grows dry, the shrinking of the flesh displays the faults which the plumpness of youth had covered up. The fingers are no longer nim-
ble, and the mulucles begin to stiffen with
increasing age. brush, with stiff
bristles, should be increasing age. least once daily. The best time to clean the teeth is
after the last meal 3, A small tooth



Harrington \&
Dept. 21 , Whardson Arms C

THE LUCKY "4\&LEAF CLOVER"
 Pr is the CREAM of them all. Inner can quickiy remova-
ble; water all around and
under mailk; has far greater
cooling surfaee th a cooling surfaee than any
other. No water required
nonths in year. Special air nonths in year. Special air
chamber with ventilator.
New and original faucet impossible to to leak or sour.
Express charges prepaid.

Plymouth Cream Separator Company, Plymouth, Ohio.

## Live Young Men

If you have a team and wagon and can get
bond we'Ill start you in a business of your bond we ll start you in a business of your own,
selling our 52 standard remedies, extracts,
etc. We give you credit etc. We give you credit. No experience nec-
essary Good comnission exclusiveterritory,
liberai advertising. We have 325 bonded can-
vassers now



## TELEPHONES <br> For Farmers' Lines

organize an exchange in your com.
munity. Full particulars glad1y
murnished. Catalog free.
oN sol
THE NORTH ELECTRIC CO.
St. Clair Street,
Cleveland,


## Prize=Winners <br> for

## WATCH=COUPON B00KS

Month Ending June 25th
The eolowiugs are the rame of the

 ending June 25th :

|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## TAKE TEA IN THE OPEN

Tdere are many little ways in which "wave a change" during the can have a change". during the hot
summer months. We cannot all go to seaside and mountains, but we can
all "make the best of it," and by some ingenuity we may find this "best" better
than anything we have yet attempted. Have you a bit of lawn, or anything in the way of a back veranda? Plan, then, for a meal outdoors once preciation left in you, it will be a delicious surprise to find out what a difference eating in the open air makes. Last summer we took several Sunday-evening lunches outdoors, and we have no lawn-nothing better than a back veranda two stories up in the heart of hot Chicago. But the memory of those quiet stay-athome picnics have a bit of glamour about them still. We managed this way: A small table was carried outside and recklessly covered with the very best of the
linen and embroidered doilies. Those bits of Mexican drawn-work were never more appreciated than they crawn-work were never more appreciated than they
were that hot August day when we initiated our costless outing. This was our supper: Nut-and-lettuce sandwiches-dainty, refreshing things to prepare, minus all the coarseness of animal-grease save the wellchilled butter; a heaping dish apiece of berries smothered in sugar and cream; crisp salted wafers; one slice each of seed-cake; a pitcher of lemonade and a
small pot of hot tea. You notice one thing-I say "a dish apiece" and "one slice each." The very fact that one is at home might tempt a conscientious housewife to put the fruit on in a dish and the cake whole, to be served, making extra dishes and extra work at the table. This is a "picnic," though the pantry is within reach. A large tray received the whole, and it was mall table. No plates, no saucers and no extra small table. No plates, no saucers and no extra
spoons were allowed. We sat just one hour at that first feast, and only ten flies found us out during the meal; but all outdoors being bigger than our diningoom, what cared we?

A friend of ours who has a bit of grass in a back yard makes regular provision for meals outdoors once or twice a week all through the summer. "It rests us so much," she said, and then laughed as she added, "but there is not much economy in it, for we eat twice added, "are twice as well." At the "opening of the season" she buys one hundred wooden plates-they cost a mere nothing-and one thousand Japanese napkins. She also lays in a supply of olives and good tablethese home festivals. One of her sons has manufa these home festivals. One of her sons has manufacand planks, and half a dozen discarded chairs have been patched up and are kept stored in the adjacent woodshed. Then if a sudden shower overtakes the feasters, the furniture is not spoiled. Instead of tip. ping trays, baskets are used to carry the things from sions all extras are diry dining-room. The beverage is either milk or lemonade, with a "pot o' tea" for the everpresent weak stomach, a heaped-up dish of cold meat, another of bread already buttered, another of
plain cake or cookies, and "a dish apiece" of fruit. plain cake or cookies, and "a dish apiece" of fruit. motto. When the meal is over, each one fills a basket with dishes and remnants, and the two small boys gather up the plates and napkins for lighting the fire in the morning, and put away the chairs. The tablecloth. On moonlight nights the meal is served a little later than usual, and story-telling is the dessert. Why not introduce a bit of poetry into the daily
practicalities? Why not fellowship with Nature more? practicalitis?
Why not claim a larger portion of the gifts from
heaven-fresh air and sunshine?
A. M. S.

## SYSTEM IN THE HOUSEHOLD

If household affairs were more often conducted on business principles there would be much less com-
plaint of drudgery. Many a family is made wretched plaint of drudgery. Many a family is made wretched
by the haphazard manner in which the housework is done. To make a home the proverbial "heaven" for done. To make a home the proverbial heaven for heaven's first law."
System is the first condition of success wherever labor is to be regularly performed. A housekeeper's resources are sometimes sorely tried to meet emerthrow the customary order oi things. A great aid in systematizing housework is a division of labor. An
illustration of this may be drawn from a family in illustration of this may be drawn from a family in
southeastern Massachusetts. The regular work is southeastern Massachusetts. The regular work is
divided into three departments, called respectively the kitchen and dining-room work, the chamber-work, the laundry-work and mending. The mother and two aughters take turns in each department in the order ne immediately after eating breakfast Monday morning. Each takes her own time in doing her portion, ing. Each takes her own time in doing her portion, is not usually the same amount in all departments, but it does the workers no harm to have an easy week once in a while. The minor details of this arrangement
would vary in different households, but they could be readily adjusted to fit existing conditions. Where
there are more than three workers in a family the there are more than three workers in a family the Rhode Island family. There were four in all to do the work-a mother and three young ladies. One did the kitchen-work, one the dining-room and chamber work, one the laundry-work and mending and one the new
sewing. It was astonishing to see the amount of study, reading, fanc
The secret of these successes lay in the fact that each could do her part independently of the others. This method gave them a variety of employment, and much time as possible for their own improvement and
recreation. Its best recommendation is that those who try the scheme never wish to return to the old
order of things.
Henrietta M. Brayton.


## At TWILIGHT

## by Illyria turner

The old bars are by daisies hid,
And tangled sweets of summer-time; And tangled sweets of sum The chirping of the katydid
Is mingled with the vesper's chime.

Long, purple shadows softly fall Across the meadows and down the lane,
And from the vine-clasped old stone wall I see the cattle come again.
Brindle and Buttercup, Sue and Bess, With tinkle of bell, and gentle "moo"
Pulling the long, wet blades of grass, Pulling the long, wet blades of grass,
Cropping the daisies out of the dew.

Homeward, adown the fragrant lane, I follow slowly their lagging tread, Until in the door-yard we pause again,
Under the bars of the sunset red.

Afar the meadows are stretching wide And billows of grain toss tassels like foam; I love the peace of the country-side,

## THE BOYHOOD OF GREAT MEN

All great men were boys once, and the world likes to believe that they were dull boys. Marconi, although a young man, is old enough for a legend of his that he went to school in Florence; indeed, the teache who guided his infant footsteps in learning has been discovered. Signora Luisa Cavallero is a fine old lady of seventy-four years, who says the chief recollection of her younger days is teaching Marconi. "Who would have thought," she says, "that the Inglesino (little Englishman), as we used to call him because o his slight figure and sedate manner, would have turned out a genius? He was always a model of good be the least said the soonest mended I am afraid he got many severe punishments, poor little man; but he go many severe punishments, poor little man; but he took she added, ingenuously. "my conscience has proached me a thousand times. Fancy punishing a genius!" holding up horrified hands. "At that time," she added, deprecatingly, "he could never manage to learn anything by heart: it was impossible. I used to think that I had never seen a child with so defective a memory. He wili not remember me, but I think of
him constantly, and I hope that some time I may be him constantly, and I hope that some time I

## A SHELF OF CHINA

The illustration suggests an artistic and completely satisfactory arrangement for turning a miscellaneous collection of china to eminently decorative account. Supposing the plates, jugs and bric-à-brac here shown to be of varied and strong coloring-or indeed, if they
were of a blue color or any other uniform tone-a plain background is necessary to give them their fullest value. Accordingly they are ranged upon a narrow shelf, placed at the height of an ordinary picture-rail shelf, it should be noticed, does not run straight around the walls, but is fash-
ioned with bracket-lik projections, on which uggs, vases and such lik
may stand. The wall may stand. is spaced out wit "slats," such as panels
filled with Fabrikona or some other coarse can vas, which in this in-
stance I imagine to be The slats and moldings may be painted to matc the green, may be whit or in dull, unvarnished tinted engravings, sil houettes or small pic
tures of any lind have to be taken into ac perfectly plain forms a charming backgrotund; if china alone forms the
ornamentation. a simple stenciled design in tones of brown and olive-
green, with perkaps a touch of warm Indianred, might be intro-
duced in each panel with excellent effect. In any case the china if well grouped, even though not of the rarest (though the more uncommon the better), will have fulfilled an entirely satisfactory purpose. considerably more pleasing and artistic than that to which "odds of the spare room, that universal "snapper up of un of the spare room, that universal snapper

## "KITCH" IN YOUR DINING-ROOM

Mrs. A. D. T. Whitney, that charming and ever-號 one of her books. It is a "home story," and the home it introduces one to is most charming. The mother, Mrs. Holabird, achieved a great victory over custom and antecedent when she and her girls forsook the
kitchen, where they had endured the horrors of in-
 the summer.

Have a plain table, and often picnic under a tree or
on the veranda, unless you have a "big-course" meal. n the veranda, unless you have a big-course meal.
If children leave food on their plates, do not compel or hire them to eat, but serve them with less and avoid waste.
Nothing is more indigestible than slack-baked
bread, and yet many people have the taste to prefer it in that raw state.

Bake your bread in small loaves and very thoroughly, else the uncooked germs in the center will speedily destroy the loaf.
Save work in the house by wiping the feet on the
door-niat. Nothing is better in a country door-niat. Nothing is better in
the old-fashioned corn-husk
he old-fashioned corn-husk mat. table-requirements. Unless they are observant, their lack of teaching will follow them through their entire lack of teaching will follow
after-life.-Health Culture.

## true living

THEY stood si-
lently gazing at each other unexpectedness of it-she a beautiarefoot mountain
lad who had never been five miles beyond the precinct of his home. She had wan-
dered from the hotel to a sort of natural clearing a short distance beyond. It had seemed that she must be miles from civ-
ilization of any sort, when suddenly this small boy confronted her. The little fellow was vaguely fascinated at first; he stood gazing at her as something hithquickly turned, and the next instant was quickly turned, and the next
She had thought when she came to the Adirondacks for her summer outing that o do. When she had said good-by to the little class at home in the mission-school she had not thought of going out to find othey
Slowly she retraced her steps, the
shadow of a great. burden resting on her. "How shall they learn unless they are taught?" she mused. "Oh, I must make furtlier inquiry. I can still see the ap-
pealing, hungry eyes of that little boy pealing, hungr,
gazing at me."
gazing at me. outt the least trouble. The manager of
the hotel had long known "him and his kind," as he called them. "You see, Miss Atkins, he said, the boy was born
there, and will probably live and die there. Such life seems to suit his kind. But more's the pity, there,s several chil dren-five all told, I think.
"And does no one ever teach them hat right living means?
"No one ever interferes with them in
the least. They live their own lives, and we live ours; and inasmuch as they do no molest us, we do not trouble ourselves civilized, and yet they say they are not of
The lad's appealing eyes seemed still looking at Miss Atkins as she turned away. True living, she thought, "is with enough of all that is necessary to sustain life. It means growth into the character: into disciplined manhood and womanhood." With her, once to resolve
was to do; and later, when the ladies on was to do ; and later, when the ladies on her actions, and besought her not to excuse herself at that hour of the day, she work to do which required her immediate attention.
marked one lady to another. "I have marked one lady to another. In any one so pretty, and yet she seems entirely unconscions of it. now?" "I believe she is about the Master's business. Did you notice that intent ex pression in her eyes-a singleness of pur
pose-as she started out? I think if w wait a little while we will learn it all.' She had been told a direct path to the
mountain home, and started out without the least question of fear in her brook delay," she said, softly. She had before she came across the five of them, and so intent had they been engaged in sport that they did not see her until
she stood among them, arrayed, the eldest of them declared, afterward, "like a At first
r, but she were about to flee from emergency by bringing with her a number of pretty pictures. These she dis-
played at once, and evidently something played at once, and evidently something upon second thought they all settled down again
Then she
Then she won their hearts by telling Cross. They listened at first with ev ident indifference; but later their eyes
brightened, and they pressed closer, not wishing to lose a single word. She must have remained an hour or more, and to their urgent request that she stay longer spot when the weather permitted. "And
me. ness manager of the hotel, at the close o lad I have had in my employ for severa years , is that mountain ainly Miss Atkins has exerted wonderful nfluence here for good
her home filled with the quietness and confidence which no external circum Christian Herald.

## Sunday Reading

## DIDN'T THINK

Used to let his poor old mother go an' She was just a packhorse for Never thought o' bringin' water from the Or spring down by the lane, Or o' helpin' her to gather in the clothes
Let her keep a-waitin' on him, though 'cause he didn't so'Twasn't 'cause he didn't love her
just didn't think, you know.

After while the poor old mother put her An' we went an away, went an' heard the preacher praise
An' I stood an' looked down at her when Poor old hands! I didn't wonder that Just her boy sat there and cried his heart 'u'd breakHe had kind o' got to seein'
what she'd

There's a lot o' kinds o' sinnin' that the Good Book tells aboutSins concernin' which a body needn't ever be in doubt; But there's one sin that I reckon many a Will be held to strict t think
he goes across the brinkFor the wrong that's done a person by Hurts another's want o thought
the victim of a plot
-Ensign.

## "HE'S GOT HIS CROWN"

The annual conference was called to
After devotions the bishop said, "The secretary of the last session will please call the roll."
That official came forward, and began the roll-call. He had named only a dozen of the senior members, when in a lower made no answer. But the eyes of a grew moist as he said, "Never mind abouth him; he's got his crown." conference, which instantly flowed into triumphant song as some one started the stanza:
"E'en now by faith we join our hands With those that went before,
And greet the blood-besprinkled bands On the eternal shore."
"He's got his crown." That was well said. For more than forty years the old man had.worked like a hero for the Masare loved. He traveled many of the largcst and poorest circuits of the con-
ference. He never chose his harvestfield, but when the conference-time came around he appeared with his arms full of golden sheave
Last conference he was superannuated. It cost him more than a passing pang, but he stepped down so gracefully no one saw that his eyes showed traces of last night's tears. He went from the confernight's tears. He went from the conferin a little cottage in the midst of his late parishioners.

## What a yea

been to all the people in the village! He was the friend of everybody, and dren liked to be where he was! How his youthful pastor leaned upon him for sympathy and advice! How loyal he was to grateful he was that the church had put grateful he was that the church had put
up with his infirmities and used him so well!

did not live mostly in the past. You never heard him talking mournfully of the departed glory of the to forget the "landmarks." He was sure the world was growing better all the
time, and he was glad he had been altime, and he was glad he had been al-
lowed to live so long. Sunshine was in his heart and on his face. He just
ripened for paradise. One day when the ripened for paradise. One day when the
gates of pearl flew open, and he stood upon the streets of gold, it was not such
a great change, for he had been living in a great change, for he had been living in versation was with the King.
"Never mind about him." No, never matters upon its hands. It must deal with the living, pressing, awful present. march. It must arrange for new and

## crown." And that crown is all got his

 with a thousand stars. Talk about your coronations! Some day King Edward's for dead kings do not wear crowns Some day it will crumble into dust. Butthe other crown. of real royalty, won by the faith and self-surrender and sacrifice abide forever.-Epworth Herald.

## MISSIONARY FACTS

Forty million heathen die every year They are dying at the rate of dred thousand a day.
Each missionary is responsible for one hundred thousand souls.
In the United States there is one minster to every seven hundred people.
Every tick of the watch sounds the death-knell of a heathen soul.
At every breath we draw four souls perish never having heard of Christ. Out of every one hundred thousand church-members in America only twen-
y-one go to the foreign fields. $y$-one go to the foreign fields.
Christians are giving at the rate ne tenth of a cent a day.
Of every dollar given for Christian work, we spend ninety-eight cents on Christ said. "Go ye into all the world." "Go" does not mean stay; "all" does not mean a part.
There are three hundred million souls in India, and only seventeen hundred India has twenty-three million widows. Fourteen thousand are baby widows under five years old.
Allowing one letter of the Bible to represent one person in India, it would
take seventeen Bibles to represent them take seventeen Bibles to represent them all.
Every year twelve million perish in
China from the effects of opium.-Wes China from the

## 'GIB ME PO'TAH•HOUSE STEAK'

Two colored barbers, one an old man and the other a younger one, had the
shop. The younger one had taken off his apron, and was starting toward the
You's gwine ter git a drink?" asked
"Dat's what Ise gwine ter do," answered the younger man, "I used ter do de same t'ing when I wuz young. When I wuz fus' ma'ied dah wuz
a gin-mill nex' ter de shop whah I a gin-mill nex' ter de shop, whah I
worked, an in it I spent fifty an' sebenty worked, an in it I spent fifty an' sebenty earned. $W$-shop, an' who should come in de butchah-shop, an' who should come in
but de man what kep' de likkah-shop. '" 'Gib me ten er twelve pounds o po'tah-house steak,' he said. He got
an' went out. "I sneaked up ter de butchah, an"
looked ter see what money I had left. "'What do you want?' said de butchah.
"'Gib me ten cents' wuf ob libber,' wuz my remark. ${ }^{\text {'It wuz all I could pay fo'. Now, you }}$ 'go an' git yo' drink.' You'll eat libber,
but de man what sells you de stuff will hab his po'tah-house steak. De man be hind de bah eats po'tah-house, de man in
front eats libber. I ain't touched de stuff fo' thirty yeahs, an' I'm eatin' po'tahDO EVERYTHING WELL
Do not look so closely to see whether Do not look so closely to see whether so long as what you do is not sinfut
and that you are heartily seeking t do everything for God. Try as far as
you can to do everything well, but when it is done do not think about
rather to think of what is to be don
and do not torment yourself $W$, to hate our faults, but with a quiet alm hatred, not pettishly and anxiously. We must learn to look patiently at them, and win through them the grace of selfand courageous, and rejoice that He has given you the will to be wholly His.-
St. Francis de Sales.

## GOD'S HOUSE

God's house is a sacred place. It should be entered reverently. It is the house of prayer. Talking and visiting is most inappropriate. When one enters, let him
bow a moment in silent prayer. If he must speak, let him speak softly and house. Let him put away frivolous and worldly thoughts, and give himself for a God whose house this is. - Dr. C. M


FIREARMS

RIFLES, from - $\$ 3.00$ to $\$ 150,00$ RIFLES, from - $\$ 3.00$ to $\$ 150.00$
PISTOLS, from $\quad 2.50$ to $\mathbf{5 0 . 0 0}$ SHOTGUNS, from 7.50 to .30 .00 Ask your dealer for the "STEVENS", If he dose
not keep them, we will send, express prepaid, on receipt
of price.
J. Stevens Arms \& Tool Co., CHICOPEE FALLS, MASS.

Skin Diseases

Eczema, Salt Rheam, Pimples,

## promptly cured by <br> Hydrozone <br> Hydrozone is endorsed by leading

 physicians. It is absolutely harm-less, yet most powerful healing less, yet most powerful healing
agent. Hydrozone destroys paraTake no substitute and see that every bottle bears my signature.

Trial Size, 25 Cents. At Druggists or by mail, from
Qrof. Charles dbarchando Now Prince St
Friec \{ $\left\{\begin{array}{l}\text { Booklet on the rational treat. } \\ \text { ment or diseases sent free. }\end{array}\right.$
ALLEN'S FOOT=EASE

 Mawe wix Mutu is:


## FRE

th Gef GRAPS SWERT POWDERS

and boys in every city and town, who are bright mon energetic, and who want to make some money for some particular purpose, or who
would like to have a steady income. It is the most pleasant work possible, and will bring you in contact with the finest people. Can be done

after school. Write us at once. Circulation Dept. Farm and Fireside, Springfield, Ohio. | Our New | $\begin{array}{l}\text { Jast in }-10,000 \\ \text { Breech Loaders. }\end{array}$ |
| :--- | :--- |
| American |  |
| Gun | They go to quick |
| bend 2-cent stailp for eataloge | bains at Brices. |


PATENT SECURED of Re Ramed


LULLABY
In the sheltering warmth of thy mother's Sleep, O little one, sleep! With slumbery music leading along, Into the dream-world deep.

In the low white rocker she pensive sits. Humming thy lulaby;
And her fancies into the future flow As she sees her baby to manhood grow,
Noble and pure and high!
Do her fancies people thy
For a flickering smile I see
Flit o'er the calm of thy sleeping face,
Sending a sweet,
As of near divinity.
Sleep, little babe, in thy mothers arms,
Sing on. maternity!
God grant the love in thy sweet eyes
May ne'er be dimmed. and the hopes that rise In thy child reach certainty!

-Christabel, in Town and Country

## A PIE-RACK

Avy housewife with a limited amount of shelfroom knows what a bother it is to stow away a
large baking of pies. A rack that will hold half a dozen pies can easily be made in a few minutes by the man of the house, or if need be, by his wife. The materials required for it are four thin boards, each twenty-two
inches long and twelve inches wide; tivelve empty spools, all of
the same size-those from No. Io the same size-those from No. Io
cotton thread are a good size; a piece of heavy cord, such as is
used in tying express-packages, used in tying express-packages,
and two heavy rings-old harnessrings will do. In each corner o about the size of that in the spool If you cannot use a brace and bit. or haven't one of the desired size
heat the end of an old file, and burn the holes through the boards. Now begin at the upper side of
one board, run the cord down through the hole in one corner, then through a spool, then through boards run together, with a spool you have the four Put the string up through the hole at the other corner of the same end of the bottom board, and proceed in like manner until you have the cord out again at the top. Do the other end in the same way. Now draw
the ends of the cord in such a way that it will allow the the ends of the cord in such a way that it will allow the
shelves to hang against the wall. and fasten them shelves to hang against the wall, and fasten them
frmly into the two rings. Trim of neatly, put a curtain all around, tacking to the e top shelf, and you have got. In an emergency, cakes or pies may be set on got. In an emergency, cakes or pies may be set on
the top. Be sure to have the nails over which the rings are slipped for hanging the rack strong and well driven, or better still, use two strong hooks screwed
into the wall. By putting two spools, one on top of the other, in one partition, a space may be made deep enough to take a cake.

MAy Myrtle French.

## PENELOPE'S WEDDING-HANDKERCHIEF

The narvel of this beautiful handkerchief, as delicate as frost-work, was that it had been the work of
Penelope's aunt, a dear lady seventy years old, and Penelope's aunt, a dear lady sevent
love was woven in with every stitch.
"Oh, the beauty! the exquisite, dainty thing!" cried Penelope's girl friends, as she held up the precious bit of point-lace for them to admire. "It must be your
wedding-handkerchief, Penelope! You must take it when you stand up to be married!
"But who is there good enough to stand up with the handkerchief?" questioned Penelope viewing the del-
icate lace with a new and tender solicitude and giving it a caressing touch as she spread it on her knee
"You have sweethearts enough who would b ing." observed Penelope's bosom friend,
"There seems to be quite a number,", admitted Pen-
elope, with charming candor. "There's Joln-I have elope, with charming candor. "There's John-I have
always liked John. He is just as good and kind as he always liked John. He is just as good and kind as he
knows how to be. but John hasn't any force or gumption. He would never bring in a pail of water or an
armful of wood unless I asked him to, and then like as not I should have to split the kindling and build the fire. No, I could not risk marrying John. I must
not only have a husband who is good, but one who is good for something,"
"There's Harry,"
and clever as he can be.". "Yes. Harry has the push of a locomotise," agreed
Penelope. "He is sure to make his way in the world. Penelope. He th sure to make his way in the world. course. He is a-man of moods-one day all smiles
when his affairs have gone well, and the next day all could never be happy if I had to spend all my life with a man like that

## are unreasonable, Penelope, if you expect to

 find a man sweet all the time.""I don't expect him to be as uniformly sweet as a
box of caramels. I am not like that myself, but I exbox of caramels. I am not like that myself, but I ex-
pect him to be an even-minded, true-hearted man who
will have a smile and a word of love for me when I will have a smile and a word of love for me when I
need it, no matter what the weather may be in the outside "world."
"Well, there's Jack," ventured the friend. "He is as good-natured as the day is long, as handsome as a
picture, and bright and ambitious, too. What objec-
tions can you have to Jack?" tions can you have to Jack?"
"I think a goorl deal of Jack," returned Penelope.
smoothing her pretty handkerchief. "He is always
pleasant, and such jolly good company, but he is too
restless. He would drag a wife from Dan to Beer-
sheba, and never make a home anywhere."

-RACK
"You can't find that fault with Elbert. He has home, and property, and certainly he is stationary." haystacks. I doubt if he ever has an idea that travels off his farm. Elbert would give his wife a good home and dress her well, and he would take pride in doing t . But he would begrudge every dollar he spent on her, and if she wanted a penny for a postage-stamp she would have to go down on lher knees. No; this fine
handkerchief shall never stand.up with a man like hat""
"'Tom is just home from college with enough new
deas for the whole village, and a dress-suit. besides. ideas for the whole village, and a dress-suit. besides.
He is as generous-hearted a fellow as ever lived, and He is as generous-hearted a fellow as ever lived, and
he would adore the little handkerchief, and yout, too. he would adore the little,
I have seen it in his eyes."
"So seen it in this eyes."
"So have I," returned Penelope, blushing as she olded the handkerchief very evenly and very care-
fully. "But Ton adores other things, too. He is fully. "But Toin adores other things, too. He is ond of a good cigar, a glass of wine, a pack of cards.
He boasts openly that he is not a moral man He He boasts openly that he is not a moral man. He
would not think of marrying a girl who would hang would not think of marrying a girl who would hang around saloons and keep the company he does. Why should I marry him? I have no wish to die the a natural death.
"The truth is, girls, that men have much higher ideals of what a wife ought to be than we have of
a husband. Too many of us are a husbang. Too many of us are calling out, 'Anybody, O Lord! Anybody!' "If every one of us should earnestly resolve never to marry a man who would drink, smoke, gamble or lead an impure life, there would be such a turning
over of new leaves in this county as never was heard of before in all its history.
but You may think me prudish, much more to me means so ing through me than simply go There is a sacredness about it that is a ceremony. One must be married in heart. thought and in the Sweetest ideal of one's spiritual life, and then the two together can make a home that is a heaven on eartl. If I cannot be married like that I should rather live an old maid a thousand years." And Penelope put he
wedding-handkerchief away.

## Frances Bennett Callaway.

## THE FARMER'S WIFE

So much has been said concerning the prosperity of farmers that apparently all has been told, but the farmer's wife is a subject rarely touched upon, and one good-natured hard-working woman who has spent the good-natured, hard-working woman who has spent the
best days of her life in a small house with no con veniences, surrounded by half a dozen healthy children who were a constant demand upon her energies and patience. Indoors and out alike, she has ever been patience. Indoors and out alike, she has ever been
at the head, engineering and overseeing less competent heads and hands. So, ever faithful, seldom fretful, rising early and retiring late, she has passed the meridian of life. When she begins to descend the western slope, may her journey become less arduous, and may she taste some of the good things of this life which after years of ceaseless toil have at last fallen to the lot of her prosperous, farmer husband. May those
boys and girls, now grown to manhood and womanhood, not forget whose hands toiled and persevered that they might become educated
and honored citizens of this great country. May they not forget country. May, they not forget
that "mother" herself was once young, and had the same dreams. the same long, long thoughts of
youth that now are theirs. May they remember, too. that her dreams never materialized, and
that the dreamer's life became a that the dreamer's life became a
stern reality of painfully practical stern reality of painfully practical
facts, which have hardened the once soft hands and given a tired, care-worn look to the onee pretty face. And may these children
not forget that through it all "mother" has preserved the
sweetness and cheerfulness which won the sturdy young farmer's hea
 won the sturdy young farmer's heart, and which now This good wife and mother has earned and love her ton from hard work and worry, and may she not be deprived of the fruits of her labor. Do not, O pros perous farmer, celebrate your prosperity alone by buy-
ing fine stock, building great barns and cow-sheds. Let a goodly portion of that wealth fall into the la of the companion who has stood so faithfully and loyally by your side through dry season and wet through grasshopper-year and chinch-bug pest.
Lottie L. SHELTO

## making currant jelly

When I was a girl at home. one rule of the housekeeping was that the currant jelly must be made by the
Fourth of July. If by any untoward circumstances the ielly-making was delayed past that date. it was a matter of regret, and everythig was bent toward making t within the fewest possible days after the glorious
Fourth. While we at home were always too busy to Fourth. While we at home were always too busy to
know much about the neighbors' housekeeping. I reknow much about the neighbors housekeeping, I re
member that sly remarks used to be dropped about any one who was delinquent about her currant jelly.
year I made my supply of currant jelly think the currants would be gone, or after a certai or third of July had handsomer er more perfect jell than that made in August last year and it was made the fruit-juice and sugar, just as we used to make it with no gelatine nor any new process.

The currants I used did not grow in my garden, fo I have no garden. I simply went into the market, and bought a large basket of currants for fifteen cents, so they were really cleaper than earlier in the season.
I do not tell this experience to make laggard hous keepers. When used when ripe: but if you are to buy your currants you need not worry over a delay, nor unduly exer yourself to make the jelly at one certain time. Fruit is brought from so many directions and so many vari eties of climate in the United States that the fruits ca

While home jellies and fruit put up in
kitchen possible to prepare the fruit without too seems imoutlay of strength or time, remember it does no require a very full purse to be able to obtain fresh fruits of one kind or another if one lives within reach of markets.

## THE DELICIOUS RASPBERRY

Raspberry Tapioca.-Soak one small cupful of tapioca over night in water enough to cover. In the morning add one quart of water, and cook in a double of white sugar and two cupfuls of fine ripe raspber ries. Stir them in lightly, so as not to break them and set the kettle in a paniul of ice-cold water to cool quickly: Serve very cold with whipped cream.

Raspberry Trifle.-Arrange stale macaroons or slices of sponge-cake in a deep glass dish with alter nate layers of sweetened raspberries. Pour over thes a custard made with the yolks of thrree eggs, four tablespoonils of sugar and one pint of rich milk Mavored meringue with the whites of the eqrs and si tablespoonfuls of powdered sugar. Heap this on top tablespooniuls of powdered sugar. Heap
of the triffe before serving. Serve very cold.

RASPBERRY SANDwICHES.-Mix one half cupful o mashed red raspberries with one half cupful of grate pineapple and one fourth of a cupful of crushed Englis walnuts. Beat the whites of three eggs with six table spoonfuls of powdered sugar, and beat into the fruit Cut sponge-cake into finger-pieces, and put two o them together with the fruit mixture between. are delicious for afternoon tea.
Raspberry Wells.-Make round individual sponge cakes by any good recipe, and when cold carefull scoop out the center of each, leaving a wall about three fourths of an inch thick. Cover the wells insid ripe red raspberries slightly crushed, sweetened and mixed with whinped cream. Hean whipped and over the top of each
Cream-raspberry Tart.-Line a deep earthen pie dish with good pastry, and fill the dish with raspber
ries. Sprinkle thickly with sugar Roll out an uppe crust a little thicker than the under crust and large than the top of the pie. Spread this carefully over the top, and do not press down the edges. Bake in cupful of milk. Make a custard as follows. Put one ing-hot add in a double boiler, and when it is scald teaspoonful one tablespoonnul of sugar, and one with little cold milk; stir, and cook for five minutes; add to the mixture the whipped whites of two eggs, cook minute longer, and remove from the fire. Stand th dish in a panful of cold water, and stir until the custar carefully remove the top crust and pour the custard over the
fruit. Then replace the top, and serve the pie when perfectly, cold. e whites of four eggs to a stif froth, add one cupful of powdered sugar and one cupful of crushed cups with whipped cream or cus cups
tard.
RAS
Raspberry Charlotte.-Soal one third of a box of gelatine in one third of a cupful of water for
fifteen minutes. Add one cupful of sugar and two cupfuls of boil ing raspberry-juice. Stir until the gelatine is all dissolved, and set away until it begins to harden. Then whip it until light, and gradually beat in the stiffy whipped whites of three eggs and the juic of one lemonl.
lined with macatoons.

## PINEAPPLE-AND-RASPBERRY ICE-CREAM

Cut off the top of a large pineapple, then with a strong spoon scoop out the pulp, separating it from the hard core, which should be rejected. Sugar the
fruit. let it stand some time, then pour off one cupful of juice. Trim the pineapple-shell at the bottom, will stand firm, and chill in the refrigerator. Mas well one pint of red raspberries, add one fourth of cupful of water, one half cupful of sugar. and the pine apple-juice, and cook the mixture several minutes sugar if needed, and strain through cheese-cloth. Beat one uuat of cream and one cuptul of sugar until light and frothy flavor with vanilla and freeze as ice-cream when half frozen add the fruit-juice, and finish freezing Fill into the pineapple-shell. set it in a deep mold o the freezer-can. and let it stand packed in ice and salt for an hour or longer. Serve on a plate covered witl a doily.-Amelia Sulzbacher, in Good Housekeeping.

## a fashionable toilette

PALE gray crepe de chine is used
for the dainty gown illustrated or the dainty gown illustrated,
rimmed wilh lace that is dyed to perfectly match the fabric. The waist is made over a glo
boned lining of taffeta.
boned lining of taffeta.
The back is plain across the shoulder, and drawn down close to the belt, where there are tiny plaits in the center. The neck is cut slightly
low in front. The full fronts are gathered on the low in front. The full fronts are gathered on the
shoulders, and blouse stylishly over a crush belt of crêpe de chine.
in the arm's-eye and unded on the shoulders, included the lower edge of the $V$ in front. They are edged with frills of lace, headed by beading, through which narrov velvet ribbon is passed.
This is tied in a small bow at the

Short, filted caps in the sleeves are of lace. The full puffs are
shirred at the top and attached to shirred at the top and attached to
the caps. They fall loosely and droop w

A narrow front panel in the skirt and motifs. The skirt is made in two sections - the upper reaching from a fitted yoke to the knee, and Three rows, of shirring are ar ranged at the top of the upper par to draw it in closely over the hips. There are also rows of shirring on
the flounce, which adjust the fullness at the knees and keep the skirt quite tight at that point. The flounce graduates in depth toward the back, and is very wide at the hem, fall-
ing in long, graceful folds. The closing in long, graceituli fords. The clos-
ing is made invisibly at the back ing is made invisibly at the
Some women with slender figures prefer the shirred yoke. This pattern may be made
shirred or plain yokes.

## ¿adies' nine-gored skirt

Train skirts still reign supreme in the fashion world; in fact, no modiste would think of making a dressy gown without a train. There are, er, and seriously object to rainy-day length For this reason ladies' tailors are making a number of costumes with skirts that are round, just escaping the ground.

Such a skirt is shown in the illustration, developed in white brilliantine, unlined, and trimmed with heavy lace motifs. It is shaped with nine evenly proportioned gores, fitted smoothly around the waist

The skirt is sheath-fitting from belt to knee. Extensions added at the lower edge of each gore are arhollow boxplaits that a re flatly
pressed, but pressed, but ly when the wearer walks. Lace motifs are applied at the lower part of each gore between these box-plaits. Skirts in this style are made of cheviot, serge, Ve-
 trimmed with braid, stitched bands or lace.
the plaits are faced with contrasting color.

## GIRLS' DRESS

Light green veiling is used for the dainty dress illustrated, with white lace for trimming. The twopiece body-lining fastens at the back, and is faced
with lace to a pointed yoke-depth. Three tucks on each side of the center front and seams of the waist and lining are joined separately, and the former blouses well all around.

A fancy bertha outlines the yoke. It
decorated with large lace motifs in the corners, and finished with narrow velvet ribbon that ties in a rosette at
the front. A plain lace collar completes the neck.
One-piece bishop-sleeves fit the arm closely from shoulder to elbow, and are very wide at the lower edge, where the fullness is arranged on narrow wrist-
bands. These are finished with flaring cuffs of lace

Deep forward-turning plaits in the skirt start at each side of a narrow front panel, and continue around the
waist to the back. A box-plait is applied in the back, and the skirt closes invisibly under the plait. Motifs and bands of lace trim the skirt. Attractive dresses in this mode are
made of albatross, bunting, challie, cashmere or any light-weight woolen fabric, with lace, ribbon or fancy braid for trimming. for linen is also an appropriate style for linen, piqué, fine gingham and lawn, with
embroidery and inserted tucking for the yoke.

## LADIES' TUCKED WAIST WITH YOKE

Fine white damask is used for the attractive blouse illustrated, with Mexican drawn-work and bands of blue peau-de-soie for trimming. This idea of trimming pensive fad, for with such decoration it is impossible to have the waists laundered. Thev must be dry-cleaned. The blouse has for its foundation a glove-fitted featherboned lining that closes in the center back, and back and front


The full fronts are tucked, and applied to outline the yoke. The tucks are stitched down part way, the fullness forming a smart blouse over the belt.

The backs are tucked to correspond with the fronts, but are stitched down from yoke to belt, tapering styneath the tucks. The collar, which is of plain linen, is trimmed with bands of silk.
Inside seams fit the
Inside seams fit the one-piece bishop-sleeves closely to the upper arm. They are very wide at the lower edge, where the fullness is gathered and arranged on cuffs of unique shaping: The bands
of silk are applied to simulate caps, of silk are applied to simulate caps,
but may be omitted if a plainer sleeve is preferred.
Waists in this style are made of
taffeta, satin, albatross, veiling in taffeta, satin, albatross, veiling in
soft silk and wool fabrics, with lace, soft silk and wool fabrics, with lace, applique, all-over embroidery
serted tucking for trimming.

## GIRLS' COOKING-OUTFIT

Many of the public schools have cooking-classes each day which are cooking-classes attended by all the scholars over six years of age. Aside from these there are any number of cooking-schools, and all the pupils are supposed to be provided with at least two sets of special garments to wear while learn-
ing. One is usually at the laundry, ing. One is usually at the laund
as the work is not at all clean.

The illustration shows a re ulation cooking-outfit consisting of apron, sleeves and cap. They are made of white lawn. The full skirt of the apron is gathered, and attached
to the lower edge of a belt. It comto the lower edge of a belt. It completely covers the dress-skirt and
meets at the back. The lower edge is finished with a deep hem.
The bib is attached to the belt, and edged with straps that extend over the shoulders, fastening to the belt at the back. The apron is
means of long strings tied in a bow.

Elastic run through a casing on the edge of the cap permits it to be drawn down over the hair if necessary. In some schools they insist upon the amateur cooks' hair being Inside seams fit the sle cap.
Ine sely Inside seams fit the sleeves. They are drawn in at the elbow with sleeve forming ruffles below the sleeve for
the casings.

## HELPFUL HINTS

A white organdie gown with sprays of pale violet wistaria
is made with a double skirt composed of two deep shirred composed of two deep shirred
flounces. Each flounce has a five-inch hem, in which violet ribbon is run. There is a high girdle of violet silk, and thie
stock collar is fagoted with violet silk.
The woman of limited income wisely makes one or two of her summer gowns with two waists -one high for afternoon wear, and the other low for evening.
The word comes from Paris thaterials are often occasions. hirt-waist suits, will not be worn at all next season. shirt-waist suits, will not be worn at all next season.
Tussores are the coming silks. It is true that foulards Tussores are the coming silks. It is true that foulards
have been so much in morning gowns and simple streetsuits that they are no longer asso
in the mind with dress occasions
in the mind with dress occasions.
One can hardly go wrong in making a gown to be worn after this summer
with a full skirt. Gores are rapidly going out. Tailored gowns have them still, but more elaborate frocks are nearly all fulled in some way or other. Shirring and plaitings and smockings are used to give the fullness, all of these keeping the tight effect so much desired about the

## FASHION'S FANCIES

Hyacinths are popular in millinery. The lace collar of the moment is alThe jeweled girdles grow steadily more popular.
Russian linen scrim is one of the smartest of the inexpensive goods.Woman's Magazine.
Any of these patterns furnished from this office for ten cents each.
A Fashionabie Summer Toilette.-The Waist Pattern No 9018 is cut in sizes for a $32,34,36,38$ and 40 inch bust measure. The Skirt Pattern No. 8919 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure. Ladies' Nine-gored Skirit.-The Pattern No. 9022 is cut in sizes for a $22,24,26,28,30$ and 32 inch waist measure.
Girls' Dress.-The Pattern No. 9016 is cut in sizes for girls of 6,8 , 10 and 12 years of age.
Ladies' Tucked Waist with Yoke
Ladies' Tucked Warst with Yoke.-The Pattern No. 9014 is cut in sizes for a $32,34,36,38$ and 40 inch
bust measure. Giris' is cut in sizes for girls of 8, Io, I2 and I4 years of age. knee-flounces, to be attached by means of a double row of beading and a broad ribbon. One of the flounces is of white China silk, shaped at the top by groups of small tucks. The bot-
tom is scalloped, and has an edging of six-inch Valentom is scalloped, and has an edging of six-inch Valenciennes lace. An elaborate application of lace flowers heavy white satin ribbon with long ends on the left side. A second flounce is of pale blue organdie to match a blue-and-white organdie gown. It is rather simply trimmed with lace edging and medallions. The third flounce is a tri-
umph of skill and pa-
 ience. It is a shaped circular affair, composed of sixteen rows of lace edging sewed together, the edge of lapping the top of the other. A wide nainby a frill of lace, atthehes the flounce to
The use of Valenciennes lace increases, and is threatening the popularity of the anique and Cluny, so universally worn at present. Many of the thin lingerie waists are trimmed with Valenciennes medallions and edging, and it is seen on organdie and other muslin gowns, espense is mont of tripes of whe wash-ribon thee inches wide and two-inch Valenciennes-lace edging, not insertion. There is a shaped belt of the ribbon and a tunic of lace and ribbon sewn lencthwise below the belt. In the tunic two rows of lace are used between the rows of ribbon.
A rose-pink linen gown is effectively trimmed with disks of white linen closely sprinkled with Frencl ruffled slightly, but disks are edged with Cial. They extend around the circular skirt, and appear on the blouse. The guimpe and lower sleeves are of white inen with black knots.
model for dressy shirt-waists is seen at an
importer's, and is developed in linen, pongee importer's, and is developed in linen, pongee
and tussore silk. It has a deep cape-yoke, circular-shaped, which extends far over the shoulders, giving them an extremely slaping effect. The yoke is attached to the fulled For wear with linen or other light-mate lar and front pieces, miscalled guimpes, are shown. They come in pink, blue, mauve
and yellow, in combination with white,
and are very pretty and are very pretty
and cool. They are
 easily made at home,
and may be varied and may a chic COLLAR To hang on a chatelaine or watch-fob, jewelers offer a small gold sphere about as
large as an English walnut. Some of these are powdered with tiny jewels, and are are powdered with tiny jewels, and are
especially pretty. The ball unscrews ingeniously in the center, and displays a little powder-puff with a gold handle.
Another novelty seen in a jeweler's shop is an opera-glass which folds perfectly flat, and may be slipped in a small bag, or even in a pocket if any gowns nowadays boast pockets. The lens is turned sidewise by means of a screw
Sun-plaiting is often drawn out in the making of owns until all the fullness is eliminated and only the lines of the plaiting left. A'white crepe-de-chine skirt is thus treated, the bottom of the skirt having two graduated tucks above the wide hem. The blouse is fully plaited to a lace and fagoted yoke.
parasol-handles. A sky-blue taffeta par asol has a brownof which is a large ephant's trappings are fit for a rajah, being green jewels. The tusks are of
ightly gilded.
A simple but handsome hat is made of a flat plaque of écru
chip. It is shaped on a bandeau of white maline, and has a fine white ostrich-plume the hair on the left side and at the back. A double wreath of shaded pink roses extends half way around the top of the hat, and ends in two rosette
Very long veils to twine around large hats and fall almost to the waist are seen on Fifth Avenue, espec ially for carriage wear.-American Cultivator.

## Pelatiah

By Jumes c. .fermald

## actoress

APOor little forlorn, cold gray kitten on a back door-step greeted the head of the family one freezing morning. It was "one of those days dog from the fire." and of course the same logic covered the cat, although the householder didn't like cats But as the fire blazed and crackled, the stranger began to manifest the gratitude which Dean Swift has de fined as "a lively sense of benefits to be received," and
because it made the host uncomfortable to see a creabecause it made the host uncomfortable to
ture hungry, the kitten got a saucer of milk. "Oh, my dear." said the good wife, coming down a
ture gungry the kitter
little later ""we con never little later, "we can never keep that kitten."
"All right.," was the reply: "just as you think best But I couldn't turn it out in the cold.'
Hence arose an unanswerable problem. For how man couldn't bring himself to do? Kitty slippe through the silence into the library, and laid down by the sliding doors. Now, though the house was new, a
little colony of adventurous mice had found out that little colony of adventurous mice had found out that
people lived there, and had things to eat, and that the space in which these doors slid back and forth formed a ready-made and unassailable cavern. One of the lit tle colony slipped out to reconnoiter, and at that precise moment Ritty awoke from a refreshing sleep, and
walked proudly out into the dining-room exhibiting the trophy. evidently in payment for board. After that trophy, evidently in payment for board. After that
there was no question of sending the visitor away, and there was no question of sending the visit
soon no trace of a mouse could be found.
The struggle for life is part of the process of evolution, and it came with thunderous barking, growling
and scrambling a few evenings later on the snow that and scrambling a few evenings later on the snow that
covered the front lawn. When the family reached the door, there in the center of the plot stood the mite of a kitten, with one fore paw raised in defiance, while cir-
cling around with a three-yards' radius, the newsboy's cling around with a three-yards' radius, the newsboy's
great white mongrel mastiff, "as big as a calf," as the milkman said, raved and roared. but dared not close in. The kitten was too wet to bristle, having apparently been either in the enemy's mouth or rolled in the snow,
but the attacking party had had the experience of the but the attacking party had had the experience of the
little boy who said, "Mama, I didn't know that bees had splinters in their tails." He had found that Kitty had eighteen "splinters" in those four little paws, and nothing conld induce him to risk so hot a reception again. From that time the little gray kitten had only
a wholesome contempt and defiance for the whole canine race.
The tall tulip-trees were the next scene of adventure. It was easy to climb up by putting one paw before a nother, but when up fifty feet above the
ground, how was one to turn around and come down? So the little gray figure would hang wailing there where no human being could climb, and the family
would be forced to go to bed with that plaintive cry would be forced to go to bed with that plaintive cry
from the tree-top the last sound in their ears. In the morning there would be a round depression in the snow at the foot of the tree, and no cat at the top But while they were looking anxiously for the finish of
the tragedy, the remains would come up very much live and yowling for breakfast.
Surely stuch a valiant creature should have an honorable name. and that of a doughty Revolutionary
ancestor of the family was judged appropriate ancestor of the family was judged appropriate. So
the little fighter and climber was named "Pelatiah." The appellation seemed at once unique and fitting, and tion until their theories were thrown into confusion by the sudden appearance of four small kittens. Every
endeavor was then made to change the masculine appellation, but in vain. The name "Pelatiah" had become as much a part of the cat as her tail, and her
case was like that of Barrie's "Iassie wi' a laddie's name." ["The minister-it was Mr. Dishart-some-
how had a notion 'at the littlin was a laddie, an" when how had a notion 'at the littlin was a laddie, an' when
he reads the name on the paper. 'Margaret Dundas.' he
looks at Hendry wi' the barnie in his arms, and he says, looks at Hendry wi the barnie in his arms, and he says,
stern like. 'The child is a boy, is it not?',
Hendry was confused, as a man often is He says, all tremblin', 'Yes, Mr. Dishart.' 'Then,' says the minister, I cannot christen him hargaret, so 1 will sure eneuch." So the poor little girl had always to be "Davie." I
Fortunately few people knew Hebrew, though good old Cotton Mather was sure it was the language of
Eden, and believed it would be the language of heaven. So the incongruity of the masculine name does not dis-
turb the general susceptibilities. turb the general susceptibilities.
What a sight it was to see that untaught young
mother educating those kittens! An ample amount mother educating those kittens! An ample amount
of animal-food was provided in the residue of steaks,
chops and roasts. but who could tell whether this artichops and roasts. but who could tell whether this arti-
ficial supply would last for another generation? Her
offspring must go back, to first principles, and ear offspring must go back to first principles, and earn
their own living. Since there were no rats or mice
about her home, they must be imported, and day by
day she would bring the half-dead prey from houses about her home, they must be imported, and day by
day she would bring the half-dead prey from houses
and barns in the neighborhood. to give those kittens
object-lessons. Sometimes, in special delight over her own prowess. she would lay a nice, large, fat rat on the
sill of the parlor window, as a generous, gift for any
of the the sill of the parlor window, as a generous gift for any
of the human family who might want a dainty neal.
She had learned to fight dogs. and her kittens must She had learned to fight dogs, and her kittens must
learn. She had none of the scruples of the human
mother who consulted her pastor as to whether she
boy hit him, on which the minister's boy remarked
that she needn't trouble herself, for Tommy had already settled that matter for himself. Pelatiah had a
comprehensive theory of battie. It's very poor busicbmprehensive theory of battle. It's very poor busi-
ness to stand up, and strike with one paw-you have ness to stand up, and strike with one paw-you have
tour of them, and a mouth full of teeth besides. Close in on your enemy, then fling yourself down, and discharge the whole battery at once, claws and teeth,
in one simultaneous hide-rending volley. She would in one simultanious hide-rending volley. She would demonstrate this to the kittens one by one, until the
little things would fairly cry out at the severity of the lessons. But every one learned it; and instead. of skulking into corners, they would march toward an
enemy, waiting to get near enough for effective attack. enemy, waiting to get near enough for effective attack.
How Pelatiah did terrorize the dogs in those days after she had a family to defend! She had a favorite perch on a kitchen window over the bulkhead cellardoors. There she would sit, blinking in the sun, the very emblem of peace and domesticity. Suddenly there would arise from the lawn howls and yelps and "ki-yies", as some unfortunate dog fled madly with tail at half-mast, not believing until he got a block way but what the grass and bushes were full of cats.
Ethel insisted that Pelatiah deliberately left portions of every meal in her plate under the elm-tree, in order to tempt her victims within reach. The dog would come cautiously scouting across the fields. This time the coast was clear-not a living thing in sightand that morsel was savory! He would put down his head to eat, when a streak of gray lightning would Slide across the grass, and a rending fury would be cri his back, where he could not fight, and clinging so that that she had only to walk quietly down the path, and every other animal would vacate the premises.
touch th all these wild, lynxlike traits. there was a touch o fomething uncanny about her. She may have and preferred cream. She would let a saucer of milk disdainfully alone until what cream there was in it had risen to the top. Then she would sit down before it, and skim it, with one fore paw, inverted and used like a teaspoon, swept across the top of the milk and then
lifted to her mouth to be lapped dry. What was not lifted to her mouth to be lapped dry. What was not
worth skimming off in that way she would leave. By worth skimming off in that way she would leave. By
an unfortunate lack of moral principle she would extend this ingenious process to the table, and as the men of the all people who she became profonndy distrustfur of all people who wore trousers. One summer the whole family had gone to the mountains except the father
and the eldest son. They chanced to meet in the kitchen one day. while the gray cat sat in her favorite resort outside the window
think it will be a the son, "now the girls are away,
"Yes, by all neans." the father answered.
Pelatiah jumped down from that window-sill, and absolutely disappeared; and though the avengers
looked for her for weeks, they never saw her gray looked for her for weeks, they never saw her gray
coat once. At length, foremost of the family, Ethel coat once. At length, foremost of the family, Ethel
came home. She had not been in the house an hour camere Pelatialh was sitting tranquilly on the windowsill, ready to jump trustrully in when the window opened and a gentle voice said, "Why, Pelatiah!" It Puritan ancestors would have seen some old lady Puritan ancestors would have seen
riding a broomstick above that house.
And what was the fate of this remarkable animal? Why, she has had none, and shows no sign of being near it, but is as bright and vigorous as two spitfire
and unapproachable gray kittens can keep a fond mother. And the most adventurous rat has not the slightest chance to make even a beginning of the
story that immortalized "the house that Jack built."
,

## The Bridge Ghost

by frank h. sweet
"Who evil seeks to do at night
An sees de ghost upon de benches, Ob moon dat skurrying cloud intrenches. Better he turn, an haste from der
If he keep on, beware! beware!'
crooned old Meg Noka in her deep, sepulchral voice, which was peculiarly impressive when used as it was now, in a slow, meditative soliloquy. Several of the boys lying up the bank shivered. and one or two of
them began to repeat the doggerel over, as though trying "to impress it upon their memory.
raising himself upon his elbow. "Dsked Al Hopkins, raising himself upon his elbow. "Does it mean the
benches down to Ford's? Is there a story connected
with it?", The old woman deliberately knocked the ashes from her pipe against the step of the little cabin, and rose to
her feet. her "feet.
"I tole you ghost-story 'nough fo' one time, boys."
she said. "Mebbe I tell you dis de nex' time you she said. "Mebbe 1 , tell you dis de nex time you
come. Yes, it's Fo, d's benches. or bridge, laik people call it now. An' it go way back to de time when
Injuns owned de country Injuns owned de country. Mebbe you fin' out yo'shes, you go dere some night on evil intent an see de
ghost. Den if de moon am out you better not go 'beware'" "and with harsh though unt unfrendly laugh, the old woman disappeared with in the cabin. One by one the boys rose from the grass walked away. They were fond of coming to hear old Meg's stories. and their interest was not lessened by spirits. or her knowledge of black arts, or the Indian blood that flowed in her veins.
"I tell you what. boys." said A1 Hopkins, in a low
oice. "I wouldn't want that 'beware' to mean me. It sent the cold shivers down my back just to hear it. These old medicine Indians have more to do with such
things than folks think."."

Barker. "It's all humbug, except the listening; that"s
fine. I like such stories. Ford's bridge, or benches night? Al made an alme wh go.
head toward a third boy whorceptible motion with his
Sid laughed. "Oh, Phil Brown's near them,
"He won't go with us, of Brown's all right," he said. then, he wont talk. I'd as soon Phil would hear plans tries to onead of ofrn fellows, for hever tells. I dare him to try it. Eh,' Phil?,' looking over his
"Is it Mrs. Ford's chestnuts you are talking about?" asked Phil. "If it is, you fellows ought to be ashamed yourselves. You know the old lady was in town to brought the chestnuts down in showers. She hasn' had time to pick them up yet

That's what we're counting on," said Sid, coolly.
But look here. fellows." cried Pliil. "Mrs. Ford depends on those four trees for her winter clothing and wood-why, they're almost all her living. They're he only chestnut-trees near here, and bear big crops price, and you fellows don't need them."
"Oh, yes, we do-about two or three bushels of hem, laughed Sid. And just think what fun it will fellow can scoop up a double handful at a time. Well Al, just as soon as it gets dark, remember; and we'll that littley of the river, under the bridge, and up of any one coming that way. I'll have my boat at the anding; come there" Then to Phil, he said, mockingly, "Don't it make you want to join?"
Phil watched the two boys until they disappeared ne toward the village. the other in the direction of his father's farm across the fields; then he, too, started oward home. But beiore he reached there the look of perplexity and concern had left his face, and in its place was an expression which seemed
Al Hopkins and Sid Barker were the two bad boys of the neighborhood; thoughtlessly bad, perhaps, but nevertheless doing a great deal of mischief, and even but more often were let off with a reprimand. They were good-natured. obliging, and even ready to go considerably out of their way to do a good turn; so these virtues were usually allowed to cover the multitude of their shortcomings. As they pulled away from the landing in the gathering darkness, a man who saw them shook his head disapprovingly. Ap parently they were going out on the river hem toss into the boat indicated that something beides fish was in their thoughts.
For twenty minutes or so the boys pulled sturdily. leaving a long trail of outcurving ripples in their wake, slowly and as silently as possible. In front of them was Ford's benches, a long, roughly made foot-bridge which crossed the river. Beyond this the right. shore ounded out, and was covered with tall trees and a path spoken of by Sid led directly to the chestnut-trees $s$ youl now. Al. St's don't talk. We'll be there in a few minutes now.
On they went, very slowly and cautiously and silently, and nearer and nearer came the shadowy outky, and now and then a shaft skurrying across the through them and rested for a few moments upon the water and the boat. Presently. as the bridge drew nearer. Al turned to see where to guide his boat. At
the same moment came a'deep, sepulchral groan. Al sprang to his feet. bridge ghost! And there's the crossed light beneath bridge ghost! And there's the
-the bridge shadow, you know.
Sid rose quickly, gave one look, and then sank upon the stern seat, his face to the bridge. His oar slipped all humbug." he tried to say; but his voice was scarcely audible, and his eves were full of horror at the awful thing which seemed to be looking down at them from the bridge. In the semi-darkness it was vague and shadowy, but against the background of foliage it
seemed ten, fifteen, twenty feet high-they were too startled and confused to judge. Again came the deep ollow groan

Al caught up the remaining oar, and flung its blade nto the water. and Sid made no protest. How they reached home the boys never quite
thing they didn't care to talk about.

A few days later they were at Phil Brown's house they had made the rounds of the place, and were standing in front of a shed that was his particular workshop." "Did you get many?"
, evasively; "we didn't really around throught night, and then we went by land up before we got there
day, and helped Mrs. Ford pick them up. We got five bushels of beautiful big brown fellows.'
"Oh, say': we haven't been in your workshop yet," exclaimed "Sid, as though desirous of changing the subject. "What are you tinkering on now?"" all of us go into t,
But he was too late. Sid had already opened the shed door and glanced in. Almost instantly he closed . however, and flashed a peculiar glance at Phil. He Orer the end of the pole a hat slouched, and on one of the arms of the crosspiece hung a ong linen coat. "Do you believe in ghosts, Phil?" he asked presently, in what was meant to be a careless,"
ghosts as old Meg tells us about, I mean."
"Well, no; I can't say I do," Phil answered
Neither do I" said Sid, emphatically. "They're

## Breaking the Jam

By FRANK T. MANN

IWILL do it!" Tom Harding turned from the
saloon door, where he stood hesitating saloon door, where he stood hesitating, and
a look of resolution, that visited his blue eyes a look of resolution, that visited his blue eyes
only at rare intervals, mingled with the misery only at rare intervals, ingeld wim to his teeth
in them. "When a man's wife tells hine, and that she
that he is a shiftless, drunken creature, that he is a sliftless, drunken creature, and that she it, that man has little to live for and nothing to lose.
Anyway, I shall accept Squire Johnson's offer, let Anyway, I sha
come what may

He reached into the pocket of his faded, threadbare coat, and drew forth a crumpled sleet of paper.
Slowly, for the fifth time, he went over the words Slowly, for the fifth time, he went over the wor
printed in large, flaring letters, the ink not yet dry:

ONE THOUSAND DOLLARS REWARD
To the person who will break the jam collecting in Au Sable River two miles above Curtis before damage is done to the lumber-mills at that
point I will pay one thousand dollars. All risk of point I will pay one thousand dollars. All risks of
life and limb to be borne by the one undertaking life and limb to be borne by the one un
the work.
W. L. Johnson

> President Curtis Lumber Company.

Thrusting the paper into his pocket, Tom strode hurriedly down the sloppy sidewalk, and in a few minutes stood before the large brick building which
contained President Johnson's office. A wave of indecision swept across his face as he scraped the mud
and snow from his well-worn shoes. It was a perilous and snow from his well-worn shoes. It was a perilous undertaking, and none knew the danger of it better
than he. Then the recollection of his wife's bitter words returned with full force, and he hesitated no, longer. "Maggie is a good woman in most things,"
he said to himself, and the blue eyes glistened, "and he said to himself, and the blue eyes glistened, "and
maybe I haven't done by her what I might. For her sake and the baby's I'll try it."
"Wenl, Tom, my man, you will undertake to cut the
am and save the mills?" said President Johnson a jam and save the mills? said President Johnson a
moment later, as Tom, hat in hand, stood before his moment later, as Tom, hat in hand, stood before his
desk. "Do you know that it is a dangerous piece of work? There is probably not another man in Alcona County who would run the risk for twice the sum
named. Indeed, it was not so much with the hope of saving the mills as it was a formality to secure our insurance rights that the reward was offered. However, if your mind is made up it is not my place to
dissuade you. If you are successful the money is dissuade you. If you are successful the money is
yours, and I will add another hundred from my own private purse."
id to Mag-my wife?" paid to Mag-my wife?"
"If the jam is broken

William Johnson was a kind-hearted man, and as he watched the big, childish lumberman move toward the door a suspicious film burred his vision for a mo-
ment, and there was just the least huskiness in his tones as he bade him God-speed.
"Poor fellow," he murmured, as he turned to his and he is in a great measure responsible for his own misfortunes, , but I should greatly regret if any evil were to befall him at this work.

In the smaller of the two scantily furnished apartments that constituted their home, Margaret Harding
busied herself in the preparation of dinner. Glancing busied herself in the preparation of dinner. Glancing
at the cracked porcelain clock on the mantel, she quit her work for the twelfth time, and going to the door, hooked uneasily down the long, muddy street. It was
deserted save for one solitary figure that came bounddeserted save for one solitary, figure that came bound-
ing along as fast as his short legs could carry him, deserted save for one solitary figure hat cand carry him, regardless alike of the slush of mud and snow beneath
his feet and the gusts of wind and rain which came near his feet and the gusts of win
upsetting him at intervals.
"Say, you hearn?", he gasped, as he dashed up to
where Margaret stood. where Margaret stood.
heard what?"
"About Tom. He's undetok to cut above the mill, an' mos' ever'body says he'll be killed. Sposed you knew about it." And swelling over the importance of his message, the thoughtless urchin gal-
loped on his way. For a minute or more Margaret stood looking
F blankly across the street through the dashing rain.
Every bitter word she had uttered that morning recurred to her mind in all its cruel strength, and seemed to burn itself in on her very sooul in great red letters of fire. The look, half of anger, half of sad reproach,
with which he had turned from her and kissed the with which he had turned from her and kissed the
baby sleeping quietly in its crib-every incident of their quarrel returned with a significance magnified a thou-

I called him worth dry eyes and pale trembling drunken, "and she said, with dry eyes and pale, trembling lips, "and he is neither.
Poor Tom! Thuogh he does drink sometimes, it is
through discouragement and disanpointent, through discouragement and disappointment at his could recall my words! But is it too late? I may save him yet."

The Curtis Lumber Company's mills stood on the level bottom adjacent to the river and about one
hundred yards from it. Half a mile above the mills the railroad crossed the river over a long iron bridge, and from a point just below the southern end of the bridge an artificial ditch had been cut to float the logs into the mill at high water. It was this bridge and the
ditch that were responsible for the trouble which now ditch that
prevailed.
Au Sable River was a roaring, booming, yellow,
flood. All day the great sawlogs, broken from their mood. All day the great sawlogs, broken from their But now immense pine-trees, torn up by their roots,
were borne upon the bosom of the raging torrent. One two middle piers of the bridge, and formed the nucleus of a rapidly growing mass of timber and debris, the
long stems of the great pines writhing and rolling tolong stems of the great pines writhing and rolling to-
gether like the hideous forms of gigantic serpents. gether like the hideous forms of gigantic serpents.
Not only was the bridge threatened with momentary destruction, but the dam thus formed caught the waters up and hurled them and their ponderous arma-
ture down the ditch and against the mills below, with ture down the ditch and against the mills below, with
a violence that mist soon accomplish their destruction.
violence that must soon accomplish ther doustruction. the straining, tumbling mass, restore the raging waters to their natural channel, and save the bridge and the mills. But woe to him who cut it.
When Tom Harding ax in
When Tom Harding, ax in hand, stepped upon the bridge and started on his mission, not one of the
group who stood looking on in breathless sitence but group who sto fithe was witnessing a tragedy.
"The mar is committing sheer, do
id an old lumberman who had spentight suicide, orest and on the river. "It oughtn't to be allowed." But Tom had already reached the middle of the long structure, and was feeling his way down over the tumbling, grinding pile as only a lumberman can. Now he stood with careful footing upon the huge pine stem,
bending under the awful strain, and now he plied his bending under the awful strain, and now he plied his
ax with telling vigor, making the chips fly at each ax with telling vigor, making the chips fly at each
powerful stroke. To an eye not cognizant of his terpowerful stroke. To an eye not cognizant of his ter-
rible danger the sturdy lumberman might have been rible danger the sturdy lumberman might have been
following his daily vocation for anything in his look following his daily vocation for anyth
or manner that denoted the contrary.
But the woman, wild-eyed and panting, with hair disheveled who just now in rain-soaked tresses down realized his danger, and a piercing shriek mingled with the roar of the waters.
"Oh, Tom, dear Tom, come back to me! Forgive my cruel words. and come back-for baby's sake and
mine!" and she held the little, wet, shivering thing up full view of its parent out on the river.
He heard not her words
ery feeling vanished berds, but he saw his child, and and looked at the towering mass above him, and for a moment those on shore hoped he might escape. But the next! A terrible grinding crash, as the great tree parted, an awful, muffled roar, and for a single instant He kissed his hand once, and above the din came the He kissed his hand once, and above the din came the, words, "It was for you, Maggie; you and the baby," rushing swirl of waters.
Half an hour later searchers found a limp, unconscious body suspended to the branches of a tree where it had been left by the now receding waters. It was at first thought that the man was dead, but closer examination revealed the fact that he breathed, and a liberal draught from a lumberman's flask forced down
his throat partly restored, him to consciousness. That his throat partly restored, him to consciousness. That
night Tom Harding was carried home to his wife, ternight Tom Harding was carried home to his wife, ter-
ribly maimed and bruised, it is true, but still alive. Under her tender and happy ministrations he finally Under her tender and happy ministrations he finady lesson that will last him all his life. To-day not a happier trio lives than Tom and Margaret and their baby.

## His Spanish Sweetheart by WILLIAM FORSTER BROWN

THiE curtain fell on the first act of the opera, shutting out Calve's daring, defiant face as she
mocked the baffled soldiers swarming about the steps below her, and Storer Edgarton made, his Steps below her, and Storer Edgarton made, his
way slowly into the foyer of the theater, a dumb ache at his heart tha
Well he knew that fair country "down near the walls of Seville," of which the great prima donna had been singing, for under its sunny sky he had lost his heart forever at the touch of a real Carmen's lips-
dearer still, in'spite of the silent years that had drifted dearer still, in spite of the silent years that had drifted
between them, than any woman's could be to him between them, than any woman's could be to him
again. Where was she to-night? he wondered; his Carmen-Carmencita. Dead, or had she forgotten? throng of promenaders all around him, Edgarton's throng of promenaders all around him, Edgarton's memory, and once again he stood under the sunny skies of old Spain, light hearted and fanc
to the brim with the healthy joy of living.
Out of the past rose a vision of a narrow foreign treet, down which came dashing a pair of unmanageable horses, mad with terror, and in the light carriage
behind them two white-faced, helpless women. He behind them two white-faced, helpless women. He heard again the shouts of fear and warning from the bystanders, felt his muscles, hardened by many a bat-
tle on the gridiron at Yale, instinctively set with the tle on the gridiron at Yale, instinctively set with the
tension of steel as he dashed forward, swerving the tension of steel as he dashed forward, swerving the
runaways by the merest fraction from the great stone fountain in San Marco Plaza. Then, dusty and bruised, but triumphant, he looked for the first time into Carmen's glorious eyes, disclaiming in confused and broken Spanish "Ihe praise and gratituce her ador-
able lips gave him. "It is nothing," he had said, blushing like the veriest boy under the thrall of those incomparable dark eyes. "I am glad to have been of service to the Señorita. Will you trust the coachman (who had limped up to the group) to drive again?"'
In the evening Don Rapheal Gonsalvo-the father of the girl he had rescued-had called at Edgarton's hotel, and in voluble Castilian thanked him for the service done the house of Gonsalvo, inviting him to
dine at his residence the next day. The young American had accepted promptly, a curious, undefined feeling of joy thrilling his heart as he thought of looking again into the eyes that had haunted him all day.
Ah, well! Fate had pitilessly rung down the curbrief moments on a moon-lit balcony; a sudden, swift, passionate avowal of the love that had mastered his
whole being; a whispered word and a shy caress in
answer, and then-was it a week, a montli? Time is as naucht to those who dwell in Arcady-the war came, blighting Edgarton's promise of the future like the touch of Azrael's wing.
Don Rapheal had said, proudly, as he bade Edgarton a courteous farewell at the railway-station, "between a daughter of Spain-the sister of an officer in the royal navy-and one who owes allegiance to the flag
of the United States. The price to be paid for the shattered wreck lying in Havana harbor forbids it." A tear-stained note of undying love and farewell,
worn almost to illegibility on the voyage homeward, was the only token left to Edgarton of his short omance. After that had come the silence. Even discover or wealth follow had revealed to Edgarton the whereabouts of his lost love. Carmen's sailorbrother had lain dead on the "Vizcaya's" deck at Santiago, and the old Don. broken-hearted, had followed
his boy. So much Edgarton discovered. Of the daughter there was no trace.

A burst of melody from the orchestra brought Edgarton back from the land of dreams, as all at once a hand fell on his shoulder, and a rimar voice vibrated in his ears. "Edgarton, old chap, you re the very man
'm looking for. What luck to find your in all this rowd. I want you to join our supper-party after the opera. The mater, a young lady from Mexico-she's the niece of my governor's business agent in San Jose box there goes the curtain. Come on over to our you'll go."
After a feeble remonstrance, Edgarton followed his friend obediently into the semi-gloom of the box." "I suppose I may as well," he thought to himself. "The
way I feel to-night, I don't much care what I do. Nothing matters."

Helen Edgarton nodded at her brother's entrance, and Mrs. Creighton extended her hand in a cordia greeting. "Good-evening, Storer," she said, smiling. quainted with a young friend of mine. Miss Gonsalvo -Mr. Storer Edgarton. You two should get on"" she laughed, tapping Storer's arm with her fan. "Miss Gonsalvo is a native of Spain. and you spent two or three years there, didn't you? Let me hear you say how d' do' to each other in pure Castilian.
Edgarton, staring at the face that had risen from the darkness at the back of the box, reeled suddenly
like a man who feels the ground slipping beneath his feet, and then, unheeding timc. place an 1 the wondering glances of the people about him, he opened his arms, with a ? , great cry of incredulous joy, Carmen! My Carmen. With a on his shoulder, 'her lips pouring forth
tences of love and 'unspeakable happiness.
"Tell me, dearest one, do you love me still?" whispered Edgarton, tensely; while Creighton, rising suddenly to the orcasion, interposed his broad shoulders "etween them and the front," the box.
"Hush, my adored one," answered the girl, softly.

From the stage floated up to them the matchless perfection of Calve's voice, singing to her mimic lover, Don Jose,
"Over the mountain and over the lea
I will share thy saddle with thee-"
"That is my answer," said the real Carmen, with a little sigh of content.

## THE SLEEPY SONG

As soon as the fire burns red and low, And the house up-stairs is still. She sings me a queer little sleepy song

The good little sheep run quick and soft Their colors are gray and white;
They follow their leader nose to tail, They follow their leader nose to tail,
For they must be home by night.

And one slips over and one comes next, And one runs after behind, The gray one nose at the white one's tail,
The top of the hill they find. And when they get to the top of the hill They quietly slip away, But one runs over and one comes next-

And over they go, and over they go, And over hey go, and over the top of the hill,
And over the the The good little sheep run thick and fast,
And the house up-stairs is still.

And one slips over and one comes next, The good little, gray little sheep!
I watch how the fire burns red and low, I watch how the fire burns red an
And she says that I fall asleep. -Josephine Dodge Daskam, in McClure's.

## MOTHER-LAND

Oh, Mother-land, we love thee,
Around thy knees we cling; And of thy grace in many a place Thy happy children sing.
Thy banner floating o'er us.
In hues of heaven's own lig In all our coasts shall marshall hosts
For liberty and right.

From fort and fleet outstreaming That flag of thine shall be,
Oh, Mother-land, o'er every strand, The symbol of the free. God guard thee evermore,
From pine to palm, in storm or calm, From pine to palm, in storm or calm,
From ocean shore to shore.

## New People's Atlas OF THE WORLD

NEVER before in the history of the publishing business has there been attempted anything in the form of a popular atlas that would compare with this. It is in a class by itself. It is very copiously illustrated with elegant half-tone pictures carefully selected from every state of the Union and from all parts of the world.


THREE BROTHERS AND MIRROR LAKE, YOSEMITE

## 155 PAGES EACH RAGE II 14 INCHES

More Than 300 Maps and Illustrations 1900 Census
It contains Up-to-Date Maps, War, State and City Maps, Foreign Maps, Canadian Maps, Single-Page Maps, DoublePage Maps, Scores of Illustrations Elegantly Engraved, Plainly Printed and Substantially Bound, 1900 United States Census, State Seals and Areas, Rivers and Bays, Boundaries, Mineralogy, Climate, Soil, Agriculture, Manufactures, Railroads, Education, and History of all the States.

## UP TO DATE = EDUCATIONAL =CHEAP

The People's Atlas gives a general description of the physical features of the world, as form, density, temperature, motion, climatic conditions; distribution of land and water; races of people and their religions; also the most complete list of nations ever published, giving geographical location, area, population and forms of government. All countries and all the principal cities of the earth are shown. The maps in this atlas are up to date, having been thoroughly revised according to the latest surveys. They are skilfully engraved and finely printed. Order as No. 12.
GIVEN FOR SENDING TWO YEARLY SUBSCRIP. TIONS TO THE FARM AND FIRESIDE
Or We Will Send the Farm and Fireside One Year and the Atlas for 60 Cents
all postage paid by us
Address FARM AND FIRESIDE, Springfield, Ohio

| The Young People |
| :---: | - (incus Ridden

"Pa. I want some lemonade!"
"Pa, I want some candy!
"Pa. what sthat the man just said?"
Pa. In awful dry: aren't you?"
Pa . I've dropped iny hat down through
$\because \mathrm{Pa}$, when are the races?"
Pa, mhen are the races.
Gorged with peanuts pa
Satisfied-no, never;
Turning sundry faces pale
By some rash endeavor Sticky-fingered; backward not Here and there to jerk us:
Four times lost: excited; hot: Four times lost: excited;
Johnny sees the circus.

Puzzled rooster, dog and cat
Cooped in narrow cages.
Peering out through wooden slat,
In the worst of rages
Cossack 'neath the cherry-trees,
Upside down from a trapeze
Señor Acrobatic;
Tumbling (not "as advertised" Nose the special feature!) Clothes-line as a slack-wire prized Bridget wild, poor creature! Sly attempts to work us
For ten pins admission fee-
Johnny's seen the circus!


HOW TWO CONNECTICUT BOYS CHANGED A COUNTY

ASTORY which interested me was one I heard at Brunswick, Ga., which drawling native from the interior cold as illustrative of the aggresdisturb the peacefulness of the neighborhood. When he finished, however, I felt that I would like to cross the intervening fifty miles of pine woods and shake hands with the two Connecticut boys who had done so much.
His county was in the pine belt, and was supposed to be capable of raising nothing but tar, pitch and turpentine. Nearly all the land was owned by large companies, and when the pine-trees were
exhausted the land could be bought for exhausted the land could be bought cre from'fifty cents to three dollars an acre. said, "the land wa'n't wuth nothing." The said, "the land wa'n't wuth nothing. The tle for the "company," went hunting and fishing a little, and sat on their cabin steps and smoked more; the women for the most part chewed snuff.
It was among these people that the Connecticut boys came, buying as much of the cheap land as they could for the few dollars they had brought with them. They went pluckily to work clearing land, and as they could get to it, began to set peach-trees. The whole neighborhood hooted in derision, and yet in a way secretly rejoiced. They had declared the land was too "pore" to grow anything but pine-trees, a least attention. Now it would serve them right to lose their money and labor.
But the "foolish outsiders" kept imper turbably on. They had been used to fruitgrowing at home, and had very practical ments. They cleared more land and set more trees, doing as much work in a week as the ordinary able-bodied natives had been'accustomed to in several months. And this incomprehensible persistence in work brought upon them more neighborhood suspicion. People who did like that, and who did not take time to go possum-hunting,
any possibility be all right.
any possibility be all right.
iders got as many of them and the outsiders got as many of them as they could,
and planted for future trees. And still they kept clearing
Meanwhile the first trees planted grew and throve amazingly, to the wonder and almost consternation of the neighborhood. The third year there was a good crop of luscious peaches, and the young
men began to ship North, investing all the proceeds in more land and clearing and trees.
Now these two own more land in the county than any other persons outside the great companies; they have severa are shipping North almost by the train-
load; they own a store and many houses in which live the help they now employ and more than all this, the whole county and has planted peach orchards by the and has planted peach orchards by the thousand. Already the county is earning wide reputation as a fruit-growing country, and all because the pluck of two discerning outsiders was strong and steady enough to withstand the loudly expressed belief of a whole county. $S$.

## A MONSTER GUN

A big gun has just been completed and placed in position at Sandy Hook-made four years to make it. With. It took sand years to make it. With one thou-twenty-one miles powder it will send twenty-three hundred and seventypounds, and it is calculated that the projectile when fired will be able to go through twenty-seden inches of steel at a distance of two miles. Each time the gun is fired it will cost eight hundred and sixty-five dollars. Making, transporting and placing it in position at Sandy Hook cost one hundred and fifty-five thousand four hundred dollars. The Chicago "Tribune" has this to say of it:
"If the big gun survives the first discharge and satisfies the expectations of the builders and the government, probfrom that will be the last that will be heard rom it. It will slumber on for years as sibilities within its huge destructive possmallest bird that flies may light upon it with impunity. It will look out over the sea and keep faithful watch and ward for the approach of the country's enemies, who probably never will come within its radius of action; but if they come at all they will seek a safer and more secluded spot. Conceding that this sixteen-inch gun represents the highest standard of the gunmakers skill thus far reached, and that with its companions yet to be constructed our coasts will be secure from invasion, it is still to be hoped that time may not come when they are called into reatly diminish the their presence will Theatly diminish the prospect of their use. are peacemakers, and the adures, they 'peace and good-will toward men' have no occasion to be distressed because the government has spent such a large sum for the giant gun."-Men of To-morrow.

## A SMALL MATTER

One day grandma was holding the baby, who opened his mouth, showing her a tooth.
live mana, come here! As sure as I'm alve, baby's got a tooth!" exclaimed grandma.
Tommy, aged four, was playing with some books. He looked up, and said, Look here. I've got three-four dozen." Look here. Ive got
-Little Chronicle.

## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. It Will Sharpen Your Wits, Quicken the Intellect, Afford Healthful Recreation, and Give Innocent Amusement and Entertainment
Residents of Springfield, ohio, are not allowed to enter the contests.

## THE POPULAR-MAGAZINE PUZZLE

Here are Six Pictures, Each Representing the Name of a Popular Magazine. The First is "Sporting Life." Can You Name the Others?

We Offer Eight Dollars Cash in Four Prizes, as follows: Two Dollars to the First Boy from Whom we Receive a Correct List; Two Dollars to the First Girl from Whom we Receive a Correct List; Two Dollars to the First Man from Whom we Receive a Correct List, and Two Dollars to the First Woman from Whom we Receive a Correct List. Contestants Must State their Ages, and Answers Must be Received Before August ist

## ALSO A PRIZE FOR EACH STATE AND TERRITORY

As further rewards for our great family of readers, a copy of Picturesque Philippines" will be given for the first correct list of answers received from each state and territory. This means a book for each of the forty-five states, one for each erritory; and one for the District of Columbia, also one for Canada. The first correct list from each state wins a prize,
giving an equal opportunity to all our readers wherever they are located. In the states where the cash prizes are awarded the prize book will be given to the person sending the second correct list, so that one person will not receive two prizes. Answers must be addressed to the "Puzzle Editor," Farm and Fireside, Springfield, Ohio.


ONE


FOUR


TWO


FIVE

Colorado-Mrs. Carrie Hoch, Yuma Delaware-William Fairley; Milford. District of Columbia-James T. Holt, Washington. Florida-Woodward W. Day, Pensacola.
Georgia-W. L. Wright, Powder Springs. Georgia-W. L. Wright, Powder Springs. Illinois-Hugh O'Heir, Chicago. Indiana-Miss Anna Ryan, Anderson Indian Territory-Aaron C., Parrott, Checotah Iowa-Louise Kocher, Marion.
Kansas-Mrs. L. J. Frey, Elk Louisiana-Charles Lantz, Welsh Maine-Miss Eva Proulx, Biddeford. Massachusetts-Miss Florence M. Horton, Brocton. Michigan-Adelaide Charbouoreau, Detroit.
Mininesota-Harriet E. Oliver, Le Sueur. Minnesota-Harriet E. Oliver, Le Sueur
Missouri-E. Montana-Mrs. A. L. Sheperd, East Helena. Mississippi-Miss Elha Jarmanl,Carrollton.
Nebraska-Miss Ester Nebraska-Miss Esther Bong. Havelock.. Nevada-Mrs. Lucy Payne, Els:
New Hamphire-Grace Noyes,


THREE


SIX

New Jersey-Mirs. Sara M. Yale, Lakewood. New Mexico-Mrs. Louisa K. Watrous, La New York-Harold Fancher, Baldwinsville. North Carolina-Eula Anthony, Vandalia. North Dakota-W. E. Parsons, Page. Oregon-Ada Looff, Milton.
Oklahoma-Helen J. Kyger, Blackwell Pennsylvania-William A.Weisel, Jr.,Philadelphia Rhode Island-William E. Martin, Westerly.
South Carolina-Mrs, M. J. Whisonant, Wil ville. South Dakota-Oral R. Jameson, V
Tennessee-Nell Stephens, Haley. Texas-Mrs. D. M. Wilson, Kemp. Utah-Miss Ovena Jorgensen, Nephi City. Virginia-Mrs. J. C. Townes, Mount Olive. Washington-Elsie J. Matterson, North Yakim West Virginia-Miss Ida Shannon, Cairo. Wisconsin-S. E. Beebe, Racine.
Wyoming-Mrs. R. S. Cox, Cody,

## Selections

## CONTENTMENT

Little I ask; my wants are few; I only wish a hut of stone (A very plain brownstone will do) And close at hand is such a one In yondef street that fronts the sun

Plain food is quite enotgh for me; Three courses are as good as ten; If Nature can subsist on three, Thank heaven for three. Amen! I always thought cold victuals niceMy choice would be vanilla ice.
I care not "much for gold or land; Give me a mortgage here and there,
Some good bank-stock, Some good bank-stock, some note of Or trifling
I only ask that fortume send A little more than I shall spend.

Honors are but silly toys, I know, And titles are but empty names; I would, perliaps, be PlentipoBut only near St. James; I'm very sure I would not care

Jewels are baubles; 'tis a sin To care for such unfruitful things; One good-sized diamond in a pin, Some, not so large, in rings A ruby, and a pearl or so,
Will do for me-I laugh at show.

My dame should dress in cheap attire My dame should dress in cheap attire
(Good, heavy silks are never dear); I own, perhaps, I might desire Some shawls of true cashmere Some narrowy crapes of China silk Like wrinkled skins on scalded milk.

I would not have the horse I drive So fast that folks must stop and stare An easy gait-two forty-five-
Suits me; I do not care-
Perhaps, for just a single spurt Some seconds less would do no hurt.

Of pictures I should like to own Titians and Raphaels three-or fourI love so much their style and tone(A landscape-foreground golde The sunshine painted with a squirt)

Of books but few-some fifty score For daily use, and bound for wear; The rest upon an upper floorSome little luxury there Of red morocco's gilded gleam, And vellum rich as country cream.
Busts, cameos, gems-such things as these Which others often show for pride, I value for their power to please, One Stradivarius. I confes
Two meerschatums I would fain possess.
Wealth's wasteful tricks I will not learn, Nor ape the glittering upstart fool; Shall not carved tables serve my turn, But all must be of buhl? Give grasping pomp its double careI ask but one recumbent chair.
Thus humbly let me live and die, Nor long for Midas' golden touch; If heaven more generous gifts deny, I shall not miss them muchOf simple tastes and mind content -Oliver Wendell Holmes.

A TUNNEL THAT HELPS TO DIG ITSELF In the new Simplon tunnel under the Alps, which will be by far the greatest tunnel in the world, having a length of fourteen miles, and which, it is now re-
ported, will be completed in July, igos, the quantity of water flowing out of the southern end, from the many veins encountered in the heart of the mountain, amounts to finteen thousand gallons a minute, and furnishes sufficient power to worked, and to refrigerate the tunnel. The necessity of refrigeration may be udged from the fact that the heat in the deeper parts of the tunnel rises as high as one hundred and forty degrees Fahrenheit when not artificially reduced. Life would be impossible in the tunnel if a successful system of refrigeration had not been devised. When a continuous hole through the mountain has been made, the temperature can more easily be kept
down.-Youth's Companion.

In ourselves the sunshine dwells,
From ourselves the music swells;
With sweet or bitter daily bread.

## RHELMATISM

Cured by
External Application Draws out acid Poisons through the arge pores of the feet. Summer s the best time to rid the system of Rheumatism
Michigan's great discovery for the re= lief of pain sent FREE on approval
to everybody. You try it If you have rheumatic pains any time during the the cause, for your pores open nuuch wider, and
therefore the expulsion of foreign matter becomes much easier. Further, the fruit seasou usually fills
one who has rheumatic tendencies with acids, which cause serious trouble later on. Now, then, you
must expel these acids. Send for a free trial pair
of of Magic Foot Drafts on approval. If you are satis
fied with the good they do fied with the good they do you, then
for them. If not, keep your money.
 Many thousands of lefters of praise have been
written by cured men and women who had faith or
curiosity enough to try these Drafts. Don't be in credulous. The only logical way to cure rheuma-
tism without taking injurious medicines is to draw out the poisons. Magic Foot Drafts will do this-
they have done it for hundreds of thousands o
heal people-why not for you? Booklet and Drafts
sent promptly. upon receipt of your name by the
MAGIC. FOOT DRAFT CO. 75o-B Oliver Build-
ing Jackson, Mich. Write to-das. ing, Jackson, Mic
GRAY H
WALUNA

HAIR RESTORED ". WALNUTTA" HAIR STAIN
ig prepared fromthe juice of the Philip-
pine Siland mainut, and restores Gray,


 $\frac{\text { PACific Traina }}{\text { BIG PAYING BUSINESS }}$




## PROTO BROOCHES 10 c.




CORONA JFG Coweiry, noveties. Agents wanted.
BRONGOIT A Remedy for Goitre, or Big Neck Yonr family doctor will indorse its merits. Big neck
disfigures and is unsightly; causes hoarseness, an asthna-like collsh and shortuess of breath. Goitre
can be cured in a few
"Brouths 'treatment by taking struetions. Send name and stamped envelope, and
you will be mailed information of interest. Address Brongoit Remedy Co., Lock Box 612, Dayton,0hio EYE BOOK FREE!

Thought We Wish to Suggest. Are You soaking an Invostmont?
Aro You seokng a Now Home? Try the GREAT SOUTHWEST.

Hay Fever and Asthma


TAPE-WORM Emany BED-WETTIMG $A$

1 anficted with
waik crea, use
use Thompson's Eye Water

## Wit and Humor

## AN ESCAPE

WLIE-" ${ }^{\text {Say, }}$ that boy sliding downhill with me this morning
got run over and killed. I'm got run over and killed. I'm lickin' I'd have got!'-Smart Set.

## A DIRE AND DARK THREAT

"Melindy Johnsing," sighed the amorous swain, "am you gwine ter marry me?"'
iphalet Snowball," whispered the kusk charmer, deed 1 jes doesn't


Gawge Washumton White, who suttinly hab bin pesticatin' me wid, his love in a "Hahtless woman!" hissed Eliphalet nowball. "You am de mos' owdacious y flirtatious female in Souf Ca'lina Listen! Ef you p'sists in 'fusin' me I am gwine ter seek a separashun f'um de
trials an' tribbylashuns ob dis world-I trials an'," tribbylashuns ob dis world-I sho' whill."
"Whut'11 you do, Mistah Snowball?"
"Whut'll I do? W'y, woman, I'll je go an' git de job ob pos'mastehin fo' dis

THE PLAN WAS SUCCESSFUL
There are many ways of fixing a misdemeanor upon the person who has comlawyers, and not clergymen, are the men awyers, and not clergymen, are the men
most competent for this practice but the following story leaves one feeling that the honors may be equal:
"Last Sunday," said the clergyman to his congregation, "some one put a button in the collection-basket. I wont only one individual in the congregation could have done so, and after the ser-
vice I shall expect the same member to replace the button with a coin."
After church a well-to-do but closefistec indidual sought an interview with the clergyman in the vestry. ir, for the be began. "must apologize, sir, for the-er-button, which, I can
assure you, was quite an accident. I assure you, was quite an accident. I
happened to have the button in my coathappened to have the button in my coat-
pocket, to gether with a quarter, and took pocket, together with a quarter, and took
out the former by mistake. However, sir, here is the ,quarter." "Thank you," said the clergyman, taking the quarter, and gravely handing him the button.
"By the way, sir," said the man. "I cannot understand how you could have
known that it was I who-er-committed the-er-much-to-be-regretted mistake." "I didn't know," replied the clergyman. "Didn't know! But you said, sir, that only one individual in the congregation
could have done it."
"Just so "Just so. You see. sir, it is scarcely
possible that two individuals could have put one button in the basket; is it, now?", a sked the clergyman, with a bland smile. It was so much easier for the button-
contributor to say "good-day" than to answer this puzzling question that he made his bow at once.-Western Chrisian Advocate.

## STATE PRIDE THRILLS

Secretary Shaw tells a story that illustrates the state pride that thrills the average citizen. Several traveling-men
gathered in a liotel, and they fell to discussing their respective habitats
"I am from the , greatest commori"I am from the center of the of them. the headquarters of the moneyed inthe greatest aggregations of capital the
world has ever known. I am from the state that rules the rest of the country
and furnishes the brains of the United tates. Without it the United States
vould pale into insignificance. I am from
the empire sovereignty, the great state of New York. Where are you from? I am from the greatest state in the "New Y, replied the person addressed
York is all right in its way, but it doesn't weigh much without my state to give it being. New York would not be on the map without the means my state gives to keep it going, the actual bone and sinew of business, the plain, hard material for its capitalistic enterprises and the fuel for running the industries it dominates. New York would not be a
grease-spot on the map if it were not
for the steel, iron and coal for the rail roads which my state furnishes. Nev be really great without the products o be really great without the products o
the great Keystone of, the Union. Pennsylvania. Where are you from?" he asked the next man.
"I am from the best commonwealth in the whole wide world," responded the third. "Pennsylvania is pretty good in some respects, and so is New York, but I am from the greatest section on the Lord's footstool. I am from the state that raises people that know how to do things, that furnishes more good Presaggregation. I am from the great state aggregation. I am from the great state
of Ohio. Where are you from?" he asked the next one.
"Well," replied the fourth traveler, "all three of you need not feel like apologizing for your domiciles, but they are not up to my state by a good long ways. None of your states could get along without food. The industries of the country would languish, every line of human endeavor would cease and the
world would be at a standstill and the world would be at a standstill and the
people thereof passed into a region be-

## down on the farm

When fiercely smites the brazen sky, And pavements parched and-scorching Tis then the country-side invokes Its pilgrimage of "city folks"

The locust through the golden days The firident hurdy-gurdy plays; Their firefies furnish through the nights The flo
Eclipse rs that deck the meado They re wholly free to all who No copper yells "Git off th' $g r a s s$ !"

The cows that 'mid the pastures walk Are fed on buttercups, not chalk! No gong they ring, but gently moo.
The milk they serve is white, not blue

Here winds 110 plodding caravan
With hail. "Fre-e-esh fish!" "Banan"
But hens strut forth on sturdy legs And kindly cackle, "Eggs! Fresh eggs NOT HIS LETTER

## Congressman Cannon was sympathiz

 ing with the woes of postmasters. "Why anybody would be a postmaster!" he exclaimed. "And yet there are Just of applicants. But why anybodyfrom my district out near a postmaster through the other day. "An Irishman came to this man, and asked if there, was a letter for him. 'and it's a big, fat letter, too. There's eleven cents due on it.n' 11 , says the Irishman, 'jus' open can read it me. will yez? Me ed"The letter was twenty pages long but the postmaster read it all through out loud.
'保 whe it ag'in,' says the Irishman, when he ended; and being obliging postmaster did so.
and said. 'How much is due
Eleven cents.'
her said the Irishman 'She don t belong to me.' And he walked

## GOT THE OYSTERS

A captain of a Massachusetts regiment the Civil in Washington at the time of good things thas patched one to his soldiers, a man name Bailey, to Alexandria to get some fresh
oysters, giving him instructions not to

had her guessing
Where is the cake I left on this table? Simply because the workers are the real spinal column of every enterprise, and the human mechanisms that operate great industries must have food. The States domain. and the entire world as vell, are dependent on the food-supplying resources of the earth. the pabulum from state that raises more grain to the square inch than any other spot on earth. and if it wasn't for my state the rest of the states would be practically nothing. II am asked the fifth man.
"I am from Arkansas." replied the last one of the party. whipping out a revolver
and pointing it threateningly toward the group. "and don't any one of you say a
return without them. The Washington
"Times" primts the story of his, return: A prints the story of his. return: into camp leading a train of four-horse wagons loaded with a train of four-hors. Approaching, and respectfully saluting the amazed captain, Bailey said, 'Here are your oysters, captain. Couldn't find any in and made a voyage to Fortress Monroe and Norfoll- for thenl. There are about two hundred bushels. Where do you
"Bailey did really make the trip, hired his men, and sold oysters enough in Georgetown before 'reporting' to pay all expenses and leave him a profit of about one hundred dollars. The two hundred bushels were divided among the memto his duty."-Youth's Companion.

## A Garment=Cutting System

THAT ANYBODY CAN USE

MANY THOUSANDS HAVE BEEN SOLD FOR \$5.00 EACH
BUT YOU CAN NOW OBTAIN IT FREE FREE


THE NEW LONDON GARMENT-CUTTING SYSTEM

It is equal to any $\$ 5.00$ system sold anywhere, and this same system has retailed the country over for $\$ 5.00$. Order to-day, and get it FREE. WHY WE DO IT Because we think it a very practical and
valuable article for every family. valuable article for every family.
Because it is certainly a premium which Because it is certainly a premium which
will be appreciated, as it is highly recom mended by people who are using it.
Because it is so simple Because it is so simple, and will enable a
mother and her daughters to draft cut mother and her daughters to draft, cut and
make their own garments, hence improve the make their own garments, hence improve tor
knowledge of sewing, which is a very impor tant part of their domestic education. Because nearly every fanily has a sewing-
machine, and not one in twenty has a system machine, and not one in twenty has a system
of cutting.

HOW CAN WE DO IT? This question will naturally be asked: "How
can you give a $\$ 5.00$ cutting-system free with can youl give a $\$ 5.0$ cutting-system free with-
so small a subscrition?
The answer is simply this: We consider the NEW NDE the most valuable premiums for family use
that we have ever offered. As a result we that we have ever offered. As a result we
have bought an enormous quantity direct have bought an enormous quantity direct
from the manuacturers at a price e enabling
us to pratically give them away us to practically yive them away.
This system is unique because This system is unique because of its sim-
plicity; popular because of the rapidity and accuracy with which a pattern may be drafted
by its use and should be in every household.

IS THIS NOT TRUE? If it were not for the expense of making,
you could have new garments oftener, could you not? If you could get for nothing a system where-
by you could avoid the cost of dressmaking by you could avoid the cost of dressmaking
and patterns, you would be interested, would you not?
If you could effect savings in the cost of clothing for yourself and children, you could use the money thus saved to good advantage,
could you not? If you wanted to learn and buy a system
might be hard to find one, might it not? might be hard to find one, miught it not? months as an apprentice-girl to obtain the
knowledge of drafting and cutting she can get by this system in a day? Very likely not. You will doubtless answer "yes" to all these
questions. We therefore call your attention to questions. We therefore call your at our NEW
the fact that if you get one
LONDON GARMENT-CUTTING SYS. TEMS it will enable you to do these things, and you can obtain one free of all charge by
accepting at once these grand offers.

We will send this valuable Garment=Cutting System, and the Farm and Fireside one year, to any address, post=paid, for only

60c. NOTE $\begin{aligned} & \text { If your own subscription is paid in advance now, and you accept this } \\ & \text { offer, it will simply date your paper ahead for another year. Write to-day. }\end{aligned}$
PREE We will send this Garment-Cutting System absolutely free and post-paid for a club of THREE yearly subscriptions to Farm and Fireside at the clubbing price of 35 c . each.

Address FARM AND FIRESIDE, Springfield, Ohio

## ENTIRELY NEW

The Twentieth Century Peerless Atlas and Pictorial Gazetteer of All Lands is up-
to-date. Two invalable reference works in one to-date. Awo ne fourth usual Atlas prices. Gives
and sells at one
Every Census from 1790 to 1900, also 1901 Crop and other statistics. Fí

## Agents Wanted

The Peerless Atlas is guaranteed the finest seller
on the market, enabliug agents to double the best on the market, enabliug agents to double the best
profits they ever made. Your success is certain. profits they ever made. Yaes, size 14 by 11 inches.
Contains 170 mammoth paga
340 Colored Maps and Magnificent Ilustrations.

For extra liberal terrns and tell-tale pamphlet
"Story of the Workers," address
THE CROWELL PUBLISHING CO.
Department of Agents, Springfield, Ohio

## Agents for any

## Repeating Air-Rifle Free

SHOOTS 300 TIMES WITH ONE LOADING

## A TRUE SHOOTER

THE IDEAL GUN FOR BOYS
Boys have use for it every minute-llunting in the woods, shooting at targets, drilling as soldiers, and
hundreds of uses that only boys know a bout. Harmless, stron, durabie, shoots accurately, and cultivates trueness of sight and evenness of nerve.
It is extremely simple in construction. Any child can operate it and become an expert niarksman with

Thives the boy healthfur pleasure, and lots of it for the money.
Air is plentiful, and shot costs but 10 cents for 1,000 . while darts can be shot over and over again.
 all parts are interciangeabie. These air-rifles are provided wistol-grip, true sights, and so strongly made that it is almost impossible for them to get out of orde.

## HOW TO GET IT

## 


You sell these coupons to your friends and neighbors at 20 cents each. They will gladly take
 Address FARM AND FIRESIDE, Springfield, Ohio

BOYS
A GOOD WATCH FOR A LITTLE OF YOUR TIME. . See Page 7 ILL MAKE YOU A PRESENT OF A CHAII Send us your name and address on
a postal, and say you want a watch. Address FARM AND FIRESIDE, Springfield, Ohio

6 Silver-Plated Teaspoons and Farm and Fireside the
mainder of this year, for only

## 60 cents

Or, Given FREE for THREE yearly subscriptions to the farm and fireside at 35 cents each


Nickel-Silver Base whe base of this nickel silver, which is white all the way through, positively will not change color It is the highest grade known, being full twenty-five-per-cent nickel
Coin-Silver Plate On top of this is plated the full STANDARD amount of pure coin-silver. This combination makes a ware which we guarantee to give satisfaction. Test it, and if not
found exactly as described, return it to us and we will refund the money.
Initial Letter Each spoon is engraved initial letter in Old English. Only one letter on a piece. Be sure to name the initial desired.
Pattern We have the spoons in two No. 14. You can make your choice of
pattern. Where no choice is named we will fill orders with our selection. We also reserve the privilege of substituting one pattern for the other if the supply in any particular initial is exhausted. We can thus fill all orders the same day they reach us. It is impossible to describe the beauty of these spoons, and the illustration falls far short of conveying a full
idea of their attractiveness. In finish they are perfect, and will render complete satisfaction.

## GUARANTEE

We absolutely guarantee every piece scribed and to give entire satisfaction or your money will be cheerfully refunded. We are sure it will please you.
(When this offer is accepted no cash commission
can be allowed, and the name cannot count
POSTAGE PAID BY US IN EACH CASE.

FARM AND FIRESIDE Springfield, Ohio

## Farm Selections

THE TOMATO AN INSECT-REPELLER I
 They had just commenced to bud
when invaded by the curculio (pulyon), happens, by ants. Hoving cut some to matoes, the idea occurred to me that
by placing some of the leaves around the by placing some of the leaves around the
trunks and branches of the peach-trees
and I might preserve them from the rays of surprise was great upon the following day to find the trees entirely free from their enemies, not one remaining, except her the tomato from exercising its influence These leaves I carefully unrolled, plac ing upon them fresh ones from the toma
to-vine, with the result of banishing the last insect and enabling the trees to grow with luxuriance. Wishing to carry
my experiment still further, I steeped sprinkled this infusion on other plants roses and oranges. In two days these were also free from the innumerable insects which covered them, and I felt sure that had I used the same means with my
melon-patch I should have met with the same result. I therefore deem it a duty
I owe to the Society of Horticulture to make known this singular and
$\overline{\text { NEWS-NOTES }}$
crops of corn. The first crop is gathered in August, the second in December. Both research and demonstration farms are necessary. The experiment-station
farm is very properly the one for research, while the demonstration farm is profitable than the old ones.

The first peaches picked in Georgia They were of the Snead variety. and shipment was made June 5th, and con sisted of the Greensboro variety.
To make the Farm and Fireside or any other agricultural paper of the great est benefit to the community, the sub-
scribers to them should encourage thos Agriculture is now a business, and one must keep posted to make it a success.
To preserve eggs for midsummer, fall ter-glass (silicate of soda) to each gallon in preparing the solution, but it must b
quite cold before the eggs are put in. The solution, and remain so until wanted the use. The shells of eggs preserved in made comparatively air-tight. If the
eggs are boiled in the shell. when they are heated the air within them expands and the shells are apt to burst. This may be prevented by piercing each egg with
needle before boiling.

Announcement of
Immigration Contest As stated in our last issue, July 1st, the
$\$ 5,000$ Immigration Contest closed June 25th, and the fiscal year ended June 30th.
The names of the prize-winners will be made known at the earliest possible moment, depending of course on the ernment to make its report. The ports Baltimore; Galveston, Texas; Key West, Miami and Tampa, Fla.; Boston
and New Bedford, Mass.; New London, Bedford, Mass, leans; Philadelphia; N land, Maine; Portland, Oreg.; Port
Townsend, Wash.; Providence, R. I.;
San Francisco; Honolulu, Sandwicl San Francisco; Honolulu, Sandwicl Canadian ports. From this you can some time to get the information from
distant points and compile it in the form of a report in proper condition to
send out. We believe that it will take the whole month of July' to accomplish this work, and you should not expect ontest much before the August 1st or

## Another "Rough Rider" Wins Out



Willie fUGATE is a twelve-year-old boy living in a town of line of the Saita Fe Railroad. He had a broncho, but had grown tired of riding "bareback" and wanted a saddle. He read of a boy in an Eastern town having made money by selling The Saturday Evening Post, and wrote for information. His neighbors did not the ten received. II Most of the trains stop at Willie's cown for water and he wandered down to the station "to see the train come in" When he saw a number of passengers step out of the train a thought struck him. Mounting a pile of ties, he announced in a loud voice ou won't have a chance to get any more reading nuatter fo
250 miles-you'd better get a copy of this week's SATURDAY Evening Post." In about two minutes he had sold the other eight copies and could have sold a dozell more. That night he During the next month he sold over 400 copies and one. During the next month he sold over 400 copies and bought "not verage of month won one of the cash prizes offered to the boys who do goon work.

Any Boy Can Earn Money seling tre post on Friday ftemonans and


Don't be afraid to try it. If 6000 other boys are making money by this plan you can do the same Next Month BOY DEPARTMENT, THE CURTIS PUBLISHING COMPANY 526 ARCH STREET, PHILADELPHIA, PA.


## I RAISED 129 PIGS FROM 13 SOWS

## 



 wilesc hey wee "International stock Foadiom ST. JosEPH RECORD.



STEEL ROOFING freight charges paid by us


AT \$2.25 PER SQUARE

A WHOLE YEAR FREE
A Popular Illustrated Story Paper Given Away




## The Abandoned Orchard-By Edwin L. Sabin

Half way up the southern slope There it dumbly lingers, Well-nigh dead to even hope Sturdy trunk and gen'rous bough Sturdy trunk and gen rous boug
Which so oft have given, Twisted, sear and barren now Wind and lightning riven.

Once this orchard, old was young, Coaxed and loved and tended; Once its limbs a-blossom swung Once the robin and the wren Once the robin and the wren
Hastened here and nested; High it piled its store-and then Till the spring it rested.

Oh, those dear, dear summers long Filled with peace and duty; Days of hours a golden throng,
Nights of starry beauty! Each October breathed, "Well done!" Winter's friendly rigor Held it snug; and rain and sun Called it forth in vigor.

Still one faithful redbreast pair Still some twigs their petals bear Still some twigs their petals bear In pathetic strinn
And when autumn comes, embrowned
All a summer's dream is found In a shriveled apple.


VIEW OF A MISSOURI APPLE ORCHARD-TWENTY THOUSAND BEN DAVIS TREES

## The Grass-Mulch Method of Apple Culture

EXPERIMENTS in mulching show that a lack of a uniform supply of moisture is responsible for several orchard troubles which have been atfore, that in the management of an orchard the aim should be to conserve moisture and at the same time to grow a crop which shall add to the supply of vegetable fiber. The grass-mulch method seems under certain conditions to admirably meet the requirements as to vegetable fiber and soil-moisture. It would be premature to attempt to say just what the limitations of the method are, but it appears to be widely applicable, and is especially advisable on hilly land-in fact, wherever cultivation is difficult, and on soil which washes and where grass can be made to grow
To Mr. F. P. Vergon, of Delaware County, Ohio, and to Mr. Grant Hitchings, of Onondaga County, ples may be successfully grown by this method. Both
of these men have worked along essentially the same lines for about fourteen years.

Thus far the method has been unqualifiedly successful, and merits a description; moreover, considerable misconception concerning it has arisen, hence there is tempt it, but many who might adopt it to good advan tage may fail to see any good reason for doing so. Mr. Vergon planted his orchard in a field which had been a blue-grass pasture for about fifty years, and at about the same time Mr . Hitchings began planting a young orchard where an old one had stood in grass for about one hundred years. He has also planted an orchard in a field which had been in cultivation for the same length of time, but had been well cared for, and another in a worn-out field. Both of these fields have been in grass from the time of planting. Both of these mulched the newly planted trees. Mr. Vergon made
lay of the grass for a few years, but soon decided to take nothing from the orchard but apples. He has mulched the trees with the grass, and has also hauled in various kinds of material for the purpose. Mr
Hitchings mulches his trees until they get well estab Hitchings mullehes his trees until they get well estab
The trees in both Mr. Vergon's and Mr. Hitchings orchards began bearing at an early age, and have given annual crops. It is especially noticeable that the tree are able to carry a crop of fruit and to form fruit-buds at the same time, while the fruit is well colored and hangs on remarkably well. Even in dry seasons there appears to be no bad eflects from dry weather on the growth of the trees or upon the size of the fruit. The loss by dropping is insignificant. All of the result which are supposed to come from good tillage and degree -Prof W I Gret in Bulletin No Th7 of the degree-Prof. W. J. Green, in Bulletin No. I37 of the
Ohio Experiment Station.

## FARM AND FIRESIDE

THE CROWELL PUBLISHING CO.

| 147 Nassau St. NEW YORK CITY | SPRINGFIELD <br> OHIO | 204 Dearborn St. CHICAGO |
| :---: | :---: | :---: |
| Subscriptions and "FARM AND FIRESID offices; letters for the | business lette at either one or should be | e addressed to bove-mentioned EdITOR." |

entered at the post-office at springField, ohio

One Year (24 Numbers) OF SUBSCRIPTION
$\begin{aligned} & \text { One Year (24 Numbers) } \\ & \text { In Clubs, if Paid in Advance }\end{aligned} \quad: \quad: \quad \dot{35}$ Cents Per Year ${ }^{50}{ }^{\text {Cents }}$ The above rates include the payment of postage by us. All
subscriptions commence with the issue on press when the order
is received. is received.
Subscribers receive tbis paper twice a month, whicb is
often as most otber farm and poultry lournals are issued.


## Mr. Greiner Says

FCavoring Watermelons.-A reader in South Carolina reports that some of the colored people fiaver state sometimes try to put lemon or other quantity of flavoring-extract weakened with water into a slit an inch long made in the vine near the ground,
and putting a tight bandage around the treated portion. and putting a tight bandage around the treated portion.
Nothing is too absurd for people to take up or believe.

Hairy Vetch.- In one respect the winter, or
hairy," vetch has proved a disappointment to me. "hairy," vetch has proved a disappointment to me.
It blooms fully and freely-in fact, it has been a mass of bloom beautiful to look upon all season long, and is still blooming-but it does not set, and there will not be enough seed to reseed the ground after the present crop is gone. So if I want another patch (and I ex-
pected to plant a larger one this year) I will a gain have to depend on the seedsman for the seed, and pay about to depend on the seedsman for the seed, and pay about
six or eight dollars a bushel for it. Possibly the plant may produce seed more freely in the colder portions of Canada than here. As an orchard cover-crop, howCanada than here. As an orchard cover-crop, how-
ever, this vetch will be hard to beat. It makes a
dense mass of green stuff early in the season. Now ever, thass of green stuff early in the season. Now
dense me the stalks begin to die out and decay, I find the
that the that und stalks begin to die out and decay, weeds thus far kept down or choked out. There is no question in my mind that when the vetch crop has died
down the soil will be in better condition than before.

## Missting Link Appie. - A number of inquiries about

 the Missing Link apple, and where trees may be ob-tained, have been received. The task of finding trees tained, have been received. The task of finding trees
of this apple in the nursery trade will be greatly simplified by the statement that the government experts declare the Missing Link none other than the old Wil-
low Twig, which is a fairly good apple of well-known low Twig, which is a fairly good apple of well-known
remarkable keeping-qualities. The "American Fruit Culturist" (Thomas) gives the following description of it: "Large, roundish, slightly conical, obtuse, very regular; greenish yellow, striped and mottled faintly
with dull red; stalk short; basin very wide and deep, rim obtuse; flavor subacid, or rather a acid, not rich. a market apple in southern Ohio." With one excep. tion this description exactly fits the specimens of the Missing Link which have again been forwarded to me. in no "rather acid"," and for this reason I I doubt its
identity with the Willow Twig Sometimes even identity with the Willow Twig. Sometimes even the
government experts are mistaken. For trees, look in the advertising columns. That is the proper place for the announcement to be made.

this really means has just been made plain by Judge
Blair of the Hudson County Court of General Sessions, who, in sentencing a union man to the penitentiary for an assault committed on a non-union worker, what he pleases, and should not be interfered with in so doing. The question of wages is one between the employer and employed, and cannot be dictated by any
body of men. This court will protect the man who is body of men. This court will protect the man who is union or not. The right to labor must be secured
as guaranteed by the law. The practice of persons as guaranteed by the law. The practice of persons
considering themselves superior to the law, and trampconsidering themselves superior to the law, and tramp-
ling upon the rights of others, is becoming too comling upon the rights of others, is becoming too co."
mon. Men who want to labor should be protected.

Bird-laws.-Most of the bird-laws of the several states are quite voluminous. A bird-law which has re-
cently become operative in Texas has about twenty cently become operative in Texas has about twenty paragraphs. Section 15 of this law reads as follows: crows, buzzards, blackbirds, rice-birds and owls are not included among the birds protected by this act. Nothing herein contained shall be construed to prevent any person from killing birds that are at the time destroy ing his growing crops. The first sentence shows that merits of the matter on which they legislate. Owls, for instance, usually do more good than harm. They live more largely on mice, grasshoppers and other
injurious creatures than on chickens or other things injurious creatures than on chickens or other things of value to the farmer. This is also the case with
most hawks, and more or less with the crow. I bemost hawks, and more or less with the crow. I be-
lieve that all these birds should come under the pro tection of the law, with the sensible proviso embodied Any person, I believe, will be granted the privilege Any person, 1 believe, will be granted the privilege
(if not by a legal enactment, at least by a jury, and in conformity with his constitutional rights) to protect his property against marauders, both four-footed and of birds not absolutely harmful should be forbidden.

Iifprovement by Selection.-Professor Day at Guelph, speaking of breeds of hogs, advises farmers to
keep but one breed. Select the breed which happens freed. Sect he breed which happens thick and thin. There is more in the individual, he says, than there is in breeds. I believe that is often the case with other domestic animals, also, and likewise with plants. We can pick a good hog from any drove, of whatever breed, or we may select one that is "too poor for anything." We find extra good cows and again we may happen to get a poor one. Among any breed of fowls, dunghills included, we occasionally discover the egg-a-day hen, and then again one that lays an egg only now and then, or one that is entirely barren. As a class we have not yet learned the ursuperior individuals, and of continued lookout for improvement. In some recent cases (now on record) the egg-yield of a flock of hens have been materially increased in the course of a few years by breeding only rom the best layers, and similar results may be se cured by any farmer. Of a number of my hens, for instance, which have each selected an odd place to lay, one goes into the carriage-shed, and every morning, with almost unfailing regularity, I find her egg in the bottom of the carriage, under the rear seat. If it were earlier in the season I would surely save every one of these eggs for hatching, with strong hopes of
raising a brood of good layers or reliable parent stock.

Individualism Among Plants.-The chances for the improvement of vegetables, fruits, grains, etc., by selection of individuals are just as plentiful and availerally as the importance of the case demands. There are just a few growers who make a business of improving certain lines of vegetable crops by selection, espec ially tomatoes, this being about the only one that has as yet been subjected to this process very fully and freely. We have not yet done even a fraction of what should be done in this respect with potatoes, one o the crops amenable to great improvement by this means. It was quite a number of years ago when the by planting tubers selected from the most productiv hills the resulting yield was much larger than that obtained by planting tubers selected from the least pro-
ductive hills. We have thus far failed to follow ductive hills. We have thus far failed to follow up the
discovery in a practical way. It is time to take it up

Fly-repelling Mixtures.-Professor Day of the Guelph College of Agriculture gave us his recipe for fly-repelling mixture, as follows: One tablespoonful kind of cheap fish-oil; mix, and apply with a brush Applied in the if way cation haile if applied times a wation be repeate quite often, say three or four kind, among them a number of patented and highly recommended ones. I have found none as yet, how ever, which proved materially better than any other and my home-made mixtures are giving fully as good crude carbolic and fish-oll is probably as cheap a any fly-repeller can be made, but we cannot casily get the fish-oil except in the larger cities, and sometime not very readily even there. I use a mixture of oil o tar, which I can get at seventy-five cents a gallon, and bolic acid, although this is not absolutely necessary This it on with wref t spray it on with one of the fifty-cent hand-sprayers the application must be repeated at far shorter intera home-made mixture or one of the patented fly-re pellers, once a day is none too often when you apply i is quickly done, is not expensive and what a lot of torment it saves the poor brutes!

Mr. Grundy Says

SRawberries in Ten Months.-A reader living in August, and he would like to have a crop of st in the old bed, and move them with as much soil as will stick to the roots, and carefully set them in well-prepared soil, and water daily until they beand well set are worth a thousand dug up and moved out any care. Mulch well with straw as soon a the ground freezes, and don't take it off in the spring but simply uncover the plants. The mulch will

Northern Seed-oats.-On my desk are two letters who came in the same mail. oats on his land any more, the other is from another farmer telling me what a magnificent crop of oats he seed grown this season. good crops. The thirdy six years ago, and grew the He prap small one, and the last two almost failures He prepares the land well, but it seems to do no good, and he wishes to learn whether I think he has ex-
hausted the "oat elements" in his soil and will be hausted the oat elements" in his
He that four otion friend living about two hundred miles north of of and grew two splendid crops The third of him, rather light, and he concluded that he must change his seed; so he bought twenty bushels of a new variety from a neighbor of his Northern friend, and sowed them on twenty acres of corn-land, disking them in well, and he says he has a crop that will yield fify to sixty bushels an acre. He says, further, that change his seed ever third year, and that the seed must three degrees of latitude north of where he live He lives in latitude 39-30.
few miles further north.
My own experience and observations years ago between latitudes 38 and 41 showed plainly that no
variety of oats will do well for more than three or four years, and that new seed should be procured from four years, and that new seed should be procured from the
North. The cause of deterioration seems to be in the climate, and not in the soil. A neighbor be in the cured thirty bushels of seed from a locality a little over two hundred miles north, ànd sowed them on twenty acres of corn-land which he had skimmed over three inches deep with the plow, and the crop yielded a fraction over sixty bushels an acre, while oats that had only eighteen to twenty-five bushels an acre. The oats set the farmers wild and the grower sold most of them for seed as soon as they were threshed. In three years they yielded no
better than common native oats. The same man procured another lot of seed from the North, and they yielded nearly fifty bushels an acre the first year, but the did not create the stir that the first lot did, an bushels an acre. If it is a "goód oat season" in the latitude mentioned, native-grown oats give a very fair them. The time to procure seed is threshing-time, not spring. The oats can be procured through the granges at a slight advance over market prices.

Institute Attendance.-One of the most perplexing problems that confronts the farmers'-institute worker-not the speaker, but the man who manages the institute-is how to get the farmers to attend it.
I find that each locality has its own difficulties with which to contend. A man can advertise a free streetcomedians, songs, music and per forming dogs, and fill the town to overflowing stand in greatest nee le him undertake to given at a farmers' institute; but he will have hi hands more than full. Advertise the show, and it is the "talk of Advertise the institute, and scarcely any one mention it in conversation. There are localities where an in stitute arouses quite a good deal of enthusiasm, and the attendance is large without any special effort being it is to boomit; then there are other localities wher Last year I put forth the best efforts of which I was capable to secure a large attendance at our institute The attendance was good, but the men I wanted, the
men who most needed to attend, did not come. Yet I have seen those same men and women going in crowds to a street-fakir show or a scrub-horse race Last year I secured Professor Blair, instructor in hor ticulture at the state university, to speak on the man agement of orchards, as there aoth attendance and in terest were not half what they should have been. man who owns several large orchards said afterward to know something about orcharding, but he really was too busy to attend. Others thought they knew about as much as anybody else abcut orchard man agement, and they didnt care to spend any time listen much in need of just the instruction Professor Blair gave, yet they missed the chance of a lifetime to get state university as one of the principal speakers. other states people go nearly a hundred miles to hear other states people go nearts and while I feel sur that we will have a large attendance, it really should hall in the county w' capital, and every one of them should be doubly interested in the best methods of managing it.

GA study of the statis-
tics of crop areas in this country will impress any one with the relative
importance of sods. Pasturegrasses, meadow-grasses and
the clover occupy, or are sup-
posed to occupy, the greater part of our land. A study
of the needs of soils in respect to fertility shows that of the needs of soils in respect to fertility shows that
heavy sods rotting in the ground are the factor most heavy sods rotting in the ground are the factor most
to be desired. In various ways they secure to the land to be desired. In various ways they secure to No one matter in American agriculture is of greater impor clover sods, and if the needed gain in this direction were secured, our agricultural prosperity would not Much land is drawing chiefly upon its stock of avail able fertility that has been accumulated for centuries and much other land has already passed the point of
profitable cropping. The ability to provide for itself profitable cropping. The ability to provide fo- itself
a heavy sod is the true measure of value for the major a heavy sod is the true measure of value for the major
part of our farming area. Consideration of the best methods of getting such growth is the most importan matter before the farming public, because it vitally affects more people and more land than any othe not realize the truth, the evidence being found in the sence, and in the increasing inability of much land to produce surely and well because the humus is exhausted.

Applying Manure.-Too much of the farm supis temptation to do that when the crop which gives quick returns from manure. The cash is money as quickly as possible. However, the new seedings to clover and grass have the greatest need of it in a majority of cases, and such use is the more
justifiable, because quite light applications are effecjustifiable, because quite light applications are effec-
tive, and the farm supply will benefit many more acres than it would when applied as heavily as is usual to results as a top-dressing for land that is to be seeded down or that has young clover and grass in the stubble of harvested grain. The facts that good sods are a big consideration, and that light applications of manure are so helpful in getting them, should cause us to devot

There is an inclination to spread manure thickly on any land, "making it good" so far as we go, but such a method is a mistaken one. Half the quantity often-
times used would furnish all the nitrogen needed, and times used would furnish all the nitrogen needed, and
also the bacteria that produce much of the benefit also the bacteria that produce much of the benefit
attributed to stable mantures; and thus the manure attributed to stable manures; and thus the
might be put on double the number of acres with the very best results if some mineral plant-food in a comby adding to its stock of phosphoric acid, and it may arm manure gives the most profitable returns.

Wheat and Grass.-We continue to seed an immense acreage with winter wheat, notwithstanding the relatively low price of this grain and the very small ne grass and clover is responsible for much of the winter-
grain production. The wheat is used as a crop with grain production. The wheat is used as a crop with which to seed for meadow or pasture, and such use would make it indirectly very profitable if heavy
growths of clover and grass were pretty sure to folgrowths of clover and grass were pretty sure to fol-
low the wheat. But they do not follow on the very land that needs them most. We see thin, weedy meadows in all directions. There is failure in evidence thin meadow is not producing a mass of roots for its of its owners. It is traveling down-hill, and taking its of its owners. It is traveling down-
owner with it. What is the matter?

A Better Seed-bed.-For fall-sown grasses, like moisture during drought. Moreover, the surface-soil moisture during drought. Moreover, the surface-soil conditions are secured only by early preparation of the
land. All thin and foul land should be broken in the spring or early summer, and given a cleansing-crop
like beans or cow-peas. Corn is all wrong for such like beans or cow-peas. Corn is all wrong for such
land, exhausting the fertility too much. The crop should be one that shades the soil well when cultiva tion ceases, keeping it sufficiently loose for seeding in
the fall after a harrowing of the stubble. That helps to insure a supply of moisture for fall growth of the grass, and of the
Fertile land will bring a good crop of wheat followed by a good crop of clover or grass, it may be,
without any special preparation. With such land we are not now concerned. The poor meadows, yielding one ton or less of weedy hay when two or three tons of clean hay should be gotten, are not usually on fertile land, and the continued infertility is due largely
to the poor sod. It should be the owner's business to to the poor sod. It should be the owner's business to
prepare for a better sod, and he can well afford to take prepare for a better sod, and he can well afford to take
the summer for it. The heavy feeder of live stock may quickly set such a field aright by applying manure this unprofitable land. In such cases use the renovat-ing-crop during the summer, and preferably one that will leave more available fertility than it found. By weed-seed. This is half the battle. Spread a little manure over the land, if practicable. Use a fertilizer phosphate and raw animal bone, half and half, for grass-seedings. You may also need potash. If land has never been limed, there is strong reason to believe
that half a ton of ground lime drilled in before seeding that half a ton of ground lime drilled in before seeding
to wheat or timothy will be found of much assistance to wheat or timothy will be found of
in getting a sod, and especially clover.

The Seeding.-A variety of grass and clover seeds

## All Over the Farm

Alsike clover are a help to timothy and red clover.
Use seed freely-such use is wise sowing half crosswise the first seeding, and a few days later. If all farmers would go aiter a good sod as
thoroughly as some thoroughly as some good growers go after a potato
or corn crop, there would be fewer thin meadows and or corn crop, there would be fewer thin meadows and
less land losing its store of humus.
DAvid.

## A GOOD HAY

Where farmers are so fortunate as to have good fields of clover from which the first cutting has been grow, and is cut when in full bloom, hay of very fine feeding value will be secured. Usually as fast as I
have the first crop of clover removed I cover the land with a light dressing of well-rotted manure applie with a spreader. When the land is good and the sea son favorable the growth of the second crop is rapid and if clean hay is wanted where manure is applied, it is essential that the manure be well rotted and so dis-
tributed that none will be left so the rake an mather it up with the hay.
up with the hay.
Until I began to make this hay, several years ago, it was farm history here that hay from second-cro
clover was of very inferior quality, and while it clover was of very inferior quality, and while it might
be eaten by hungry cattle, it was totally unfit for horses for the reason that when eaten by them it pro-
duced "slob duced "slobbers" of a very dangerous character, the
horses becoming enervated and unable to perform their accustomed work. Consequently I did not allow my horses and mules to eat the second-growth hay, but fed it all to my cows and young stock. I soonl
discovered the great relish these animals had for it, and how excellent it was in the production of results With this experience it was not long before the horse were eat.
as usual.
visiting us, ad asion when my brother-in-law was directly descended from Pegasus and entitled to only the finest of horse fare. I admired his love for his horse and his ability to own such a good one, but did not admire his fussiness. I had understood before the I had no hay accessible but my latest-gathered second crop clover, which was being fed to my own stock, and it was given to the strange horse, too. I tried to keep
the man away from the barn, for I knew that rowe the man away from the barn, for I knew that rowen
hay would not rest well on his stomach, however much hay would not rest well on his stomach, however mut barn, and his visit terminated early the next day.
ent-the hay was not hurting my horsest and a dent-the hay was not hurting my horses, and a few feeds could not hurt his very much; it was not worth
while to shorten a visit because of needless concer while to shorten a visit because of needless concern
for a horse, and (this in favor of the good offices of for a horse, and (this in favor of the good offices of
the hay) keep some on hand for the horses of tiresome visitors who a re too fussy about heir horses. crop after the dew is its good quality-that it is the dew on the clover when cut that induces slobbering in horses. However this may be, I wait for the dew to pass before starting the mower, and try to have the hay thus cut all in the windrow or cock before too much moisture gather on it in the evening. If in the windrow over night, I
cock the next day, and the next day upset the cocks cock the next day, and the next day upset the cocks
to allow of the evaporation of moisture collected at the bottom of cock, and haul to the barn at once. I cocked over the first night, I open the cocks the second day and close again before night. The treatment the third day is that already described.
If the second crop is thus cut for hay when it is in full bloom, a third growth usually comes to good size before the cold of fall stops the growing, and leaves a There is no hay made on our far There is no hay made on our farms that $I$ value more
highly than clover rowen. W. McSparran.

## LIGHTNING-RODS-DO THEY PROTECT?

Until last summer one of the neighbors had a light-ning-rod on his barn which had been there about thirty years. When I first knew it, there were glass insul-
lators, but they had long since disappeared, and for years it lay against the barn at places, and at others was held off by the iron stays.
"What do you think of my lightning-rod?" he said one day. "Some say it will do no good, and some have it that it will do harm by attracting the lightning,
and by having no glass insulators, will burn the barn I guess I will pull it down." Of that job he was relieved some time after by a lightning-bolt during
heavy thunder-shower. Its length was measured the ground, and the bolt, apparently leaving the rod, passed through a tread-power which stood near. ripped up several floor-plank, and so
mised, disappeared in a cistern.
There were various opinions expressed on the sub-
ject. Some said if it hadn't been for the rod the barn ject. Some said if it hadn't been for the rod the barn would have been burned, while others insisted that the
rod drew the lightning, and not being insulated, passed it on into the barn.

Another, who was more inquisitive than the others, dug up the rod where it was grounded in the earth. It extended only to the depth of three feet, and ended
in comparatively dry earth. This showed that the cause of the trouble lay in improper grounding. If it had been carried to the cistern. the electric discharge would have left no record of its passage from the sky
to the earth. It is probable that in this way lightning to the earth. It is probable that in this way lightningrods do a great deal of good for which they never get
credit. Before their introduction, ships at sea and high buildings suffered terribly from electric storms. But taking them as they are found through the
country, with all their defects, they are not regarded country, with all their defects, they are not regarded
as much protection. Insurance companies that have as much protection. Insurance companies that have
the statistics of the matter down pretty fine do not
passage down a well-g a build resistance. A woll find an near passage down a well-grounded rod than through the
building building. The resistance which the latter offers is
what causes the trouble. Glass insulators are of lit what causes the trouble. Glass insulators are of lit-
tle value, as if the rod is a good one there is no tendency for the lightning to leave it, and if otherwise, It is a well-known fact that barns are struck more frequently than dwelling-houses. This is explained by the fact that when hay is being stored in the barn, a
current of warm, moistened air is continually rising, making a path more conductive to the electricity than the ordinary air. The higher anything is, the more attraction, so to speak, it has for the electric currents.
For objects of comparatively little altitude, such as roofs of farm-buildings, trees, etc., lightning will be diverted but little from the path it has chosen to the have been observed during thunder-showers. A tree escapes, and a cow near by will be killed. It is related
of a mall, who, to avoid danger during a thunderof a manl, who, to avoid danger during a thunder-
shower, walked around a wood at some distance from it, instead of going through it. Lightning struck a horse which was standing between him and the timber

Scientists agree that lightning will not go much out of its way to pass down a rod. The greatest a rea of
protection that is allowed the rod is a lateral distance of twice the height above the building. Therefore, if arge barn is to be protected by rods, there will need
The days of the notorious lightning-rod agents are about past. If there was no downright fraud in their
business, they usually put up a defective rod for about business, they usually put up a defectiv
twenty times what one ought to cost.
If you want a rod, go to your blacksmith, and together you can fix up as good a one as can be made. blacksmith make a sharp point for the top. If this could be galvanized, so much the better; so also in case of the portion which goes into the ground, to prevent rusting. You can attend to the putting up
yourself. Wooden blocks are the best things with yourself. Wooden blocks are the best things with
which to fasten it to the building, and have no sharp which to fasten it to the building, and have no sharp turns in the rod. The most important part is in get-
ting it into the ground right. It should go to water ting it into the ground right. It should go to water wherever practicable, or at least to permanently moist
earth. If practicable to carry it to a cistern or well, earth. If practicable to carry it to a cistern or well
this is an excellent arrangement. Grant Davis.

## NOTES ON PAINTING

Nothing will detract from the appearance of a farm so much as old, weather-beaten barns and sheds, and farm-machinery, etc., which look shabby for the want sheds look well at small cost for paint by using a waterpaint, which can be put on by a cheap hand
paint: Take seven pounds of sifted Portland a cheap one gallon of skim-milk and three pounds of whiting. Break up the cement and whiting to a stiff paste with milk, having previously added to it one half pound of fresh-slaked lime, and stir, well together. Dissolve one half ounce of sal-soda in one pint of water, mix it with one pint of linseed-oil, and stir the mixture well into the paint. If the paint is too thick, add more
milk; if too thin, add more whiting. Strain the whole through cheese-cloth.
drab by adding burnt umber. two; olive-green by a mixture of green and yellow ocher; leaf-green by adding chrome-green; change the leaf-green to sage-green by adding a little umber, or light gray by adding lampblack.
To prepare the colors
you want to use, and rub it to a pastever dry color you want. to use, and rub it to a paste in a little of mix thin with some more of the paint, then pour a little at a time into the paint until you get the color
you want. Paint some on a board, and dry it. If it is too light when dry, add more color, and test again until you get what you want. Lampblack is so light
that it -is impossible to mix it with water-color until it has been cut with benzin or gasolene. with a long handle, and save yourself a lot of climbing. If the paint is colored, it will take about two coats; if To prepare farm-machinery for painting, sandpaper it to take off the old paint, if there is any left on in loose patches. If the paint is sound, and has any gloss left, sandpaper just sufncient to take off the gloss; then
mix one and ohe half pounds of Venetian red to one quart of boiled oil, two ounces of turpentine, and the same of japan. Give the work a coat of this.
When dry, make the same mixture of oil, turpentine and japan, and put in two and one half pounds of Venetian red; then give the work a coat of this mix-
ture. This should be a fairly heavy coat If too heavy, add more oil; if too light, add more red. If
this coat stands out with an even gloss, it is enough; if not, putt on another coat.
Paint the ironwork black with the following mixture: One half pound of asphaltum, one ounce of gum set in a warm place, and shake often. When the gums are dissolved, add one half pound of drop-black ground all rust fron the iron with sandpaper and kerosene. If the paint works too thick, add turpentine; if too thin, use more drop-black. Have the gums powdered, then they
will dissolve quicker. This paint should dry with a gloss.
When painting machinery, use a double-thick, chiseled flat brush two and one half inches wide. The red above described is good for farm-wagons, is an
excellent paint for barns, and looks especially well when trimmed with white.

## Gardening

by т. GREINER

Intensive Gardening means planting in and for succession. There is plenty of opp
kind of gardening at the present time

Among the Crops which I start from seed early in August are flat turnips (the strap-leaf sorts), w
radish, ordinary radish, kale, spinach, onions, etc.
A Melon for Northern Locations.-A reader asks me what melon she could plant with any hope of getting a crop of ripe ones in her location, where the
summers are short. I know of none that is earlier summers are short. I know of none that in earlier
than Emerald Gem, and none that is of higher quality. I planted some as late as July ist, and expect to get them ripe. The soil, however, has much to do
with the quality of muskmelons and watermelons. It with the quality of muskmelons and watermelons. It
seems that the more sand there is in the soil, the seems that the more sand there is in the soil, the
sweeter and richer are the melons. But the Emerald
Gem, if well grown and well ripened, is good anyway.
Weeds or Vegetables?-We have the choice. As such vegetables as early potatoes, early peas, early
cabbages, beets, lettuce, cresses, set-onions, etc., macabbages, beets, lettuce, cresses, set-onions, etc., ma-
ture at this time, the vacant spaces are speedily taken up with weeds. Not one gardener in ten would dig the ground over just for the sake of killing the weeds. I want to make use of the space for other crops-rad-
ishes, celery, spinach, late cabbages, etc.-and the preparation of the soil for them destroys the weeds.
I choose to grow vegetables, and avoid the other alterI choose to grow vegetables, and avoid the other alter-
native-weeds. Thus the garden looks attractive, and native-weeds. Thus the garden looks attractive, and
is useful, besides, during the entire summer and fall.

Cabbages FOR Quality.-J. W. L., a reader in is a good table-cabbage, and whether the red variis a good table-cabbage, and whether the red vari-
eties are as good for table use as white ones. The
market demands the Ballhead, and cabbage-growers in this vicinity who make a business of growing winter cabbage plant no other. For myself I h have never
considered it to be of particularly good quality. This considered it to be of particularly good quality. This ningstadt (plants grow rather late), Surehead, Lupton
and Drumhead Savoy, the latter probably the cabbage and Drumhead Savoy, the latter probably the cabbage
of highest quality for culinary purposes. I like to
have at least a few heads of Mammoth Red Rock, have at least a few heads of Mammosth Red Rock,
or some other red sort, for salad purposes, more on or some other red sort, for salad purposes, mor
account of color than of particularly high quality.

Managing the Bean-weevil.-Mrs. Joe T. Tyler, a subscriber in Alabama, gives the following as her
method of keeping seed-beans free from the weevil. method of keeping seed-beans free from the weevil. weevil. I have seen them live and propagate during
the best part of two years in a bag containing seedthe best part of two years in a bag containing seed-
beans, leaving finally nothing but bean-skins and dust.
The subscriber says: "Turpentine will run the weevils The subscriber says: Turpentine will run the weevils
out, and keep them out. I put my seed-beans in pasteout, and keep them out. I put my seed-beans in paste-
board boxes or glass jars, saturate a flannel cloth with
turpentine, and put that on top. The weevil will get turpentine, and put that on top. The weevil will get
out, and stay out. I keep my field-peas free from the pea-weevil in the same way, only putting them up in
barrels. A cloth six inches square with a little turbarrels. A cloth six inches square with a little

Fine Lettuce.-In a season such as that of this spring and early summer-cool and wet, but especially wet-anybody can grow lettuce that is the acme of
perfection in tenderness and brittleness. Our seedsmen catalogue a large number of varieties, some of
them under different names. When the season is right, like the present one, ,you may take any variety
and have fine lettuce. I had Forty Days lettuce this year for my earliest supply. It does not grow to mamyear for my earliest supply. It aoes not grow to mam-
moth size, but it grows quickly and makes nice solid
heads in a very short tsace of time. Prizehead, with heads in a very short space of time. Prizehead, with as ever for an early sort-and there is a whole list of
larger cabbage-heading sorts that are good and relilarger cabbage-heading sorts that are good and reli-
able, and remain long in table condition before making an effort at seed-production. Naximus is one of
these on my grounds. So is the New Rosette.

How ro Grow Letruce. - I still adhere to my old and favorite plan of growing lettuce for home use by leaving them a little thickly, say a plant every two or three inches, and gradually thinning still more severely as the plants have formed nice little heads.
In theory every other plant is thus taken out grad-
ually, as wanted for the table, leaving the remaining ually, as wanted for the table, leaving the remaining
ones at first five or six inches, and finally ten to twelve ones at first rive or six inches, and adhy ere to so much
inches, apart. In practice Idon't and
strict regularity. The lettuce fnally makes mammoth strict regularity. The lettuce finally makes mammoth
plants-regular cabbage-heads-and as I have plenty of
them In them, I reject all the outer leaves, and use only the
nicely blanched, tender inner ones. They are delicious, nicely belanched, tender inner ones. They are delicio
and relished by my family served in various ways.
Lima Beans.-Usually I find it a rather easy task
to grow a full supply of Lima beans. All that is nec-
essary is to select a warm, rich soil in full exposure,
and to plant the beans in a row, like any other beans,
and give them some trellis or other support. This
year, owing to cold, wet weather in spring, or possibly
to the work of slugs, the plants did not appear to
thrive at first, and many died outright. Those that
were left, however, picked up wonderfully with the ad-
vent of warmer weather toward the end of June, and
some had almost reached the top wire of the trellis,
five feet above the ground. Yet there were many
gaps in the row-larger gaps than I like to see soso
on July Ist I replanted the gaps, and now, ten days
later, the plants, stimulated by the hot weather and
a sufficiency of moisture, are already beginning to
throw out runners. No doubt I shall have plenty of
nice Limas on these late plants, and they will come
handy when the earlier-planted ones run'short.

String-beans.-During their season of freshness I
ke an occasional mess of good string-beans, such as Davis' Kidney Wax, when the pods are picked in
good season-that is, before the beans get large in good season-that is, before the beans get large
them. I have never yet learned to think much of canned snap-bean. Some people, however, think that a canned snap-bean is better than no bean. Mrs. F
E., of Linn County, Iowa, for instance, asks "ho E.,. of Linn County, lowa, for instance, asks That seems to be asking a good deal, and I believe
is an impossibility. Probably Mrs. Rorer knows much as anybody about cinning string-beans, and will give her recipe, without giving the least guarantee,
however, that the canned article will even come any where near being as good as when fresh. Mrs. Rore says: "String the beans, and cut them in several
pieces; throw into boiling water, and boil rapidly fifteen minutes. Have the jars ready filled with warm water to slightly heat. Empty the jars, and fill quickly with the beans, then close, and handle the jars in the same manner as you would when canning fruit."

Early Tonatoes Need High Culture. - Our northeast New York friend remarks that the early tomatoes do not yield well, and wonders whether the present day, like those of the Ruby type or the Earli present day, like those of the Ruby type or the Earli-
ana, are free fruit-setters. The Earliana often sets so much that it kills itself by overbearing. The only way to get these sorts to do their best is by planting them on very rich soil, or by giving them nitrogenous manure enough to produce a large amount of foliage thave my Earliana and some other early sorts on almost to excess. I have not the least, fear, from th appearance of the plants at this date, that they will not have foliage enough to carry the fruit, that is se in great abundance, also, to full development and maturity. If I had planted the Matchless or Stone o Success, or any other of the ordinary main-crop toma-
toes which are liable to make much foliage even on toes which are liable to make much foliage even on
soil of medium fertility, I don't think I would get much fruit-nothing but stalk and leaf, and a great much fruit-nothing but stalk and leaf, and a great
mass of that. This very rich soil just gives the needed mass of that. This very rich soil just gives the neede
full amount of foliage to the Earliana, and the fruit is large, and I expect will be of fine quality, also.

Keeping Potatoes from Sprouting.-A Wyoming reader asks me to furnish him a recipe (published in these columns years ago, he says) He to prevent sprouting." He says he would gladly pay for a reply by mail. I the sayk I would gladly pay a good price for a recipe how to keep potatoes from sprouting. even if the treatment would spoil them for seed. The production of sprouts in cellar storage
greatly reduces the value of potatoes for table use greatly reduces the value of potatoes for table use,
and still I have not yet found a safe and sure method of and still I have not yet found a safe and sure method of
preventing the growth of those long sprouts, unless preventing the growth of those long sprouts, unless
possibly to a limited extent by frequently shaking possibly to a limited extent by frequently shaking
the potatoes around in a half-filled bag, or by emptythe potatoes around in a half-filled bag, or by empty-
ing them often from one crate into another-in other words, by frequently moving, jarring or shaking them words, by frequently moving, "jarring or shaking them about. A recipe for a cheap "dip" that kill surely preso long as the potatoes are not injured for eating, growers and worth a good deal of money to potatogrowers and grocerymen. A dip is used for seed-potaused) has a different purpose-namely, to kill the scab
fungus with which the fungus with which the seed-potato may be infected.

## Fruit-Growing

## by S. b. GREEN

## CIDER-VINEGAR

Vinegar made from pure cider or grape-wine is condiment.
The fabrication of pure cider-vinegar is a very simple process, and one which any one who can grow or In the production of pure cider-vinegar four factors are concerned. These are pure cider; the presence of
the acetic acid ferment, $"$ Bacillus aceti;" free ingress the acetic acid ferment, "Bacillus aceti"," free ingress of air, and the temperature of the air or room not less
than seventy degrees, nor more than eighty-five degrees, Fahrenlheit.
As vinegar is ordinarily made on the farm, it is
simply allowed to ferment spontaneously in unbunged simply allowed to ferment spontaneously in unbunged
barrels in a cellar whose temperature during the fall barres in a cellar whose temperature during the call
months, when cider is usually made, is pretty conmonths, when cider is usually made, is pretty con-
stant at about sixty degrees Fahrenheit. The acetic acid ferment does not grow actively at any temperacid ferment does not grow actively at any temper-
ature below seventy degrees Falirenheit, hence the
and relatively long period it requires to produce good vinegar in farm cellars. Although the acetic ferment requires a comparatively high temperature, there are peratures. These generally get into the farmer's rinegar-barrels and make trouble. The followingdescribed process will enable any one to make a fine
vinegar with the least possible waste of time and vinegar with the least possible waste of time and Take sound barrels or any suitably sized vessels of wood, earthenware or glass-never iron, copper or tin.
Clean thoroughly, and scald. Fill not more than half full with the cider stock, which should have fermented at least one month. To this add one fourth its volume of old vinegar. This is a very necessary part of the
process, since the vinegar restrains the growth of
chance ferments which abound in the air, and at the same time it favors the true acetic acid ferment. Next same time it favors the true acetic acid ferment. Next
add to the liquid a little "mother of vinegar." If this latter is not at hand, a fairly pure culture may wooden pair a mixture of one half old vinegar and
one half hard cider. The room where this is exposed should have a temperature of about eighty degrees Fahrenheit. In three or four days the surface should become covered with a gelatinous pellicle, or cap.
This is the "mother of vinegar." A little of this care-
fully removed with a wooden spoon or a stick should
be laid gently upon the surface of the cider prepared as above described. Do not stir it in. The vinegar ferment grows only at the surface. In three days
the cap should have spread entirely over the fermenting cider. Do not break this cap thereafter so long as the
fermentation continues. If the temperature is right the fermentation should be completed in from four to six weeks. The vinegar should then be drawn off, strained through thick white flannel, and corked or
bunged tightly, and kept in a cool place until wanted for consumption. If the vinegar remains turbid after ten days, stir into a barrel one pint of a solution of
one half pound of isinglass in one quart of water. As soon as settled, rack off, and store in tight vessels.
Usually no fining of vinegar is needed Usually no fining of vinegar is needed. No pure
cider-vinegar will keep long in vessels exposed to the cider-vinegar will keep long in vessels exposed to
air at a temperature aboye sixty degrees Fahrenheit. "Vinegar eels" are sometimes troublesome in vinegar barrels. To remove these, heat the vinegar scalding-
hot, but do not boil. When cool, strain through clean hot, but do not boil. When cool, strain through clean
flannel, and the "eels" will be removed.

In making cide win
In making cider-vinegar, the strength of the prodbe a little less than the per cent by weight of the alcohol in the cider. A little of the alcohol remains
ald unfermented, and serves to give the desired flavor or bouquet to the vinegar

There is another, and even more rapid, method mented cid
of beechwood shavings wetted with old vinegar. By this method good vinegar may be made in twenty-iour hours. But the process as first described makes better vinegar, and is preferable for farm use.- Bulletin No.
82 of the North Carolina Experiment

## home manufacture of unfermented grape-Juice

Use only clean, sound, well-ripened but not over
pe grapes. If an ordinary cider-mill is at hand, may be used for crushing and pressing, or the grapes may be crushed and pressed with the hands. If a light-colored juice is desired, put the crushed grapes in
a cleanly washed cloth sack, and tie up. Then either a cleanly washed cloth sack, and tie up. Then either hang up securely and twist it, or let two persons take greater part of the juice is expressed. Then gradually in a pan of hot water, so that the juice does not come in direct contact with the fire, at a temperature of one hundred and eighty degrees Fahrenheit to two hundred degrees Fahrenheit; never above two hundred degrees Fahrenheit. It is best to use a thermomete steams, but do not allow it to boil. Put it in a glass enameled vessel to settle for twenty-four hours; carefully drain the juice from the sediment, and run it through several thicknesses of clean flannel, or a conic
filter made from woolen cloth or felt may be used. filter made from woolen cloth or felt may be used.
This filter is fixed to a hoop of iron, which can be suspended wherever necessar clean bottles. Do not fill entirely, but leave room for the liquid to expand when again heated. Fit a thin the filled bottles (ordinary glass fruit-jars are just as good) in it, fill in with water around the bottles to within about an inch of the tops, and gradually heat until it is about to simmer. Then take the bottles out, and cork or seal immediately. .lis the corks over with the further entering through parafin to prevent mold-germs from make a red juice, heat the crushed grapes to not above clean cloth or drip-bag (no pressure should be used), set away to cool and settle, and proceed the same
as with light-colored juice. Many people do not even go to the trouble of letting the juice settle after straining it, but reheat and seal it up immediately, simply setting the vessels away in a cool place in an upright
position where they will be undisturbed. The juice is thus allowed to settle, and when wanted for use the clear juice is simply taken off the sediment. Any one who is familiar with the process in both are identical.
One of the leading defects so far found in unferwhich very appearance and due to two causes already alluded to Either the final sterilization in bottles has been at a higher temperature than the preceding one, or the juice has not been properly filtered or has not been
filtered at all. In other cases the juice has been sterilized at such a high temperature that it has a dis agreeable scorched taste. It should be remembered hundred and ninety-five degrees Fahrenheit are dangerous, so
concerned.

Another serious mistake is sometimes made by put ting.the juice into bottles so large that much of becomes spoiled before it is used after the bottles ard bottled will keep indefinitely if it is not exposed to the atmosphere or mold-germs; but when a bottle is once as possible, to liep it from spoiling
The uses are indeed many. It is used in sickness, convalescence and good health; as a preventive, re-
storative and cure; by the young, by persons in the prime of life and by those in old age. It is used in as a cool and refreshing drink; in homes, at hotels and at restaurants as a food, as a beverage, as a dessert and in many other ways. When people become accustomed to it they rarely give it prepared, unfermented grape-juice can be made to please the eys by its color and attractive appearance,
the sense of smell by its aroma or fragrance, the palate by its pleasant flavor.
It is food and drink, refreshment and nourishment all in one. Not a by-product, but made from fruit
going to waste-one of the blessings given us, that going to waste-one of the blessings given
some are too careless, others too ignorant, use of.-George C. Husmann, in Farmers' Bulletin No 175 of the United States Department of Agriculture

## The Farm and Fireside for August 1, 1903

$$
\begin{aligned}
& \text { the butter-fat, pro- } \\
& \text { vided ground grain is }
\end{aligned}
$$

sels may be hung on
the partition, so that both birds may use them in common. I out of sight of their
old mates it will not old mates it will no
take more than two
and muscle producing the skim-milk and the elements are left in is of but little value to poultry. If a cream-separator is used, the milk should be fed while warm and fresh, and no excellent food for fowls.

## PLEASURE IN KEEPING PURE BREEDS

There is no argument that can possi time and wasting energy in keeping common dunghill fowls. It costs no more to have good birds than bad ones. One will take more pride in good poultry than in poor stock, and will be much
more inclined to make the business a success if proud of the birds, and will be delighted to show them to visitors or fanciers of poultry. Keep pure stock

## ESSENTIALS IN FOODS

There is no single food which is perfect, or which contains all the desirable which reason corn as an exclusive diet will not give satisfactory results. There s lime is essential in the production of bone it is evident that young chicks will make but little growth when the larger portion of their food consists of corn and corn-meal. If clover, either green more benefit will be derived from the combination than from the grain o
Animal-food should also be allowed.

## FLOORS AND RATS

If the poultry-house is in such condition as to allow rats to run under the poultry business. They are worse than any disease the fowls may have. When the house is built it is very easy to putt
wire netting, such as is used for the small chicks, under the floors. If you have not done this, another easy way to keep out rats is to put in a cement foor. It may
cost a little more than fixing up the cost a little more than
wooden floor, but it is safe against rats, and a wooden floor is not. If wire mesh is put in with the cement when the floor

## SUMMER PRECAUTIONS

One must be careful in adding extra year, as it is difficult to detect disease without a close examination, which is seldom made by those who procure fowls vigilance be confined to the individual birds, but the entire flock of whicll the birds are members shoculd be carefully
looked after, as disease in the flock of looked after, as disease in the flock of
some neighbor may be carried elsewhere by apparently healthy birds taken from such flock. Roup is often present in an incipient stage in a flock, and makes its appearance under the first
favorable circumstances.

## GRAVEL AND SHELLS

Gravel is valueless unless it is sharp. substance in the gizzard it is voided. hence, hens prefer sharp shells to round gravel. The reason they eat more shells -or more sharp grit of any kind-when they are laying is because more food is better digestion. If an egg has specks or flakes of lime on the shell it does not imply that it is due to feeding oyster-
shells, as the same thing occurs when no oyster-shells are given. It may also
be due to the food. As a rule such hens are fat. Some kinds of gravel are of limestone and of exactly the same
composition as oyster-shells.

## THE HEN-MITE PROBLEM

It would be interesting to get a correct estimate of the number of millions of dustry in America every year by means of the little "insignificant" hen-mite, or red spider. Any method, no matter how expensive, of getting this bloodthirsty
little animal under control would mean a large gain, a material increase in profits, to every poultry-keeper who makes
use of it. The mite the majority of fowls in America to such an extent that not only the egg-yields are largely decreased, the growth of litactually killed by mite-attacks, most frequently perhaps while sitting on the nest. In short, the fight against the mite is one of the foremost tasks every poultry-owner
has to accomplish. We have advised the has to accomplish. We have advised the
free use of kerosene, sprayed all over free use of kerosene, sprayed all over
the perches, the nests and the whole interior of the hen-house. Kerosene, in-
deed, does wonders when thus used. Some
expert recommends the use of boiling water as cheaper and even more effec tive. This may be true. We can see no
reason why boiling water poured freely ver the roosts, floor, the nest-in -should not clear the pest out as quickly -should not clear the pest out as quickly mended.-The Practical Farmer.

## THE PREFERRED BREEDS

Poultry-breeders have several times endeavored to settle the question as to which breed of poultry is the best for general purposes. The Brahmas, Ply-
month Rocks, Wyandottes, Leghorns Langshans and Houdans have been experimented with, not only for duction, but also for market purposes. The majority of breeders prefer the reeds that grow to a large size, matur some and which can endure a cold climate well. The chicks should grow very mate well. The chicks should grow very market prices for quality. Probably no breed can comply with all these requirements. For one who wishes a breed that lays, but does not sit, the Leghorns are excellent. For one who wishes a
good breed of sitters, the Cochins are profitable. He who wishes a beautiful breed, so far as plumage is concerned, can select either the Hamburgs or Polish, as there are several varieties of Bantams are useful. Should are preferred, the Bantams are useful. Should a quickgrowing breed for market purposes be
wanted, the Plymoutl Rocks rank high Circumstances determine which is best.

## CHICK-CAKE

The recipe for the chick-cake which we used to feed to young chicks when we desired to secure rapid growth, and which in such cases we still make use of, calls for about equal parts of wheat bran, middlings, corn-meal, oatmeal and meat-
meal, or in the absence of the latter meal, or in the absence of the latt
some fresh-cut green bone and meat, any substitute for it. A little saleratus s worked up into this mixture, when it
is stirred up with sour milk or butter-
them to unite. The movable slat can then be taken away, and if the mating is permanent they may
loft to find a nest.
F. A. H., Elmwood, Mass., writes: "You say, "Coarse, dry sand makes good floor-cover. Coarse pine sawdus is liked by some. One of my neighbor
used pine sawdust, and was soon overrun with fleas. He now uses cedar sawdust and has not been troubled with them since putting it on."
air-slaked lime over the floor before ting on the sawdust, even if it be cedar. Pigeons at liberty may, and do, eat
new wheat, but it is much safer, for the sake of the health of the squabs, to feed old grain for two months yet to birds in confinement.
A writer on pigeons says: "Never
throw grain on the floor of the loft or fly; put it in long troughs." Of the loft or custom was to always feed all grain on the ground in the fly, at least whenever the ground was free from snow and reason
ably dry. This we did three times a day
and we fed only what the birds and we fed only what the birds would
eat up quickly with a relish. We fed also at regular hours. This ration was a mixture of a small-grained whole corn wheat and buckwheat. We kept in self feeding hoppers a mixture of equal part of corn-meal and wheat bran. If any o the birds missed the meal of whole grain, isfied, or if they wanted a lunch between meals, the "hopper lunch-counter was al
ways open to customers. This method proved successful in maintaining the large, fat squabs. It is said nothing suc large, fat squabs. It is said nothing suc A large, roomy outside fly is a partial compensation for a crowded loft. Have plenty of perches in the fly, but let them be so placed as not to obstruct
the flight of the birds.-Farm Journal.

## INQUIRIES ANSWERED

Green Food.-E. J., Bowling Green, va., asks "which of the green foods


## THE PRIDE OF THE YARD

milk into a soft dough, and then baked in a hot oven until thoroughly done.
This makes an excellent cake which chicks makeatly relish, and on which they thrive like weeds. We usually moisten it with sweet skim-milk, or water when
milk is not to be had, and feed it right milk is not to be had, and feed it right
along, often without change, for some along, often without change, for some
days. Whole wheat, however, should be given occasionally, as the change will be of benefit. This cake we have also found to agree first-rate with turkey-chicks,
and it seems to be a safe food for fowls and it seems to be a safe food for fowl
generally.-The Practical Farmer.

## IN THE PIGEON-LOFT

There are bullies and brutes in the pigeon as well as in the human family. A male pigeon that is disposed to make
himself a nuisance in fighting other old himself a nuisance in fighting other old
birds and killing squabs might as well birds and killing squabs might as we
be removed from the loft. If this is no practical, clip his wings and provide a practical, clip his wings and
nest for the pair on the floor.
For a mating-pen get a box and put
perpendicular slats on the front and through the middle. It should be large enough to make each apartment twelve or fifteen inches square, and one of the
slats, or dowels, in the partition should slats, or dowels in the partition should
be movable. The food and water ves-
finement." A variety should be given, but white clover will be found equal to any other green food for poultry. Ohio, requests information regarding Ohio, requests information regarding otherwise apparently well." No inforbut it is probable that the turkeys are made lame by alighting from a high roost every morning.
Loss of Gosingas.-N. R. M., Hancock, Md., complains that "his goslings
died a few days after being hatched. They had access to a pond, and were hatched early in the year." It is prob-
able that the water was too cold, and able that the water was too cold, and
they were chilled. Very cold water is usually fatal to goslings under such conditions.
DARK
Dark-egg Breeds.-J. M. D., Doyles-
town, Pa., desires to know "of some breed that lays uniformly dark eggs."
While some breeds, such as Cochins and While some breeds, such as Cochins and dark color, yet they approach the desideratum in that respect. There is
probably no uniformity in the eggs of any, breed which is classified as "darkegg" layers. Even two sisters will not

THISTLE-INE
rtain Death to CANADA THISTLES
AND ALL OTHER

 The LINDGREN CHEMICAL CO.

Grow Ginseng Fortunes Made in Small Gardens

 Handy Farm Wagons



fit any wagon. Write for the catalog. It it free
ELECTRIC WHEEL Co., BOX 96, OUINCY, ILL
S5 A DAY
 -selling Swants Pres a ton of fres beef, mutton, veal, etc., indefnitely, in the
hotest weather, in all climates. Much chear than salt, ice or any or all other preservatives.
labor to apply. Guaranteed absolutely harmRequires no labor to apply. Guaranteed absolutely harm-
less. Its use cannot be detected by sight, simell or taste. Money promptly returned if not as represented. Sold
only by agents, or direct from the Laboratory. Reliable references and testimonials. Write and get a quicks seller,
a satisfactory business-builder, and the best proposition in the country. Booklet and circulars mailed free on reCAL COMPANY, 210 Tuscola Street, Saginaw, Mich.


| Our New | $\begin{array}{l}\text { Just in }-10,000 \\ \text { Breech LLaoders }\end{array}$ |
| :--- | :--- |
| Amrerican |  |
| Gun | $\begin{array}{l}\text { They go to quick } \\ \text { byyers at Bar. }\end{array}$ |
| Send 2-eent stanip for catalogue | gain Priees. | H. \& D. FOLSOM ARMS CO., - NEW YORK WE'L PAY THE FREICHT







SHARPLES
TUBULAR FARM SEPARATORS

## Built on the Square,

<br>ent from other separators w in principle. Guara ficient and durable than any other kind Write for catalog

P. M. SHARPLES,

THE SHARPLES CO


## Apples

If you raise apples-few or many Apples into Gold" and see how Goodell Co do it
GCoodell Company, 77 Main St.,Antrim,N.H.


SEPARATORS AND POWERS


Rupture=Varicocele=Hydrocele RESULTING NERVOUS DISEASES
New discoveries regarding their scientific treatment are described and wlustrated. D. D. RICHARDSON, M. D


BEST PAY
BUGGIES

## FREE

$\$ 40$ per Month ind Expen aee paid good men


STOCK IN FLY-TIME

application, but the tendency is to make
use of them only spasmodically, while the following recommendations are val
uable in more ways than
$\qquad$
The first precaution should be to alstables, and to keep in use sufficient ab-
sorbents, litter and deodorizers to keep the stables sweet and wholesome, which impossible where the flooring allows
of leakage and accumulations of filth and reeking gases beneath it. The yards and lanes leading to the stables will
also soon become a breeding-place for also soon become a breeding-place for
myriads of fies unless kept clean and
scraped frequently The saving in ferscraped frequently. The saving in fer-
tilizers from this source is an item well Whert the necessary labor expended.
Where the number of stock kept is not too large, it will be found profitable to arrange the stables or sheds with
screened and darkened windows and openings, where the stock can goo at will
for rest and protection during the heat of the day. The colts, and horses when not profit by such espovision when the bot-
flies and other insect torments make
many of the daylight hours a worrimen many of the daylight hours a worriment
and gain and growth an impossibility. Where large dairies are kept, the loss
resulting from diminished milk-yield is
seriously felt, and the
 the richness of her milk. More than that
must be taken into consideration. When better prepared to say which of our cows
is really the best.
E. L. Vincent. they will begin to eat other food beside
their mother's milk. To furnish them vary them according to their cost. I try
always to have skim-milk and corn-meal

$$
\begin{aligned}
& \text { for them. The quantity is limited at } \\
& \text { first, and gradually increased to such }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ing, and the grain and milk fed in addi- } \\
& \text { tion to the mik of the dam gives them } \\
& \text { such a start toward proftable growing }
\end{aligned}
$$

 is this true when pastures are dried up
and are uninviting. Early milking-hours
morning and evening morning and evening, with the animals
taken up and stabled from about noon until evening milking-time, will not ma-
terially increase the dairyman's labor atter the feed-supply is provided for, and
will afford a most gratifying surprise in
the improved and extended yield from
motherhood, which is of course a char-


$$
\begin{aligned}
& \text { 1llustrates no evidence of a generous ap- } \\
& \text { preciation of the motherly abnegation } \\
& \text { by her owner or feeder. True, we are }
\end{aligned}
$$ be kept practically free from their par

ticular fly pest by a well-tarred salt
trough.
B. F. W. THORPE.

$$
\begin{aligned}
& \text { are trying to do it prontably, and may } \\
& \text { often miss our profit by our stinginess. } \\
& \text { The nig's stomach is small. and needs }
\end{aligned}
$$

the Cow that fills the pocketbook It is not always the cow that gives the
richest milk that fills the pocketbook. A

$$
\begin{aligned}
& \text { filling often. For a while after weaning } \\
& \text { I feed four times a day, and as the pigs } \\
& \text { increase in size I feed three times a day, } \\
& \text { all thev will eat. and no more. From }
\end{aligned}
$$ homely farmer put this truth to me the

other day in bright if homely words. In answer to the statement that a certain
lot of cows gave milk so rich that six-
teen pounds of fit would make a pound of
butter, he said, "Yes, and it would take

$$
\begin{aligned}
& \text { I feed it healy ground, also. I try to } \\
& \text { keep them growing and fat, so if I have } \\
& \text { a gond market I have hogs to meet it }
\end{aligned}
$$ butter, he said, Yes, and it would take

sixteen of them to make the pound o


But do not decide too hastily. What
about the cost of producing this milk in
both cases? Do you know that? If you
do, then you can intelligently answer the
question which cow to choose. And the
only way of determining this is to care-
fully measire out the feed given to each
cuw. This we need not do for the en-
tire season. WVe may weigh the feed
given for a week, and then by keeping
the ration just about so, estimate very
closely the remainder of the season. It
is reasonable to suppose that the cow
which gives the greater quantity of mik
will require a larger ration daily than
the one which gives the smaller mess.
Let us roughly estimate that the expense Overfeeding with hay is practised by most farmers. the digestive system and results
 us a total expense of forty-five dollars for the cow giving the most milk, against ing the cost of production from the tota receipts, we have forty-eight dollars and cow, as against thirty-nine dollars for dollars and seventy-five cents in favo
So it is evident that we cannot base a

$$
\begin{aligned}
& \text { fair it is evident that we cannot of the value of a cow upon } \\
& \text { fate of } \\
& \text { the richness of her milk }
\end{aligned}
$$ we all get so that we will have the pa-

tience to watch our cows, not a single day, but all the year through, and keep accurate records of all we do for the
cow and all she does for us, we may be

## ITHE YOUNG PIGS

When the pigs are three weeks old for them to reach and out of reach o the dam, and at this light-lunch counte the grain, corn-meal, wheat middlings, ground oats and skim-milk. I do not

$$
\begin{aligned}
& \text { tion to the milk of the dam gives them } \\
& \text { such a start toward profitable growing } \\
& \text { that they keep it up to the end. This }
\end{aligned}
$$

$$
\begin{aligned}
& \text { such a start toward prontable growing } \\
& \text { that they keep it up to the end. This } \\
& \text { makes it possible for me to keep the sow }
\end{aligned}
$$

$$
\begin{aligned}
& \text { makes it possible tor me to keep the sow } \\
& \text { in good flesh and "heart" without de- } \\
& \text { priving the Diogs of needed nourishment }
\end{aligned}
$$

$$
\begin{aligned}
& \text { priving the pigs of needed nourishment. } \\
& \text { It is a common thing to see a sow with } \\
& \text { a family of clamorous pigs, that have not }
\end{aligned}
$$

$$
\begin{aligned}
& \text { thrived to the extent they would if the } \\
& \text { feed had been put in them, grow so thir }
\end{aligned}
$$

$$
\begin{aligned}
& \text { suckling her family that she is verily } \\
& \text { yielding up her life to the demands }
\end{aligned}
$$

$$
\begin{aligned}
& \text { embodies a very nice sentment, but it } \\
& \text { illustrates no evidence of a generous ap- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { not raising swine sentimentally, but we } \\
& \text { are trying to do it profitably, and may }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The pig's stomach is small, and needs } \\
& \text { filling often. For a while after weaning } \\
& \text { I feed four times a day, and as the pigs }
\end{aligned}
$$

all they will eat, and no more. From

$$
\begin{aligned}
& \text { principally by corn and milk. If the } \\
& \text { corn gets too dry and hard, I soak it. }
\end{aligned}
$$


ulative notion that pork will be higher in a month or so, I can keep them that the limit of most profitable feeding. It
may be needless to add that the market does not always do what I think it will.
Bearing this in mind, I generally sel when my pigs a

## HORSE TALK

## Ground corn and oats with some whea

middlings and oil-meal is a good combination for slow heavy work.
There should be about a peck of cut


WE SAVE YOU MONEY
ADVANGE FENOE
 The Superior Cream Extractor




ILLSSRRAFIIG is a Moner. Idsing

 rrespondence Instltute of America
Box723,
EORANTION

 Min
HEAVES CAN BE CURED
 ABORTION $\begin{gathered}\text { Retention or Placenta } \\ \text { aud } \\ \text { Falure } \\ \text { to Bread } \\ \text { Breat }\end{gathered}$ in staring coats and labored breathing.-
Farm Journal. Kellogg's condition Powder is alanositive cure for


## Live Stock and Dairy

## COW-CATCHERS

TThe average cow in kept at a loss, The census figures show that her hundred and thirty pounds. The director of farmers' institutes of Pennsylvania, whom clery one knows is an au-
thority on milking, says the averagc in thority on milking, says the average in
that state is one hundred and forty pounds, the ten pounds in excess of the general average bcing no doubt due to the superior dairy instruction the farmers have received. Counting the cost of her feed, the labor in milking and feeding her, interest on the investment in her and the perccntage of her deterioration, it does not require mucli arithmetic to show that the onc-hundrcd-and-fortygeneral average is not to be considered.

It does not require much arithmetic, but the averagc dairyman, who is gencow, does not want much arithmetic There are many things about farming, as well as about other things of life, preferable to actual knowledge.

Why keep the cow that is adding noth ing to the credit side of the dairy account? I don't know. Milking, feeding, watering cows and cleaning stables are
not jobs generally regarded on the farm not jobs generally regarded on the farm
as things so pleasurable that the question as things so pleasurable that the question over the average cow with her deficit is over, the average cow with hicr deficit is
taking the place and the time of the good cow that would make a surplus.

We may reasonably conclude that the crage cow is the general-purpose cow keep in order that it may be fulfilled that which is written concerning her existence. Their Jekyl-and-Hyde characteristics consist in their performance of
making work and manure-tlings quite making work and manure-things quite
necessary on all well-regulated farms.

As a general proposition, a cow must make two hundred pounds of butter to
pay her way. This figure of course is in pay her way. This figure of course is in
a stratum far above the average cow of
lat a stratum far above the average cow of


GLENDON-FOUR-YEAR-OLD GUERNSEX
making two hundred pounds of butter each, are doing a deal of work to make wages. Swap those twenty cows for
twelve that will make two hundred and fifty pounds each, and let the wife tend fifty pounds each, and let the wite tend
the chickens, or the children, or even take the chickens, or the children, or even take
a rest, and the extra six hundred pounds a rest, and the extra six hundred pounds
are net profit, and at twenty-five cents are net profit, and at twent-five cents
a pound will pay all the taxes and buy a an carpet or-but there will al ways be plenty of ways to dispose of the profits of the dairy.
Breed the two-hundred-and-fifty-pound dairy up to a three-hundred-pound one, and contrast its operation with the two-
hundred-pound twenty-head old herd, and hundred-pound twenty-head old herd, and we have a home-made object-lesson il
lustrating the difference between produc tive and non-productive labor.

Add the best heifers selected from these three-hundred-pound cows to the her $t y$ is reached again, and let their product
who are G. was presented showing the descent
be the wage of the son who is looking townward, and kecp him at home. Such a proccdure will of course play havoc with thc personal notion that beef-andbutter cows are possible in actual dairying for profit, but it will nal crop of the
long year blight the annual dual-purpose champions. W. F. McSparran.

## AS TO MORGAN HORSES

R. C. B., Albcrt Lea, Minn., writes Is the Morgan horse of anywhere nea pure blood yct to be found, and durance claimed for him by those
vere faniliar with the brced in the East a generation ago? Such a liorse, if he could be found, would be invaluable for road and general use on the roads in the
Northwest. Who is the secretary of the Northwest. Who is the secretary of the Torgan Horse Association?
Thanks to the efforts of some determined and level-headed men, there are till Morgans cnough left th us to preven eral men make a specialty of breeding these horses, and of later years have succeeded in piling up enough Morgan crosses one on another to make the animals very well bred in Morgan lines. It is probable that the Morgans were not nearly so far gone toward extinction a some folks imagined. Thcy are long ined, vigorous animals, and many a stal is strong in the blood or Jusce to which means the death or at least the impotence of most other sorts They were widely scattered, but when the de vore widely scatered, but when theok to find them, in order once more to exploit their merits, they were forthcoming, fortunately for America. Some of the breeders of Mor gans can therefore supply young horses tracing to Justin Morgan on both sides of the house, and there are several strains all well worthy of the name. The Golddusts may be named as one of them, and the Herods and Bashaws; and all through Wisconsin, Michigan, northern Illinois and Minnesota there are to be ound Morgan stallions whicli may be re qualities of the strain.
In a recent issue a letter from M. T. of the Morgan horse, and from the fac
then submitted it is plainly seen that the blood of Justin Morgan, the founder of the family, must of necessity flow now in many channels. Some of the various subfamilies into which the original tribe di-
vided itself in the course of yors well-nigh disappeared in anything like purity, but here again it is anthing like purity, but here again it is a matter of
degree. It will not be hard for the correspondent to obtain a young horse rich in Morgan blood.
"The Morgan Horse Register" is edted and conducted by Joseph Batell, Middlebury, Vt., to whom the thanks of all admirers of the Morgan horse are due for his untiring efforts in behalf of the breed. -The Breeder's Gazette.
energy wasted is feed lost
Every timc the cow slashes her head around at the flies, or even switches her tail, she is using up energy that took to replace Therefore spray more to replace. Therefore, spray the cows


## This Watch FREE

We MOVEMENT Reequar sixteen size and only three Make You a Present of a


THE GUARANTEE ${ }^{\text {In every }}$ found with will be


 BOYS
Do you want to get this watch?
If so, send us your name and address on a
postal-card to doy, and ask for a book of six courons, and say you want the vatch. We will send by return mail a receipt-book containing
six receits, each one of which is good for a
year's subscription to the FARM AND FIRESIDE year's subscription to the FARM AND Fireside,
one of the best farm and home papers published
In America. We will also send a sample copy of the paper, so you can judge of its merit for yourself. vantage of a chance to get a good paper one year for 35 cents. When the receipts are sold, you send the money to us, and we will send you the watch. Hundreds have earned watches by your plan,
and you can do it in one day's time. Write today. Be sure to ask for a book of six coupons.

Address FARM AND FIRESIDE, Dept. N, Springfield, Ohio

## PERFECT EGG-SEPARATOR



This cut represent our new patent eggseparator. It separates the white from the yolk of the egg in a most satisfactory way, leaving a particle of the white and
yolk together. It is one of the few indispensable house-
sought after by every housewife. The separation of the egg is instantaneous and absolutely complete. Order as No. 827 .

We will send the Perfect Egg=Separator, and the Farm and Fireside one year, for only

## 40 cents

Or given for sending ONE new yearly subscription (not your own nor any member of your family) to the Farm and Fireside
Address FARM AND FIRESIDE, SPRINGFIELD, OHIO


## "Lamp=Chimney Stove"

Invaluable for its convenience and
economy. Made of bright brass, compact and ornamental.
To heat curling-iron, use as shown in cut, and the handle of the curler will be thoroughly protected from
the heat. To heat water, use as shown in cut. One of the heat. To heat water, use as shown in cut. One of
the most economical and useful household articles ever offered to the public. Indispensable in the sick-room.
Heats water for sliaving in a jiffy. Doesn't smoke the cup. Order as No. 823.
Farm and Fireside one year and Lamp=Chimney Stove, 40 cents, by mail, post-paid
Or given for sending ONE new yearly subscription, not
your own nor any member of your family ven for sending ONE new yearly subscription
your own nor any member of your family
Address FARM AND FIRESIDE, Springfield, Ohio

## She Sonamest Store

A Thoroughly Great Accomplishment of Our Piano Business



O YOU ever look back over
the conditions in the piano business, and note how policies have changed in recent years? Do you realize that things were radically different only four years ago? And then the WanaMaker Piano business began to be felt in New York City.
With it came the One-Price System. With it came the Club plan of easy monthly payments, without increase of price.
With it vanished all doubt and uncer-tainty-all the old mystery that was formerly the bugaboo of piano-buying With it eventually came

## The Frederick Doll Piano at \$185

willing to pay the largest price, and rely on well-proved names; but the moment willing to pay the largest price, and rely on well-proved names; but the moment
one started to try to make a moderate amount of money secure a good piano, the trouble and danger began

Our experts spent two years of work among manufacturers in studying and planning to produce pianos of thorough excellence at a moderate price. And the successful outcome of that endeavor has proved of the broadest public benefit to musical people who wanted a good piano at reasonable cost.

The Frederick Doll piano is first of all an instrument of clear, mellow tone, accurately scaled. There are no shortcomings such as are almost universal in other pianos at or near its price. It possesses tone and action that satisfy the musical ear and touch
Then the Colonial cases have the thorouglly artistic finish that pleases
eople of particular taste. Few pianos at any price are more refined in style people of particular taste. Few pianos at any price are more refined in style. Those who do not wish to pay cash for a piano will be interested in knowing
that they can arrange to pay for a Frederick Doll piano on the easy terms of

## \$10 Cash and \$6 a Month

Buying at the same price, $\$ 885$, and paying only at the low rate of 4 per cent per annum on the unpaid part.

We will ship the Frederick Doll piano anywhere.

## The Western College for Women <br> oxFORD, OHIO

Delightful location in the beautiful Miami Valley of southwestern Ohio, one hour from Cininnati, on Monon and Vandalia Express routes. Full classical courses and many electives. Superior advantages in Art, Piano, Voice and Violin. Campus of sixty-five acres. Special attention to physical culture. Forty-ninth year begins Sept. 9, 1903. Number limited to 200 .
Where shall you educate your daugh-
er? Shall she go a thousand miles from home and spend a thousand dollars a year,
or may she find a college offering equal advantages nearer home and at less than half the cost?
Shall she choose a college of a thousand students, or one where the number is limcome into direct personal contact with the members of the Faculty?
Shall she go to some Conservatory of Music which does not offer general culture.
or shall music become part of a complete or shall music become part

## The Western College offers:



1. A four-years' Classical course for the B.A. degree. 5. A healthful location, a beautiful campus, com-
2. A three-years' Literary course for a Diploma.
modious buildings, scientific physical training
3. A three-years' Literary course for a Diploma. modious buildings, scientific physical training, A wide range of elective studies. with golf, lawn-tennis and basket-ball fo
Terms, $\$ 300.00$ a year, with an extra charge of $\$ 00.00$ for divar exercise.
Visit The Western before you decide, or send for copy of "Undergraduate in music and art. LEILA S. MCKEE, Ph.D., President


## F. A. AKINS

THE world delights in a successful man. In his struggles, aspirations
and triumphs each recognizes his and triumphs each recognizes his
own spirit, his own life as he would live it. From him inspiration is drawn; to him men look for the enunciation of their principles. "Nature seems to exist for the excellent," says Emerson. "The
world is upheld by the veracity of good world is upheld by the veracity of go,
men; they make the earth wholesome." Francis A. Akins stands for what is best in American life. Energetic, pushing, loyal to friends, just to opponents, ready to speak a cheering word or lend as naturally as the needle points to the pole. For years he has been prominently identified with grange-work. With pen and voice, in public and private life, he has championed the farmers' interests. Mr. Akins was born January 2, 1849, in
Mayfield, Cuyahoga County, Ohio. His

F. A. AKINS
parents were then living in a log house on the farm which they still own. His father was born in Ohio, and his mother, one of New England's successfful teach-
ers, traces her ancestry to the sixteenth ers, traces her ancestry to the sixteenth century. He inherited a taste for learning along with sturdy New England grit and sterling integrity. The education of
the district school and a cademy was supthe district school and a a cademy was sup-
plemented by serious collegiate work at Collamer, Oberlin and Berea. After Collamer,
teaching several terms, he rented a farm, teaching several terms, he rented a farm,
fenced it himself, raised potatoes, and to use his own words, "clearec' four hundred and fifteen dollars the first year,
and never felt so rich in my life," In and never felt so rich in my life." In
October, 1876, he married Miss Mattie October, 1876, he married Miss Mattie
E. Eddy, of Erie County, where he has since lived.
Mr. Akins owns and successfully manages a large farm. Its beautiful buildings and well-kept grounds indicate a love for the artistic. For thirteen years he has been officially connected with
the Erie County Farmers' Insurance Company, four times represented his Company, four times represented his
county. in the State Association of Mutual Insurance Companies, and has twice been president of the state association. In 1890 he was elected Secretary of
Ohio State Grange, and served in that capacity for ten years. His books were perfectly kept. It was only upon his
insistent refusal to serve longer that his insistent refusal to serve longer that his
successor was elected. The same year successor was elected. The same year Executive Committee. At the expiration of his term of office he declined reëlection. The grange, however, is confident
that he will serve its interests as zealthat he will serve
ously as in the past.
ously as in the past. thing done for farmers, they are the ones
who must see that it is done. They who must see that it is done. They
must not only ask, but insist on having. justice, and stay by their demands until they secure them. Such men are a
power in their profession. "They make power in their professi
the earth_wholesome."

## an ethical matter

How much better is he who votes for a known corruptionist than the corruptionist himself? What moral difference
is there between a congressman who aids in forwarding or suppressing unjust legislation favorable or inimical to a
favored industry, while prejudicial to the favored industry, while prejudicial to the
people at large, and the man who votes people at large, and the man who votes
for him on the grounds that he has for him on the grounds that he has
looked after the interests of his class or
got himself or friends a job? The lobby ist pits his dollars against the congress-
man's vote, knowing full well that "money talks." The congressman pits his influence against the votes of his constituency, playing for their votes. And men who pride themselves upon their righteousness and civic integrity, and are indignant because a sack of flour, a jug of whisky and a chunk of meat goes to John Smith for his vote, will unblushingly cast their ballot for the same man, saying at the same time, "I thing to forward his own interests, bint he got me a pension my brother a but he got me a pension, my brother a posiScoundrels are needed in office to beat the other scoundrels. I will stay by the bridge that carried me across." Such voter will find no sympathy when his bridge is used to carry another voter across at his expense.

The question arises, Have we not as honest officials as we desire? If we have private interests at
stake, do we not want culpable stake, do we not want culpable
men in office who can be bought? men in office who can be bought?
Do we not demand of them that Do we not demand of them grat
they vote not for what is the greatest good to the state, but for that est good to the state, but for that
which will directly benefit the voter, regardless of whether the issue is right or wrong? Is the hal value of cupidity in the booth ditCongress? Is it not a matter of degree only? Can we expect a high type of morality in the branch that springs from a tainted root? Let us demand in our officials a higher type of civic morality, and as a
guarantee, vote for the most honguarantee, vote for the most hon-
est and capable men who can be est and capable men who can

## education pays

The Portland "Board of Trade Journal" summarizes an address made by Hon. W. T. Haines before
the Waterville (Maine) Board of Trade. The fact that education pays in dollars and cents is shown by the following:
"(I) That an uneducated child
has one chance in one hundred and has one chance in one hundred and
fifty thousand of attaining distinction as a factor in the world's progress. will (2) That a common-school education times. "(3) That a high-school training will increase the chances of the common-
school boy twenty-three times, giving school boy twenty-three times, giving the uneducated.
"(4) That the college education increases the chance of the high-school boy nineteen times, giving him two hundred and mon-school boy and more than eight hundred times the chance of the untrained."
Not only does an education pay many fold in dollars and cents the time and money spent upon it, but it also pays in enjoyment of the best the world has to
offer. He only can be said to live whose offer. He only can be said to live whose senses have been trained to quick perthe creation of man's genius and skill: the creation of man's genius and skill;
whose conscience is alert and sensitive; whose conscience is alert and sensitive;
whose will follows the dictates of his conscience, and whose body is the servant of his will; who can recognize the divinity of his own soul, and honor and love a like quality in others; who can
readily distinguish between good and ill readily distinguish between good and ill, true and false. He lives the best who serves best the various functions for which he was created-that of getting on in the world in a financial sense, reproducing his own species, and preparing it for carrying on the work he will
sometime lay down, making himself of sometime lay down, making himself of drawing from Nature and Art inspiration and enlightenment, and developing the and enlightenment, and developing the in unison; in short, a complete, symmetrical development of body and soul. Unjust and merciless indeed is the parent who throws obstacles in the path of his child against the attainment of that culture that. will enable it to live completely. He merits the universal contempt and condemnation he receives.

## THE OBSERVATORY

A good lecturer and a good library mean a progressive and influential grange.
Rest and recreation are as essential in a well-developed, symmetrical nature a arduous application.
What condition of affairs would be dis closed if other federal department
sides the postal were investigated?

# The Farm and Fireside for August 1, 1903 

## ing through B.'

 and. The ditch of Can Be to B.'s ditch. his ditch so it will not I certainly thinkthat B. can compel A. to keep his ditch
in such condition that it will not cause

## VOTING-AGE

M. J. P., Ohio, inquires: "How many days before my son is twenty-one years
old will he be allowed to vote? He will be twenty-one the 16 th of April next.
Will he be allowed to vote three days Wefore that date?"

By reason of the law not recognizing fractions of a day, it is considered by common-law writers that a person be-
comes of age on the day which precedes his twenty-first birthday.

COMPENSATION OF EXECUTORS the laws of the state of New York, what fee does one of two executors of a small estate receive, the estate consisting o
both real and personal property-the property of a widow none of whose chil
dren are minors?
The executors in New York are al sand dollars, and two and one half per cent on additional sums, not amounting

## DUNNING ON A POSTAL-CARD

J. B., Ohio, asks: "If I hold A.'s note, and I write to him on a postal-card that come and settle, is that against the law and does it cancel the debt? Please give me the information by mail, and greatly blige a subscriber
without an inclosure of one dollar The above card would surely not cancel the debt, neither am I of the opinion that it would come within prohibited matter of the United States mail.

## WIDOW'S RIGHTS

E. V. D., Ohio, asks the following: "A man having real estate and money ow, but no children. What is the wife's share, and does she retain it only during In Ohio the interest of a husband or wife in the real estate of his or her de-
ceased consort differs in regard to whether the real estate has been inherited or purchased. In case of inherited real estate, the wife has a life estate where there are no children, and purchased real estate she gets absolutely. The personal property

## INHERITANCE-TAX IN NEW YORK

J. B. S., Virginia, makes the following query: A man dies, leaving two thou-
sand dollars to each of his brothers and half-brothers, ten in number, all children of the same father. The executor claims that the law of the state of New York fixes the inheritance-tax at one per cent, it is five per cent on half brothers and sisters, and I would like to know if such
the law of the state of New York."
The correct answer to the above query

## The Family Lawyer <br> By JUDGE WM. M. ROCKEL

rented, and is of age
a $n d$ married, goes across this road on
to A.'s land, and gir dles timber without
A.'s knowledge or consent, and al
cuts down and d stroys young t
What relief ha under the law
North Carolina
involves the question whether the word "brother" in the statute, would be hel that this statute, as to exceptions, should "be liberally construed, and that the word brother," and I would advise the executors not to pay the five pe
the courts decide otherwise.

## WIDOW'S PORTION

J. M. P., Massachusetts, says: "B the laws of the state of Massachusetts, property does a widow receive if there can she remain in the house, and will she be allowed the widow's dower?

> The wife has dower-that is, life e ate-in one third of the real estate, and she gets one third of the personal prop-
erty absolutely. She may remain in the house forty days, with full use of the furiniture and surroundings.

## DIVORCE

P. V. K. wants to know": "When a man or woman becomes insane, and is sent to the insane asylum for ten or more years, and is pronounced incurable, can a man marry again, or can he get a diNelson on "Divorce and Separation," ute provides that a divorce may be ute provides that a divorce may be
granted 'where either party shall, subsequent to such marriage, have become permanently or incurably insane.' Sucl a cause for divorce has not been enacted in other states. The statute of Washington very wisely provides that 'the court may, in its discretion, grant a divorce in case of incurable chronic mania or dementia of either party , having existed

## SELLING OF LANDS DEVISED

L. G. C., New York, 'asks: "C., of New York State, has no children, but nieces He and his wife jointly own and nieces. He and his wife jointly own real mortgage debt on the land. Is a will alid by the husband to his wife bequeathing all his property to her during her natural life after paying all his debts, and he same being bequeathed after the deand to hold forever? Who can sell the land, pay the debts, and give a title for the land?"
Yes, such a will would be valid if prop-
erly executed. If it is necessary to sell erly executed. If it is necessary to sell the land to pay debts against the estate,
it should be done by an administrator appointed by the surrogate court.

## TRESPASSING ON LANDS OF ANOTHER

C. H. E., North Carolina, writes: "A. runs parallel with the line between them, but entirely on $A$.'s side. On A.'s side cultivated field. A.'s land is lawfully

his department
B.'s son would certainly 1
to go onto A.'s land and in take or destroy the timber, and if
o he would be liable for dama he would be liable for damages. I is possible that under the laws of your
state you might have him arrested for malicious destruction of property.

## LIMITED COMPANIES

N. R., New York; puts the following
query: "What does the word 'limited' query: "What does the word 'limited
signify after a company's name?
Must shares of stock and Must shares of stock and seals of corporations contain the name of the state in
which the company is incorporated to be valid? - Would shares be all right any one on the back? ? Is there any any one on the back?--Is there any companies to make shares law-abiding and profit-sharing? If so, what are they?"
The word "limited" used after a comThe word "limited" used after a com ited to the amount they have invested or the stock they hold for any liability the company may have. Such companie are generally formed under special pro
visions of law, and are neither corpora tions nor partnerships, but are organized as the various statutes may provide.-.
No, I should think not.- Yes, I should think they would be.-I suppose the are special clauses, but you will have t
consult the statute of your own state.

## DIVORCE

A. W., Vermont, states her troubles as follows: "Can a woman secure a divorc in Ohio if she now lives in Vermont, an how long will she have to live in Ohio before she can secure a divorce? He
former home was in Ohio, and she ha not resided in Vermont long enough to in cold-heartedness, leaving her wit no money and not enough fre-wood
one day, the thermometer standing one day, the thermometer standing at quarrel, or anything of that kind. The out, on account of his indebtedness he owed everybody that he could
anything of, and had everything un mortgage that he had, his wife knowing nothing about it until the sheriff came two days after her husband had left. I has been over four weeks since he left, ing to live on, and his place will be sold under mortgage. Can she get a divorce from such a
former home,
stay here lon
In Ohio and
fide residence
before a divorce cane year is require
would be true no matter what and this
might be. It may be questionable whethe a divorce could be secured in less than three years under the above statement o facts, that time being required for a di able whether there is such is question in this case as would be sufficiens to tain a divorce before that time.

TO CURE POISON-OAK Apply a fifty-per-
cent aqueous solution of ichthyol, using of ichthyol, using a and making as black a stain as possible,
exposing it to the friction of the clothes. This is recommended by Dr. C. E. Lew THE THERAPEUTIC ACTION OF BLUE ELECTRIC-LIGHT
M. Minier calls attention to the sedative and also anestretic action of blue influence of blue electric-light a granular surface becomes anemic, but becomes, on ence of white light. Two minor surgical operations are reported where anesthesia of the parts was obtained first by ex-
posure to blue electric-light. One involved the removal of a piece of glass, the other the placing of several sutures.
Both made excellent recoveries. f Advanced Therapeutics.
THE PREVENTION OF JUVENILE SMOKING Some particulars as to the great in-
crease in the sale of cigarettes that has crease in the sale of cigarettes that has interest. A single wholesale firm of cigarette-manufacturers which formerlv

## The Family Physician <br> 

made and sold only a quarter of a million cigarettes a week now disposes of five
million in the same period, and another wholesale firm which at one time had practically no business at all in this article is now manufacturing no fewer than
thirty million cigarettes a week. Special machinery, it is said, has been devised to cope with the demands of the boy smoker
One firm alone employs fifty One firm alone employs fifty machines and each machine turns out two hundred put running into the millions.
Some striking illustrations have recently been given of the effects of cigar-ette-smoking upon schoolboys. In a it was found that the boys were very much inferior to the girls in every wa
It was also discovered that a large mat It was also discovered that a large ma-
jority of the boys were habitual cigarettesmokers. An investigation was ordered, to ascertain exactly how far the smoking was to blame for the boys inefficiency
and low moral condition. Twenty boys who were known to not use tobacco in any form. drawn by 10 t. and twenty boys
being a little over fourteen. Of the twenty smokers, twelve had smoked more wenty boys used cigarettes, while some The used pipes and cigars occasionally. in the smokers: Twelve of them had poor memories, and ten of the twelve were reported as very poor; only four wenty boys had a good memory; twelve were in poor physical condition, six being
subject to "sick spells," and were pracsubject to sick spells, and were pracwere reported as being
but none was excellent.
Comparisons were made in Yale Uni versity between smokers and non-smokers
for eight years. As compared with the or eight years. As compared with the our per cent in weight, thirty-seven pe and 8.36 cubic inches in lung-expansion Attempts have been made by the legislatures in thirty-three states to grapple known to be
arette-fiends," closely observed fo ten teachers. Th ages of the boys were from ten to seven-

This wagon is made of the best material through-
out, and really costs but a trifle more than a set of new wheels, and fully guaranteed for one year.
Catalogue giving a full description will be mailed
upon, application by the Empire Manufacturing
Company, Quincy, IIt., who alpo will furuing
wheels at low prices, made any size aud width of of
wid

## We want Girls

and boys in every city and town, who are bright and energetic, and who want to make some money for some particular purpose, or who most pleasant work possible, and will bring you in contact with the finest people. Can be done Farm and Fireside, Springfield, Ohio.
TO LADY AGENTS


## Paint Your House With Carrara

And Have it Guaranteed to Look Better, Wear Longer and Cost Less Than the Best White Lead Paints

We Send Name of Nearest Carrara Dealer, 50 Sample Colors and lllustrated Book, Who Send Name and Address There is but one "Carrara." It is made by the
Carrara Paint Agency, 1o5ı Carrara Building, Cininnati, Ohio, and it is the only paint in the world that
 cids or gases, and it
covers more surface, gallon for gallon, than
the best white lead and oil, and costs less paints that injure more
$\qquad$
Carrara is used by
Pe Pensylvania R.


## the Denver \& Rio Grande Railway, and thou- sands of others of the largest and most particular

$\qquad$

## Astoria hotel of New York, one of the finest in the world, has used tons of Carrara because it is the

 For interior or exterior it has no equal. Smoothand clean, it has stood the rigid test of time and
mann. If you want to save half your paint bills, send your name and address for nearest distributing
depots; fifty sample colors and a beautiful illustrated houses just as they have been painted with Carrara,


Farm Wagon only \$21.95
In order to introduce their Low Metal Wheels
with Wide Tires the Empire Manufacturing Com-
pany, Quincy, Ill., have placed pany, Quincy, ill., have placed upon the market a
Farmer's Handy Wagon that is only 25 incines
high, fitted with 24 and 30 inch wheels with 4 incb

-

## the blue gentian

MANY of our wild and garden flownected charming stories connected with either their name
or their early history. Some of these stories deal with real persons o facts, while others are imaginative, bits o
charming folk-lore of some old country. harming folk-lore of some old country.
There is a curious little story about

There is a curious little story about
name of the gentian. We are all familiar with the the name of the gentian. We are all familiar with the
species known as the fringed gentian. It blossoms species known as the fringed gentian. of the deepest, darkest blue. Bryan says it is

## Blue, blue, as if the sky let fall

Each blossom is a funnel-shaped corolla consisting of four fringed petals

The story of the flower's name goes back to a time
hundred years before the birth of our Savior. The country directly east of the Adriatic Sea was known as Illyria, or Illyricum, and was ruled by King Gentius. This sovereign was daring enough to attack the Roinans. While his army was in the field many of the soldiers fell ill with a form of malarial fever.

The forces of Gentius were hard pressed, and the few remedies used in such cases were not to be pro-
cured. The king iwas a student, being well versed in cured. The king was a student, being well versed in the rude medical lore of the time, so he selected a plant that grew in that vicinity, and ordered that the sick men be given an infusion of ridly.
In honor of King Gentius the plant received the Latin name of "Gentiana," and the name came to be applied to all the species of this plant family. The
particular plant used by Gentius was quite different from our fringed gentian, being much taller and having yellow flowers.

The king whose name is thus preserved met with a
fate. His army was overpowered by the Romans, sad fate. His army was overpowered by the Romans, Illyria was annexed to the Roman Empire, and the
proud king was taken a captive to Rome. There he was obliged to march with bare feet and head in the triumphal procession of his conqueror. In that time of sorrow and despair he little thought that centuries
later his name, now applied to a flower, would be a later his name, now applied to
familiar and well-loved word.

When Europeans came to America they found species of this plant growing here. The fringed gentian's botanical name is "Gentiana crinata," and its beauty has made it a general favorite with flower-lovers. The "closed gentian" gets its name from the shape of the corolla, which always looks like an unopened bud. On the Atlantic Coast grows still another species, known as "five-flowered gentian." Hope Daring.

## THE FARM GIRL

In many papers and magazines are found articles in favor of the farm boy. But what of the farm girl? It is true that more boys on the farms are deprived of
education than girls, but I know of many instances education than giris, but know of many instances where the giris have an equally hard furrow to plow. In many families the care is scarce, but I think with a little care the country lass can be made to look as
sweet as the village cousins. Many people seem to swink that because they live in the country they can go shabbily dressed, as "no one sees us, anyway."
I know when girls have to perform labor which propI know when girls have to perform labor which prop-
erly belongs to their brothers, such as milking, choring, chopping wood, and other "easy tasks," it rather wearisome to keep neat, but it can be done Farm girls very often lack the charming manner of the village girls, yet there is no reason why they should. There are good books and papers to be had,
clothing material is cheap, and neighbors are not so clothing material is cheap, and neighbors are not so
scattered as they used to be. If the farm woman could only teach her boys and girls ease, grace and selfonly teach her boys and girls ease, grace and selie
forgetfulness, and give them all possible opportunities torgetfulness, and give them all possible opportuniteat to mingle with other young people, what a great advantage it would be. Furthermore, parents should teach their boys and girls to help one another. If
the girls must milk, let the boys chop the wood; if the girls must do chores, let the boys carry wash-water
and help with the dishes. It would not harm the boys to know how to mend, and sew on buttons, and learn to cook, nor would it harm the girls to know how to perform various kinds of outside labor
In many families the boys have
In many families the boys have more time to devote to study than their sisters, for when supper is over they can go and read and study, while to the sisters remain the tasks of milking and washing dishes, and many other things. Then people comment wonderingly at the ignorance of the farm girl! When the
farm girl ventures to the city, or even to a village, she is scoffed at and mocked. Her garments are not up to date; her hands are coarse and red, and her church or attend a public gathering, the "sisters and brothers" gather up their dresses and coats, and glide
past her. They are so deadly afraid of "hay-seeds." A haughty, pitying glance is all the farm girl receivesa pity she would never ask for
Why should not the farm boy and the farm girl be educated equally? Why not given the same opportunities? Why not lifted from drudgery, and helped to at-
tain the highest spiritual and intellectual growth? tain the highest spiritual and intellectual growth? I
know many families cannot give their children all they would; but I also know that many do not do as much for their children as they could. Thinking-strong, our farmers need. Meta R. Bachmann.

## the speed of a house.fly

The common house-fly is not very rapid in its flight, but its wings make eight hundred beats a second, and send it through the air twenty-five feet, under ordinary circumstances, in that space of time. When the insect is alarmed it has been found that it increases its rate
of speed to over one hundred and fifty feet a second of speed to over one hundred and fifty feet a second.
If it could continue such rapid flight for a mile in a straight line it would cover that distance in exactly straight line it would cover that distance
thirty-three seconds.-American Cultivator.


It makes me drowsy to sit and dream Thing
That swing In August:
The apple-tree bough is swaying now As my lassie perches and softly lurches,
But I read the end, as the green branches bend, Of the things

That swing In August.
It makes me lonely to sit and watch All the things

That swing
Tis the hammock now, and two, I trow Watch the songsters perching above their lurching, And one of them softly is wooing;
While I hush my sighs as my keen mother-eyes
Note the things
That swing In August.
The hours grow late as I watch and wait
For the things
That swing In August:
The sweet moments pass for lad and lass
As the gate's a-swinging and bright Hop,
While I wait alone; in young days I have known
The dear things
That swing In August.
I cannot stay one hurrying day,
Or the things

## That swing

Round swung the year, bringing bast
y her cradle-side, as days peacefaby dear
roons grandmother, happily rocking
As the low chair swings, the young mother-heart sings Of the things


## A FATHER'S VERDICT

What a delightful old man he was! He was out of active business, living on a very moderate income, in a simple but comfortable way, just a plain, cheerful life. All the people in the village and country round about knew him. Some of them called him affecionately by his first name. It took him a good while to walk up or down the street; he had to seak to so many people, young and old, rich and poor; to make so many inquiries about the health of
he people; to send so many messages of cheer, and o scatter such a lot of sunshine as he went along. The Psalmist would have put him into a psalm if he had known him. He did write several psalms for just such people as this cheerful white-haired man. His children were no longer at home with him, though he was never quite unconscious of them. He told me hat he knew all about those Scotch parents and their scholar son-the Ross parents and the Professor-in
Maclaren's stories, but he, like them, would have Maclaren's storie
scorned to boast.
He was speaking one day of a neighbor, a very rich man. This neighbor had just made a lot of money which he did not need, and then invested it neighbor had been telling him about his splendid inestment, which had doubled his money in an incredvestment, which had doubled his money in an incred-
ibly short time. It was the talk of the small town, ibly short time. It was the talk of the small town, and there were many to envy the man who had struck
it rich. It is ever so. Everything he touched turned to gold, and people called him "fortunate." So he was, within limits, though such fortune has to be
understood and explained. My old friend did not envy understood and explained. My old friend did not envy
his rich neighbor, nor scold about him; he was too his rich neighbor, nor scold about him; he was too
wise for that. No sharp words ever escaped his lips. wise for that. No sharp words ever escaped his lips.
He also might have been rich. He knew it. He might have left to his sons many thousands. He knew hat, also. He had chosen otherwise. Not a scholar himself, though a man of rare intellectual quality, he
sent every son he had through college. His sons were
proud of him, and all their friends loved ll the town was a man. But when vestments, and was thinking of oil and coal lands, he was heard to say with knew, "I calculate that I as of one who kning about investments myself, having an investment in Christian education just about beat them all. It pays big dividends, and pays them right not affect them. I have tried it B The markets do sand dollars into the making of man than a many thousands into the making of more thousands" And those who stood by remembered how the ol man's son had been converted in a Christian college, and how he had gone as a missionary. And they wer silent. The talk of money did not seem to belons in that atmosphere. They were thinking of their own boys and girls. "I give my verdict for Christian ed ucation," he said, moving away. That night in several homes there were councils and prayers while childre slept, but the next morning for more than one boy open.-Rev. Wm. F. McDowell, D.D., in the Pitts burg Christian Advocate.

## JAPANESE FLOOR.COVERINGS

Among the many ideas which the Japanese have copied from Western customs, and then remodeled t matting in a way peculiarly their own. The matting itself is of much the same structure as that seen her and known as China matting, being perhaps a little thicker, and is stretched upon frames of wood two three inches thick. Matting of an inferior quality is stretched over the lower part of the frame, while the space between the upper and lower mattings is filled in with shavings of straw. This kind of matting is adapted to the habits of the Japanese, many of wer, use no chairs. Where chairs are used, however, pieces of wood resembling sleigh-runners are
nailed to the legs of the chairs, thus preventing a leg of the chair from piercing the much-prized matting The standard size of a mat is three by six yards. The custom of using these mats is so general, that when building, the Japanese architect arranges the size of the rooms to fit the mats, and when renting a house the mats, as the case may be-Modern Priscill a or thre mats, as the case may be.-Modern Priscilla.

## QUEER THINGS

A Massachusetts farmer drives a team of cows India's population is three hundred million-on fifth of all the people in the world
The first Union flag was unfurled on January The first English hymn-book
used in public wor ship was by Isaac Watts about I7I5
hatched at the New York Aquarium fishes have been It takes the constant labor of sixt
to make the matches used by mankind
It is unlawful for a doctor in France property left to him by a deceased patient
A single perfume-factory at Cannes uses three hur dred thousand pounds of flower-petals in a year.
There was no graveyard in St. Louis before 1776 Previous to that the dead were buried in the neigh borhood of the dwellings.

The number of irrigating ditches and canals in operation in the United States exceeds twenty thou sand, and their combined length is not less than fifty

## SOME INTERESTING FACTS

Marconi wireless telegraph is being installed at the Italian embassy P . While no recurrence of a equipped with means is expected, it will be well to be The speed-trials, of the new Austrian second-clas battleship "Arpod" prove her to be the fastest battleship in the world. Her maximum speed is 20.12 knots an hour, and she made an average of 19.65 in a six hour run.

According to the statistics of the Department of Agriculture, the total area planted in cotton in the United States this season is twenty-eight million nine hundred and seven thousand acres, an increase of one million and twenty-nine thousand acres, or 3.7 per

## VALUE OF SMALL FISH

The value of small fish-goldfish and sunfish-in keeping ponds free of mosquitoes is very great. I put some catfish in a bucket containing mosquito larvæ, the introduction of the fired thenty-four hours after destroy larvæ is interesting be lact that catfish will pools are so muddy and filthy that goldfish and sunfis will not thrive. in such catfish would seem to be the remedy.-Harvey B. Bashore, M.D., in The Sanitarian.

## THOUGHTS BORN OF THE MORN

## Y LIDA m. KECK

Morning! A day is born-
A gladsome, golden, glorious day-
Bright dewdrop gems and garlands gay
Morning! Oh, glorious thought
With new life pulsing in the veins,
To rise, enriched by all the gains
Past days have brought!
Morning! The chance is ours To pierce the mountains' purple haze
And, wiser grown from yesterdays,
Strengthen our powers.
Morning and dewy sod;
Morning and landscapes fair
Morning and soul-felt prayer
Morning and-God!

## Sunday Reading

## SOME DAY

## BY T. THOS. HARBINE

Some day the patient sun will rise, And circle round a Land of L
Serenely beaming from above Serenely beaming from above
On happy hearts and laughing eyes.

Some day the stars will twinkle down Upon this old world filled with peace, cease

## Nor face of man grow dark with frown.

Some day, some day the moon will glow When none shall feel the pinch of need Where'er the vagrant winds may blow

May oh, haste that happy day! And rise to true nobility
When might to right hath yielded sway.

## "THE BEST I COULD

IEsther home, grandma? "No, dear; she's gone "Oh, I'm sorry to
 Grandma must have noted the disappointment in my voice, for she smiled, veranda and keep me company for a while? I'm lonesome to-night.
"Yes, grandma dear, I should love to sit was "lon whie," the tight It had been a trying day, and I wasn't happy. I'm so glad that Essie can have drive this hot night," I said. ures," said grandma, regretfully. "No; and she deserves them,
so sweet and unselfish.
Yes, Essie is so conscientious, and she andays kind to people, continued grandma; "and after all, that's the only
way to be in this world. I know many people who have been cruel to others for a time, but it always comes back to them."
didn't "tell said, inquiringly; but grandma didn't "tell on" any one who had been
cruel. She was too considerate for that. "And then," continued grandma, "it's very sweet, when one grows old, to look back over life and be able to say, as did my dear daughter, Essie's mama, when she went away, I did the best I could. It's very satisfying to know that one never knowingly did an unkind thing to any human being.
As the moonlight touched her dear old face at that instant, it was plain that grandma was one who had "done her best. As she sat there that summer evening, her hands ying quietly in he
lap, her head resting in the big arm-chair, lap, her sweet, faded eyes gazing out far ane her sweet, the velvety lawn, far beyond the beyond the velvety lawn, far beyond the
rose-bushes at the gate-out, out into other days-she was the embodiment of goodness, a perfect picture of a life well lived. I found myself repeating softly, And at eventice it shall be light.
My musings were broken by grandma's, eager voice saying, "There's Essie now,"
and in a moment Essie and her handsome
cort joined us on the veranda
Essie was a dear girl, and we had a most happy hour after she came, but somenow allm'ough our "In conversation when one grows old, to be able to 100 k
back over life, and say, 'I did the best could.'

Before I left them, grandma stole away, but just as she was going up-
stairs she called out a tremulous "Goodnight." Essie ran to her, and as I heard her say, "Good-night, dear Muzzie," my heart sent a prayer up through the stars up beyond the blue, and its burden was Dear Father, make me like grandma, so that when life's eventide shall come for me, I, too, may say, "I ve done the best
I could."

## GEMS OF THOUGHT

Man is unjust, but God is just; and finally justice triumphs.-Longfellow Unless above himself he can erect him self, how poor a thing is man.-Daniel.
I find the great thing in this world not so much where we stand as in what not so much where we stand as in
direction we are moving.-Holmes. I have always observed the thread life to be like other threads or skeins of
silk-full of snarls and encumbrances. George Herbert.
Little do ye know your own blessedness, for to travel hopefully is a better
thing than to arrive, and the true success thing than to arrive, and
To tell a man to study, and yet bid him under heavy penalties to come to the
same conclusion with those who have no Studied, is to mock him.-Andrew D You need God in the very things tha seem to separate you from him. You must seek him in he very places where not. You must question the stomiest paths for streams of water.-Phillips Brooks.
We are often poor, mean, low; but there is in the soul an ideal of something better than we. In the midst of our folly and fault there stands before us the pure image of serene goodness, and we wan-
not but reverence it. This also is God.Selected.
Selected.
Little self-denials, little honesties, little
passing passing words.of sympathy, little name-
less acts of kindness, little silent victories over favorite temptations- these are the silent threads of gold which when woven together gleam out brightly in the pattern of life.-Canon Farrar. We know not precisely what is best for us. We know not what will make us truly happy. We know not what will help us best in our struggle against temptations. And if we were to try to make a distinction between our mere passing
wishes and that which our souls really wishes and that which our souls reany
needed, we should utterly fail. But we need nall all our longings, all the promptings or He will hear and he will do He will hear all we say. He will know what parts of our prayer are best for us to have and what are not. And he will give us what his fatherly love will choose. And therefore to all our prayers we will add, "Thy will be done in earth, as it is in heaven.' -Frederick Temple.

## THIS WARM-HEARTED WORLD

The last time that Frances E. Willard spoke to a Washington audience, she told on his shoulders and a wack win his kit papers under his arm, stopped at the call papers under his arm, stopped at the call
of a man with a club-foot. He worked away at the man's shoes, giving them as fine a polish as he could, and when the job was done the man threw him double pay, saying, "No change; I made you more work than most folks do.
Quick as a flash the little fellow handed back half of the money, saying, with his eyes full of earnest sympathy, "Oh, mister, $I$ couldn't make money out of your
trouble." Not
Not far from Washington there lives a boy who has to bear the heavy burden of deformity, but so bravely does he bear the brightest and cheeriest his home, helpful one in the household.
Not long ago he went out and hunted up a situation for himself, so that he might be able to pay his share of the Somebody asked him, "Don't you find it rather disagreeable going about as you
haye to now
He looked up with his bright, flashing smile, and answered quickly, "Oh, no, with a slight gesture toward his back as he spoke
There is plenty of love and sympathy in the world, after all, if our eyes are open
to see them.-Christian Endeavor World.

## REST

What is rest? It is "to step out of selflife into Christ life; to be still and let him lift you out of it; to fold your hands closel and hide your face upon the hem soothing hea to let him lay his cooling, and to draw all the hurry and fever soul, its veins; to realize youry and fever from tessins; to realize you are not a mighty
messenger, an important worker of his full of care and responsibility, but on his, little child, with a Father's gentle bidding to heed and fulfil; to lay your busy plans and ambitions confidently in his hands, as a child brings its broken toys at its mother's call; to serve him by waiting; to praise him by saying 'Holy, holy, holy,' a single note of praise, as do
the seraphim of the heavens, if that be he seraphim of the heavens, if that be his will; to cease to hurry so that you lose sight of his face; to learn to follow cease to live in self and for self and to live in him and for him; to love his honor more than your own; to be a clean and facile medium for his life-tide to shine and glow through-this is consecration,
and this is rest."-Atlanta Constitution
Liquor-selling is one of the most criminal methods of assassination for money ever adopted by bravos of any age or
country.-Ruskin.

## NEW PREMIUMS

for BOYS and GIRLS

## Daisy Printing=Press

A COMPLETE OUTFIT

This is one of the most useful and interesting and practicable premiums for boys that source of pleasure as well as being instructive and useful. It comprises a print-
ing-press, roller, box of printers ink, and one box each of gold and silver bronze quads, spaces and periods, pack of plaing quads, spaces and periods, pack of plain
cards to print on and one pack of floral
cards, type, tweezers and bronze-cotton. cards, type, tweezers and bronze-cotton,
Full directions with each outfit, and securely packed in a nice wooden box
with sliding cover. Order as No. 497 .


This Complete Printing-Press given free and sent post=paid for a club on only SEVEN yearly subscriptions to the FARM AND FIRESIDE at the regular clubbing price of 35 cents each

## New Chain=Knife

You Can' LOSE IT



This is no cheap knife, but one that is guaranteed by the manufacturer to be as represented in every particular. Good steel, finely tempered blades, good solid handles the belt or suspenders, and the knife can't be lost. It is the knife for boys, and the latest thing out. Order as No. 495.

This elegant Chain=Knife given free and sent post-paid for a club of only THREE yearly subscriptions to the FARM AND FIRESIDE at the clubbing price of 35 cents each.

## New Picture=Machine

FUN, ENTERTAINMENT, DELIGHT FOR ALL


Anybody can use it
 popular premiumseveroffered. This machine is it inches high, finished in a neat box with hinge cover, to
which are fastened three round slides and six long slides, making
in all about 60 different pictures in all about 60 different pictures
that can be reproduced. Full di-
rections for carefully operating rections. Sent by express at re-
machine. Sent
ceiver's expense. Order as No. 494. This fine Picture - Machine
given free for a club of SEVEN yearly subscriptions to the Fearly subsciptions to the clubbing price of 35 cents each.

## JUST FOR FUN!

The Laughing=Camera
THE BEST NOVELTY EVER INVENTED


SEE THE PASSING SHOW
Your friends. grotesquely photographed; stout
people look thin, thin peopple look stout. For
years the funniest attraction in every museum the years the funniest attraction in every museum the world over have been the convex mirrors. Every-
body has found amusement in contemplating his
own personality in a long-drawn-out or a shortown personality in a long-drawn-out or a shot
and-fat aspect. The Laughing-Camera furnishes all this
amusement, and more! By getting a focus on passing pedestrians, horses, watting a cons, cars, etc.,
past
he most grotesque and ludicrous pictures the most grotesque and ludicrous pictures are
witnessed. The passer-by takes on the swing
and stride and stride of a daddy-long-legs, horses loo
like giraftes, and altogether there is more gel
uine hearty fun crowded into the four cubi inches of this little instrument than could be
Eer. Each packed in a neat box. Order as No. 493 .
The Laughing-Camera given free and sent post=paid for only ONE NEW yearly subscription to the FARM AND FIRESIDE at the clubbing
price of 35 cents each.

Address FARM AND FIRESIDE, Springfield, Ohio

## WAYS WITH CAULIFLOWER

CEAM-OF-CAULIFLOWER SoUP, -
Cook in a double boiler until perfectly tender one pint of finely milk, then press through a coarse sieve, mink, return to the fire; scason to taste with salt and pepper, and add one tablewith salt and pepper, and one dessertpoonful of corn-starch stirred smoothly in. a little Cold milk. Cook, and stir until perfectly smooth, then
serve at once with small oblongs of buttered brown bread.
Boiled Cauliflower.-Pick off the outer leaves, and cut off the stem close to the flowers. Wash thoroughly in cold water, and allow to soak with the top downward in cold salt-water, allowing one tablespoonful of salt to each gallon of water. This will draw out all hidden insects. Then tie it in a piece of cheese
cloth to keep it whole, place stem downward in a cloth to keep it whole, place stem downward in a
kettleful of slighthly salted boiling water, and let cook, kettleful of slightly salted boiling water, ane, lift from
closely covered, until tender. V h hen done the water, remove the cloth, place it on a heated dish with the flowers up, pour cream sauce over it, and serve. Cauliflower au Gratin.-Boil the cauliflower. Melt one ounce of butter in a frying-pan, and stir half pint of milk, stir until boiling, then add four tablepoonfuls of grated cheese, one half teaspoonful of alt and a dash of cayenne. Stir and cook for a few ninutes longer, then pour it over the ca erve hot.
B AKæD
Baked Cauliflower with Cheese. - Boil the cauliflower until tender, break into small pieces, and put a layer in the bottom of a buttered bakitg- Par-
Cover with cream sauce, sprinkle with grated Par Cosen cheese, and add another layer of cauliflower. Finish with a layer of the grated cheese, and brown elicately in a rather slow
Savory Cauliflower.-Boil the cauliflower, and set aside to cool. Prepare one pint of egg-batter, and add to it one teaspoonful of minced parsley and one tablespoonful of mild grated cheese. Dip each sprig of cauliflower in this batter, and fry in hot butter.
When they are done, place them on a hot dish, and erve immediately.
Mashed Cauliflower.-Boil the cauliflower with one whole onion. When tender, remove the onion, and thoroughly drain the cauliflower. Mash well, press through a coarse sieve, then add a lump of butter, a few tablespoonfuls or to taste.
pepper in CaUliflower in Butrer.-Break a firm head of cauliflower into sprigs, and cook in slightly salted
boiling water until about half done. Take up, drain, and put in a saucepan with two ounces of melted butand put in a saucepan with two ounces of melted ter, the juice of one lemon, two tablespoonfuls of
chicken stock or cream, a dash of cayenne and one small cupful of water. Cook until the cauliffower is tender, take up, strain the gravy, add to it one cupful
of thick white sauce, pour it over the cauliflower, and Serve. Scalloped Cauliflower.-Break the cauliflower into small sprigs, and cook in boiling salted water until tender. Place the pieces in a buttered puddingdish, and pour over them a sauce made as o cupfuls
Mix well one half pint of bread-crumbs, three cupful Mix well one half pint of bread-crumbs, three cuptuls
of sweet milk, one beaten egg, two teaspoonfuls of salt, of sweet milk, one beaten egg, two teaspoontuls of salt, a little pepper and one cuptul of diced coated oven until delicately browned.
Cauliflower Salad.-Stand a firm white cauliflower in salt-water for thirty minutes, then cook it in boiling water until tender, but not quite done n a salad-bowl lined with crisp, tender lettuce-leaves Mash the yolks of four hard-boiled eggs, and cut the whites into petals; arrange these over the cauliflowe in imitation of daisies, and pour over a plain French dressing
Caulifloiver Fritters.-Cook a head of cauli flower until half done, then take up, and drop in cold water to kcep it white. Break it into sprigs, and dip each sprig in rich white sauce slightly warm, and lay aside to cool; then dip in rich egg-batter, and fry delicately in hot butter. Drain on unglazed pa
in a heated dish, and garnish with fried parsley.
in a heated dish, and garnish with fried parsley.
CAULIFLOWER Cropuetres.-Chop two cupfuls of Cauliflower Croquetres.- Chop two cuppuls of
cooked cauliflower quite fine, add one half cupful of cooked cauliflower, quite fine, add one half cuptul of
fne bread-crumbs, and one cupful of cream sauce, which is made by cooking together one tablespoonful each of butter and flour, thinning with one cupful of milk, and just before removing from the fire adding set aside to cool; then form into croquettes, egg and bread-crumb, and fry in butter to a delicate brown.
CAULIFLOWER MINCE.-Allow one cupful of finely chopped cooked chicken or veal to two cupfuls of
chopped cooked cauliflower. Moisten with chicken or chopped cooked cauliflower. Moisten with chicken or cream sauce, season to taste with salt and pepper and
a little finely minced onion, cover with buttered crumbs, and bake for twenty minutes in a moderate oven. white head of cauliflower into sprigs, soak in salted white head of cauliflower into sprigs, soak in salte water thirty minutes, there Take up carefully, drain, and until perfectly tender. Take up carefuly, dream, auce over the cauliflower, and s

Mary Foster Snider.

## A KETTLE-HOLDER

Very dainity indeed must be the kettle-holder now used at afternon teas. An onnental
is made as follows: From thick white writing-paper or soft leather cut several squares ineasuring four inches each way. Sew these pieces together, and cover with heavy white silk
A delicately tinted tea-rose should be embroidered with wash-silks on one side before placing over the
paper, and some fragrant tea-leaves placed between the paper, and some fragrant tea-leaves placed between the
layers of paper makes the tea-rose seem almost real. A narrow ruffle of the silk or of fine white lace
should finish the holder around the edge. In one corner sew a tiny brass ring, crocheted over with white knitting-silk, by which to hang it when not neede
Nettie Ransom Houston, in The Ladies' World.

## The Housewife

## "THROUGH ALL THE YEARS"

BY LIDA M. KECK
A cloud came slowly drifting byA plain white cloud that gave no hint A simple cloud that held no tint Or sunset sky.

I gazed upon it as it passedA filmy form of lustrous white-
When lo, a ray of rose-hued light Transformed with scepter golden bright Its snowy cast.

A moment more, and then a queen In purple, edged with eider-down Her proud head decked with golden crown, Sat, conscious of her great renown With smile serene!

Instinctive homage filled my soul; But ah, a chariot near did stand.
And stepping in, she waved her hand, And stepping in, she wave
And on into another land

## Away did roll.

Yet through the years of joy or
IVithin the gallery of my mind
By faithful mem'ry limned and lined,
That beauteous picture, safe enshrined, Adorns my life.

A soul paused near me in her flightA modest soul with tender grace; She greeted me with ne'er a trace Of pride, but in her gentle
There shone a light.
And like the cloud in evening sky,
Her fair cheek, touched by roseate tint,
rt, helpful hint Of smile or sigh!

But soon she faded from my view And cloud-like went her chosen way (She might not, tho' she willed it, stay) Om empazing blue.
But who shall say that, spite my tears, I am not happier to-day
Because a sweet soul came my way,
And that her image sliall not stay, hat her image shall not
Through all the years!

## BROOMSTICKS AND BRAINS

What a perplexing combination it is, that of luxurious tastes and consumptive pocketbooks, and how many of us suffer from it in different degrees! To the very poor it is of course a tragedy, but to that great
army of people whose moderate incomes supply them


Sticks marked 1,2 and 3 should be twenty-eight inches long; 4 and 5 , thirty-nine inches: 6 and 7 . thirty-two inc
twenty-three inches, and 10 and 11 , eighteen inches.
the necessaries of life, but to whom the luxuries are a forbidden joy, it is formidable enough. How often the wife or daughter sighs for some dainty addition to parlor or sitting-room which the many demands ont the
murse make impossible. To such a timely suggestion, together with a small amount of confidencc and clever fingers, is invaluable and will work wonders. Broomsticks and brains are cspecially a happy combination. I have in mind a long-cherished dream of my own, now brought to full realization throngh the above medium, the telling of which may benefit some ambiious sister. I had the parior and the piano, Which are necessities, but I wanted a music rack or case, which I set my wits to work, and this is what they evolved-
a music-rack which answers every pos sible requirement of utility and beauty. cut them to the lengths desired of cut them twenty-eight inches long two thirty-nine inches, two thirty-two inches two twenty-three inches, and two eigh two twenty-three inches, and two eigh teen inches, and whittled the ends round.
Then with a gimlet I bored holes, and fastened the sticks together with screws in the manner illustrated. At the center crossing of the sawhorse I fastened a thin, smooth board about two inches wide for thother on each side, When completed it is us three feet high and two feet two inches long, and when painted white with a coat of enamel it make a pretty piece of furniture. A dash of gold paint or a
bright ribbon wound between the sticks would further
improve its appearance.
Now, I am only a girl, neither mentally brilliant nor physically strong, but the idea is original with me, and my own hands did the work. The result was a piece of furniture that invariably calls forth the re-
mark, "Where did you get such a quaintly pretty music-rack?

Try it, sisters, and I think you will be pleased.
M. Estelle Suith-Hymers.

## IRONING TABLE-LINEN

No matter how carefully, in every detail, the diningtable may be laid with beautiful china, silver and cut one defect will stand out so prominently that it will hide from view all other perfections. Yet how often we see rough, limp table-linen even on the tables of those who are perfect housekeepers in all other rebe indulged in a piy housekeeping, for many beautiful effects and much daintily prepared food have been spoiled by unattractive table-linen.

It may not, however, be owing wholly to carelessness of the person performing the work, for it is really an art to iron table-linen perfectly; yet it is so very simple and casily learned that even the most stupid can be tanght how to do it.

Too often servants who are ignorant of the proper method of performing any branch of housework are left to follow their own ways, and then their work is
viewed with dissatisfaction. No housekeeper should permit a new servant to iron her table-linen without taking the oversight of the work herself the first time it is done. If she finds that the servant can do this work properly, then she can trust her to do it alone; but if not, careful teaching in all its details should be given each week until the lesson is thoroughly learned. I have taught this branch of housework to many young, inexperienced and really stupid girls, and without one exception, by exercising patience and perseverance, they have been able to perform this wo
actorily and in a reasonably short time.
When table-linen is washed, bluing and boiled starch should be added to the last rinsing-water. Care should be taken not to use too much starch. The aim should
be to avoid using enough to make the linen stiff and paper-like but to use just enough to give a smoothness and closs to the linen and remove the limp appearance which unstarched linen has, especially if it has been laundered many times.

Starched linen should be thoroughly dry before sprinkling, and should be sprinkled the night before ughly, ironed. The sprinkling should be for what slightly dampened, as we sprinkle cotton; nicely would leave linen rough and wrinkled, no matter how many times it may be gone over with the iron
or how much strength be expended. Every thread or how much strength be expended. Every thread
must be very damp, almost wet. Herein lies the secret must be very damp, almost wet. Herein lies the secret of smooth, glossy linen. Even cheap, coarse grades
of linen can be made to look smooth and nice if sufficiently dampened before ironing.
Next in importance is a hot iron. Linen cannot be nicely ironed with an iron only moderately hot. be used without scorching the linen than can be used be used without scorching the linen than can be used
for ironing cotton. However, care must be taken not ollow the linen at the last of the ironing, after the moisture is nearly dried out, for this would spoil the result, regardless of how nicely the work may have been done up to this point. After selecting an iron of the right temperature, the linen must be gone over again and again until it is thoroughly dry. No portion of it must be left even slightly damp; this a very importaint point.

A table-cloth may be ironed folded once lengthwise through the center, but only this one crease should be ironed in it. Fringed napkins and doilies should be ing from side to side until the fringe of all four sides is thoroughly shaken out, then smoothed out on the ironing-board with the hands, having the fringe perectly straight. Iron the center first, leaving the and making the strokes of the iron straightwise with the threads of the fringe. Ironing crosswise the fringe would disarrange it, and it would not then be straight but crossed together, haring a mussy appearance, spoil ing what would otherwise be a nicely ironed piece o incn. Napkins, doilies, tray-clotls and centerpiece should be ironcd single; cmbroidered pieces only on one side, and that the wrong one, but napkins should he ironed on both sides, and only the napkins folded. over again until thoroughly dry, sinooth and glossy.

## HAT-PINS

The new hat-pins are in novel shapes, and the atlletic young wonnan may wear oars, golf-sticks or whips in her liat. An outcome of the fad for beetles,
spiders, etc., is a pin with one of these insects attached by a spring to give it the crawling movement common to its kind. One novelty is the head of a snake, with appearance of being ready to dart at the innocent be-holder.-The Modern Priscilla.

THIS is certainly son," and there is nothing that
than a shirt-waist suit
of white China silk. These costumes may be made very simple, and serve as morn ing dresses, or elaborately trimmed, as driving or for restaurant-dinners. The dress as illustrated is made of white silk with Cluny-lace trimming. The ing of sheer white lawn that may be cut away at the neck and finished with lace, away at the neck and finished with lace
and take the place of a corset-cover


Two tucks in the back extend from shoul der to belt in V-shaped outline, a smooth adjustment being maintained under the
arms. Tucks in front at the shoulders and a yoke, providing ample fullness over the a yoke, providing ample fullness over the
bust. Deep tucks extend across the fronts, which blouse stylishly at the belt. The closing is made with silver buttons and buttonholes worked through a boxplait that is finished with lace straps. A plain lace collar is completed with a fancy protection having a long tab in the front. One-piece bishop-sleeves are fitted closely to the upper arm, and very wide at the wrists, where the fullness is arranged an lace wristbands. Straps of lace
trim the sleeve, and motifs are applied trim the sleeve
back and front.

The skirt is made in three sections. The top is fitted smoothly around the waist and hips with small darts, and closes Two deep tucks are arranged at the lower edge. This portion of the skirt is sheathfitting.!
The center section is of circular shaphe upper part of the skirt inder the tuck, and has three deep tucks at the lower edge. A full circular founce forms the lower portion of the skirt. It flares widely at the lower edge, and has four
deep tucks at the bottom. The flounce has a smart sweep all around and a gracehas a smart sweep all around and a gracethe spaces between the tucks.
Costumes in this style are made of shantung, pongee, foulard or Liberty sat-

in, and elaborately trimmed with lace or ing toilettes of voile, veiling, albatross and brilliantine, finished in sailor-style with. bands of self fabric and machinestitching. Frequently the tucks are stitched with three or four rows of white
on dark colors, and black on light ones.

## How to Dress

LADIES' SAILOR.SUIT
The blouse is simply adjusted with shoulder and under-arm seams, blouses slightly at the back, and is quite full at the waist in front. It is finished with a double yoke, which is provided wing a tiny pocket t

A broad sailor-collar completes the neck, forming pointed revers in front. It is square at the back, and extends over the shoulders in a becoming manner. that closes in the back and is finished with a standing collar.
The one-piece bishop-sleeves are made with a broad box-plait on the top. This
is secured by an embroidered anchor and is secured by an embroidered anchor and star as far as the elbow, and provides additional width at the wrist. The fullness is gathered and arranged ond
wristbands, drooping at the skirt is shaped with nine well-proportioned gores fitted smoothly around the waist and hips without darts. It closes invisibly at the center back under two inverted plaits that are flatly pressed to present a perfectly plain appearance. to knee. Below that point the gores flare smartly, and there is a stylish sweep at the hem. Bands of blue are applied as
a trimming at the bottom of the skirt.

## LADIES' PLAITED SHIRT.WAIST

This smart shirt-waist is made of écru pongee embroidered in pale green. The collar and cuffs are trimmed with green affeta to match the figure.
A pattern is provided for a glove-fitted lining that closes in the center front. This
should be made of lawn, and will not add greatly to the weight of the waist. It may, however, be omitted, and the ad-
justment of the outside made with shoulder and under-arm seams if preferred.


Two narrow box-plaits extend from neck to belt in the back, and tucks on the shoulders taper tor
becoming manner

The closing is made with large emerald buttons and buttonholes worked through a broad center box-plait. Three deep tucks on the shoulders are stitched down ness over the bust, which blouses slightly at the belt.
The collar and protector have fancy tabs in front that are decorated with small buttons. Inside seams fit the one piece bishop-sleeves closely to the upper
arm. They are very wide at the lower arm. They are very wide at the lhe fullness is gathered and edge, where the fullness is gathered and arranged on wristbands, drooping well
at the back. A strap of the material is applied on the shoulders to form a shallow yoke.
Shirt-waists in this style may be made of taffeta, peau-de-soie, wash-silk, shantung or veiling. Linen, madras, damask or mercerized cotton are also appropriate. LADIES' BATHING.SUIT
Marine-blue brilliantine is used for this smart surf-suit, with fancy white braid for trimming. Women never seem to tire of this combination for bathing-suits, and white.

The blous
in the back, and quite full the slioulders front; five deep tucks are stitched down about half way, providing stylish fullness over the bust, that blouses well at the belt. A shallow yoke extends over the shoulders, giving a broad effect often lost when sailor-collars are not worn. enter box-plait. Th tucks in the sleeves are stitched down part way, the fullness below the tucks flaring in a ruffle at the
edge. If long sleeves are desired, the pattern provides for them.
The bloomers are gathered at the upper dge, and arranged on the same belt with the blouse. They are drawn in closely around the knee with an elastic or tape passed through a casing. This may
The skirt is tucked in clusters of three,

that alternate with plain spaces. The tucks are stitched down over the hips, where the skirt is closely adjuisted. The closing is made at the center back under he inverted plaits that are flatly pressed. f a full skirt is desired, the tucks need not be taken up, and the skirt may be gathered at the top. Fancy braid applied on the collar, yoke
very effective finish.

## BOYS' OVERALLS

The illustration shows a pair of overalls in dark tan denim, a color that will not show the dirt. They are simply adjusted with front', back and inside-leg seams, the front of the overalls coming up in front to form a protective bib. A large pocket
is placed on the right side. Straps on is placed on the right side. Straps on ront, and are attached at the back with buttonholes and buttons
The garment is slashed at the side to insure ease over the hips. Any heavy wash-fabric, such as crash, butchers linen, galatea and cheviot, may be used for overalls of this kind. Very little girls
may wear them as well as boys, by leavmay wear them as well as boys, by leav-
Any of these patterns sent from this
ffice for ten cents each.
Ladies' Silk Shirt-waist Suit.-The Waist Pattern No. 9045 is cut in sizes for 32, $34,36,38$ and 40 inch The Skirt Pattern No. 9047 is cut in sizes or a $22,24,26,28$ and 30 inch waist
Ladies' Sailor-suit.-The Blouse Pattern No. 9028 is cut in sizes for a 32,34 ,
36,38 and 40 inch bust measure. The Skirt Pattern No. 9027 is cut in sizes for a $22,24,26,28,30$ and 32 inch waist Ladies' Plaited Shirt-waist.-The


Pattern No. 9023 is cut in sizes for a 32 , 34, $36,38,40$ and 42 inch bust measure. No. 9039 is cut in sizes for a 34,38 and 42 inch bust measure.
9033 is cut in sizes.-The Pattern No

Macy


The World's Original and Largest Department Store. Gate floor spacte, exceeding feth has 11 floors, an agres, the largest bulid-
mg in the world


 GOODS, MILLINERY, MUSICAL GOODS, NOTIONS,
NECRWEAR, OPTCAL GOODS, PIICVRES, PHOTO-
GRAPHE GOUDS, RIBBON, RDGS, SIVER WARE,
SHIRTS, SILKS, SUITS, SHOES, STATONERY, SPORT-


 economies of the largest store to the Worla.
Established 1858. R. H. MIAGY \& CO.,
NEW YORK CITY.

## Eczema

Salt Rheum, Ringworm, Itch, promptly relieved and cured by

## Hydrozone

## This scientific germicide, which

 disease germs. Used and profession everywhere Sold profession everywhere. Sold at yours, send 25 cents for a trial bottle. The genuine bears my signature. Accept no substitutes. Address
PREE $\left\{\begin{array}{l}\text { Valuable Booklet on the } \\ \text { treatment or diseases. }\end{array}\right.$
Agents for any
thing can work up a big side-line that takes very
little time once a month; sewing-machine agents, little time once a month; sewing-machine agents, itors can double their business. Instructions and outfit cost you nothing. We only want a reply from you that you are a hustler, and we will do the rest. Write us at once. Circulation Dept. Womán's Home Companion, Springfield, 0

## MOUNG MAN GET BUU'S

 Waw wiwe wow


## We want Boys

and girls in every city and town, who are bright and energetic, and who want to make some money income. It is the most pleasant work possible, and will bring you in contact with the finest people. The work can be done after school. , Write us at once. Address Circulation Department,
an's Home companion, springtield, ohio
SALESMEN ${ }^{\text {AND }}$ AGENTS BIG WAGES


 Write for speclal, offer, new plan. Catalozue Free.
WORLD MFG. CO., 5236 World Bldg., CINCINNATI, OHIO
 ROOT live or bladide trouble, it wiil


## 



How gorgeously the trees and
shrubs are painted. A tribe of Indians must have been skulking around here these frosty nights, decorating the face of Nature
with war-paint." Lois Arblay addressed the little, wizened man who sat near her.
He smoked on in silence, seeming not to notice the remark the girl had made. There are all the shades of red and yellow, and the The old man blew a cloud of smoke for answer.
"And the air is hazy with the smoke from hidden "igwams." continued the girl, nothing daunted.
The most treacherous lot-I've met in-all my travels, and I've been-pretty much the-wide world
over," puffed the little man, dreamily. Then his manover," puffed the little man, dreamily. Then his man-
ner suddenly changed; he straightened up in his chair, ner suddenly changed; he straightened up in his chair,
emptied his pipe, and looked keenly in the girl's face.
"But, to "But, to go back to the subject-you say that this
young man's name is Walton. What is his first name?"
"Lester; Lester Walton."
"Ah!! Lester-Walton".
or three quick turns " He left his chair, and took
"Do you know him, Uncle Jules?"
The old man evidently did not hear the question, or his first words were, "What do you think of him?" "I think-well, it is their wish, and I owe them more than a daughter's duty. "I don't forget that I
"Bosh! Take my advice, and
shes of No. I first," the small man inter out for the shes of No. I frst, the small man interrupted.
He resumed his chair, and silence fell between
or a time.
"So you're sure that you don't care particularly bout him?" he asked at last.
"Not in the way I should, I am afraid."
"Say, you must have near neighbors down the my eyes don't deceive me. I see smoke rising over the hill. Perhaps," lhe added, with a dry chuckle, "it's from your "hidden wigwams."
Why, there is smoke!" She shaded her eyes from the glowing sun, and looked in the direction
"But we have no neighbors under the hill."
"

As the folks are away, buying good things for the party to-night, and we are in full command here, we'll They started by a side
They started by a side path for the brow of the hill. and had gone but a few. steps, when the old man
sighed deeply. The girl noting it, remarked, "You've been home only a couple of days, and I believe you been home only a couple of dats, and
are longing for some other part of the world this minute."
No, Lois, you are mistaken-it's satisfaction. One have taken my last trip abroad, and shall settle down in that new home I've bought. I've been looked upon as a 'black sheep' and a rover long enough. I have a goodly supply of this world's goods to keep me right nd to leave behind to the right one when I leave., and
Lois smiled at his queerly worded remark, and ished him many long and happy days.
When they reached the brink of the hill a grand panorama lay at their feet-a glowing autumn land-
scape, through which ran a broad river. The valley scape, through which ran a broad river. The valley was as brigh
"Why, Uncle Jules, they are wigwams! How did they ever stray here?" Lois was gazing in wonder at a number of tents grouped under the clustering
trees on the river-bank far below them. From their midst rose the spiral curl of smoke. "They are gipsy wigwams, child, and I'm mighty
glad to see them. Now don't look surprised, nor mention it to any one," the old man obseryed, nor fidentially, "but I once traveled witl a band of them or several months. They're a jolly lot!" "Oh, did you, Uncle Jules? I'd like to do the very
same thing. You must tell me all about it. How free same thing. You must tell me all about it. How free
it must be, roaming where fancy dictates. Well go down and visit them!"

Lois, you're a girl after my own heart. Of course we'll go down; but I saw the folks drive in just now,
and it's the dinner-hour. Well go the first thing this
ftternson afternoon. I am as anxious to get to that gipsy-camp
as you are, but-I have a little scheme to perfect beas you are, but-1 have a little scheme to perfect be-
fore then." Arm in arm they went toward the house. When
they had nearly reached it the old man chuckled, "I rather think little girl, that you'd get over your no-
tions of being a gipsy maid by the time you had ions of being a gipsy maid by the time you had
raveled over rough and miry roads for miles, helped to pitch tent witl frosty fingers, woke up a few morn-
ings with a good-sized snowdrift on your blanket, or ings with a good-sized snowdrift on your blanket, or
emptied your shoes of rain-water a few times." "Uncle Jules, it's a shame the way you always take
he romance out of my flights of fancy," laughed Lois, the romance out of my fights of faat
as they went up the veranda-steps.
"T think no less of you for the
"I think no less of you for the fancies," was the quick rejoinder.
At the dinner-table he was strangely preoccupied Uncle Jules must be in love at last, for he had not poken since taking his place. "No," he replied, "love passed me by years ago." Then he turned to his brother, Henry Arblay, and said,
"I've ben thinking. if you and Lydia did not mind I I
kow Lois will fall in with the idea-that it would be quite entertaining to have one of the gipsies who are
camped down under the hill come up to the house this evening and tell the young folks' fortunes. Lois
was wondering this morning what to plan that would be a little out of the common."
"Oh, Uncle Jules, the very thing!" Lois cried.

After some deliberation the others agreed to the plan.

When, shortly after dinner, the camp was visited, the two paused in the edge of the thicket at the, foot of
the hill to inspect the scene before them. the hill to inspect the scene before them. stray back. I'm not much good talking to womenstray back. m not much good talking to women-
folks," said "Uncle Jules, and he dropped on a conve-
nient lo. "You go ahead and be picking out your
fortune-teller." fortune-teller.'

Lois had nearly reached the tents before she no ticed the girl who was seated on the roots of a great elm, fishing. She paused, struck by the small gipsy's The profile clearly outlined before the rushing water The girl turned and rested her large eyes full upon the
visitor. They were wonderful eyes, deep reddish visitor. They were wonderful eyes, deep reddish
brown, soft and velvety, and very sad in expression The oval face, tanned by exposure, was rich in colo ing and framed by a mass of coppery, tangled elf-locks. Against the tree-trunk a withered old crone pulled vigorously at a short-stemmed clay pipe, and watched them out of her small, bleary eyes.

Do you like fishing?" Lois asked, gazing at the small gipsy in admiration.
"Then don't fish; talk to me "
"I've, other things to do-I must catch the fish for supper," she said; then, after a short pause, "I hate The old woman dre

The old woman drew closer
Would "the lady like her fortune told?" she Lois shook her head, and turned back to the girl. The old woman again leaned against the tree.

I thought nothing could be finer than this kind of life-to orange groves in winter, and cooler climes in summer, anywhere, everywhere, no labor and new
"Oli, lady, you cannot know! They like it," she said, pointing over her shoulder, "but I long for a different life, and for a home such as you must have."

The little gipsy's face was turned toward the river again, as though intent upon her fishing, but Lois
cauglit the glimpse of a tear upon her rounded cheek, cauglit the glim
and pitied her.
and pitied her. "Can you tell fortunes?" Lois inquired, after a pause.
"As well as any of them," was the reply
Then I want you to come up to the big house on the hill to-night-you can1 almost see the chimneys to know what the future may have in store for Will you come? I promise you a nice time.'
"Ies, lady, I'll come,", she criid, eagerly.
"And what am I to call you?"
"Romany Rose, lady.
"And my name, is Lois Arblay."
"A nice name," and she repeated, "Lois Arblay."
"Not half so nice a one as Romany Rose," said Lois.

They were fast friends from that moment.
The men sauntered in from down the river, and from the thicket came Uncle Jules with a boy of some ten or twelve years. Between them they carried three chickens. The gipsies watched them approach with varying expressions on their dark faces. The old man came up, and the boy stood beside him with drooping hide him out of the corner of his eye, as if not knowing what to make of him
ers!")" (Good-day, my broth ers!), it was nicle ules who spoke, after a long
pause, in which he had sized up every member of the band. Lois, as well as the others. stood wondering as the strange language fell from his lips.
"What!" exclaimed the one who appeared to be the leader, as he left the group and stepped forward.
"Tu jines, latcho adosta. (Y ou know very well.)"
declared the old man. Then he continued, "Tute needn't be attrash to rakker. Mandy's been apre the drom mi-kokero. (You needn't be afraid to speak I've been upon the road myself.
They all rushed around him then. shook his hands, and shouted until the valley rang with the cry, "Romanichel! Romanichel!

The little children paused in their play, and echoed, "Romanichel!"

The old man capered and laughed like a boy. agitated Romany, the women gathered around Lois and invited her to look over the camp, and she, noth ing loth, accepted the invitation. Near the entrance to the living-tent the boy who had come in with Uncle Jules was cleaning the fish. The inspection over, Loi paused near the youngster, and waited for her uncle, who was talking animated Romany to Romany Rose, She caught the boy's eye as he glanced up furtively
from his work.
How did you come by the chickens?" she asked. "Lady," he faltered, his black eyes on the ground
and his brown toes digging in the dirt, "you see-I was fishing-over there under-the bank, and when I thought I had a bite-I threw my line-up back of me bait. The next minute it had swallowed it-hook and
"Oh, I see." Lois was amused.
"Of course I tried to get the-chicken loose," he Went on, evidently gaining courage, "but I had to cut it, you see, lady.

Lois smiled in spite of herself.
The boy, seeing the smile, continued, "Perhaps you don't believe it, lady, but every time I pulled out my hook a chicken was waiting right there-to swallow the bait. That happened three times, lady, and that is how I came by-the three chickens.

Lois looked at him sternly.
"Of course I brought them to camp-it would be wrong to waste them.
"But what about the old gentleman?"
"Oh, I was frightened when I saw him, and was going to drop them. Men don't always believe like women when we cxplain things. But say, he spoke to me in our own tongue, and told me that he would help carry them. He's a queer one."
"But those chickens belong

解 the our place, and
you must not catch any more of them!'
commanded Lois, in a severe tone Then to hear what more the little vagabond would say, she asked, "What kind of bait were you using? "Just corn, lady; worms are such hard digging. But I told the old gentleman that I wouldn't try to fish any,
more where the chickens bothered so." Uncle Jules joined her at this point, and they went up the hill together. As they reached the summit, one tlesome horse, and cantered aw incline on a in the direction appear in a clond of dust. "You're sure that you don't care about that IValton?" the
long climb.
'I'm glad of it. That fellow rode into town on business.

Lois wondered what connection there could be in
her feelings for Lester Walton and a gipsy riding into town on business.

The young people began to arrive early. Every window and door of the big house was wide open, and they shed their rays far down the road, and shone like a beacon on those who came from the way of the val-
ley. Gay voices and laughter rang out upon the air, ley. Gay voices and laughter rang out
which was as balmy as a summer night.

During a lull, when the merriment had reached its highest, there came another sound. Those on the reranda heard it first, and the word passed within, until in the darkness, and accompanying it swelled the vibrant notes of a guitar. It was a woman's voice, and she sang as the birds sing-with all the abandon, freedom and untaught sweetness of Nature. The melody was as strange and wild as a siren's might have been, and one's fancy roamed afar where the summer moonlight lay upon murmuring seas in some fair clime. The guests flocked to the veranda and "It is true gipsy music," declared Uncle Jules, "the first I have heard this many a day, and it does my old heart good"

The minstrel passed the summit of the hill, and
rew nearer, and they began to catch the words:
"The wind whistles over the heath,
And the moonlight fits over the flood
In the darkness of the wood-
In the darkness of the wood.
"Free is the bird in the air,
And the fish where the river flows;
And the deer in the forest,
And the gipsy wherever she goes-
The gipsy wherever she goes.
The singer reached the end of the veranda, paused,
"Free is the bird in the air
And the fish where the river flows-"
Her voice was full of pathos. She came up the steps, and stood a moment with the light from the open window full upon
and led her into the house.

It was Romany Rose. Her dress was green, the true gipsy color; lnotted around her neck was a gay 'kerchief; about her shoulders she wore a red cloak, the hood of which was thrown back, revealing her crisp, bright hair; hanging by a faded ribbon around
her neck. and held partly under her arm, was an old her neck. and held partly under her arm, was an old guitar with seven strings. She was escorted to the corner of the great room, where a pair of bright cur-
tains were hung inl imitation of a gipsy tains were hung in imitation of a gipsy tent. Romany
Rose was a success. Sitting in state, she Rose was a success. Sitting in state, she told their
fortunes, and the future seemed bright for one and all "Come. Lois, you have not tested the Fates, I be lieve. It is time to see what fortune lies in store for lieve. It is time to see what fortune
you-and for you, also, Mr. Walton."

They were standing near the open window, looking out to where an old woman sat in the shadow, looking her pipe, when Uncle Jules addressed them. He led the two, laughing, toward the curtained corner He led "Decide our fate. O Queen." As Lois spoke, she knelt before the little gipsy in playful humility. Lester Walton drew a chair near them. Uncle Jules, unobserved by either, stepped into the shadow of the
curtains. curtains. The small oracle caught his eye with a
questiang look, and he answered by an almost imquestia.uing look
"This is a beautiful hand, lady, and I see only good fortune in store for you; ah, yes, and great wealth for and clear as the river did to-day, where I saw you first."
"But," said Lois, with a gay langh, "the river did not run smooth out among the tocks and
swift current, where you caught the fish."
"But you see, lady, that is the danger of to-day, "All below that spot, as far as I could see, the water ran smooth and clear."

All, I see; you wish to warn me, Wise One. Well?"
But the little gipsy turned, and addressed Lester Walton, who was sitting with a bored expression on his handsome face.
"Would the gentleman like his fortune told?" asked Romany Rose, in a low voice.
"No, thanks; it is a waste of time." He looked at Lois "with a meaning smile. "My fortune is already told."
"Now," cried Lois, playfully, "that is not fair, Mr Walton. She seems to have something to tell you be fore she finishes mine
mingled that one's fate cannot be told without mingled that o
other, proceed."

There was a slight movement of the curtain as the
ipsy took the long, slender hand in her own small gipsy took the long,
brown one, and began:
"Ah, a gentleman's hand. You have never known What it is to labor for your bread. Your life has been have bowed at your command.
Was there a movement as if to withdraw the hand? Lois laughed, and remarked that she was finding him out at last.
Rose, uninterrupted. "There are grand buildings and vide streets. I see a beautiful girl, among other girls, in a school there. She has hair like the ripened wheat, and eyes as blue as the summer skies. Her name-let
me see if I can tell you her name. Yes, I have it; it is -Alice Leighton.

The man gave a start, then laughed.
"Alice Leighton loved you," went on the low, chanting voice, not seeming to notice the result of her
words, "and you said that you loved her. It was not her you loved-it was her fortune, which she gave you when she supposed she was your wife. That was long
Lois looked at the man before her. He was rather ale, but the bored expression still rested upon his face. "You are a girl of great fancies, and have a most vivid imagination, he remarked, nonchalantly, as she paused. Then he saw the expression on Lois' face, ae! Lois, you surely cannot credit this idle tale of
vagabond gipsy-such a girl as this! Alice-Leighton, did you say?-never existed that I am aware of." "Lester Walton," retorted the old man, stepping from his concealment, "such a girl did exist until she same looks and name. This picture of yourself with your signature at the bottom will testify. She was other-the only woman I ever 1 found this mong Alice Leighton's effects after she was dead. I have searched for you a long time and in many places. Ast I have found you,"
As Uncle Jules 'bent to tenderly stroke Lois' hair, Lester Walton rose, and went toward the door. He had only crossed the threshold, when he was met by fter a brief struggle they led him into the darm, and When the repast was served, Uncle Jules remarked that Mr. Walton had been called away on very importhat Mr. Walt
tant business.

The old woman's pipe still glowed in the shadow "My dear," Mrs. Arblay said to the little gipsy, The good woman found her a place in the midst of the gay throng. Here Romany Rose, with her great brown eyes and copper-colored hair, was again the center of traction.
The smoker drew close to the window.
"You have told all our fortunes," a gay voice said
the gipsy maid. "Can you tell your own? Do tell us of yourself"
lie in the tell of myself, but my fortune all seems位 in the past-I know not of my future," she "Oh, tell us
On, the cried.
en window near her, and not seeing the figure crouching low in the shadow, she began:
"It is long ago-so long that I cannot tell the time -but often when I dream it all comes back to me. I drop asleep with the stars shining down through a hole in the then I dream-I am ralling on the roos the but in a small white-curtained bed, and-a face comes and bends above me in my dreams. It is a beautiful, fair face, her hair is brown, her eyes are blue; she
bends and kisses me, and then I wake. When I wake I weep, to find it is only a dream, and-I a roving gipsy as before. When I ask the others about it, they tell me that I have fancies, and even in my dreams it

They listened in silence, held by her pathos and
They listened in silence, held by her pathos and fixed on space, talking more to herself apparently than the group about her
The old woman's pipe had gone out. She crouched ust under the window with clenched hands, her with"Sometimes I dream of a tall man, who
me about on his shoulder
The faltering tale wner lost their vacant expression and became of its with a fixed stare. The listeners, following her gaze, "Look! There is the upon the wall beautiful lady! Oh, who is she? Please tell me! I ove her-I-", and she dropped upon the feor me! I the picture in a paroxysm of weeping.
Mr. and Mrs. Arblay, who had been attracted to he group, looked at one another with wondering eyes, Between them the dawning.
arts too full to they lifted her from the floor, their heir child, given up long ago for dead. She looked with tear-wet eyes from their faces to the picture,
and back to their faces again; then she flung herself nto their arms.
You are the lady in the cried. Icture-thew you both! You are the lady in the picture-the lady of my dreams! And you, sir-
shoulder-and-and-"

Uncle Jules went to the door to blow his nose, and was just in time to see the old gipsy disappear over the that she was going to warn the camp.
ingering aest had to make, "he said, after the last you will let me have Lois, for a part of the time at least. She cheered you in your loneliness; now let me have her to cheer my old days and superintend that
new home I've bought. Lois, are you willing? I'll new home I've bought. Lois, are
not forget your kindness at the last."

Lois was willing, and so it was settled. gipsy camp, only a few smoldering ashes and a litter
of straw remained to mark the spot.

## A Dish of Salad By helle ferryman

Amessenger-boy rang the bell at Mrs. Young's cozy little flat. It had been an unusually warm
day, and the curtains were closely drawn to keed out the glare of the hot sunshine. A fierce puff of hot air struck Mrs. Young in the face as she "A note from Jack,", she said, languidly. "I sup
open pose he's not coming home to dinner, and I shall be glad of - Oh, dear! Isn't that provoking?" she continued, as she glanced through it. "Joe Eastman is in
town, and I will bring him out to dinner. Be sure to have something good."
"Something good! And there's nothing in the house but a little cold ham!" She glanced at the clock, and her indignation rose higher. "Half-past five! It's a wonder he didn't wait until six o'clock! I'd like to know what I can get now! Oh, dear! And it's so hot; I didn't expect to get any dinner at all! Well, let me see," she I'll just run around to the grocery, and get some let tuce for a salad. I hope Jack got that oil the other tuce for a salad. I hope Jack got that oil the other
day. I told him to bring me a quart. And if I can get some peaches, I'll have peaches and cream for
dessert. That won't be so bad, with coffee." She rightened as her housewifely instincts revived, and she hurried away to the store to make the necessary pur chases. It was almost six o'clock before she got back, and she hastened to put the lettuce on ice.
She set the table attractively, with a pretty bowl of sweet-peas in the center, the pink slices of ham daintily garnished with parsley, and the olives arranged in little cut-glass dishes. She peeled the peaches, and placing them on ice, also, hurried off
to make a presentable toilet, leaving the salad-dresso make a prese
"Oh, dear!" she thought, with a gasp, as she lipped into a cool pink lawn dress, "I altogether forgot to look if Jack brought the oil! I don't sup-, ose he did, for of all the absent-minded creaturesShe glanced

## They'll be here <br> 

 But no slender, familiar bottle met her anxious gaze as she searched the pantry, the kitchen cupboard, and even as a forlorn hope, the china-closet. Nervous and flurried at the thought of the slenderness of the repast without the promised salad, her disappointedglance fell on a round, comfortable=looking bottle in an out-of-the-way corner of the kitchen cupboard,
"Why, there it is!" she said, delightedly. "It's not put up in the usual way, but it's oil!" She removed the stopper, and sniffed at it suspiciously. "It doesn't seem to smell exactly right, but it must be. Anyhow I haven't time now to question its origin, she thought, with a laugh.
gain, it was mintes later, when the door-bell rang her husband's friend with sweet cordiality.
"My friend Joe Eastman, Elinor; you've often heard me speak of him. He's stopping over only from
one train to another, so I made him come right outt." "So glad to know you," said Elinor, sweetly. "I
should never have forgiven Jack if he hadn't brought should never have forgiven Jack if he hadn't brought
you, for he has talked about you so much as-almostyou, for he has talked about you so much as-almostEastman hastened to make a gallant. reply.
"I hope my admiration for his charming wife may ot arouse Jack's jealousy."

No, indeed," was Jack's hearty response. "The Elinor, I hope you have some dinner for us. If Eastman's anything like as hungry as I am, we'll do jusice to it." know I'm my own cook, Mr. Eastman," Elinor said, with an apologetic smile. "And then it was so hot that I had made no preparations at all until-
Jack was standing a little to the back of Eastman and he shook his head violently at her. She stopped, not want Eastman to know he had sent her word.
" in trust I have not put you to any extra trouble," put in Mr. Eastman, courteously

Oh, my, no." Elinor replied, with a mental reser"Oh, my, no." Elinor replied, with a mental reserfor a few minutes," she continued, laughing, "the cook will "A very charming little home," thought Mr. Eastman, as they seated themselves at the dainty table man, as they seated themselves at the
"A pretty nest for these two cooing birds."
"Eat sparingly of the ham,
"Eat sparingly of the ham, Jack," whispered Elinor, as he passed her to take his place at the table
"What's that about the ham, Elinor?" he asked. "Nothing," she was forced to reply, with an exas-
perated smile. "I was only wishing I had something else besides cold ham to offer Mr. Eastman

If there is any one article of food I have an especial fondness for it is cold ham," M.r. Eastman hastened to say. "Do you remember the ham sandwiches we used
to steal at school, Jack?" jolly laugh, as he handed Eastman his plate. "Did I self at the same time to a bountiful supply of the ham "How old were we then?" he continued "About teen, I guess. And they did keep all the boys on pretty short rations at that schoo. Regular Dothe-
boys Hall it was, wasn't it, Joe? But we got even
witl them. We used to sneak the gardener's ladder, with them. We used to sneak the gardener's ladder, dows. Then we had a fishing-rod, with a big needle stuck tightly in the end, and with that we could reach principally, though sometimes we caught a pie. Oh,
fine? Not any better than this, though," helping him-
self a second time. "Can't I give you some more, Joe?
Aren't you eating a nything, Elinor?" has given me a slight headache pathy. "But a little bit of this cold ham won't hurt
you. Have some?" "No, thank you,-Jack," said Elinor, with as much
emphasis as she dared employ. emphasis as she dared employ
day old Prexy caught us at it?" Mr. Eastman was speaking in a reminiscent strain. "I was doing the spearing that day, and five
or six other fellows were at the foot of the ladder to or six other catch. We used to get all we coulder to receive the catch. We used to get all we could, and
take them to our room and have a spread. But the take them to our room and have a spread. But the
boys couldn't resist a surreptitious bite as the sand wiches were handed down, and they were all chewing away like good fellows, when somebody said, 'Are they good, boys? I almost fell off the ladder, for there was old Prexy with his hands in his pockets and a severe expression on his face. One of the boys-a
harum-scarum fellow, who said afterward he thought we should be fexpelled anyhow, and he might as well say what he thought-answered promptly, 'You bet you. These have ham in, and the ones we get at table never do!'
"'I see,' said the old man, nodding his head slowly.
'I am a little hungry myself. Would you mind giving
me a sandwich?" me a sandwich?" Ha, ha!" interposed Jack. "And would you believe it, Elinor? This rascal Joe said, 'Here you pole. We all saw the comical twinkle that came to his eye as he removed it gravely, and walked away, eating it, as though he was as hungry as we were."
"Ah," continued Eastman, smiling, "but our appetites suddenly deserted us then.
"But what did he do about it?" questioned Elinor, as she removed the plates', while the platter still retained
its self-respect with one small pink slice reposing daintily on its white expansivenes
"Not a thing," said Jack, "except to see that we got better meals after that. I met the old man about a year ago on the street, and among other things he
asked me if I remembered that day. He said he asked me if I remembered that day. He said he never enjoyed a sandwich so much in his life. Well,
this salad looks good. I want you to know my wife's an adept at salad-dressing. Pass the crackers to Eastman, Elinor
"It does look tempting," assented the guest. "And this is another one of my weaknesses. Truly, Mrs. surely, you must be a veritable witch to strike so deposited a generous portion of the salad on his tongue, and he closed his lips over it in pleasant anticipation. Ye gods! What a queer taste! He glanced at Jack,
who was just lifting a bite to his mouth. who was just lifting a bite to his mouth.
Jack. "What's the matter?" said Elinor, startled
The salad!" said Jack, with a wry face. "Have you "Why, I can't imagine-" Elinor's face was flushed and she felt ready to cry. "I made it in the usua way. Does it taste bad?
"Never mind, Mrs. Young," said Mr. Eastman pitying the young hostess' confusion. "It is nothing mitying the young hostess corrible than rancid oil, and you couldn't help that. All housekeepers have those little contretemps, no doubt. And I for one can manage to exist without a salad to-da
troubled face.
"But it can't be the oil, Jack," said Elinor, return ing to the question, as she removed the obnoxious mix-
ture to make way for the dessert. "I used some of ture to make way for the
that you brought yesterday.

Yesterday?" said Jack, with a puzzled look. "Yesterday? I didn't bring any oil yesterday." you in the morning to be sure to bring me a bottle you in the
'I do remember that injunction, dear, but I also remember quite distinctly that I didn't get it, for
thought of it as I came in the door, and said to myself,
'Now I'll catch it,' for I'm always forgetting something 'Now I'll catch it,' for I'm always forgetting something.
But youl never said a word about it, so I escaped that But you never
time,"
Elinor was staring at him with a puzzled frown Elinor was staring at him with a puzzled frown,
"Jack, you surely brought some oil, for there wasn"t a drop in the house, and I used some to make this
salad. It was in a round, fat bottle, and I found it salad. It was in a round, fat bottle, and I found
in the-" "What!" exclaimed Jack, as a sudden light broke on him. "A round bottle! Ha, ha! Oh, Elinor Well, if that isn't a good joke! oth, ?"
do youstman, what sose is in that round bottle?"
"Nothing poisonous, I hope," ventured Eastman, with a startled smile.
inor Oh, Jack, don't be silly! What is it?" asked E1-"'Peanut-oil!" answered Jack, with another explosion of laughter. "Peanut-oil for my bicycle-lamp! and he gave me that bottle to try. And to think you should make a salad out of it! in the laughter, thougl with a rather rueful face. Elinor," said Jack, after the had calmed down and were drinking their coffee. "I
know what you are thinking. You're afraid Eastman won't carry away a very pleasant impression of his won't carry awa
with he contrary, Mrs. Young," asserted Eastman never enjoyed myself so much in my life!"

A tremulous crystal, waved as water, poured out
upon the ground, is your own soul. You may defile it, despise it, pollute it, at your pleasure, and at your peril; for in the peace of those weak waves must all
the heaven you shall ever gain be first seen; and through such purity as you can win for those dark waves must all the light of the risen Sun of Righteous and calm them, then, as you love your life.-Ruskin.


## EXPOSITION FLYER

Via
"Big Four"
From
Cincinnati
To
St. Louis
Write for Rates and Folders.
Warren J. Lynch W. P. Deppe Gen'I Pass. \& Tkt. Agt. Asst. Gen'I P. \& T. A. Cincinnati, Ohio.

## Solid Silver <br> Thimble wim Gold Band A BIG VALUE



This is a more at- tractive and pretter have ever offered before. It is made of solid sterling silver, is carefully finished, is carefully finished,

and is of good, heavy weight. The embossed band around the base is heavily gold-plated, giving the thimble an unusually rich appearance. It can be furnished in any size; state which size you want. The thimble is sent by mail, charges prepaid by us. Order as No. 683.
We will send the Farm and Fireside One Year and this Thimble for only

## 75 Cents

FREF the Farm and Fireside.
 Address Farm and Fireside SPRINGFIELD, OHIO

## We Are Paying

Agents most liberally as a regular feature of our large business. You will be sim-
ilarly treated, even though inexperienced, ilarly treated, even though inexperienced,
and will be given the choice of three different plans of working. We always prepay transportation charges. Write for details showing exactly how hundreds of gentlemen and ladies are making steady incomes of $\$ 75$ to $\$ 160$ a month, and say whether you wish city or country territory. Address

THE CROWELL PUBLISHING CO
Department of Agents, Springfield, Ohlo
WVE WANT BOYS and girls in every city and town, who are bright
aud energetic, and who want to make some money. Write us at once. Circulation Dept.
Woniv's HoME CoMPAvIOy, Springfield, Ohio.

## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. It Will Sharpen Your Wits, Quicken the Intellect, Afford Healthful Recreation, and Give Innocent Amusement and Entertainment

Residents of Springfield, Ohio, are not allowed to enter the contests.

THE TRADES PUZZLE
Here are Six Pictures, Each Representing the Name of a Trade. Can You Guess Them?

We Offer Eight Dollars Cash in Four Prizes, as follows: Two Dollars to the First Boy from Whom we Receive a Correct List; Two Dollars to the First Girl from Whom we Receive a Correct List; Two Dollars to the First Man from Whom we Receive a Correct List, and Two Dollars to the First Woman from Whom we Receive a Correct List. Contestants Must State their Ages, and Answers Must be Received Before August 15th.

## also a Prize for each state and territoŕy

As further rewards for our great family of readers, a copy of "Career and Triumphs of Admiral Dewey," a complete biography of the hero of Manila, will be given for the first correct list of answers received from each state and territory. This means a book for each of the forty-five states, one for each terrimeans a book for each of the forty-five states, one for each terri-
tory, one for the District of Columbia, also one for Canada.

The first correct list from each state wins a prize, giving an equal opportunity to all our readers wherever located. In the states where the cash prizes are awarded the prize book will be given to the person sending the second correct list, so that no person will receive two prizes. Answers must be addressed to the "Puzzle Editor," Farm and Fireside, Springfield, Ohio.


FOUR

ANSWERS TO PUZZLES OF JULY Ist ISSUE The Six Traits of Character
$\begin{array}{ll}\text { I-Courageous. } & \text { 4-Kindness. } \\ \text { 2-Melancholic. } & \text { 5-Vain }\end{array}$ $\begin{array}{ll}\text { 2-Melancholic. } & \text { 5-Vain } \\ \text { 6-Forbearance }\end{array}$
The cash prizes are awarded as follows:
Woman's prize, two dollars-S. Louise Hill, ManWoman's prize, two dollars-S. Louise Hill, Man-
chester, N. H. Girl's prize, two dollars-Clara Hopp, Rockford, IIl. Man's prize, two dollars-C. M. Adams, DavenBoy'sprize, twodollars-Wayman Hardaway, War-
Bort renton, Ga.
To all others sending in correct answers to the entire si.x picture puzzles, a copy of the latest and
best photograph of Mrs. Theodore Roosevelt was est photograph of Mrs. Thedore Roosevelt was Corrie Maddox, Jacksonville, Fla.
Mrs. Maud B. Little, Ocala, Fla. Genevieve Rafferty, Pensacola, Fla.
Miss Russie Daniel, Jefferson, Ga.


FIVE

Mary H. Yanney, Macon, F Ga.
Weyman T. Ward, Watkis, Weyman T. Ward, Watkinsville, Ga Mrs. James B. Allen, Buford, Ga. Rosella Board, Hailey, Idaho. Rosell Davis, Boise, Idaho. Mrs. Susan E. Stevens, Boise, Idaho Auna Anderson, Galva, III. Mrs. Kittie McMichael, Milan, Ill. Mrs. H. B. Mars, Rockford, Ill. C. M. Brink, Fort Wayne, Ind. Mrs. Ella C. Utter, Middletown, Io
Stella Miles, Riceville, Iowa. Clarence I. Reed, Goodell, Iowa. Earl Duenbostle, Floyd, Iowa. Helen Gibbons, Croom, Md. Sarah Harmon, Battle Creek, Mich. Mrs. E. H. Parish, Carleton, Mich.
Roy A. Slick, Lambertsville, Mich. Emily Rae, New Baltimore, Mich. Mrs. N. D. Peters, Palo, Micb. Armenia Thomas, Partello, Micb


THREE


SIX

## Wit and Humor

## WE SHOULD SMILE

The thing that goes the farthest toward making life worth while,
That costs the least and does the most, is
The smile that bubbles from the heart Will drive away the cloud of gloom and It's full of worth and goodne
, It's worth a million dollars, and

There is no room for sadness when we see a cheery smile,
It always has the same good look-it's
It nerves us on to try again when failure Such dimples of theoura So smile for me and you
So smile away; folks understand what by It's worth a million dollars,
-La Junta (Col.) Republican. GOOD REASON
Why are you crying, little boy?" asked tourist in Texas.
"Boo-hoo!" sobbed the youngster, the cyclone blew down every house in "What one.'
What one was that?"
"The school-house," answered the boy,

"It doesn't pay to be haughty if you live
in an apartment-house."
may buy a cornet to-morrow." snub to-day

## THESE SNAKES PLAYED TUNES

"Yes, sir," said the old plainsman, as Lincoln Park Zoo, "I don't 'low there's a more interestin' reptile a-goin' than this here same breed, There is those as places the intellect o' the rattlesnake on a low order, an' I don't know as they
have as good a workin' brain as a Gila monster or a tarantular, but I do know, this: Their appreciation o' the art o' to it like one o' these here Wagner felows does to a Theodore are smart to learn, lemme tell you! "Up in Routt County, Colorado, where I come from, there is most rattlesnakes an' sagebrush an' a few people huntin'. member a party o' hunters passin' that-a-way last fall. In the evenin's they, set, about the camp singin', an' along. Three or four times the party was scairt out by snakes that crept into camp to hear the music, though ter'n to be, fer there's no harm, in a rattler, when "But that ain't the curious part o' the tale which I'm


Mr. Firefly- It's a shame one can't sit and glow peacefully without
the whole fire department coming to bother one."
unfoldin'. I was along that place some time after the campers broke up, an' was attracted by a low musical sound from behind the bouider. Knowin' something tunes, I was s'prised to catch the chorus o' one o' the coon songs that had been popular with the campers. It was the one they sing down to the Chicago derin' over it, I crept up, on top o' the boulder, an'
looked over at some flat looked over at some. flat
rocks on the other side. It wasks on sight never to fergit. was a sight never to fergit. had their tails in the air, an' was poundin' out the song fer all they was worth! I lay there fascinated, an' by ginger,
before they got through they done 'The Holy City' an' 'Go 'Way Back and ever heard 'em done. Kill 'em? Twould 'a' been a crime to break up a muChicago Inter Ocean.

## SHE KNEW BETTER

 the defendant's counsel, with a tremulous voice, happed a man handicapped at the very bethe time of his life. From infant in the ay a helpless day, when he sits helpless under the pressure of years bored under the disadvan-tage of the name of Abinadab Watts." plaintiff rose from her seat, and shook a work-worn forefinger in his direction.
"I expected I was goin' to hear strange things in this court-room," she cried, with shrill indignation, "but I didn't cal'late on sech foolish talk as that! There never's been a day in his life that Abinadab's labored, nor thought o', laborin'. He's the most shif less, lazy-

But here she resumed her seat, owing to a sudden pressure from her relatives in the rear, and the counsel, a little flushed, went on in a somew
strain.-Youth's Companion. AN OMISSION
"Remember, boys," said the teacher "that in the bright lexicon of youth there is no such word as 'fail.' After a few moments a boy raised his hand.
"Well, what is it, Socrates?" asked the teacher.
"I was
plied the merely going to suggest," re case it would bster, "that if such is the case it would be advisable to write to
the publishers of that lexicon and call their attention to the omission." - The

MORE REFLECTIONS FOR A REJECTED MS.

## AND OTHERS

It's no use crying over spilt ink. Too many books spoil the market. A roving MS. gathers no dross.
Spare the style and spoil the paper.
Put a minor poet on Pegasus-he'll
write like the devil!
Fine "puffs" do not make fine books.
Take care of the agreements-the pub lishers will take care of themselves.
It's an ill critique which blows no au-
(For the magazine editor)-Bread I
(Fin-Tales you lose (For Sir you lose
(For Sir Conan)-A blotched plotAuthor.


The Dog-"By the way Mrs. Cow and the calf are cavorting this The Dog- By the way Mrs. Cow and the calf are cavorting this The Horse-"Yes; they just heard Mr. Rube tell his wife tha

HE OLD SAYING
"These are good chickens," the dealer "If that's true," replied the shrewd housekeeper, "there's no truth in the old saying."

What old saying?"

SETTLING THE QUESTION
Booker T. Washington's fund of stories bout his race, with which he illustrates the points he makes in his addresses, seems nexhatistible. A Southerner asked him ern audience, to prove to it that the Northerners were responsible for the introduction of slavery into the American colonies. Mr. Washington said that was story to illustrate his view:
"An old colored man had a pig, which he sold one morning to a white man for three dollars. The white man drove of with his purchase, but on the road the pig escaped, and found its way back to ncle Zeke's cabin. A little later another white man came along, and Uncle Zeke sold him the same pig for another pig the second purchaser encountered the first returning in search of the escaped animal. After some wrangling they deto the old darky.
sell mncle Zeke,' said No. I, 'didn't you ing?'

Sho I did, massa.'
'But, Uncle Zeke,' said No. 2, 'didn' I pay you three dollars for this pig a
twelve o'clock?'
'Sho yout did, massa.'
to?' 'Well, then, who does the pig belong to ?' 'Sakes alive,' said Uncle Zeke, 'can' you white folks settle dat question 'tween yo'selves?

A Cheerful view
Two men who had been sitting to way-r in the seat near the door of a rail controversy, and their loud voices "at tracted the attention of all the other passengers. Suddenly one of them rose and said, "Ladies and gentlemen, I ap peal to you to decide a disputed point.
three people out of every
five believe they have
souls. I take a more souls. I take a mor than that. Will all of you who believe you have souls
aise your right hands?
Every hand went up.
"Thank you," he said with a smile. "Keep them
up just a minute. Now will up just a minute. Now wil hereafter raise your lef hands also?"
"Thank you," he said have your hands raised," he continued, drawing eling them, "my friend here will relieve you of
whatever valuable articles you may have."- Imple-
ment Trade Journal.

## RHEUMATISM

Cured by
Magic Foot Drafts
Don't delay. This is the best time of the year to get rid of rheumatic poisons
Try the Drafts-FREE






The Drafts absorb through the great pores of the



 Drafts cost only One Dollar. If not, they cost you
nothing

ALLENS FOOT-EASE


FREE


PRICES REDUCED FOR BO $_{\text {DAYS. }}$
 World Mre Oo.s 617 World Bide., Olnclunath, 0 . GRAY HAIR RESTORED







Hay Fever and Asthma

WANTED Every lady sesen five names

 CANCER
TAPE-WORM Emangut faz

Haxilicen wit Thompson's Eye Water

## $\$ 23,070,500.00$ for St. Louis World's Fair

## WILL MAKE IT TOWER A GIANT ABOVE ALL OTHER WORLD'S FAIRS. ESTIMATED TOTAL COST OF THE CHICAGO WORLD'S FAIR STRUCTURES, $\$ 7,295,000$.

The St. Louis World's Fair

## WILL FAR SURPASS

and Exceed in Every Way the Great

## CHICAGO WORLD'S FAIR

At night it is intended that this whole territory of the Cascades should be treated simultaneously with light-effects. The intention was not to simply trim structures and objects with lights, but that the entire territory should be built up, as it were, of light itself.
In the same manner the entire territory of the Cascades will partake of the color of light as applied by rendering the buildings as if they were composed entirely of light itself, and not simply the effect of light.
models correct in every detail of the ships they represent, will go through every known naval manouver. in length. Each will have its own electric outfit fee propulsion, stcering, firing, signaling and lighting propulsion, stcering, firing, signaling and lighting who, although invisible to an audience, can himself see everything going on about him as perfectly as the commander on the bridge of a real man-of-war.

Nothing Like Its Display of Wealth, Architecture, Grandeur and Greatness Has Ever Been Attempted Before.

The Human Mind is Not Capable of Conceiving the Vastness of this Display-No Word-Pictures Can Portray It.

More Than Five Hundred and Fifty Cars Were Required to Transport the Necessary Appaatus for the Installation of the Electri
Machinery and Its Accessories. APPROPRIATIONS FOR THE WORLD'S FAIR

SLouis and Missouri.-City of St. Louis, $\$ 5,000,000$; citizens of St. Louis
$\$ 5,000,000$; state of Missouri, $\$ 1,000,000$ Total, \$1I,000,000.
United States Govervment, \$6,953,000. Thirty-seven States and Territories have made appropriations, through their legislative bodies, as follows: Ark., $\$ 80,000$; Ariz., \$30,000; Cal., \$130,000; Col., \$100,000; Conn., \$100,000; Ill., \$250,000; Idaho, \$25,000; Iowa, \$125,000; Ind., \$150,000; Kan., \$175,000 Mass., \$100,000; Md., \$25,000; Minn., \$100,000; Miss., $\$ 50,000$; Mo., $\$ \mathrm{I}, 000,000$; Neb., $\$ 35,000$; N. M., $\$ 30,000 ;$ N. J., $\$ 100,000$; N. Y., \$100.-
$000 ;$ Nev., $\$ 20,000 ;$ N. C., \$10,000; Ohio. \$75,000; N. D., \$50,000; Okla.. \$60,000; Oreg. \$75,000; N. D., $\$ 50,000$; Okla.. $\$ 60,000$; Oreg.
$\$ 50,000 ;$ Pa., $\$ 300,000$; Porto Rico, $\$ 20,000 ;$ R $\$ 50,000 ;$ Pa., $\$ 300,000$; Porto Rico, $\$ 20,000$; R.
I., $\$ 35,000 ;$ S. C., $\$ 5,500$; S. D., $\$ 40,000$; Tenn., I., $\$ 35,000 ;$ S. C., $\$ 5,500$; S. D., $\$ 40,000$; Tenn.
$\$ 40,000 ;$ Va., $\$ 50,000 ;$ Utah, $\$ 50,000$; Wash. $\$ 40,000$; Va., $\$ 50,000$; Utah, $\$ 50,000$; Wash.
$\$ 75,000$; W. Va., $\$ 50,000$; Wis., preliminary $\$ 75,000$; W. Va., \$50,000; Wis., prelimina
$\$ 25,000 ;$ Wyo., $\$ 25,000$. Total, $\$ 3.605,500$. \$25,000; Wyo., $\$ 25,000$. Iotal, $\$ 3.605 .500$. have been made by popular subscription to the amount of \$990,000.
Total Appropriarions by states and territories by legislature and popular subscription, up to date, $\$ 6$, Io7,500. Grand total, $\$ 23,070,500$.

ELECTRICITY AT THE WORLD'S FAIR
Incandescent electric-lamps are used, for the most part, for the outside illumination at the Louisiana Purchase Exposition at St. Louis.
The main picture of the Exposition covers a territory of six hundred acres, and is arranged in a setting shaped not unlike a lady's fan. Three courts radiate from a common center. This common center is occupied by a territory known as the Cascades, made up of architectural, sculptural and hydraulic features extending in a curve over a distance of about three
thousand feet. Three architectural features, very ornate in design, are placed along this curve, and are ornate in design, are placed along this cone by a colonnade at the crest of the Terrace of States. The central place of this architectural setting is occupied by Festival Hall, two hundred feet high, while the smaller structures on either side, each one hundred feet high, are known as restaurants. In front of each of these buildings is to be placed a motif from which a cascade of water issues, tumbling over a series of falls, and finally reaching the Lagoon.
The daylight effect here relies on the combination of water-effects with architectural or sculptural settings.


## ELECTRICITY PALACE, 525 BY 730 FEET, WITH COURT IN CENTER-COST $\$ 399.940$

One effect is to make the entire territory the color of an amethyst crystal, while at the same time the Cascades will appear as illuminated by vari-colored lights for projector-lamps. At another time, when
the entire hillside is an emerald color, the water will the entire hillside is an emerald color, the water will take on a phosphorescent hue. Again, when the en-
tire Cascade territory appears. incandescent, the waters tire Cascade territory appears. incandescent, the waters
of the Cascade will appear as sheets of molten silver.
of the Cascade will appear as sheets of molten siver.
The lights are ever changing, not as though some operator was simply turning a crank to produce recurring results in automaton fashion, but certain effects. prearranged, will be arranged for each evening, or
portion of an evening, and the effects dissolved from portion of an evening, and the effects dissolve
The Exposition has a power plant of a capacity of ten thousand six hundred horse-power, and in addition has rented ten thousand horse-power.
naval battles in miniature
A subject uppermost in the mind of every large nation to-day is its nary. The management of the
Louisiana Purchase Exposition recognizes this, and Louisiana Purchase Exposition recognizes this, and
one of the most interesting, and at the same time most one of the most interesting, and at the same time most
instructive, features will be the United States Naval instructiv
Exhibit.
Exhibit. On a considerable sheet of water our navy will be On a considerable sheet of water our navy will be
shown in peace and at war. A fleet of thirty vessels,

Every type of ship in our navy will be reprèsented. The large battleships, such as the "Indiana," "Massachusetts," "Oregon," etc.: the cruisers "New York," "Brooklyn," etc.; the torpedo-boats, the torpedo-boat destroyers and even the submarine boats.

An exhibition of the German navy, based on a similar genera! plan, was successfully given in Germany ast year.

The display in St. Louis will be intensely interesting, inasmuch as it is proposed to reproduce in actual detail the Battles of Manila and Santiago. Mountains and hills, harbors and forts in the distance, will form a realistic background, and the effect will be that of Let us see, in imagination, what one of the St. Louis performances looks like.
The first part of the program shows the navy at drill and manœuvers. The commands are given from the flag-ship by signal-flags displayed at her masthead. The ships show answering signals, and obey the orders as given. A faithful representation of target-practice with the large guns follows. By an ingenious device the floating target, over a hundred feet away, shows where the shell is supposed to have struck by a puff of smoke after every discharge of the guns. Small torpedoes splash from the bows of the torpedo-boat into the air near the target. The submarine boat dives, and after a disappearance of a a tremendous waterspout produced by the arpedo that it has launched unseen.
Instructive as the performance has been so far, it is much surpassed in interest by the second part, the battles.

The eye of the spectator has had time to adjust itself to the size of the ships and scenery, and the surroundings seem real. The fleet slowly steaming in again, with smoke pouring from every funnel, establishes a blockade of the coast. A sailing vessel trying to break the block-ade under cover of the land iorts guns is sunk. Then comes an
attack by the fleet on the forts. One after attack by the feet on the forts. One afte another the enemy's land-batteries are si lenced. The last and most exciting part of cape of the enemy's fleet from the harbor and its destruction after a fierce running fight.

ST. LOUIS UNANIMOUS CHOICE
The city of St. Louis was uttanimously chosen as the place for holding the World's Fair by a convention of delegates appointed by the Governors of the States and Territories within the original Louisana Purchase St. Louis is the fourth city in the United States in point of population. It is noted
for its beautiful residence districts. It leads for its beautiful residence districts.
the world in many lines of industry.

## The Young People



## "COUSIN MATILDY"

by uncle theodore

Lonesome? Down-hearted? Wall, wall! That 'minds me what Cousin Theodore, lonesome young folks be the lonesomest bein's on airth, when
they've nothing else ter work at." "She they've nothing else t
explained it this way:
'"Young minds, bein' nimble-like, keep goin' 'round an' 'round an' 'round in the onesome, groove, till somebody's jest got
ter, yank 'em out o' the rut, chirk 'em, up, an' give 'em "apples, o' gold in pictur's o' ${ }^{\text {' }}$ silver"' ter think on,
"'Ever know Cousin Matildy, John? No? woman, bein' 'bove ninety year, but land! there wa'n't a bigger favorite 'mong the young folks than she uster be. They jest
adored her, ef she was wrinkled an' trembly.
'From the days when bein' nigh sixpy's deestrick, clar up ter the time when she couldn't go without crutches, bein' so crippled with rheumatiz, an her husband an childern, 'ept her youngest darter, al
in the meetin'-house buryin'-ground, she had more young friends than anybody. All the gals uster tell her their lovester, or couldn't make a new dress out $0^{\prime}$ an old one, or build a spring bunnet out o' the remains ${ }^{\prime}$ ' last year's finery,
or ef there was a bride-cake wanted fer a weddin', Cousin Matildy could allus show folks jest what ter do; an' land alive! how she would hearten up the most dis-
tressfulest bein' with her warmin' smile an' her soft words.
they would, or hart nobody; let do what they would, or whatever scrape they was in, sI jest want ter tell ye, Cousin Matildy never grumbled at nothing. She never went whinin' 'round 'cause the wind was lonesome or times was hard.
"Ef anybody had 'a' seen trouble, she ter go bo afflicted an' mis'able.
"She allus, had jest the winsomest way with her, an' I tell ye, John, she could be a companion fer anybody, from the
Queen $0^{\prime}$ England ter the leetlest piccaninny., More'n that, nothing mean nor sneakin' dast show itself nigh her!
left off swear-words, an' quit usin' an backer, an' made hisself quit usin ter man, onct he knew Cousin Matildy, She man, onct he knew Cousin Matildy. She
never preached at him, nuther; jest treated him like he was bound ter be what we know'd he could be-a ginooine, hon'able, clean-livin' man.
But fer all that, Cousin Matildy saw a lot o things in folks that nobody else make a gal quit unworthy companions or a young feller seek better society, an they'd never mistrust 'twas her doin's, nuther; they jest thought they was havin' their own way 'bout things, an' every time their way was her n, too
Matildy had a way o' makin' low down things look meaner'n anybody you ever seen, an' she'd make good things look the beautifulest, the desirablest, the pertiest "o' all.
'Her eyes jest seen straight thro' a lie, an' nobody would deceive her, 'cause den, leastways have something they was shamed of when she found out.
"You 'member Emmeline Horner, an' the time when she tuk ter runnin' out 'Emights with some low-down companions? neline's mother was it. Fust we know'd, Cousin Matildy made a party, an' axed the nicest young folks in town, an' the preachers an teachers, an' had a orkistry an' a lot o singers. What a evenin' that was! Everything was so lively, nothing stuck up a bit; jest a rale jolly time, an lots $0^{\prime}$,good hings ter eat, an everybody sayin' nice elocute fer 'em. An' ef you b'lieve me elocute fer em. An ef you blieve me, that down-draggin' set alone
"Her ma told Cousin Matildy that that night was the turnin'-p'int, an' Emmeline seen the difference twixt 'up an' down' fer the fust time in her life.
Then, don't you rickollect that Sidney Long who onct was goin down-grade so fast? Wall, Cousin Matildy found out he was, orful fond o' music an' a jolly crowd, an' she coaxed Suzanna Swift an' Polly Arthur an' Billy Lesher ter start a young house three nights a week till they got house three nights a week till they got
a-goin'. Suzanne played fust fiddle, Margery Ames played the piany, an' Billy gery Ames played, the piany, an Billy
tuned the banjo, an' Sidney the mandolin, an' I disremember all the rest on 'em; but bimeby, when it came long winter evenin's, onct a week they met ter each other's houses, an' had music an' games, an' onct a month perlite refreshments. had a fifty-year birthday, them same young folks year birthday, them same her the comfertablest rocker you ever seen, an' Sidney Long made the presenshun speech.
I tell ye, John, it do beat all what good companions can do fer folks while "'s growin' how Sidney I hain't telled ye all, nuther, how Sidney Long an' Margery Ames got brasky; an' years after, when they, had growed-up boys an' gals o' their own, an' Cousin Matildy went asleep one night an' nobody could wake her up, Sidney Long wrote the sympathizinest letter ter her darter, tellin' all that Cousin Matildy had done fer him a-startin' him in the good way.
, Somehow, John, when I get ter thinkin'. o' that woman, a mist hanss front o, my sight, an' my ole heart gits thumpy an' growed up ter be like Cousin Matildy."

## WHAT THE PLODDERS ACCOMPLISH

If we were to examine a list of the men who have left their mark on the world we should find that as a rule it is not composed of those who were brilliant in youth, or who gave great promise at the
outset of their careers, but rather of the plodding young men who, if they have not dazzled by their brilliancy, have had the power of a day's work in them; who could stay by a task until it was done, and well done; who have had grit, persistence, common sense and honesty.
It is the. steady exercise of these ordi= nary, homely virtues, united with average ability, rather than a deceptive display of
more showy qualities in youth, that en ables a man to achieve greatly and honorably. So if we were to attempt to orably. So if we were to attempt to the future, we should not look for them among the ranks of the "smatt" boys. those who think they "know it all" and The Religious Telescope.

# s5.0. Value ior 60 cis. 

A Garment-Cutting System That Anybody Can Use

## MANY THOUSANDS HAVE BEEN SOLD

for $\$ 5.00$ each, but you can get it FREE
It is equal to any $\$ 5.00$ system sold anywhere, and this same system has retailed the country over for $\$ 5.00$. Order to-day, and get it FREE.


THE NEW LONDON GARMENT-CUTTING SYSTEM usually sold at $\$ 5.00$, is the most successful and most simple garment-cutting device ever invented. Full directions are printed on each Chart, and after a few patterns have been drafted on it the user will be able to do as good

It produces as accurate results as the complicated systems for which large sums are charged. It enables the mother who has a family of little ones to provide clothing-or to do so at a minimum expense-and to save for other departments of the household money which now goes to dressmakers.
It teaches you to make your own garments
It enables you to save the cost of your sewing
It cultivates your taste for style, gracefulness and fine work It renders it possible to have two dresses instead of one It is that which makes you independent and selforeliant ITS ADVANTAGES
It is so simple that any one can use it.
It is self-instructing. Full directions for drafting and cutting garments are printed on the Chart

It does away with the expense of dressmakers,
You get the correct size of darts, length in front, back and underarm, and shape of shoulder, and the garment requires practically no fitting.

It effects a great saving in cloth, labor and time
It is indispensable in a family where economy is an object.
We will send this valuable Garment=Cutting System, and the Farm and Fireside one year, to any address, post=paid, for only

NoTE -If your own subscription is paid in advance now, and you accept this
offer, it will simply date your paper ahead for another year. Write to-day.
FREE We will send this Garment-Cutting System absolutely free and AND FIRESIDE at the clubbing price of 35 cents each. Address FARM AND FIRESIDE, Springfield, Ohio

## Farm Selections

## BACTERIA

BCTERIA, or germs, are usually spo
ken of as antagonistic to the wel fare of mankind. This is a popula tain group of species or variet of a certain group of organisms is inju-
rious, it does not follow that the whole group is injurious. Solanacex, an orde deadly nightslade, jimson and other and tomato, which are used extensively as food-products. But man is apparently since various disease-producing bist, and have been frequently spoken of in various that all bacteria are injurious. However not be unduly criticized for their should rance of bacteria, for twenty-five years
ago bacteria scarcely received a mention in any of the institutions of learning. Only the advanced medical colleges pro-
vided for instruction on disease-germs twenty years ago. A decade ago rery
few agricultural colleges provided for bacteriological instruction, because it was thought that only physicians required
knowledge of bacteria; but now practi cally all institutions of learning have well equipped laboratories for the thoroug man; for from the recent investigations is known that upon a knowledge of thei dairying, agriculture, preservation of oods, and many other industries plants. Although they were formerly classed as animals, it is now universally conceded that they are plants. They are
single-celled and of simple structure, be ing composed almost entirely of proto plasm; they differ rom higher plants in coloring-matter). They resemble mor many different varieties of b. There are twelve hundred different kinds have been are being found every day
are being found every day
Size.-Bacteria are ver
invisible to the naked eye small, being invisible to the nake eye. It would take placed end to end to make an inch in length, or about one and one hall mill-REPRODUCTION.-It is to their rapid reproduction that bacteria owe their wonduce by simple division of the parent on the rad species. Some of them under favorable conditions divide, thus doubling thei number, in twenty minutes; others in
three or four hours. Another method of reproducing or propagating is by of higher plants, although they are not of higher plants, although they are no
identical. The spore is very resistant to identical. The spore is very resistant tants of sufficient strength to destroy bac WHERE FOUND.-Bacteria are omni present. They are in the air we breathe hay, flowers, fruit, vegetables; in the water we drink; in our food-in fact, they are earth and the upper layers of the atmos-phere.-Fronı Bulletin No.

## 

## A Free Trip to the Seashore! <br> ANY BOY CAN GO

Don't be afraid to try it. $\begin{aligned} & \text { If oooo boys are making money } \\ & \text { this way, YOU Con do } \\ & \text { Youn }\end{aligned}$
$\$ 250$ in Extra Cash Prizes Next Month To Boys Who do Good Work
Address, BOY DEPARTMENT, THE CURTIS PUBL

"ELI" Against the Field.
路
HAY BALER WITH A RECORD,
the pride of shippers. Steel or Wood, Horse or Steam Power
Such automatic features as self-feedin, block placing, hay
condensing, bell ringing, etc. ss stylee and sizes. Get free Eic catalog
COLLINS PLOW COMPANY,
Hampshire St., Quincy, Ills.

## ENTIRELY NEW <br> The Twentietl Century Peerless Atlas and Pictorial Gazetteer of All Lands is up o-date. Two invaluable reference works in opEvery Census from 1790 to 1900, also 1901 Crop Agents Wanted The Peerless Ald in guaranteed the finest selle proits they ever made. Your success is certain. Contains $1 \overline{0} 0$ manmoth 340 Colored Maps and Magnificent Miustrations. Mat "Story of the Workers," addres THE CROWELL PUBLISHING CO Springrield, Ohlo

STEEL ROOFING
freight charges paid by us


AT \$2.25 PER SQUARE


Reasons Why tho SOUTHWEST
 CHEAPER LANDS.
UNEQUALED PROSPERITY. Low Rate Excurslons on the first and third
days of each mont
Writo for
"KATY." KATY" - St. Lisuls, Mo

## Bors <br> SHOOTS 300 TIMES WITH ONE LOADING A TRUE SHOOTER <br> THE IDEAL GUN FOR BOYS <br> FREE

Boys have use for it every minute-hunting in the woods, shooting at targets,
drilling as soldiers, and hundreds of uses that only boys know about drilling as soldiers, and hundreds of uses that only boys know about.
Harmless, strong, durable, shoots accurately, and cultivates trueness of sight and evenness of nerve.

It gives the boy lealthful pleasure, and lots of it for the money.
This rifle uses no powder-just air. There is no smoke, no noise.
This rifle uses no powder-just air. There is no smoke, no noise
Air is plentiful, and shot costs but Harmless, and lasting for years-no wonder every boy should want an air-rifle Expert workmanship and accurate machinery enable the manufacturers to produce

## expert marksman with little practice.

How to Get This Repeating Air=Rifle FREE
Send us your name and address on a postal-card to-day, and tell us you want to get the air-
rifte. We will send by return mail a receipt-book containing eight coupons, each one of which is good will also send a sample copy of the paper, so you can judge of its merit for yourself. Your. We your friends and neighbors at 20 cents each. They will gladly take advantage of a chance to want a rifle, perhaps you know coupons are sold, you send the $\$$ r. 60 to us, and we will forward the rifle
will send a receipt-book by return mail. Hundreds have earned rifles by our plan, and you can do it in one day's time. Write to-day


Vol. XXVI. No. 22
EASTERN EDITION
AUGUST 15, 1903
TERMS $\left\{\begin{array}{l}50 \text { CENTSA } \\ 24 \\ \text { NUBERS }\end{array}\right.$

## Decorating Farm-Home Grounds

WHILE there has been a wonderful improvement of late years in the appearance of the grounds
around farm homes, there are still too many places devoid of adornment. Admitting all that might be said in excuse for this lack of improvement, such as expense, labor, and mainly lack of time, there still seems no good reason why so many farm cost for it in time or money is so trifling. I do not advocate sctting out large
trees or rare slurubs unless one is able to have these trees or rare shrubs unless one is able to have these in perfection; but why, when the more common shrubs may be bought for from twenty-five to fifty cents each, and vines at the same cost, should any one begrudge this small expense and the labor of setting out and caring for the shrubs and plants involved?
A few years ago a friend bought as small farm at the usual price for such property in the section where
it was located. The bitildings were in fair condition, it was located. The bitildings were in fair condition,
but there were no fences between the farm proper and the dooryard, nor between the farm and the roadside. and the fowls helped to make the place look more like a barn-yard than a dooryard.

My friend soon changed this state of affairs, and in three years had a good lawn, not a portion of the
meadow as before, a California-privet hedge between the yard and the road, a wire-netting fence between the lawn and the farm proper, and shrubs were placed properly on the lawn, generally in masses. Vines climbed over the porch, and altogether the place took on a "homey" air refreshing to see. The farm was kept up about as the former owner had done, the main expense being placed on the grounds immediately surrounding the house. Roughly figured, the money cost was probably in the neighborhood of twenty dollars, say an expense of fifty dollars including labor. Here is the sequel: Last spring this place was sold for nearly six hundred dollars more than my friend paid
for it three years ago. As circumstances made it dcsirfor it three years ago. As circumstances made it dcsir-
able that it be sold as soon as possible, it is plain, to my mind at least, that the attractiveness of the home

yUCCA FILAMENTOSA
grounds brought not only the increased price, but the quick buyer. It does not follow, of course, that this result can be brought about in all cases, and the incident is mentioned merely to show the effect of such improvements on the minds of buyers when a place is put on the market. Most buyers are looking
for a home, and they not orily appreciate such imfor a home, and they not only appreciate such improvements to pay a fair price for them, and in many cases nore thay their original cost. It is by no means necessar
It is by no means necessary or desirable to crowd the first principles of correct landscape-gardening is to reserve a widc cxpanse of lawn, placing the shrubbery mainly in masses in corners. This being the case, the expense for lawn-adornment is very small. If vines are used-and by all means they should bethe expense is increased but slightly, for enough good honeysuckle-vines, for example, may be bought for a dollar to furnish after a very few years all the blossoms and screen desired for a porch of considerable length. Monthly Fragrant four years from planting This is Monthly Fragrant four years from planting. This is entirely hardy, has no insect enemies, is nearly evergreen, and blooms at intervals nearly all summer It grows rapidly, and if trained over a wire trellis rather than twine its tendrils may be sent in any desired direction, and thus a single vine made to cover a large space. Fairly rich soil, good mullching with manure in the late fall, and a good supply of water, are all that is required to enable this varicty to give one full satisfaction. I am not familiar with any
climbing vine which will give greater satisfaction, all things considered. Others are more profuse bloomers, perhaps, and many grow more densely, but for a clean, dainty, yet strong and healthy vine for any purpose where a vine may be used I hold it without an equal. this a dollar to some nurseryman who advertises in this paper, and ask him to senc its value in HoneyAmong the attractive shrubs or planting in October arm grounds are the varieties of syringa more commonly known as lilac. While these flower mainly in May, they are so attractive during their season of bloom, so clean in foliage, so free from insect of binies, and withal so hardy, that they deserve a place on every farm-home grounds. Some of the and to one familiar only with the old-fashioned purple sort will seem like a new class. If asked to select three of the best of these new sorts, I should choose Josika because of its fine dark green foliage and bcautiful purple flowers, and also for the reason that it blooms after nearly all other sorts have done.
Princess Alexandra, with its large panicles of pure Princess Alexandra, with its large panicles of pure
white flowers, is another of my favoritcs. Then I white flowers, is another of my favoritcs. Then I which has large branching panicles of flowers which which has large branching panicles of flowers which open, and which are very fragrant. forsythia, with its golden blossoms; Spirea Van Houte, very hardy, and bearing masses of large almond, which bears its blossoms in May, before the foliage of the plant appears. For flowers in June
the varieties of wiegela and of syringa (properly the varieties of wiegela and of syringa (properly
Philadelphins) will furnish an abundance, while in July we will nced to depend largely on some of the spirecas, such as Collosa Alba, white; Billardi, with blossoms of rose-color, blooming nearly all sunimer,
and Bumalda. a dwarf sort with rose-colored blos soms. In Angust and September the althæeas will furnish bloom which will be attractive if the following varietics are selected: Totus Albus, white Plenó, large double flesh-colored blossoms. Among althras the purple sorts should be avoided, as the shade of color is not attractive. Then for fall blooming we have the favorite Hydrangea Panictilata Grandiflora, than which no better shrub grows
Its immerrse panicles of white are very attractive to


HONEYSUCKLE MONTHLY FRAGRANT
all who see them, and as the plant is entirely hardy In thi from May to late September, and all of them inexpen sive, hardy and easy to grow.
If one will venture among the hardy perennials or hardy herbaceous plants they may add many desirable sorts to the collection, and at very small cost. One advantage of this class is that they need little care, and when once established will bloom year after year, in creasing in size and beauty. One of the best of this class for a specimen-plant to stand by itself on the
lawn, as shown in the illustration, is Yucca Filamen lawn, as shown in the illustration, is Yucca Filamen tosa, It is almost entirely hardy even in the Fa plant is quite tropical in appearance, and the large bellplant is quite tropical in appearance, and the large bell July, and continues to do so nearly all summer The achillea, or the well-known yarrow, is another hardy herbaceous plant suited to any lawn, but especially good along the border because of its low habit.
The blossoms are red, white and yellow, according to The blossoms are red, white and yellow, according to panula, dwarf plants blooming from May to September, according to variety, the rudbeckia, with its midsum mer and early-fall display of bright yellow bloom Platycodon Grandiflorum, bearing large blue flowers in June and July, and caillardia, with showy blossoms of shades of yellow or purple shown in early summer and continuing until fall, are a few of the many other desirablc hardy herbaceous plants well suited to the farm-home grounds. All are casy to grow.
Reference is made to only a limited number of classes and of the more common ones-common in the those who have been lax about the adornment of thei home grounds to make a start this fall

## COME TO THESE SCENES OF PEACÈ

Ome to these scenes of peace,
Where, to rivers murmuring,
The sweet birds all the summer sing, Where cares and toil and sadness cease Stranger, does thy heart deplore
Fricnds whom thou wilt see no more? Fricnds whom thou wilt see no Pangs of hopeless, severed love Thee the birds that carol near Shall soothe, as silent thou dost lie Shall soothe, as silent thou dream of their wild lullaby.
And dame to bless these scenes of pea Where cares and toil and sadness cease.

## FARM AND FIRESIDE

the crowell publishing co.

\(\begin{array}{ccc}147 Nassau St. \& SPRINGFIELD \& 204 Dearhorn S<br>NEW YORK CITY \& OHIO \& CHICAGO\end{array}\) Subscriptions and all business letters may be addressed to "FARM AND FIRESIDE," at either one of the ahove-mentioned<br>"FARM AND FIRESIDE," at either one of the ahove-me offices; letters for the Editor should be marked "EDITOR.

## entered at the post-office at springField, ohio, as second-class mail matter

## TERMS OF SUBSCRIPTION One Year (24 Numbers) In Clubs, if Paid in Advance $\quad: \quad: \quad: \quad 30$ Cents 年 The above rates include the payment of postage by us. Al subscriptions commence with tbe issue on press when the order is received. is received. Subscribers receive this paper twice a month, whleh is often as most otber farm and poultry journals are issued.

 Silver, when sent through the mall, should be carefully wrapped
ln coth or strong paper, so as not to wear a hole through the
envelope and get lost.
Postage-stamps will be received in payment for subscriptlons in
sums less than one dollar, if for every 25 cents in stamps you add sums less than one dollar, it for every 25 cents in stamps you add
one one-cent stamp extra, as we must sell postage. stamps ata loss. The date on the "yellow label" shows the thme to whlch each
subserlber has pald. Thus: Sepl903 means that the subscription
1s paid up to September, 1903; Octi903, to October, 1903, and so on.
When money is received, the date will be changed within
four weeks, so that the label will answer for a receipt. When renewing your subscription do not fail to say it is a
renewal. If all our subscribers will do thls a great deal of renerwal. If all our subscribers will do thls a great deal a
trouble will be avoided. Also give your name and anitials just as
now on the yellove address label; don't change it to some other member of the family, is the paper is now coming in your wife's.s. iscontinuances.-Subscribers wishing their paper discontinued
should write us to that effect and payg ap arl arrearages. If thls
is not done, It is assumed that the subscriber wlshes the s not done, it is assumed that the subscriben
continued and intends to pay when convenlent. Always name your post-office.

## Mr. Greiner Says

AThe forestry.-Does such a thing exist? The forty-four members of the Agricultural So
ciety of Berlin, Germany, who have been traveling through the United States to study the present status of American agriculture do not seem policy, and only repeat the prediction which earlier German visitors have made some years ago; namely, that some day in the near future Germany will be
selling lumber to the United States. We are cutting selling lumber to the United States. We are cutting
our timber recklessly. Germany is saving hers, and has been planting systematically for generations. Lum ber, even right here in this center of the lumber trade
(Tonawanda, N. Y.), is getting to be so expensive that (Tonawanda, N. Y.), is getting to be so expensive that
it is often a question whether we can afford to build houses. It does seem to be high time to begin planting forests, and any farmer having cheap land can do in the right way, selecting any kind of fast-growing poplar-he may double or treble the value of his entire farm and greatly increase the revenues from it in the
course of ten or fifteen years, and all this without great course of ten or fifteen years, and all this witho
expense or effort. Why not make a start now?

Friends or Foes? - A Michigan reader accuses me of "seeming to have a spite against all birds in general,
and the common robin in particular." He should and the common robin in particular." He should
guess again. The fact is that I am a great lover of birds, and of all harnless creatures in general. I have befriended them in every way possible, and have writ-
ten many a line in their defense. I allow no shooting on my premises except in emergencies; no destruction
of birds' nests; no killing of any harmless creature, be it frog, toad, snake, rabbit, owl, crow, or any other
bird, large or small, unless in rare cases when it bird, large or small, unless in rare cases when it
seems absolutely neessary for the protection of crops. seems absolutely necessary for the protection of crops.
Sentiment is one thing, common sense another. I try
to strictly adhere to the latter, yet giving to the former every benefit of doubt. I go so far as to protect weasel and skunk so long as they stick to their natural (ben-
eficial) food-habits, and let my poultry and poultryeficial) food-habits, and let my poultry and poultry-
products alone. I protect the Enlisl sparrow, and
will do so until this bird becomes much will do so until this bird becomes much more destructive on my premises than it has proved thus far. The
robin comes under this general rule of treatment. It finds protection just so long as I can possibly get
along with it. The protection is with
bird bird becomes a serious pest and a nuisance. What we
must do in the first place, in dealing with birds and must do in the first place, in dealing with birds and
all other animals, is to throw prejudice aside, and try

The Robin in Particularundoubtedly one of much local bearing. I I willt gladly
admit that this bird, as the harbinger of spring has warm place in our hearts. In many localities, it is a
harmless, perhaps a useful, creature, and withal decidedly interesting a everywhere. Our Mnichigan friend
says: "Here in the Michigan fruit-belt the robin is considered one of the greatest helps to the horticul-
turist. They have been carefully protected, and a are
encouraged to nest in every forclard turist. They have been carefully protected, and a re
encouraged to nest in every orclard and garden, until
they have become almost as tame as chickens. No they have become almost as tame as chickens. No
other bird will gather more worms caterpillars or bugs.
The state entomologist of Nebraska affirms that the The state entomologist of Nebraska affirms that the
average robin eats seventeen quarts of caterpillars or
their equivalent in one season, and that nine out of
these seventeen quarts are ordinary cutworms." How
different in my own locality! Here the robins are the greatest pest the fruit-grower has to contend with Cherries, sweet, and especially sour, are one of our now leave to the grower but a small percentage of crop, and not that unless the cherries are promptly
gathered before they are fully ripe. The birds have stripped a large block of June-berries for me almost to the last berry within two or three days. They take the best strawberries and a large proportion of our blackcap raspberries. For some years they have even
eaten the pears off some trees, and plums, peaches, eaten the pears off some trees, and plums, peaches,
etc.; and all this in spite of the fact that we have great quantities of mulberries, both white and black, which the robins are said to prefer to cherries, but which fact does not hinder them from taking the other fruits just the same. In consideration of our local conditions, "Don't begrudge the few cherries the "Farm Journal," Don t begrudge the few cherries the birds get. Plan theory rather than practical experience. Plant more cherries when we have whole groves of them and then can't get the fruit? The truth of the matter is that we have disturbed the balance of nature by furnishin safe retreats and hiding-places to robins, and induce them to breed and multiply immoderately. We have to counteract this by withdrawing protection from them or else suffer; and self-preservation is the first law of
nature. According to the best estimate I can make, I nature. According to the best estimate I can make, I place (twelve acres). Where do they get the eighteen thousand quarts of cutworms? Thorough cultivation bout exterminated the cutworm on my place years ago doubt that there are three cutworms to each robin on the place. I don't usually wait for birds to rid my trees of caterpillars or my soil of cutworms. But wherever the robin is not actually a pest, I join in the dmonition. Don't robrobins nests. Don't kill bir

The Chinch-bug Disease.-The Ohio Experimen Experiment the farmers' fields of the chinch-bug pest. Again, as in former seasons, the station distributes the fungus of fatal chinch-bug disease, so that every farmer of the state who applies for it may introduce this disease into his bug-infested fields. This disease is very infectious, nd is easily transferred from sick, or even dead, bugs o living ones. The fungus develops most rapidly in wet weather. No immediate benefit will be derived by
distributing it during dry weather, but as it retains its distributing it during dry weather, but as it retains it vitality for a number of months, it may start an ep-
idemic of the disease long after its distribution upon the approach of suitable weather. An innovation has beel the Ohio station, which was done in past seasons by the Ohio station, which was done in past seasons by
means of dead or living insects. This year the fungus has been grown in a mixture of corn-meal and beef broth, which is a simpler and cheaper method of cul ivating and distributing it to the farmers of the state han in the old, or natural, form. Of course, only mall quantity can be provided to each individua armer, and this should be used to the greatest advan age. Collect a number of bugs, and confine them ogether with a small portion of the fungus materia finely divided in a tight wooden box containing a thin ayer of earth in the bottom. Supply the imprisoned eep the keep the contents of the box moist by sprinkling water ver them. As bugs show evidence of disease, distrib ute a part. places with iresh bugs. Keep up this operation until good number of fungus-covered bugs are distributed become foul, they should be carefully cleaned and thoroughly aired. Or you may simply crumble up the material finely, and distribute it where the bugs are most numerous, preferably in damp places, such ungus-covered bugs may be preserved in order to star the infection anew next spring.

Plant-lice in Fruit-plantations.-In many sec tions of New York State young fruit-trees are this year badly infested with plant-lice. Even prospective good
crops of apples have been badly injured and all but ruined by the attacks of aphides-a rather unusual oc lantlice. mmediate vicinity, but a patch Wilder currants m been and still is very a patch orly infested The leave are badly curled up, and look yellowish or spotted giving to the entire block of bushes an unnatural and ruit on them, and the individual berries were as large and fine as ever, and now that they are gathered vill be able to trim up and clean up the plantation and then apply the proper remedies. Undoubtedly however, the plants have suffered much, and their vitality and fruiting capacity for another year will be greatly reduced. Cornell's "bugman," Professor Sling erland, in a circular just issued, says: "The standard nsecticides used in fighting plant-lice and other suck ng insects are kerosene-emulsion, whale-oil soap and oap should soap should be dissolved at the rate of one pound in that he finds a sulphur-tobacco coap very effective Tobacco Tobacco-stems, to be found in cigar-factories, can be in two gallons of water), and an effective decoction thus made. Kerosene-emulsion should be made by the usual formula of one half pound of soap, one gallon of boiling water and two gallons of kerosene, and then diluted with about seven parts of water. Be sure to get a good emulsion by churning or pumping the dis solved soap and kerosene together for several minthrough a kerosene-water pump would also kill the lice Nurserymen often bend over the infested branches, and dip them into a pail or pan of the mixture, and this would be the most effective method of treating a reject to the attacks of plant-lice, but, being low, we can treat it by dipping, as advised by Professor Slingerland

## Mr. Grundy Says

Sensibleness.- 1 was in a hardware-store a few The proprietor shook hands with hime and asked things he asked how he was getting along with his haying My hay is all in der barn und stack," replied the "Well," said the proprietor, "you are lucky-one of the luckiest men in this section. More than half the terday. There will be when the storm came on yes here. Many that didn't get caught by the storm of lucky man." He then sterday.

Ther
The farmer turned to a clerk, and with a grimace said, He say dot I am lucky. Dere vas no luc dot hay, und I got it. Does he tink dot I vas so foolish I cut ven it look like fair vedder, und den all aboud dot hay like a steam-engine, und ged it. Den afde dot I vas lucky! Ha, ha!
Fure enough, it was merely plain "sensibleness, For some time the weather has been squally. Som farmers watched the indications closely, and when was plain that we would have at least two or three
days of fair weather, they "went after the hay like steam-engines," and got it up in splendid shape. They "go after it" came the oll and whe the fellow when they got ready, hoping that the weather would b fair, and they have a lot of damaged hay on hand There is lots of luck in "plain sensibleness,"

Building and Loan Associations.- I note what friend Greiner says about building and loan associations in the July I5th FARM AND FIRESIDE. We have on in our rillage that has been in existence sixteen years,
and it is as sound as a dollar. I am one of the direc and it is as sound as a dollar. I am one of the dire
tors, and know all about its workings. During i existence it has enabled a great many wage-earners buy or build homes of their own. Many who neve ing in the possession of pretty little how rejoic naturally are better citizens, and men among men. To be sure, this is a local concern, though we loan mone in other near by towns. All property offered secur ity must be strictly gilt-edged and the borrower must be a shareholder in the association. There are thre appraisers, of which I am one, and we see that titles are perfect and the property is all that it is represented urer are elected for three-year terms by the stock holders. None receive any salary except the secretary to ino taken as an investment has paid fom ive amoune per cent a year, the rate depending on the good things for a town when they are carefully and conservatively managed. The mushroom concerns that started up in the cities, offering eight and ten per cent wholly in money invested in them, were managed were paid large salaries, and for a time they fourished were paid large salaries, and for a time they fourished
like weeds. Those who put money in them generally lost it. They have been legislated out of existence Every live town and village in the co
a live building and loan association.

Sweet-corn Forage.-All who have read the Farm and Fireside during the past four or five years know how often I have advised farmers to plant sweet corn for green feed for young pigs and milk-cows when grass begins to fail about the first of August. There are rape, sorghum and several other forage-plants that have been highly recommended by some writers, but I have not yet seen anything that is quite equal to sweet
corn. Red clover is probably the best forage-plant and young pigs, but badly it is past its prime. If it is not pastured too badly it is past its prime. If it is not pastured too culent forage all through the season, but nineteen out of every twenty farmers will pasture it so closely that it is about done for by the first of August. Then is when a supply of sweet corn will be found very useful. forage during the hot summer weather they are apt to receive a check in growth that counts seriously against them when cool weather comes on and they should be ready for heavy grain feeding. An Iowa Farm and Fireside reader says that he seems to have a time to keep his young pigs straight, smooth and thrifty after they are weaned. He says they become lank and humped up like some fall pigs do in winter. He feed them a fair supply of corn, and they eat it fast enough,
but it seems to do them little good. Incidentally admits that he is a little short of pasture, and he thinks that probably a little more green stuff would be o benefit to them; but as he has none, he asks if I think it will pay him to purchase a lot of a certain stoc food to help out. The tests made by the lowa Exper one full feed for him. and better for and water with as much skim-milk as he has added to it. It should be mixed about an hour before being fed. This, with such pasturage as he has, will prob
ably keep his pigs straight. It would be well fo farmers to keep in mind that there is a saving in the cost of feed of fully thirty per cent when the pig has abundant pasture. Plenty of pasturage and about hal a feed of corn makes the cheapest young pork that can
be grown. If there is any probability of pasturage be coming short, a good supply of sweet corn should be grown. The late varieties are best for green for

TWeeds.-I am willing to grant that weeds on so far that they compel us to give tillage to a crop, and the stirring of a naturally compact
soil is essential to most culti-
soil is essential to most culti-
vated crops. The ground must be stirred to admit air at times, and to hold moisture at other times, and just cultivation, just so far they do good. cu1tivation, just so far they do good.
We can admit even more in the
he soil needs a covering, and it needsor of weeds. The soil needs a covering, and it needs humus, and good plants is benefited by its ability to cover itself with a good stand of poorer plants-poorer in their power to enrich land, but valuable because any rotting vegetable enriches.
But in the case of a man who is willing to cultivate when land needs stirring, and who is willing to sow good seed in a good seed-bed when land needs a
sod, weeds become a nuisance of a pronounced type. sod, weeds become a nuisance of a pronounced the cause they can hardly be controlled at all. In the
fight for existence in this world these varieties have fight for existence in this world these varieties have
proved to be so hardy and strenuous that no other proved to be so. hardy and strenuous that no other
vegetation can crowd them out on even ternis, and then only in particular sections where the conditions favor them peculiarly; but in those sections they are a terror tow only what he wants to grow. Outside these sections they become less formidable, and may not be able to maintain any existence at all. Hence we have those of one section may be entirely harmless when introduced into another district.

Learning the Habits of Weeds.- I do not care to know the habits of weeds that do not trouble me any more than I care to know the habits of undesirable
strangers among humans. But the few varieties of strangers among humans. But the few varieties of
weeds that are distinctly troublesome and costly in one's weeds that are distinctly troublesome and costly in one's
farming should be known thoroughly. It is stupprising that so many farmers with years of experience in except that they are a great pest. We cannot fight a weed intelligently unless we know how it is propagated, when it begins growth, when it dies naturally, how its seed is transported, if it bears seed, and when it is least able to resist blows. Most of our worst weeds are very resistant, and that is what puts them are bad because they make a crop of seed almost in spite of all practicable effort to prevent it.

The Annuals.-Most weeds, I presume, belong to
class that spring up from sced each year. The the class that spring up from sced each year. The
thajority of them make no permanent show, being majority of them make no permanent show, being
killed by the millions by the cultivator's when very tiny, or being crowded out by stronger plants. But a few varieties are exceedingly troublesome, growing with our summer crops after cultivation ceases, and forming
seed profusely. Some of the summer and fall grasses seed profusely. Some of the summer and fall grasses
are examples. The wild morning-glory-an annual are examples. The wild. morning-glory-an annual-
is another. In my bown experience the only possible is another. In my own experience
plan of extermination is a change of growth out, preceding the planting growh out, preceding the planting
of the late crop with some stirring of the soil to get the greater por-
tion of the weed-seed to the surface where it can germinate. Where no
plants are permitted to make seed, the annuals must give way.

Winter Annuais.-There is a class of biennial plants-those re-
quiring two seasons to come to maquiring two seasons to come to ma-
turity-that we call winter annuals. White-top, or daisy-fleabane, is an example. Here again extermination is possible by preventing seeding, make the fight. If the plants ar thick in the field the first summer or fall, we may count upon their pres ence the next summer. Taking the white-top for an example, we may break the ground the first fall or the next spring, or if the plants be few in a meadow we may cut them out;
but knowing the weed well, we learn to plan so that no seed will be per mitted to form, and then the trouble
will end unless the winds bring the will end unless ado wining land.
seed from the adjol

Perennial Weeds. - The truly
scouraging weeds, in my own exdiscouraging weeds, in my own ex-
perience, are those that grow year perience, are those that grow year
after year from the old root, and es-
pecially those that are propagated by underground stems or roots. Probabiy the horse-ncttle, the so-
called wild sweet-potato vine, which is one of the bindweeds, and the Virginia creeper are as good examples of the last-named class as any. When one cuts off the
top of a peremnial weed, knowing the root will remain top of a perennial weed, knowing the root will remain year after year to attempt to make its crop of seed, the outlook is not encouraging; but when its, nature
is such that the more we cut and mangle the roots, is such that the more we cut and mangle the roots,
the more plants will try to spring up from the sections of roots or underground stems, the prospect ahead of depends upon the particular variety, the soil, and the crops that can be profitably produced upon the land. My own experience in this direction has been more

The Use of the Plow.-For cultivated fields, two plowings at the right times and a good renovating crop
do a lot of good in fighting our worst weeds a mong do a lot of good in fighting our worst weeds among
perennials. Take the wild sweet-potato or the Virginia perennials. Take the wild sweet-potato or the Virginia
creeper (few weeds can be worse where these thrive). When they get a firm foothold, cultivation is made very

the parson at pasture
cmulation of his fellow tillers of the soil. He has rather put into practice the rational methods that have
suggested themselves to him as most likely to make suggested hemselves to him as most likely to make unique position as an object-lesson for more timid men to imitate or learn from in contradistinction to our great doctors of agricultural lore, who are working with public money, is that he has for the eye of all who care to see the concrete exposition of his theories, with pay Tlis pay. This aspect of the case should arrest the atten-
tion and command the admiration of our large class of strüggling farmers
It must not be supposed that because Mr. Detrich has Reverend before his name and has been in active charge of one congregation for over twenty-five years Not at all. It has rather been a preacher's profit, for in the days of his gratest agricultural needs there was
no sacerdotal surplus, and the very early necessity of making the farm pay even more than its own way may have been the inspiration of its more recent assured,
manifest success. ical man?
costly. If the ground is carefully broken during a drought, say in May, and is left untouched, so that the
moisture will escape, and then is broken during a later drought, after some new shoots begin to appear, great mass of the roots will be killed by lack of water Then, if millet or buck wheat be seeded tlickly a nearly complete victory is often secured with the first rain. drought is essential during and after each plowiving. But all farming-operations depend upon the weather.

Pasturing and Cutting.-Some of the bad weeds of a locality may be controlled by pasturing with sheep and hogs. As an instance we might again mention the ting during drought kills many persistent weeds, and ting during drought kills many persistent weeds, and
cutting at time of forming seed is especially hard upon a plant's vitality. The old belief in the virtue of certain a plant's vitality. The old belief in the virtue of certain
sigus of the moon during July or August for weed-extermination was due to the facts that many perennial weeds form seeds at these times and that droughts are apt to prevail in these months. The prevention of leaf growth whenever feasible must result in the death of the plant. Pasturing, cutting during drought; plowing during drought, and especially the crowding out o weeds with renovating crops and the formation of
heavy sods by free use of fertilizers and grass-seeds heavy sods by free use of fertilizers and grass-seeds, are some of the weapons that can be used effective
in fighting most of our persistent weeds. DAvid.

## A FIFTEEN-ACRE FARM

Sometime in the life of almost every man identified with American rural occupations comes the dream of broad acres-of owning more land. Without moralizing upon the influence this expansive desire may have
exercised in American agriculture, I desire to call attenton to in American agricuture, 1 desire to calloth tion to a conspicuous example of a farmer who has his energies, or perhaps more properly speaking, folhis energies, or perhaps more properly speaking, fol-
lowed logical developments, in producing large crops on a few acres. I have not said maximum crops, for to an intelligent student of what this farmer has already done it would appear he can yet do even more
The name of Rev. J. D. Detrich, of Flourtown, Pa., culture as that of the preacher-farmer who has grown up to the ability to continually keep thirty cows or their equivalent on fifteen acres. Mr. Detrich's agri-
cultural accomplishment is a triumph for the practical cultural accomplishment is a triumph for the practical
application of the fundamental scientific principles of husbandry over the general scoffing against the "book armer, and it has remained for him to teach the dairyman and the general farmer what they have failed to learn themselves or have tanght them-thers
done his work with any thought in his mind that he should thus be held up as a "captain of agriculture" for the edification and There are no earmarks of the
place. There is nothing thas the plainest farmer does not already have in the way of operating equipment, and fertility. The accompanying photograph, fait and fertility. The accompanying photograph of
clover-and-timothy field, with the owner over kneedeep, was taken in April, r903, when the less fortunate more extensive Eastern farmers were crying "We shall
have no hay!" The little Flourtown farm does not depend upon current rainfall for moisture for its crop which grow rain or shine and have "all seasons for their own.
The place has become a shrine for farming pilgrims.
National officials, grave doctors and professors, editors, investigators, dude farmers and droves of the plain class seeking a wherefore go to see what one man has done-without state aid, too. Some, I know, go
scoff, but all remain to praise. W. F. McSparran.

## STARTING AND PRESERVING -THE NEW SEED

The grass crop is the farmer's mainstay and sheetanchor, whatever the nature of his products, unles when inverted depends not only the desirable, mechanical condition of the soil, but largely its life, humus and fertility as well. If the catch and maintenance of the seeding is a success for one year even, there is somedestroy to build upon should the season or accident when the new seed fails to make a successful catch it is a disaster that many farmers do not fully appreciate in its effects upon subsequent efforts.
The most important factor toward the success of
the future new grass crop must be provided for before the seed itself reaches the soil; namely, tillage. Cor rect and sufficient tillage should be the watchword of important than in the preparation for the sed hed important than in the preparation for the seed-bed o
the grass crop. To insure the chances of the seed-catch as fully as possible, the care of the soil for at least a year previous should be kept in view while preparing for and raising the previous crop. To be explicit, the drainage should be such as to allow of no water standing nearer to the surface than from fifteen to eighteen inches under normal conditions. The pre ceding crop, preferably one requiring careful and repeated cultivation, should be supplied with sufficient well-adapted manure or other fertilizer, so that the soil will not be unduly impoverished, the last atoms of available plant-food being sucked out to mature the crop. The new seed does not require very large
quantities of soil-nutrients during its first summer, growth, but they must be well digested and available fromithe start, and within easy reach of the first delicat rootlet-leeders, No pains shoutc be spared in fitting the seed-bed
make it practically possible for all the myriads of young grass-plants required to get a perfect stand a young grass-plants required to get a perfect stand a
chance for easy germination and growth. Clods, stones and sods will often be pushed aside ing plants, but the delicate grasses and clovers will invariably give up condtriggle amid such unfavorable The last and most important con-
sideration in the soil-preparation except that of the surface layer to
form the seed-bed, is a deep and uniform layer of well mixed and compacted soil, by which to estab-
lish the very necessary capillary lish the very necessary capillary
connection between the subsoil stoo of moisture and the finely pulverized seed-bed surface.
a foster-crop with the new is that an advantage if intelligently selected fully in mind the it should be kep there merely for a protection, not a a robber to choke and smother the struggling grass-plants, and when cut away to leave them to blast
and wither away under the fierce rays of a midsummer sun.

WHICH IS THE ECONOMICAL FARMER? Two farmers living close to me make professions to being economfor good farmers, and I have won titled to the palm for having given the word "economy" the best interpretation. Shall I givc the readers of FARM AND FIRESIDE some points
int me methods of these men, o that they may be able
to determine for themselves which is the most to determine for themselves which is the most econom
I find there is something of a contrast here when I come to study the matter thus closely. One man provcments, including houses, barns and outtuildings,
To my certain knowledge a good share of his from the farm has been invested in just this very way. Then, this man has given his children a good ters have married farmcrs, and a third son lives on the home place and helps his father. Yout will find
books and papers on the table of this man. He is
respected everywhere, and has purposes.
Now the other man lhas done some of these things, too. He has all needed machinery, and his farm always looks thrity. He has not, however, spent much for
the education of his boys and girls. He thinks that
[CONCLUDED ON PAGE

## Gardening

by т. GREINER

THE WELSH ONTON is a winter onion said to be
equal in hardiness to the Egyptian, or Tree, onion; but it is grown from black seed, not from top sets like the latter.

Bird-proof Berries.-Notwithstanding a serious attack of greenfly, Wilder currants have given a moderate amount of fruit of the usual superior size and
quality. It is one of the fruits, however, the possession quality. It is one of the fruits, however, the possession
of which is not disputed by the birds. Another fruit which we can grow without having to fight with the Which we can grow without having to fight with the
birds for its possession is the gooseberry. These two
Currants and Gooseberries Profitable.-The
CURrants and Gooseberries Profitable.-The most light, crop. The gooseberries, especially the
Columbus, were well loaded with fruit, most of the bushes indeed as fully as I ever had them. To see those large bushes bent to the ground under their loads of mammoth berries is really a sight, and both fruits
are found to be very profitable here, at least to the are found to be very profitable here, at least to the
extent of finding local sale for them. My small surplus (above the house demand) always goes like hot
cakes, and I could find ready sale for a number of cakes, and I could find ready sale for a number of
times the quantity of both currants and gooseberries times the quantity of both currants and gooseberries
that I have to dispose of right among neighbors, and that I have to dispose of right among neighbors, and
without having to hunt for buyers. This is also the case with raspberries and some other fruits. All these
fruits can be grown in this vicinity, and sold with profit.

Keeping Ar Ir.-At this time we are very apt to get careless, so far as our garden-work is concerned.
The early crops are cleared off, weeds are taking the The early crops are cleared off, weeds are taking the
places left vacant, and they grow at a rapid rate.
The sun shines hot. The soil is often dry and So we let things drift, fearing to make extra efforts. My plan at this particular time is to spend from thirty minutes to an hour in the garden before breakfast or and to play "the man with the hoe," or spade, as the
case may be, and dig over the weedy spots, and again case may be, and dig over the weedy spots, and again
plant them to something-may this be lettuce, turnip, celery, winter radish, spinach, or any of a number of
other things that can yet be planted in the expectation other things that can yet be planted in the expectation
of getting something sometime. "Keep at it." That of getting something sometime. "Keep at it." That den, and a lot of satisfaction out of it.

Cabbage-maggor.-An Ohio reader asks for a remedy for the maggots which have ruined his early cab-
bages, radishes, and even onions. The early cabbages bages, radishes, and even onions. The early cabbages
can be kept free from maggots by the tarred-felt collar can be kept free from maggots by the tarred-felt collar
which I have occasionally mentioned in these columns. which I have occasionally mentioned in these columns.
How to keep the maggots from radishes and onions How to keep the maggots from radishes and onions
is as yet an unsolved problem. Some of our market-
gardeners scatter common salt freely over the rows gardeners scatter common salt freely over the rows
shortly after sowing the seed, and claim it gives radshortly after sowing the seed, and claim it gives radWill not help in every case. I sometimes use heavy a large proportion of impure salt. Sometimes fine and clean radishes; then again a lot will be almost fine and clean radishes; then again a lot will be almost
wholly ruined by maggots. So it is with turnips, also.
A sure cure for the maggot would be a blessing to A sure cure for the maggot would be a blessing to
mankind in general, and to the gardener in particular.

The SQuash-vine Borer.-P. R. C., of Springdale,
a., asks for a remedy for the small white worm which Pa., asks for a remedy for the small white worm which
inhabits the center of her pumpkin-vines, just at the
surface of the ground. This worm usually succeeds in surface of the ground. This worm usually succeeds in
killing the vine. It undoubtedly is the common squashvine borer, the larva of a little moth which deposits its eggs on the stem of the vine near the ground. It pumpkins, etc., but has a preference for squashes and
pumpkins. You should examine the plants frequently, pumpkins. You should examine the plants frequently, the sharp point of a knife. The application of tobacco-
dust in generous quantities has in my experience dust in generous quantities has in my experience ing its eggs on the treated plants. One of my old
ways of foiling the schemes of this pest is to cover the joints of running vines, especially winter squashes, it to issue roots at these places. Should the borer having roots of their own will live and bear fruit just
the same. It is about the only thing that could be the same. It is about the only thing that could be
done. I greatly doubt that the application of poisons
to the stem of the plant will have much effect in to the stem of the plant will have much effect in disparene in Bordeaux mixture may be tried.

Blanchivg Celery.-H. P., of Elmont, Kan., has grown some celery-plants, and started a patch, but
does not know how to blanch them. With rich soil does not know how to blanch them. With rich soil
in which to plant them, and in a wet season, it is as easy
to grow celery "as to roll off a log." My celery is
doing very nicely this year. I have planted it on doing very nicely this year. I have planted it on
very rich soil, and there have been frequent rains.
Anybody can grow celery-plants to good size under
such circumstances Anybody can grow celery-plants to good size under
such circumstances. The trick is to blanch it nicely;
but even this is really a simple matter. It is especially
easy if the variety selected was one of the so-called but even this is really a simple matter. It is especially
easy if the variety selected was one of the so-called
self-blanching kinds, like Golden Self-Blanching or
White Plume, the former being by far the best, alWhite Plume, the former being by far the best, al
though rather more dwarfish in growth. Procure a
few boards, no matter how old or ragged, say a foot few boards, no matter how old or ragged, say a foot
wide and of any length, and set them up on edge
slantingly along each side of the row of celery, inclosslantingly along each side of the row of celery, inclos-
ing the plants so that only the tips of the leaves sliow
above the upper edge of the boards. That is about all. above the upper edge of the boards. That is about all.
In from ten days to two weeks of good growing-
weather the plants will be blanched enough for use,
weather the plants will be blanched ellough for use,
that is, that portion of it which is wanted for fall o early winter use-may be blanched by earthing up. Pile the earth up against the row of plants from each
side, inclosing the plants with earth in about the same manner as done with boards for the early celery When blanching celery by means of boards, I usually
mulch the ground both sides of the row with coarse manure or other litter, and in a dry time I often pour water or liquid from the barn-yard upon this litter, giv-
ing the ground a good soaking. It helps wonderfully A NeIV Way of in Ohio this summer advertised a "new way of blanching celery. Full instructions sent on receipt of fifty cents. Just to discover what the scheme was, 1 for two-page circular, giving the following plan (patent applied for): "Take thin slabs of wood about the thickness of berry-basket stuff, about fourteen inches wide and eight or ten inches long. These can be secured from the basket-factory for a small sum. Then
dip these in linseed-oil, and set up to drain. This is only to make them more pliable and to prevent crack ing. Then take fine wire staples, and fasten a smal wire across each end, letting it extend over each side In one end of this, wire make a loop. This can be done at leisure times or on rainy days. Place the wooden slab upon the ground by the plant, standing with the grain of wood running up and down with the
plant, and having the wires upon the side away from plant, and having the wires upon the side away from
the plant. Now, by taking hold of the sides of the slab and bearing gently, you can curl the wooden slab slab and bearing gently, you can curl the wooden slab
around the plant. This forms a tube around the plant Slip the straight end of the wire thratigh the plant Slip the straight end of the wire thraugh the loop in
the other end, and bend back, fastening the slab. Now press slightly on the top of the tube, which excludes the air from the bottom. If on examination the celery shows signs of rot or rust, raise the wooden tube a In a short time the celery will be blanched clear and waxy and be of fine flavor." I give this substantially as I find it in the circular. The "originator" will charge you fifty cents for these directions and the right
to use the "new plan." I don't advise you to pay the to use the "new plan." I don't advise you to pay the
fifty cents. The device is not worth fifty cents. You an blanch celery just as easily by means of wrapping plece of cardboard, or even stiff paper, around the It is as effective, as easily, or better, a rubber band patent on it. And after all I prefer any plan of blanchng by means of boards. It is even simpler, and

## Fruit-Growing

by s. b. Green

RUNYERS From Strawberry-playts.-W. W.
Hoisington, Kan Hoisington, Kan. The best time to take the
runners off strawberry-plants for planting out is as soon as they liave madea good root-system in August, or in the spring after the plants have made void having them too of thinning the plants so as to should be removed as soon as a sufficient number have set, and in this case I think the rest should no be nearer together than six inches.

Time to Set Strawberry-beds.-E. C. E., Peru, Ind. The best time for setting outt a new bed of strawberries in your section is in midautumn if the soil is patch which you set out a year ago last spring did so poorly, but I think it must have been from some other cause than the season of the year. Plants that are set
in the autumn will often bear a small crop the next season. If the ground is moist it is a very excellen time to do the work, but if set in the autumn they
should be carefully mulched during winter. should be carefully mulched during winter
Scurfy Scale.-W. B. B., Kessler, Ohio. The apple twig which you sent is infested with the male orm only of an insect known as the scurfy scale. The female form is larger. This is not a difficult insect to emove. On the other hand, it should be destroyed, as doubt if it will pay you to attempt to destroy this scale during the growing-season, but the best thing would be for you to spray the tree early next winter with strong
fish-oil soap-suds. This will loosen the scales so they will fall off. A strong solution of muriate of potash is also good to apply in winter to destroy the scale.

Root-grafting Apples.-H. J. G., Modesto, Ind. Apples are very easy to root-graft, and there are many books that contain full directions for this process. "Amateur Fruit-Growing" contains full directions for fruit crops in the extreme North. I would be glad to give an account of this process in these columns, but it cramped for space to permit of the publication of such an article. As a rule apple-root grafts can be bought an article. As a rule apple-root grafts can be bough
so cheaply that it is better to buy them all made up than to attempt it on a small scale. The usual price for these is five dollars a thousand.

## Black-knot.-E. A. S., Lake City, Minn. The

 plum-tree branch which you sent on is infected with unusual to find it on our native plums, although it is common enough on the wild black cherry, and the plums of European origin. There is no good remedy diseased portions. I take it that owing to some peculiarity of the season the native plum is more susceptible the knot ofturs on large limbs that cannot well be removed, a treatment that is. generally satisfactory is to remove the knot and then paint the wound thoroughly with thick Bordeaux mixture.Apple-Trees Dying Back.-G. W. D., Hubbard, orous growth on your apple-trees, and then having
then die back in the winter, is not an unusual one I do not know what causes it, but where trees make a in the growth, and especially where they grow late winter even in favorable climates. The wood that you sent on does not seem to have any special disease, and that if the trees do not make a late autumn growth this year you will have no further trouble. I have where the apple thrives wonderfully well.
whind

Mahaleb Srock.-F. W., Greenville, S. C.' The little purple cherry from the tree that had the small,
roundish leaves is from what is known as Mahalebcherry stock. This plant is a native of Europe and Asia Minor. The fruit of it is of no value, but the
plants are used as stocks for the cultivated varieties of plants are used as stocks for the cultivated varieties of
sour cherries. You were probably sent one of these stocks instead of a grafted tree by mistake. I doub if it is worth while for you to attempt to graft or bud anew with a correctly named variety. Such a mistake as this may happen in any nursery when they are crowded with work, as in the shipping-season, but any suitable one free of charge if requested

Roses not Opening.-B. M., Millersville, Md. Some varieties of roses are quite liable to fail to open unfavorable conditions-as, for instance, where the ground is a little too moist, or if shaded and there is not a good circulation of air. Roses are also injured and sometimes prevented from opening by the work of a snout-beetle that cuts off the petals. In numerous proved the conditions surrounding the roses are im favorable location, the trouble disappears; or the trouble may be only a temporary one, due to peculia local conditions. If due to the presence of the snout beetle you will find them on the bushes if you look sharp for them, and a little attention paid to gather-
ing and destroying them will overcome the difficulty

Treating Locust-seed.-A. M. S., Harrison, Tenn The best way to start black-locust seed is to place water that is near the boiling-point, and allow it to stand until cool, when some of the seed will be found to be swollen. Such seed should be taken out, and the rest treated in the same way until swollen. Seed
thus treated will germinate quickly when sown, while that which is not treated will frequently be several years in starting. This treatment should be given just before sowing the seed. If your hillside is washing
badly, so that your seed would likely be all washed out, I am inclined to think the best way of treating it is to sow your locusts in good soil that is not likely to wash, and then transplant them on your hillside when
they are one year old, where they can be protected
without difficulty without difficulty and would soon prevent washing.

Time to Get Nursery Stock.-F. W. B., Evanston Wyo. In your case I think that if the ground was whish I could "heel in" the plants, that I would prefer to get nursery stock in the autumn to taking my chances on their arriving in good condition in the esota nurseryman to hold this stock back, and ship it to you in good condition late in the spring, yet
under ordinary conditions of the nursery business it would be quite difficult to do so, and you could hardl expect it to be done in a satisfactory way. The impor tant thing in heeling in is to get the earth mixed well among the roots and perfectly solid, without air-spaces, and then to have it well wet down. After this is done,
the plants should be covered, tops and all, with earth the plants should be covered, tops and all, with earth no need of extra protection for the tops. I like to get my stock in autumn, because then I know what to my stock in autumn, because then 1 know whepend on in the spring. Where nursery stock shipped a long distance, as would be necessary in ship ping from the East to you, there are apt to be so many delays that it will often arrive in-poor condition, while in a paper-lined box, it ought to arrive in good condition. The whole matter hinges on wh
you are able to "heel in" the stock well.

Sudduth Pear-Iron for Trees.-J. T. B., Wichita, Kan. The Sudduth pear has not been proven a great success by those who have grown it thus far
In the last report of the Iowa Horticultural Society ar the statements of a number of parties who have grown
this variety, and I have yet to find one who believe this variety, and I have yet to find one who believe it any great addition to our list of cultivated varieties The secretary of the Iowa Horticultural Society and
Prof. A. T. Irwin of the Iowa Agricultural College Prof. A. 1. Irwin of the Iowa Agricultural College Burkitt I think the tree is very healthy but there is Burkitt. I think the tree is very healthy, but there is
no variety of pear that can be said to be entirely free no variety of pear that can be said to be entirely free
from blight. It is all right to experiment with new varieties, but I could not recommend your planting many of this kind. There was a time when it was supposed that scrap iron was of some value as a fertilizer to trees, but the best authorities now agree that it is of but little if any benefit under ordinary conditions. All our soils contain a sufficient amount of iron to more than supply the very small amount which trees use. The driving of nails into tree-trunks, or the boring of holes in them and filling with sulphur or other material, to prevent blight, or to assist the tree in overcoming insect diseases, or to make it more
fruitful, is a humbug that no intelligent pear-grower will give thought for one moment; yet a few years treated city for sulphur believing that this treatment would ward off insect and fungous injuries. But this simply shows how unintelligent are some people who occasionally get into prominent positions.

GBIRDS
ENERAL-PUR-
POSE fowls pOSE fowls
are not now demand. It is an "nferior fowl that is particular respect. The farmer who no ires a bird for eggs or market can tak his choice. He can selcet from the breeds the kind he wants, and can satisfy his demands among all classes of fowls for whatever he may prefer.

## BUYING IN THE FALL

The cheapest mode to begin with pure breeds is to buy a fcw fowls in the fall, as prices are then usually very low, and have them on hand ready for operations in the spring, as a trio of fowls will lay
three or four hundred eggs, and a year's three or four hundred eggs, and a years
time will be gained as compared with buying eggs in the spring. The yards of breeders are now full, and they will thin good investment to buy now.

## LIGHT AND COMFORT

Whitewash the poultry-house inside, so as to make the interior light and cheerful. Poultry have a repugnance to
dark quarters, and will remain outside, exposcd to storms, in preference to resorting during the day to a dark and uncomfortable poultry-house. Ducks must be kept in a house which has a board
floor covered with straw. They are not good layers at this season, as they usually begin to lay early in the year.

## CHOLERA AND INDIGESTION

Cholera is a disease that acts quickly, for in two or three days all the fowls are to stick to the fock, like roup. There is no sure cure for cholera. The best rem-
edy is a teaspoonful of carbolic acid in) edy is a teaspoonful of carbolic acid in
half a gallon of water, placed where the half a gallon of water, placed where the
fowls can drink at will. A great many persons inquire for a remedy for cholera without knowing what disease may be in the flock. When they state that they have cholera in the flock, and "cannot get rid of it, they give the best evidence
that there is no cholera, for it rids itself

## Poultry-Raising

By P. H. JACOBS
lessened. The cost
always regulates the profits. Do not discard all the old hens to make room for pullets. The tried
hen is always prefhen is always pret-
erable to the untried
and thus "kill two birds with one stone," using the hay for their stock (even if only for bedding), and feeding the seed to
their chicks. It is not too late to sow it. BREEDS OF GEESE The breeds of gecse that give the best results are not always the larger kinds.
While the Toulouse and Embden geese While the Toulouse and Embden geese may grow to a large size, and produce
heavier carcasses and more feathers than heavier carcasses and more feathers than those which are smaller, yet such breeds
as the Brown China or White China will as the Brown China or White China will lay more eggs than the larger breeds, and
being more active will forage for thembeling more active will forage for them-
selver therefore be kept at a less expense. The profit in gecse does not depend upon the size, but upon the cost; and as geese do not bring prices in market equivalent to their true value, the breeds that can obtain their food without feed from the time they are hatched until matured will be found to be the most profitable.

## THE SMALL BREEDS

Leghorns, Hamburgs and some of the small breeds are usually considered to as readily as any other fowls. They an be taught to come at a call, and even eat from the hand. but they must be treated exceptionally kind from the time they exceptionally kind from the time they emerge from the shell until they are well
tamed. They should never be frightened, chased around the yards or made to have any cause for alarm. There is nothing prettier than a flock of gentle birds. Some are more easily tamed than others, but no fowls will become tame if not treated kindly and made familiar with one or two particular people, cspecially
the ones who feed them. That is the best the ones who feed them. That is the best
way of taming a fowl-at feeding-time.

## CONFINED POULTRY

The dust-bath is something that canHave shallow box filled with hennery or ashes, put it in a dry place (in the sun
pullet. A hen in her second or third year is not old, and many are then at their best. Hens produce more vigorous broilers than pullets; and hens tivo or three yea old produce strong, hardy clickens. pullet is uncertain until she begins lay. Sometimes the largest and most beautiful are almost worthless as eggproducers. Early hatched pullets, ever, should be retained in preference fat and lazy hens. Market all fowls pos-
sessing decided faults, remembering that defects increase with age. Dispose of all quarrelsome cocks and feather-eating or egg-eating fowls, as they will be sure to egg-eating fowls, as they will be sure
have some imitators if they are kept.

## INQUIRIES ANSWERED

Sudden Deatirs.-Mrs. H. W. H., Fullerton, Cal., writes that "she has sud-
denly lost five half-grown birds from ome cause," five half-grown birds details, it is impossible to ascribe a cause, which may be poison.
Lame Cockerel.-J. N. M., Lind, Wash., "has a valuable cockerel which has become lame. No method of management is mentioned." It is probable
that the roost is high and the bird fat and heavy, which caused the lameness. $H_{\text {., }}$ Fallis, Ky., requests "a remedy for what she terms 'young'-chicken cholera." Cholera affects all ages alike. It is probable that the chicks are improperly fed, or consume some substance which causes bowel-disease.
Wormwood for Poultry.-T. E. S Rushville, Ohio, asks "how to use wormwood for poultry, as he has planted the seed upon recommendation of some one." In reply it may be stated that wormwood whatever for poultry.
Chicks Blind.-B. A. P., Providence, Ky., desires "remedy for blindness in chicks. The dimenty may be due drafts of air at night, or perhaps to
on the heads, but it is impossible to on the heads, but it is impossible to give

THE BREAK DOWN
 Electric Metal Wheels.
 = 5x zuquax

 lowue on Electric Wheels an
Handy Wagons. ELECTRIC WHEEL CO

THISTLE-INE


thorough spraying with "This
ine"" settles it. Guaranteed.
 he lindgren chemical co.
shine if possible), and see how the fowls will enjoy it. If it sliould get fouled in any way, remove it, and supply fresh
dirt, as they will shun it if polluted. dirt, as they will shun it if polluted.
When young poultry are allowed to contract the habit of roosting in the trees no time should be lost in breaking them of it. Confine them to the poultry house and yard, as a day or two will generally effect a cure. Get your dust-baths ready. Sand and finely sifted coal-ashes, with a pound of sulphar to every bushel of the mixture, is the best. This should be put
in large boxes, and kept out of the rain. Whitewash the houses, putting in a gill of carbolic acid and a pint of common KEEP THE HENS
If old hens give a profit, keep them. The rule should be to sell off everything so doing the expenses will be materially
no information as to the methods he employed in the management of the chicks.
Lice on Ciricks.-J. B. R., Mutton Run, W. Va., "has some little chicks which stand with their wings drooping. not improve since he changed their food." It may be stated that the large liead-lice are at fault. Anoint the lieads with a little melted lard, and dust the bodies carefully with insect-powder. advertised lice-killers are excellent.
Limber-NECK.-A. M. S., Harriso LIMBER-NECK.-A. M. S., Harrison, Tenn., desires "a cure for limber-neck,
some of the fowls living two or three days, and some only a few hours.", The writer should have given method of
management. The difficulty is usually management. The difficulty is usually due to the eating of putrid meat, or the maggots from carcasses. Molasses in thing to do is to prevent the birds from


PARE Oine Apples

Hand or power. Write for Booklet

TREES $=$
TREES 5as ow
TREES 5as ow
TREES 5as ow
TREES 5as ow


GOOD CIDE
 $1 \pi^{6}$ Hydraulic Cider Press $\sim \mathrm{L}$,


 ${ }^{\text {ruc }}$ Auto $=$ Sparker







BUGGIES of thess goods. The best medium grade of work on the market.
DEATH to LICE in hens \& chickens. b-p. Book Free.
D. J. Lamberl, Box 303 ,Apponauz, R.I.
in a few days. The symptoms are great ion, intense thirst, and profuse diarrhe of greenish color. Most of the suppose the result of excessive feeding. Cholera is really a very rare disease.

GROWING MILLET-SEED
Late chicks can be raised at but little as they tis season if kept clear ood they wish. cutter will be found useful. The chick will bring good prices if sold before they weigh three pounds each. One of first portion of their lives, is millet-s et is well known, and the yield from an also progressive poulterers should sow n acre or two with millet, thresh out the

## DUNCAN CLARKE

Champion of Michigan

## A"Money King" Among Boys

HIS a "Captain of Industry" - a little "Money-King" among his playmates. In controlling trade he is as shrewd as the money-kings of the "grown-ups." And his profits are in proportion. Over $\$ 50.00$ in Prize Money alone from The Saturday Evening Post within three months is his record.

He began by making a clean sweep of his block, getting everybody possible to sign an order directing him to deliver for four successive weeks. Street by street he canvassed $\varphi$ his part of town with such success that all his boy friends were excited about it, and wrote to us clamoring to be agents. But Master Duncan had thought this problem all out for himself long before. He figured that we would not be apt to take chances on new boys to compete against him, if he could sell at the rate of 50 copies a week. So he wrote us a letter, requesting control of the whole town - knew he "could sell unassisted all the copies the people would buy" - wanted us to refuse all other boys; said he could "beat all of them put together, anyway," and wound up by inclosing a cash deposit to pay in advance for fifty copies a week for several months, just to show that he "meant business.

We complied with his request to refuse to sell to the other boys. Since then he has sold an average of 100 copies a week for almost a year. His town, lying in the copper country of the upper peninsula of Michigan, has been built four years and has just 750 inhabitants, and he is ten years old.

##  free, twenty-five out of more

tell in their own way just how they have made a success of selling THE SATURDAY EVENING POST. Pictures of the boys - letters telling how they built up a paying business outside of school hours - interesting stories of real business tact.
Some of these boys are making $\$ 10$ to $\$ 15$ a week. You can do the same. NO MONEY REQUIRED TO START. We will furnish ten copies the first week free of charge, to be sold at five cents a copy. You can then send us the wholesale price for as many as you find you can sell the next week. IF YOU WILL TRY IT WE WILL SEND THE COPIES AND EVERYTHING NECESSARY.

$\$ 225$<br>in Extra Cash Prizes<br>will be distributed Nex more copies weekly.

The Curtis Publishing Company, Boy Depariment, 526 Arch St., Philadelphia, Da.



Live Stock and Dairy

## DAIRY FEEDS

Time most carefully conducted experiments in feeding dairy-cows seem to prove conclusively that where palatability and digestibility are not materially out of proportion in two feeds, that such feeds, if they contain practically the same elements of nutrition, are interchangeable in feeding operations. Palatabilty or a lood lor the inf After cow must never be lost sigh in considering the cow's ration, the most in considerig the ing sablom, is to cure the food-elements in their best and cheapest form.
There are some foods, however, the cannot be compared with any other food Certainly all foods must have class comparison if they are to be compared. It therefore follows that digestible protein in silage cannot be compared with diges tible protein in oats or clover hay, for united with the slage-protein is silagesucculence, which possibly, I think prob ably, is quite as valuable as if it were real food-element. one has yet told us.
But assuming that the individual cow is fond alike of gluten feed, wheat bran and ground oats, it has, as I have said ducted experiments that protein for in stance may be supplied from whicheve of these feeds will be found to furnish it most economically, Yet one of the most prolific and exhaustive contributors to the agricultural press, standing ready to meet all questioners, insists in seaso and out of season that we shall always have oats in the dairy ration.
A few years ago the best dairy journa in the world had as its veterinary ad viser a learned doctor who maintained as strenuously as the oats man maintain his plea that we should not feed cottonseed meal to cows because of abortiv properties that were extracted from the must we fed silage-I have forgotten now must we fed silage-1 have frgotlen no the land successful and scientific doitymen have been using silace for bulk and cotton-seed meal for concentration for years. So this other authority is forever in sisting that we must have oats in the dairy bill of fare. I grant that oats is a most superior feed, that it is grown a home, that all animals like it, that it ha a tonic effect, and all that. So, also with corn, and early cut, properly cure clover hay. The dairyman who has good corn silage, mixed hay, corn-meal and wheat bran, and desires to increase the protein in his ration, and shall do it by adding oat-meal at about twenty-six dol lars a ton, when he could secure the same amount of protein in glutenteed a meal or gluten-meal at one half the cost, meal or gluten-meal at one halif the cost management.
Simply because one produces a crop to therefore use it regardless of how much more profitably the crop can be sold and a substitute be bought, is much on a par with my neighbor who believed in home consumption so thoroughly that he used a three-hundred-dollar driving horse raised on the farm for plowing and other heavy work, when a "plug" of heavy horse would have done more work and could have been bought for half the money the other could have been sold for had limited experience in the purchase feeds to confine himself to those feeds of feeds to confine himself to those feeds dependable, on account of the good te sults dairymen of wider experience ma have secured from them, and to stee clear of those high-priced, condimental unknowable mixtures and compound that are on paper productive of such ma velous results.

THE SCIENCE OF THE DAIRY-COW Most farmers of this country realiz most painfully that they are not getting from their lands the crops they should and such as they did a quarter of a century ago. The learned gentlemen whose pleasing duty it is to go about the country speaking at farmers' institutes, and who write so wisely, tell us that what
we need in our soils is more potash, more nitrogen, more phosphoric acid. Supply nitrogen, more phosphoric acid.
these missing elements, they say, and we will undoubtedly get back to our oldtime crops.
This sounds wondrously profound to the man of the ordinary intellect. He reads and wonders. What wisdom
here! What depth of knowledge so above us common folks! But after a it means nothing to him. He simp knows what he knew before-thit
farm is becoming becoming corrc
spondingly lighter and his pocket book thinner. But he care about the
learned discussions
learned discussion
about nitrogen, potash and phosphoric with the long purse and the profound with the long purse and the profound armers are not yet up to the point appeal to us very strongly. What we want, and what we must have, In our dilemma to up our farms.
In-the plain, She has little scientific knowledge. She is too busy to think of the sounding terms with which her owners speak when they discuss the lacking elements of the soil, but she keeps on doing her part in her
narrow sphere to bring back fertility to narrow sphere to bring back fertility to she has it in her power to do this if we
will but lend her a helping liand. Taking everything into consideration,
dairy-cow of the United States has more taring wis in the face to-day than any one else in the world. What the manufacturers of commercial fertilizers canow can accomplish.
Barn-yard fertilizer is just as near a perfect fertilizer as the ordinary farmer
will ever find. It contains all the elements necessary to restore the fertility that we have been carting away by the on in the form of wheat and corn all of the rest of them.
This implies that the farmer has fed other feed grown there. It means that he has taken due pains to keep out the eed-seed and to have the manure wcll the liquid part of the droppings from his stables, and that he does not allow them to go to waste, but applies them faithully year after year to his land.
Far requires a strong man to do this. Far too many of us yield to the temptahay and grain on the market. That is what thousands of farmers have been doing for a long time. That is why our is why we will need a radical change in the manner of our farming methods. But allow the scientific principles of the dairy-cow to prevail? It seems so to

## RABIES, OR HYDROPHOBIA

Rabies, commonly called hydrophobia, has been unusually common among cat-
tle in Kansas, at least seven outbreaks having been reported during the past quently during hot weather, as is very
generally believed, the greatest losses occurring during the fall and spring, but it may occur at any season of the year. The disease seems to appear periodically, some years no outbreaks being reported, and other years the Rabies is frequent and severe.
Rabies is a disease of the nervous
ystem that is transmitted from, one animal to another by drom. one tion thro another by direct inoculafrom a rabid animal. It is possible that food or water contaminated by an animal affected with rabies may infect digestive tract, or the infected saliva being deposited upon an open wound of irritated mucous membrane may The
The disease, as observed during the cept in one instance, where two horses died. The loss among cattle has varied from five to twenty-seven head. In one herd of sixteen head eleven died
from rabies. In four out of the seven outbreaks reported, a dog supposed to be rabid
was known to have bitten or been was known to have bitten or been after the animals are bitten, and among cattle they may continue to develop the
disease for from eight to ten weeks after the first case occurs.
The symptoms vary considerably even
among cattle. The affected animal becomes nervous and excited, in many cases vicious, attacking persons and
smaller animals particularly. In some instances they will dash at a person, but suddenly stop a few feet away. There
is a peculiar wild or vacant stare. Affected cattle will often push and maul
other animals in the herd, and there is a other animals in the herd, and there is a
tendency to lick the genital organs of other cattle. As the disease progresses they become more excited, and will very
often emit a hoarse bellow frequently or almost continuously. In many cases there is often violent straining, as if
to pass dung, the rectum often being

Live Stock and Dairy

a couple of
in the Platte
ley in centra
braska. We saw
hogs there that had
everted. Paralysis often occurs, and is falta pasture and one pound and later the hind a waing, uncertain gait, the animal is unable to rise. In a few In all cases animals will eat and drink water until paralysis of the throat makes it difficult or impossible. There is frequent shaking and swinging of the head
and opening of the jaws, with dripping and opening of the jaws, with dripping
of a ropy or frothy saliva from the mouth. There is a tendency for rabid Post-mortem examination
Post-morens of disease, although the body signs of disease, although the body is ontains dirt and other foreign material. There is no treatment for rabid ananimals should be isolated, or destroyed at once to put them out of misery and to
prevent possible infection of others. prevent possible infection
Water-tanks and mangers should be
emptied and thoroughly-disinfected by emptied and thoroughly -disinfected by
using a strong solution of concentrated using a strong solution of concentrated
lye or a five-per-cent solution of carbolic lye or a five-per-cent solution of carbolic
acid. Food that is contaminated with saliva should be burned. Suspected dogs ercise be destroyed. Persons should exten or infected through wounds on the ten or infected through wounds on the - N. S. Mayo, in Bulletin No. I 27 of the

THE TROUBLE WITH OUR HOGS
At the meeting of the Iowa Swine-
Breeders' Association held at Des Moines Breeders' Association held at Des Moines
in June the discussion on alfalfa and other pasture for hogs was the most interesting of the session. The swine-
breeder of the corn belt is finally coming breeder of the corn belt is finally coming
to realize the danger of the all-corn to realize the danger of the all-corn About fifteen years ago, at a meeting of this same association, some one ventured the opinion that a steady corn diet was
not best for hogs or any other animal. An experienced breeder replied by saying that corn was made for hogs, and the only trouble with most farmers and breeders was that their logs did not get
enough of it. The nodding heads around enough of it. The nodding heads around
the room indicated that he had voiced the the room indicated that he had voiced the
sentiment of most of the members. A good many brecders have had reason to
change their views since that time change their views since that time. One or two short corn crops and consequent feeds, have had something to do with it. Smaller litters, clearly impaired vitality, diseases which sweep away half the herd

of pigs in a fcw days or weeks, havc set sometimes broken in the act of chewing thoughtful breeders to wondering if ther is not something radically wrong with
their methods of breeding and feeding. Is it not possible that we àre beginning to reap the harvest of years of a clcar
corn diet in a dry lot? Has our treat ment of the hog, which has shortened his nose and legs, decreased the size of his made him constitutionally weak and an made him constitutionally weak and an When corn was cli
high the main use of the hog was to market the corn, and thus condense freight. Corn is not as cheap as it was, an era of low prices. Higher-priced grain is alone sufficient reason for changing our methods of raising hogs. The
successful swine-breeder of the future

## a day per head.

 perhaps, as the hog pretty to look atthrify fol perhaps, as the hog pushed on grain
from the start, but good "doers." Hogs grown in this way up to six or eight
months of age, and then finished by a short, heavy corn feed, will not only make much more economical gains, bu will be healthier and more prolific. Not
every farmer can grow alfalfa, although every farmer can grow alralfa, although last two or three years shows that it can
be grown in many parts of the corn belt possible. Throughout the corn country however, clover can be grown to perfecto alfalfa as hog-pasture. This, with a patch of rape to furnish variety, ought
to be on every farm where hogs are

WINTERING BROOD-SOWS ON ALFALFÁ HAY Brother Wallace of the "Farmer" advises siloing alfalfa on which to winter brood-sows. Last fall the senior editor of the "Dairyman" commenced feeding drink. This was continued all winter the sows keeping in fine condition. These nine sows had seventy-eight pigs, with only one "titman" in the lot, and we have present time. We never had sows yield milk so abundantly, and never raised a lot of pigs which showed so much vigor ing did not exceed one dollar and fifty cents for each animal. They did not re wintering period. There is nothing finer for the production of strong, active pigs
than alfalfa hay.-Hoard's Dairyman.

LUMPY•JAW
This disease more often affects cattle than other animals. It is due to a funactinomycosis. The fungus occurs upon grass and other vegetation, and it is only when it becomes introduced into the tissues that it causes trouble. The disease and is not contagious in the usual sense of the word. Several animals may become affected while on the same pasture, but this is due to all being exposed alike
Some years the number of cases is greater Some years the number of cases is greater
than others, owing to the greater dethan others, owing to the greater departs, due to the fact that the tissues are The disease is comparatively casy
treat. A dram of iodide of potash given twice a day for from two weeks to
twenty days. For cattle weighing twelve hundred pounds or more the dose
camewhat increased, and lesscned for
calves. If pus is present in the lump
it should be let out by incision. In a fcw it should be let out by incision. In a fcw refractory cases a second period of treat
ment may be required after resting for ten days. About eighty per cent of coveries. About eighty pe pexpected.
imals should be kept away from the healthy and off the pasture-field. In the case of milk-cows the milk should not be used. The state does not pay for such Bitting, in Bulletin of the Purdue Unive

SHARPLES TUBULAR CREAM



It is the old reliable remedy for Sparios, Ringbones, Splines



Cure Them

Spavin Curb Splint Sweeny


HEAVES CAN BE CURED
 THE LADIES' HOME JOURNAL FREE

CORN
 ABORTION Ratanino or paontat 10 CORN FARMS

Quick, Convenient Corn Cutting
Scientific Corn Harvester
 THEFOOS MANUFACTURING






Min ine
 Mix

## Agents for any

ittle time once a month ; sewing-machine agents, ax-collectors, book-agents, nursery-stock solicitors can double their business. Instructions and outfit cost you nothing. We only want a reply
from you that you are a hustler, and we will da from you that you are a hustler, and we will do
the rest. Write us at once. Circulation Dept. the rest. Write us at once. Circulation Dept.
Woman's Home Companion, Springfield, 0 .

## The Western College for Women <br> OXFORD, OHIO

## Delightful location in the beautiful Miami Valley of southwestern Ohio, one hour from Cin

 cinnati, on Monon and Vandalia Express routes. Full classical courses and many electives aperior advantages in Art, Piano, Voice and Violin. Campus of sixty-five acres. Specialattention to physical culture. Forty-ninth year begins Sept. 9, 1903. Number limited to 200 .
Where shall you educate your daugh-
ter? Shall she go a thousand miles from
er? Shall she go a thousand miles from
home and spend a thousand dollars a year or may she find a college offigg equa half the cost ?
Shall she choose a college of a thousand students, or one where the number is lim
ited in order that each young woman ited in order that each young woman may members of the Faculty?
Shall she go to some Conservatory of Music which does not offer general culture,
or shall music become part of a complete or shall music become patrical education?

## The Western College offers:



1. A four-years' Classical course for the B.A. de
healthful location, a beautiful campus, com modious buildings, scientific physical training,
with golf, lawn-tennis and basket-ball for 3. A standard equal to that of the be

Terms, $\$ 300.00$ a year, with

LEILA S. MCKEE, Ph.D., President

## Repeating Air-Rifle Free

## SHOOTS 300 TIMES WITH ONE LOADING

A TRUE SHOOTER THE IDEAL GUN FOR BOYS

 … ㄴ․․


## The Grange <br> ${ }_{B y}$ MRS. MARY E. LEE

ANNUAL REUNION OF THE PATRONS OF HUSBANDRY
COMMUNICATION FROM THE MASTER OHIO State grange
"Another year has passed away,
and the thirty thousand Patrons of Ohio and the thirty thousand Patrons of Ohio is rapidly approaching when we shal
be gathering in Columbus to hold our annual reunion upon the State FairGrounds. This yearly reunion has become the fixed policy of the order in
Ohio. and arrangements are already completed to make this occasion. September 2 and 3. I903, of unusual pleasure and interest.
The hard-working farmer and his family are entitled to at least one outing an-
nually. The year promises to be one of great prosperity, and we shall experience a generotis share. Let us, begin now to
lay aside our "pin-money" and arrange for the trip. Every indication points to
find an increase in our membership in Ohio between April Ist and September 2d, of
two thousand. These new members will have never joined in our glad reunions;
many of them have never seen our great
State Exposition.
Among the many pleasant, as well as the presence of Hon. E. B. Norris, Mas-
ter of the New York State Grange and Chairman of the National Executive Committee. Brother Norris is an ear-
nest, loyal and eloquent Patron, and will tell us how New York came to be at the D. Saunders, Lecturer of the Michigan State Grange, will be in attendance both on September 2d and 3d. All eyes have
been turned to Michigan as the state been turned to Michigan as the state
making the most rapid grange growth in recent years. Come and hear Sister
Saunders tell of Michigan methods of growth in grange strength and influence. ing manner, rare refinement and liberal
In addition to the above, Brother F. P. Wolcott, Editor "American Grange Bulletin," announces that Olio has won
the beautiful silk banner offered by the "Bulletin" for the largest number of subscribers in the contest recently closed.
Brother Wolcott will attend September 3 d , and in person present the banner band, and no one can afford to miss meeting her.
an informal reception at Grange Hall, on the fair-grounds, and all attending mem-
bers will have an opportunity to meet out distinguished guests.
Further details will be announced in the public press from time to time, but
this gives the data upon which we can all begin to plan. Invitations from cities desiring the next session of the Ohio
State Grange will be canvassed at this
Railroads will make low rates for transportation, while the Executive Com-
mittee, as well as the State Fair managemittee, as well as the State Fair manage-
ment, will spare no pains to secure the most comfortable entertainment for
visiting Patrons at reasonable prices. In preceding years visitors from other Ohio State Fair the most successful of all fairs; its buildings the largest and
most commodious; its grounds the best arranged and most beautiful; its exhibits This great plant belong
payers of plant belongs to the taxthere and see our property. Let us lay aside our farm-work and worry for the
entire week; forget our houses and lands, entire week; forget our houses and lands,
flocks and herds, the price even of butter and cheese, corn, wheat and hogs; cease or a few days our struggle for the
possession of things material, which at possession of things material, which at best will soon dissolve in our hands. Let
us forget them all, attend the great Ex-
position and Reunion, and garner the joys of association, lay up the treasures of fraternal regard, extended acquaintance and friendship, and cultivate such
qualities of mind and heart as will make us nobler men and women.
Fraternally,

Fraternally,
F. A. Derthic
F. A. Derthick,
Master Ohio State Grange

MISS HEALY'S PROWESS
Miss Margaret Healy saved the day for women when she fought to a successful
issue President Butler's proposed amend issue President Butler's proposed amenducational Association, providing that the president might name the members of
the nominating, convention, instead of leaving it to the different states. This would have made the women practically

Healy was wise enough to foresee and nip in the bud. A few more victorious Ne National Educational Association a ar more powerful factor in the leducational affairs of our country, as they con-
NATIONAL MASTER AT OHIO STATE FAIR In addition to the other able speakers mentioned elsewhere, Mr. Derthick has tember 3d for the Ohio State Fair Grange Reunion. Let every Patron in Columbuse a supreme Mr. Jones is an able speaker, the leader of the most efficent and largest farmers' organization in the world. Bring your neighbors, and grange to come to Grange Hall at the State Fair, and hear Mr. Jones tell of the vork of the grange

## LIBRARIES

Mr. Carnegie has established over orre thousand libraries, one hundred and fiftyeight during the last year. The year's gifts amount to $\$ 6,679,000$, and 96,247 vol umes. While we appreciate the magnifwe can but feel that the few books added at much sacrifice to hundreds of grange libraries will bring to the state a very great share of intelligence. It is not the that count the most, but the few excellent ones read and digested. The widow's
mite was not despised. THE OBSERVATORY
More new granges were organized in the first six months of the present year than in the entire year of 1902 .
Mrs. F. D. Saunders, Lecturer of Michigan State Grange, will address the Patrons at the Ohio Grange reunion at the state fair this year.
State Master Derthick recently dedicated Rehobeth Grange Hall, in Perry County,
Ohio. This is one of the finest halis in Ohio. This is one of the finest halis in

What the Greek-letter fraternity is to the college man, the club to the city man, o his financial, spiritual, social and mental needs. Its benefits are many.
If farmers would have confidence in each other, they could combine and produce many a trust-made article with profit to themselves. We pay dearly for our lack of faith in one another.
For every incapable and dishonest official there are hundreds of thousands could fill the office with honor and distinction. Why are they not in office? Ask the voters and the party bosses.
When loudly condemning child-labor in factory and mine, look into the fields and see what your child is doing. I have seen as pitiable cases of arrested devel-
opment and stunted intellect from childopment and stunted intellect from child
labor on the farms as in public works.

Qhio institute-workers will hold an in stitute during the last week in November, turing. It will be conducted on lines sim ilar to those of the teachers' institutes. This is highly commendable. Farmers are becoming more and more enlightened,

Make arrangements to attend your state fair this fall. It is an inspiration ture. If the grange maintains headquar ers on the grounds, be sure to go ther farmers of the state. Talk over matters neighbors-it will surely benefit you.
Because you do not find pleasure in
attending church is no reason that you moral and ethical training of your children. Examine the they resolve themselves into so many ethical propositions that sound commo sense cannot help but approv
The race, like the individual, must go ment. All is not smooth, graceful action, but occasional falls and hard knocks. To the child who stumbles and falls, the and in the end finds light and independence. So it is with the
Ahead of it is light and life

## DEBT OUTLAWED M. N. S., Kansas

 did not pay at the time, several month not ask A. for the one year's time?| The Family Lawyer |
| :---: | :---: |

ay for labor after one year has passed? in writing is not barred or outlawed un til three years after the goods have been year limitation applies only to libel,
slander, assault, battery, maliciotus proscution or false imprisonment.

## WILL-WIDOW'S RIGHTS

A subscriber in South Dakota wants to and wills his wife only one dollar, is that all she can get? hat a widow if not all, the states provide an the husband, without the wif's con, deprive the wife of her rights to and in his property, and in South Dakota the the property remaining after the debts of the husband have been paid.

## INHERITANCE

L. M. C., Illinois, wants to know: "I o children, and without making a will, what part would his widow receive?
Would his parents or brothers be entitled o any part of it, there being both rea and personal property?
and no will, the estate descends to the urviving wife, subject to the payment of debts. In Idaho one half would go the wife, and the other
dent's father and mother.

## PARTITION FENCE

> J., Ohio, is having trouble with his f. the following facts: A. and $B$. have a highway. The fence is built, and B.'s land is pasture for his cattle. A.'s is plowcows put their heads through A.'s fence refuses to repair his fences, and notifies B. wires on the same side as the cattle. The
wires are close together, and the cattl wires are close together, and the cattle
cannot push the wires off or get through B.'s half. Is it A.'s place to fix his half, fixing A.'s half of the fence?"
It is A.'s duty to build his part of the fence, and to keep it in such a condition wire should be close enough and strong enough so as not to permit cattle to get
through. The mere fact that A.'s land is open to the highway will not excuse him from building his partition fence unless
he gives his neighbor six months' notice he gives his neighbor six months notice
that he intends to remove his partition
fence. Then it he allowed his land to be pelled to hie highway, $B$. Would be comto , pasture his own land. If A. injures B.'s cattle he will be liable

WILL WITHOUT MENTION OF CHILD
W. C. J., Tennessee, gives the follow-
ing: "A man marries, and he and his ing: "A man marries, and he and his
wife have five children. His wife dies and he marries the second time. He and his second wife have six children. He
makes a will, leaving all his property to makes a will, leaving all his property
maintain his wife, and what property maintain his wife, and what property divided between his last six children. He divided between his mention the first five children in the will, and he had never provided for the first wife break the will under the statutes of Temnessee?"
A person has a right to will his property to any person he chooses. It is a common belief among many persons not educated in law that if a child This is not in true It might possibly apThis is not true. It might possibly apply where a child was absent and sup turn up. This would not revoke the will, turn up. This would not revoke the will, to the same share of the estate that he would have been had there been no will
made. Otherwise the will would stand

## CONVEYANCE OF UNDIVIDED INTEREST

 G. A. K., Indiana, gives this query: tate clear of all incumbrance, their heirsbeing all of age. One son had received in money what would be his share, and to make settlement he and his wife make a quitclaim deed of their undivided interes in the estate to all the brothers and sis-
ters. Later another brother buys a sister's interest, and she and her husband give said brother a quitclaim deed of their
undivided interest in said estate. Later said sister dies, leaving two minor children. Later the entire estate was sold part to a stranger and part to the brother who at first relinquished his claim in favor of all the other heirs of said estate
The two deeds were signed by all the heirs of said estate and their husbands and wives except the sister who had died
and her husband. Later said brother sold and her husband. Later said brother sold the part of the land he had bought, and the purchaser demands an abstract of tichildren of the deceased sister have an children of the deceased sister have an would have to be appointed for them and say you?"
terest during her lifetime, there would be nothing belonging to her two minor children, therefore I cannot understand

LIFE ESTATE
 S. A. P., Indian
asks: A. lives
a fifty-acre farm. B
ing overtaken with
sickness and misfo tune, he was likely
lose it. His fathe rede
willed condition
lifetime,
to be divided equal equally among An interurban railway line took which it will pay two hundred dollar
Thie parties are all living. To whom does the money belong?
In such a case the son would have the
use of the two hundred dollars during
his lifetime. The court would probably
require him to give bond that at his
death the two hundred dollars could be
collected and divided among A.'s heirs.

N: N., Nebraska, writes: "A woman children. Can the husband claim any
interest in the property which she had previously inherited? Can the husban claim any interest in property which he
had formerly deeded to her for a good will?"
The husband would have a dower in erest in all the real estate of his wif matter whether it came to her by inher BUILDING ON LEASED LAND
J. B., Wisconsin, writes: "A. leases piece of land to a religious society upon
which to build a church for such time a the building is used for church purposes Church. The house has not been used for such purpose for one or more years.
Since the lease was given A. has sold the land to B. without reserve, B. has sold to D. in the same way. Each party kne the house was on the land. We do no claim the lease is good. It is lost, any are: Can D. hold the house? --Was of the land to sell or remove the house chen it was no longer needed or used for expired, and these transfers made, does the society still own the house?-If so and D . wants the house removed, would I I do not think D. could hold the house or the reason that he knew of the of the society, and that the house wa built under a lease of the land.- He
having such knowledge, it was not neceshaving such knowledge, it was not neces-
sary to have it reserved in the deed, and the fact that the lease is lost might not destroy its effect if D. had knowledge think the society still owns the house, as forfeitures are strictly construed by the courts, and before the society could lo prove strictly the fact that the building house removed to determine the society' rights, he would have to give notice.

## CARE OF THE SICK ROOM Your sick-room is best freed from dust,

 dirt and germs if the sweeping is firstdone with a cloth
covered broom that
a little chloride. The furniture should be a little chloride. The furniture should be
dusted with a cloth similarly moistened.

## , EPILEPSY

One of the most important steps to in-
sist upon is that the patient slaall lead a
quiet life-if possible, a rural life. A
moderate amount of exercise, both phys-
ical and mental, is necessary. The diet
is also important. and some of our best
authorities insist that where bromindes are
being administered rery little salt should
be given or allowed in the food. because
the bromides will then take the place
in the system that is usually occupied by
the chlorides. Milk is the most valuable
article of diet in these cases. Fresh veg-
etables, such as peas, string-beans, and
spinach, with very little salt. is also de-
sirable. Broiled meat in moderation once
daily, and baked apples and steved
fruits, with a soft-boiled or soft-poached
egg now and thenl. A fair amount of
cereals for breakfast. and toast or stale
bread, complete the dietary for the aver-
age patient. Cold baths, with thorough
rubbing, the first thing in the morning
have a wonderful tonic, effect, and are
also of great advantage in encouraging
the proper action of the perspiratory
glands. Aside from the specific drug,
which is the bromides. there is nothing
that tends more to lieep the stomach,

## The Family Physician

By ROBERT B. HOUSE, M.D.
phosplate of sodium good condition than doscs-one sodium taken in teaspoonful water one hour before breakfast.-Medical Sentincl.

> WHOOPING-COUGH
J. A. W., North Carolina, writes:
"Please state in your next, issue what is
good for whooping-cough."
There are few diseases in which a
larger number of remedies have been
recommended. This implies unsatisfac-
tory results. In the catarrhal stage the
treatment is the same as for ordinary
bronchitis; at least, it must be so, as the
nature of the disease is often not sus-
pected. At this time aconite, belladona,
ipecacuanha or liyoscyamus are the main
remedies. Bclladonna is used in the
early part of the paroxysmal stage-
volent cough, without expectoration;
worse at night; sore throat; injected eyes;
noseblced; cerebral congestion. Drosera
is used in the latter part of the paroxys-
mal stage-with the cough, constriction
of the chest; violent paroxysms of cough;
worse at night; after the cough, vomiting.
Naphthalin in spasmodic stage-violent
and frequent paroxysms. Cuprum acet.
when the violent paroxysms of cough ex-
cite convulsions. Bromoform was intro-
duced as a remedy in I887 by Stepp, and
has bernme quite poptlar. Opiates, qui- nine, bromides, chlo-
ral, antipyrin, phenacetin and other very powerful drugs are
employed by many employed by many
practitioners for the practitioners modicstage, but mut be rarely necessary. Inhalation of menan ordinary nasal spray, as soon as the Diffuse a fine cloud of spray in front of the face, the spray being held about two
feet away. The effect is beneficial, the paroxysm is soon over, and mucus is rapidly expectorated. The inhalations of
the vapor of vapo-cresolene, creosote and the vapor of vapo-cresolene, creosote and
terebene are also frequently employed. plied to the pharynx and larynx as far as possible is effective. Free ventilation, when the weather permits, diminishes the number and intensity of the paroxysums
Wool should be worn next to the skin and exposure to cold and damp avoided Nourishing food is important.
Quitc remarkable results Quitc remarkabe been the patient's night-room by means burning sulphur. The child is to be washed, and dressed in clean, fumigated clothing. At the same time the closed
sleeping-room is to be fumigated for five or six hours by burning sulphur application has proved successful. As many of the remedies mentioned are dangerouts if given in too large doses they should never be used except by the

## Work For Yourself.



DR. F. A. VOTEY, Specialist
Skin and Blood
FREE Consultation by mail. Write now.
19 w. Bridee street, Grand Rapids. Mich. Our New Amen

## H. \& D. FOLSOM ARMS CO., NEW YORK

Thompson's Eye Water

## Solid Silver <br> Thimble Gold Band A BIG VALUE

 This is a more at-
ractive and prettier himble than any we have ever offered before. It is made is carefully finished,
and is of good, heavy and is of good, heavy
we ight. The embossed band around the base is heavily gold-plated, giving the thimble an furnished in any size; state which size furnished in any size; state which size
you want. The thimble is sent by mail, charges prepaid by us. Order as No. 683.
We will send the Farm and Fireside One
Year and this Thimble for only
75 Cents
FREE $=$

Address Farm and Fireside
SPRINGFIELD, OHIO interest and life, and the
mind will no longer feed

Ada Melyille Shaw

## Around the Fireside

## SICK-ROOM COMFORTS

Why do you never write about little things to make

"YELLOW ROSES"

By LIDA M. KECK
Yellow roses, yellow roses,
Where the busy bumble noses In delight,
How your beauty makes me tremble,
For the friends of youtl riends of youth assemble
At the sight!
And my quick-spurred memory traces In the group of shadow-faces
Hov'ring here,
One who now alas! repo
'Neath the lilies, 'neath the roses,
Year by year.
How we used to stroll together,
Through the balmy summer weather,
And I used to gather roses
Golden roses, "yellow roses,"
For her crown!
Ah, my roses, yellow roses,
Where the busy bumble noses In delight,
To my dim eyes let me press you,
Dears, to-night

## SELF-CONSUMING BRAINS

In Wykoff's book, "The Workers." he narrates an interesting and valuable experience through which he passed during some of his arduous experiences in
manual labor of the hardest kind. Those who have manual labor of the hardest kind. Those who have
read the book will recall that this gifted author made read the book will recall that this gifted author made
a study of the unskilled laborer by joining those motley a study of the unsh by sweat of brow and much discipline of flesh and spirit entered into the experiences of his brother of the calloused hands.
At one period of his experiment, to which he stuck most faithfully, he was called upon to do work that proved almost ine was ditch-digging, and Mr Wykoff tells us that to keep his exhausted brain from feeding upon itself he put himself through a systematic course of recalling certain pleasant and profitable phases of his past life. This was while he was actually in the ditch and throwing dirt. He sat again in concert-halls, and drank in of symphony and opera; he listened to the music of great oratory; he gathered with friends in social and literary -intercourse; in short, via the memories of past days, he took himself away from the downward pull of aching muscles, perspiration, ditch-
smells, the cursing of his fellows, and kept his mind smells, the cursing of his fellows, and kept his mind hopeful and alert by this other food. In only this way manimum of waste to mental and physical, and what minimum of waste to mental and ph
was still more vital, spiritual powers.
This bit of his experience ought to be of great help to most women. How narrowed the lives of the housekeeping, home-making mothers of the world
sometimes become. The daily round, the common sometimes hold become. The riglt there in aily round, the common task, hold us right there in one place the year round young womanhood and early wifehood slip away. What of the books we meant to read? What of the cor-
respondence we meant to carry on? What of the respondence we meant to carry on? What of of that fair dream of the character we were to hew out for our-
selves? Are we humdrum, irritable, commonplace, inselves? Are we humdrum, irritable, commonplace, incffectual beyond the making of so many beds, the
baking of so many pies, the doing of so many household duties, the fulfilment of so many duties?
upon themselves. They will have. food and if we do. They will have food, and if we do appetite demands. they will feed on trash or on themselves. Per-
haps if it were possible to get at the causes of insanity among cases that self-consumed minds have been the causes. When our thoughts run aimlessly over the track of past, present and future, without plan or purpose; when we
fret and brood and envy and wish and long over things we cannot clange or ought not to have, then
our life is consuming itself, and the results are sure to be disastrous. said unto his disciples when they said unto his disciples when they
spoke about eating: "I haye meat to eat that ye know not of." Who among those who are reading these words to-day are deprived of things that would minister to delight, as Christ was deprived? Yet do we find him serene, helpful, efficient in all the work "convenient" for him-that is fo say, literally on food that was "fitting" for lim.
If women would offset
If women would offiset any tendency to narrowness in their environment, they must feed their minds on fitting food-food worthy of clear brains, hungry hearts, heaven-shaped souls. Perhaps we cannot attend
libraries and lectures and clubs, but there is one book libraries and lectures and clubs, but there is one book open to every one of us-the Scriptures. upon which
Christ himself fed daily. Put the Bible where you can read and study it and think about its precious truths.
o in their homes, and with
home nursing?" asked our dear invalid one day, as she saw me seat myself at my type-writer.

Wy, little answered, "because it seems to me that Inow so little. If you have something to tell, though, the gentle womanl who has been as an angel to the house for many months told me of the small things
which I am about to write, hoping that they may be of help to some other sufferer.
"Well," she said, "of all the little comforts, I do not know of one which has been of more satisfaction than
this," and she waved her fan at me. When she first this," and she waved her fan at me. When she first wrote of it to our friends, a beautiful young Florida girl who had known and loved her sent the fan to her bedfellow. And so it has proved. It is large and ex tremely light, made of turkey-feathers cunningly interwoven into a round shape, with the wiry parts of the arge feathers forming a handle, which she covered smoothly with fine silk. Aunt Kate uses it for many purposes-it is a fan, a screen, and sometimes a closet
of seclusion to hide her face when her thoughts are such as she cannot share with us.
"Then there, is the little table which your Cousin John made me." It is a little double-decker, just about tray at meal-timès. On the lower shelf she keeps such magazines or books as she happens to have in imme diate use, a iittle basket of the things she likes to keep handy, sil for lead-pencil for marking in her reading, and her ting flowers in the room, she keeps them on the table, and they can be easily removed at meal-times. Very often, too I see there a nice fresh lemon. She says the odor of a lemon refreshes her, for, like most sick per Another cannot tolerate an extracted perfume.
er, which she the a light but perself without calling for assistance when it needs a little readjusting her her hand, is a pretty little linen bag, which holds the was sent her as a Christmas gift. When Aunt Kate feel like sitting up in bed a bit, she simply reaches out and gets it, and slips it on over her gown without an assistance. We wanted to help her at first, but it di not take us a great while to discover that she much preferred to invalid who could for herself. She is not the she is ready for it, though, one of us hands her the fat embroidered bolstering-pillow, which is another gift - for our dear lady is a favorite among her kin-an to prop herself at the most comfortable angle.
"Do not forget this," she said, timidly, as togethe we enumerated her many comiorts. It is only a wide and is the only outward sign of the clean brown paper, is hers to bear, for she has consumption.
hat I cou Ifirst got sick," she said, "it seemed to me that I could bear all the suffering; but I could not abide the thought of seeing you girls disgusted with what
I knew must be-Mabel, you know, is so fastidiousand I was worried beyond measure about what I and I was worried beyond measure about what
should do when I began to expectorate. Then thought of this bottle, that I could manage in $m$ hides what is it when not in use, and the pape and it is so good not to be always afraid of seeing repulsion in eyes in which l love to be sweet" seeing re"Youl always are sweet to us," I was sit
her; and it is the truth, and I think is worth stress in any mention of sick-room comforts, that the invalid shows such great consideration for those around her. She seldom speaks of her symptoms, makes no doleful sighs over her condition, and does not arrange for her funeral two or three time

When I asked her what particular things she mos disliked about being an invalid, she said that long-face visitors were the worst, that big bouquets of white lowers seemed to her a little previous, that tiptoeing were particularly har ssing and that although her fa not have to suffer anything of the lind at our had still she had known the bitterness of being trented libe still she had known the bitterness of being treated like a child or a mild lunatic, when it was her lungs, and Parsons sends her lots of church papers, and I often see her dea: eyes wet with happy tears over some sweet thing she finds in them; but still she enjoys the piles of sick face is a pleasant thing to then, and a laugh on a quote more cuaint and jolly things, and remembe more jokes, than any one with whom I am acquainted so that her room is not a doleful place at any time All in all, I think Aunt Kate is the greatest of all the
comforts in her room. Susie Bouchelle Wight.

## CURIOUS FACTS

The children of the poor in Japan are nearly always labeled, in case they should stray away from their
homes while their mothers are engaged in domestic duties.
In Deninark there are companies that will insure women who have a fear of becoming old maids. They pay stated sums every year. and should they marry be-
fore they are forty, what they have paid in goes to the sions for life.-American Cultivator.

T

## POPE LEO XIII.

 THOSE of our readers who belong Catholic we are sure this picture of His Holiness will be a welcome visitor. To those who belong to the of one of the greatest men the world has ever produced.We are reproducing in this issule the Ope's ode on death. An Episcopal clergyman has written a tribute to the
memory of His Holiness, which is herewith given to our readers.-ED

## "PAPA VERE MORTUUS EST"

by rev. alexander c. mccabe, phid.
A girdle of purple circles the globe, And the earth hath put on a somber-hued
"The grinding is low at the mill."
"Papa vere mortulus est,
Grant to him, Lord, eternal rest."
At Life's cistern there lies a broken wheel, The grasshopper a burden hath grown,
Through the sunset's gates the gray hrough the sunsews steal,
And the voice of laughter hath flown.
Grant to him, Lord eter
At the fountain a broken pitcher lies,
While to arid fro the mourners go;
From palace and hovel comingled
The sounds of a common w
"Papa vere mortulus est,
Papa vere mortulus est,
Grant to him, Lord, eternal rest."
The resounding bells of a thousand spires Unite in a solemn death-toll,
And the flame burns dim in the hearth-
At the passing from earth of his soul.
"Papa vere mortuus est,
Grant to him, Lord, eternal rest."
Farewell, dear Father, thy great work is
Thou hast gloriously done thy part,
In the Church at Rest on the other shore
here is peace for thy mind and hear
"Papa vere mortuus est,
Grant to him, Lord, eternal rest."
The death of the Pope is officially announced in these words: "Papa ve
mortuus est"-the Pope is truly dead.

## POPE LEO'S ODE

Renowned in letters, famed in art,
The age recedes; of many a thing
Oon for man's good from Nature's hear
Who will may sing.

##  <br> The glories of the faded years I rather backward glancing mournThe deeds ill done, the Of the age outworn. <br> Red wars that reeked with the blood of <br> Wide-wan, <br> Fierce guile that threats the Vatican These I lament.



Where is thy glory, stainless, free, City of Cities, queenly Rome? Ages and nations kneeled to thee,

Woe for a time of Godless laws! What Faith, what Loyalty abides? Torn from the shrines, the ancient cause
To ruin glides.
Listen! how science wildly raves
Around the altars overthrown,
Brute Nature, with the world for sláves,
Brute Nature, with the world for sláves,
Is God alone!

Sunday Reading


Not made in God's own image now Is man-tis thus the wise dispute-
But sprung from one same cell, they
Are Man and Brute.
O blinded Pride on chaos hurled! O Night proclaimed where Light Obey thou Hirm who rules the world,
Man, and be free!
He only is the Truth, the Life, He only points the heavenward way;
He only frees the soul from strife He only frees the soul from strife
If men obey.
'Twas he who led the pious throng But now to Peter's dust divine;
Of faith to live through ages long, Of faitl to live through ages long,
No empty sign! Jesus. the Juclge of years to be, Direct the tides, the tempest still, And make the rebelli
Sow thou the seeds of happy Peace,
All evil drive from us afar,
And bid the rage and tumult cease And bid the rage and
Of hateful War.
The minds of Kings and Peoples mold, Thy words may all enjoy with awe;
Be there one Shepherd and one Fold, One Faith, one Law.
My course is run; long ninety years. Thy gifts are mine; thy grace retain; Let not thy servant's prayer and tears
Be poured in vain.

POPE LEO'S POEM ON DEATH
Pope Leo possessed much merit as a poet. He always employed Latin as the anguage for his muse. The Lollowing is a translation by Andrew Lang of his
poem on death, which is appropriate to print at this time, when his death is so fresh in our minds:
The sinking sun, descending into night, In thy chilled veins the blood creeps day
Slowly-more slowly-as life ebbs away.

Death casts his dari-thy mortal form, Earth shall receive-the funeral-shroud enfold.
But from its.
But from its prison thy glad soul shall Stretch wide its wings, and soaring, seek

Then, when life's long, hard road has all Ah, if it be thy blessed will, O God, Grant me, if counted worthy of thy grace, In thy most blessed heaven to see thy

COMPLETE CHRONOLOGY OF POPE LEO XIII.
Born at Carpineto..........March 2, 1810 Entered college at Rome............... 1824 Matriculated at Gregorian University Entered College of Noble Ecclesias-
tics............................. 1832 tics......................... 183
Appointed Domestic Prelate by Greg-
ory XVI......................... 883 ory XVI............................. 883
Referendiary to Court of Segnatura March 16,1 Ordcr of priesthood conferred. Apostolic delegate at Benevento 31 , 1837 Governor of Spoleto........................187-1841 Papal Nuncio at Brussels....... 1843-1845
Made Archbishop of Perugia...... 1846 Made Arclibishop of Peruggia.......... I846
Created Cardinal...... December 18, I853 Made Cardinal Camerlengo...July, I877
Elected Pope........ February 20, I878 Elected Pope..........February 20, Revived Roman Catholic Hierarchy
in Scotland..............March 4, 1878 Encyclical condemning communism, socialism and nihilism. December 28
Encyclical against heresy, socialism.
Recognized unity of Italy, October 7, 1883 Encyclical condcmning liberalism... Celebrated golden jubilee............ 1887 Celebrated grand jubilee. Encyclical on socialism and labor.. Celebrated Episcopal jubile May 16, 1891 Issued appeal to England for reuny 1893 of Christendom. ......... April 14 , 1894 Celebrated sixtieth anniversary of his first mass.............February 1 3, 1898 Declared 1900 a year of universal
jubilee. ....................May II, 1899 jubilee...................May II, 189 Held consistory and created eleven
new cardinals. . ................. 1909 Celebrated ninetieth birthday.
Died in Vatican............

O

## A CASE OF BIRD.REASONING

 ander my notice occurred dence in Peace Dale, R. IIn the village are two large woolenactories, and between the upper one and a pond is a long canal, or mill-race. running, the water flows very swiftly. Near the upper mill and leaning over the racc is a small tree, its slender branches bending down almost to the surface of the water.
One day a pair of robins were noticed examining this tree, and an hour or so later they were busily engaged in building a nest in a fork of one of the branches, directly ove Many cu
Many curious eyes watched them from exposed, and yet so inaccessible-almost within arm's length of the public road, and yet beyond reach of the most agile cat, whose weight would be too heavy for the slender branch.
By noon the next day the nest was two
thirds completed; then suddenly, to the surprise of the two or three who happened to be watching at the time, the robins ccased work, as though in sud-
den doubt. Evidently a new idea had den doubt. Evidently a new idea had occurred to them, or the knowledge of consultation they began to remove the nest, carrying it away straw by straw. Later it was discovered that they had rebuilt in a thick clump of alders, and only few feet from the ground.
And the reason was too plain even for speculation. The robins' first idea had becn to put their home beyond reach of
boys and predatory animals. Herc the mill-race had seemed a safeguard to them. Then they must have looked forwould be old enoughen their little ones would be old enough to leave the nest,
but too weak to fly. What would happen to them with that mad rush of water beneath? So they had removed their nest, of two evils choosing the least. S.

## CARNEGIE WON THE RACE

When Andrew Carnegie's parents first Came to America from Scotland they went to East Liverpool. whio, to stay
 Pa., 'often returned to East Liverpool to visit some of his friends and playmates. On one occasion, whern he was sixteen years old, he went with his cousin to visit William and Michael Fisher, who lived on a farm about half a mile from the town. The four boys spent some other objects of interest, and at length other objects of interest, and at length, when they were all standing at the top of Carnegie, to a foot-race.
"Well." said Andrew, "you're a lot
aller than I am, and your legs are taller than I am, and your legs are
longcr, and I believe you can beat me, but I'll race you just the same."
The two boys started, and as Andrew had forseen, the Fisher boy easily outran him. The little Scotchman was by no means discouraged because the chances seemed all against him, but kept running.
About half way down the slope the Fisher boy stopped, considering it useless to run further. To his surprise, Carnegie continued his pace, and arrived at the bottom far ahead of him.
"That's not fair," said Fisher, "be"ause I stopped.
"Yes, I knew you'd stop," said Carnegie in reply, "and that's why I kept on running. Have you ever heard the fable
of the turtle and the hare?"-Success.

## DO NOT BE A SECOND.CLASS MAN

You can hardly imagine a boy saying, "I am going to be a second-class man. I good jobs, the high pay. Second-class
sands do that all the time, first class. Thouclass men are a drug on the market.
Second-class things are wanted only wear first-class clothes if you can. You them, eat first-class butter, first-class meat and first-class bread; or if you do not you wish you could. Second-class men arc no more wanted than any other second-class commodity. They are taken and used when the better article is scarce, or is too high-priced for the occasion. For work that really amounts to anything, first-class men are wanted.
Many things make second-class men. A man menaced by dissipation, whose understanding is dull and slow, whose growth has bcen stunted, is a secondclass man, if indeed he is not third class. A man who through his amuse-
ments in his hours of leisure exhausts ments in his hours of leisure exhausts his -strength and vitality, vitiates his
blood, wcars his nerves until his limbs blood, wears his nerves until his limbs
tremble like leaves in the wind, is only half. a man, and could in no sense be called first class.-Success.

## ANATOMICAL

The body has about five hundred mus-
cles. The lower limbs contain thirty bones each. in the hand of a man. real nose and chin.
The human skeleton, exclusive of teeth, consists of two hundred and eight bones.

The eight muscles of the human jaw
xert a force of about five hundred exert a The wrist contains eight bones, the palm five, the fingers fourteen. The smallest bone in the human body
is in the lenticular, seated in the ear. The work performed by the human heart each twenty-four hours is equal to the lifting of one hundred and twentynine tons to a height of one foot in that length of time.-Youth's Guardian Friend.

QUEEN ALEXANDRA'S PIANOS
At the time of her marriage, forty years ago, Queen Alexandra received nineteen pianos as wedding presents. Every one of these elabition - American Cultivator perfect condition.-American Cu1ltivator.

## A KITCHEN GAME

by May myrtle french
Young Johnny by the kitchen door
Had let a costly vase fall;
Had let a costly vase fall;
And, scared beyond his little sense
And, scared beyond his little sense
"Let's have a 'game,'" the stove then (It was a large "base"-burncr), And caught the "bawl" that John threw And tossed it to Cake Turner.
A pie-pan made a good "home-plate"
(Kind R. Pin made it flattcr); When Johnny blinked, they seized the Young Cake of course was "batter."
They chose M. Syrup "pitcher" first,
As "umpire" " had most practice,
As "umpire," one must kcep quite cool,
A. Tin Cup full of cracked ice.
O'Clock was best of all to play, And when it came to "making strikes" He surely was a stunner.
The game was going merrily,
In fact "just like the Dickens,"
When some one made a "wild foul

## And hit the roasting chickens

B. Honey made his well-known "run hen Cook appearing, stopped the funThe game was "called" by Tin Cup.

PCATERING TO THE WEATHER ROTEST against it as we may, food
has a great deal to do with our has a great deal to do with our far we may blame or praise the cook for
our future is something we may each find our future is something we may each find
out "further on." The woman whose
only care is to cook three "msals of victuals" daily, and get them on the table with a commendable measure of regularity and taste, has allen far short of her calling-and this statement is so common as to sound very trite in the editor's ears,
if not in the "gentle reader's." All the same, it would be interesting to know how many of the women reading this article studied the weather when preparing the day's menu any time this week. I do not mean.simply
whether it was hot or cold-that is to say, whether it. whether it was hot or cold-that is to say, whether it,
was summer or winter-but the particular weather of was sumn
the hour.

When you set out to think about it, you will be surprised to find that on cloudy days certain things
taste better than on other days. On a rainy day an taste better than on other days. On a rainy day an
old-fashioned Irish stew, simply served, with fresh bread and butter and "a bouncing good cup of coffee,"
will taste better to some palates than a dinner of half a dozen much more expensive and troublesome dishes. Beans, soup, hash, salads, chocolate, lemonade, cold

meats, fruits, confections and nuts are all curiously related to the weather, and the woman who finds out what that relation is will call blessings down upon her witty head.

Now a word as to another kind of weather-the home atmosphere. Sometimes it is "jolly fine," not a cloud in the sky, brisk breezes of success flying, and
everything lovely. On sucl days the regulation meals everything lovely. On such days the regulation meals
of "meat an" taters" go down with zest. But whif! of 'meat an' taters" go down with zest. But whiff!
a cloud blows up-or down. Instead of paying less attention to what to eat, the house-mother mast pay attention to what to eat, the house-1110ther must pay
more. An apple turnover "like we had when we were children," may turn ungraciousness into smiles. A
dish of "toffy" may stop a surprised mouth from ugly words. A cup of cocoa with whipped cream may smooth over an irritation. Even a baked potato,
cracked open, a bit of butter tucked into the gaping, cracked open, a bit of butter tucked into the gaping,
steaming snow, and the whole daintily dressed in a white doily, may beguile an appetite which dull care had threatened to steal away.
The culinary fairy may also be made to conquer another kind of weather-the doubtful atmosphere which the unwelcome caller brings with her. Almost every fannily has one or two callers who never come
unless it be with a tale of woe or a piece of ill gossipunless it be with a tale of woe or a piece of ill gossip-
ing or neighborly (?) complaining. The writer went dreaded, and to whom she went withper she embarrassing errand. Now it so chanced (again I want to use a? family, and before the caller could get out a word about family, and betore the caller could get out a word about
her dreaded errand, a dish of cream was brought in,
and because of its temporary characteristics, had to be eaten right off. When the saucer was empty, and had been carried away, the hostess was smiling with consceous benevolence, and the caller, very smooth and
cool inside, said what she had to say witl gentle fearlessness.

Only a few days ago the writer was called upon by one who is known as the neighborhood "crank." Ex-
cusing herself a few minutes, she reenntered the parlor cusing herself, a ew minutes, she reentered the parlor
with a server, on which was a cup of tea made in the Chinese way-by pouring boiling water on the leaves
in the cup-a cube of lemon for the Russian flavor, and in the cup-a cube of lemon for the Russian flavor, and
two cheese wafers. Result? two cheese waters. Result? The "crank" was so sur-
prised, so grateful and so tea-absorbed that her visit Since its acidity.
series of vanishing-points between since life is such a series of vanishing-points between the temporal and
spiritual, let us put the pantry to its highest uses, and
"use" it as a means of conquest and defense as well as sustenance. $\qquad$ and defense as w.
Melvile Shan.

## SCOLDING OR SUBSTITUTION, WHICH?

The mother who has learned much of the art of
bstitution need not be particular to acquire mucly of substitution need not be particular to acquire much of
the science of scolding.
Children very often become cross and irritable only because they need sleep, and the wise mother will
realize tlis, and substitute a good nap in place of the intended scolding.
A child becomes nervous, and perhaps angry, be-
cause he cannot make his new toy act as he wants it cause he cannot make his new toy act as he wants it
to. Let the mother gently show him where the trouble lies, and she will have a sunny-tempered child in a very
few minutes. The little man has fallen, and bumped his head;
begins to cry, as a matter of course and because he
俍 has nothing else to occupy his mind just then. But
let a circus procession pass by, and his faculties are let a circus procession pass by, and his faculties are
immediately awake, and his bumped head is instantly.
forgotten.

This same idea can be utilized to a wonderful advantage in the home. Children can be made to forget severe pain if their minds are taken from them-
selves by outside forces. They can also be made to selves by outside forces. They can also be made to take great pleasure in helping mama if the work can be made to resemble play
he best books, the best lines of thoughe can substitute the best books, the best ines of thought and action, the most uplifting amusements, the most ennobling occupa-
tions, for those of a poorer kind. That is, we will be able to do so if we have been doing this from infancy. We must begin when the minds are tender, and day after day gently lead, not scold, along.

## to USE GREEN GRapES

Canned Green Grapes No. i.-Stem the grapes, wash, drain, and cover with boiling water. Let stand ten minutes, then drain off the water, putting the pulp in he esulping-kettie and the seeds by themselves. Boil colander. Add the skins, measure, and add one cupful of sugar to each two cupfuls of grapes. Cook ten minutes, and seal boiling-hot.
Canned Green Grapes No. 2.-Stem the grapes, wash, and drain well. Fill glass jars nearly full, and shake them down well, but do not bruise. Make a syrup in the proportion of four cupfuls of water and three cup fuls of sugar to each five quarts of grapes. Pour it bers and covers, but do not screw down tightly. Stand bers and covers, but do not screw down tightly. Stand
the jars in a boiler or large kettle, with plates or pieces of thin board under them and a little straw between them. Put enough hot water in the boiler or kettle to them. Put enough hot water in the boiler or kettle to
reach almost to the tops of the jars, and allow them to boil for fifteen minutes, then screw the covers down tightly, and set away.
Green-grape Jan.-Stem the grapes, and simmer in a preserving-kettle with one half cupful of cold water sieve. Measure, and to every pint of juice allow three fourths of a pound of granulated sugar. Boil the pulp and sugar steadily for fifteen minutes, stirring constantly to prevent scorching. Seal boiling-hot in pint jars; or it may be put into jelly-glasses, and when cold
sealed like jelly. ealed like jelly
Green-grape Jeliy.-Stem and wash the grapes, and pick over carefully, removing all inperfect fruit. Add one cupful of sugar to each two pounds of grapes, and simmer in a preserving-kettle until perfectly soft. of sugar to each pint of juice. Boil the juice rapidly for ten minutes, add the sugar, stir until dissolved, and boil rapidly ten minutes longer. Pour into jellyglasses, and after twenty-four hours seal.
Green-grape Chutsey.-Chop one and one half pounds of green apples, and put in a preserving-kettle ne ounce ne ounce of garlic, one teaspoonful of onion-juice, half teaspoonful of cayenne and one pint of best vinegar. Cook slowly in the preserving-kettle until reduced to a pulp, turn into a porcelain or earthenware dish, add one half pint of brown sugar, and stir daily Keep in a cool, dry cellar. Keep in a cool, dry cellar
ing to turn. Stem, scald, and strain. To five begin ning to turn. Stem, scald, and strain. To five pounds
of grapes allow two and one half pounds of brown of grapes allow two and one half pounds of brown
sugar, one pint of vinegar, one tablespoonful each o salt, pepper, cloves, cinnamon and allspice.. Boil until rather thick, and seal immediately. Tie the spices in a little piece of muslin.
breen-grape Pie.-Line an inch pie-plate with cood paste, sprinkle over the bottom two heaping starch), then fill with pulped green grapes, spread over two tablespooilfuls of grape jelly, sprinkle with four tablespoonfuls of sugar mixed with one tablespoonful
of corn-starch, and add two tablespoonfuls of cold corn-starcll, and add two tablespoontuls of cold
water. Cover with a nice upper crust, and bake in a water. Cover with a nice upper crust, and bake
good oven. Serve with plain or whipped cream.

## CRAB-APPLE FAVORITES

Preserved Crab-applés.-Select verỳ ripe, sound apples for preserving. Wash them well, just cover ing-kettle until the skins can be easily removed. Drain, peel, and carefully remove the cores without breaking the apples or removing the stems. Allow one and one fourth pounds of sugar and one cupand water to a boil over the fire, skinn thoroughly, and put the apples in carefully. Cook very gently unquired while cooking. Put into small, wide-mouthed jars, and when cold seal. This recipe will make a preserve both handsome and delicious, and although rather more trouble, is far superior to the usual rule Crab-alpre Preserves.-Cook the apples whole or cut in halves as preferred, but in either case remove
the cores. Boil in clear water until tender, but not broken. Skim out, and weigh. Allow one pound of granulated sugar for cach pound of fruit. Add the and boil until clear-about five minutes. Skim thoroughly, put in the fruit, and simmer gently a few minutes. If cooked too long the apples will fall to pieces. Two whole cloves stuck in each apple improves the Cravor. Sald ate Jelly-Wash, and cut out all imperfect parts. Covcr with water, and cook until soft.
Pour into a jelly-bag, and drain without squeezing. Measure, and allow one pint of sugar to one pint of juice. Boil the juice rapidly for ten minutes, then add

the sugar, and boil ten minutes longer undisturbed for twenty-four hours, then seal, and keep in a cool, dry place. A delicious marmalade may be made of the fruit left in the jelly-bag after the
juice has drained off. Press it through a
coarse strainer coarse strainer, measure, and add brown and rich, stirring constantly until thick burning. Tlis is especially aopreciated in the winter with whipped cream, and as a filling for sandwiches for school-lunches is an agreeable change.

Crab-apple Pie.-Stew the fruit, and press through a colander. Make rather sweet, and flavor with lemon Bake in two rich
sweet, thick cream

Crab-apple Sweet Pickles.-Prepare the fruit in the first recipe for preserves, and when cooked tender enough, drain. Dissolve four pounds of sugar of one pint of vinegar over the fire. Mix one ounce of ginger-root, two teaspoonfuls each of allspice and Put them into four small muslin bags, and add to the vinegar and sugar. Let it boil up, then add the apples Bring again to the boiling-point, then put the fruit in stone jars, and pour the vinegar over it. Let stand until morming, then pour off the juice, place it over the fire, and bring again to the boiling-point. Pour it back over the apples in the stone jar, and let stand an other twenty-four hours. The next day boil the juice again, and pour it boiling-hot over the fruit. Repeat for eight days, then boil the syrup down until there is barely enough to cover the apples, put in the fruit, le Tie up the same as for jelly
Crab-apple Pudding.-Wash and core the fruit but do not pare it. Cook in a little water until tender sweeten to taste, and put in a pudding-dish. Pour over a batter made with two eggs, one pint of flour milk teaspoonfuls of baking-powder, a pithe half hours. Serve with sweet liquid sauce or with cream and sugar.
$\stackrel{\text { Mream }}{\mathrm{M}} \mathrm{F} . \mathrm{S}$.

## "SOUR.CREAM POSSIBILITIES

Sour cream is an indispensable ingredient on our "bake-days," and those who try the following thoroughly tested recipes will appreciate their value
convenience, economy and satisfactory result

Delicious cookies of which the cooky-box is seldom empty are made from one and one half teacuppuls of sugar, one small cupful of butter, one cuppul of thin sour cream, one well-beaten egg, one level teaspoonful of soda, spice to taste, a little salt, and flour sufficient to roll out. Mix rather soft, and bake in a quick oven. White Cake.-One cupful of granulated sugar, one cupful of rich sour cream, one teaspoonful of flavoring extract, and two cupfuls of flour. Whip smooth and creamy, hen add one half teaspoonful of sod and one and lastly the well-beaten whites of two eggs. Mix and lastly the well-beaten whites of tw
without beating, and bake in two layers.

Corn-bread.-One pint of sifted corn-meal, one egg, one teaspoonful of soda, one heaping teaspoonful oupful of tartar, and a little sal. Thin with one hal pour quite freely. Bake twenty minutes. Is there any , anong you possessing a fondness for
"Dutch dishes?" Then if you wish to cultivate it, try


DAISY CENTERPIECE
an onion pie. Take one beaten egg, one tablespoonful of flour, one cupful of sour cream, one minced onion, salt to taste, a sprinkle of pepper, and bake with one
crust.
M. M. H.

## TO DRY-CLEAN HAIR-BRUSHES

Many people have an objection to wetting their brusles, and for those we give this excellent method of cleaning them perfectly. It takes a little time and patience, but nothing else. Take the brusl by the
handle, and strike gently but firmly the whole face of the bristles on a board or other smooth surface. After twenty-five strokes you will find that the dirt lias nearly all gone, and the "woolly" stuff that gathers at the basc of the bristles has come down to the ends, where a comb will quiclly ly remove it. Keep this up mo harm to the brush.

Lemon-water Ict.-To a lieaping tablespoonful of gelatine dissolved in two gills of cold water, add one quart of boiling water, twelve ounces of sugar and the
strained juice of eight leinons; mix thoroughly, strain and freeze.


LADIES' PLAITED COAT WITH STOLE COLLAR

Mgarments for gummer to outside they have received for a long fact that they are probably due to igned and made of such tastefully de The coat illustrated is developed in white silk voile, unlined, makirg a cool and most appropriate garment for warmshoulder and under-arm seams.


## LADIES' PLAITED COAT WITH STOLE COLLAR

Two tucks on each side of an inverted box-plait in the center back are stitched tucks that are stitched almost to the hem, the fullness from the tucks increasing the width at the lower edge.
The coat fits well on the shoulders, and hangs loosely in box effect. Deep tucks in the sleeve terminate near the wrist. where the fullness is arranged on lace cuffs. If a flowing sleeve is desired, the cuffs may be omitted, as shown in the small illustration.
A broad lace collar completes the neck and extends over the shoulders, giving ends on the collar are extended below ends on the collar are extended below
the coat in front. The stole is trimmed - the coat in front. The stole is trimmed this style made of linen, mercerized cotcoarse lace collars and cuffs, are very fashionable. The mode may also be developed in shantung, pongee or brilliantine, with collars of self fabric trimmed with bands of Persian embroidery.
LADIES' NINE-GORED FLARE SKIRT, INSTEP. LENGTH
During the summer months train skirts seem a burden to carry around, and ankle or instep-length models receive more favor than they do in cooler
weather. Some of the smartest pongee weather. Some of the smartest pongee
and taffeta shirt-waist suits have skirts and taffeta shirt-waist suits have skirts
that just clear the ground, and almost all costumes intended to be worn when traveling are made with round skirts. made of dark gray and black cotton

cheviot of a heavy quality. It is shaped with nine well-proportioned gores fitted smoothly around the waist and hips with ter back under two inverted plaits that ter back under two inverted plaits that
present a perfectly plain appearance. In some skirts these plaits are flatly pressed, while others are, stitched on the edges half way down in habit effect.
to knee. Below that point each gore fare widely, and there is a stylish, graceful

## How to Dress

sweep at the hem that is especially attractive in skirts that do not touch the
ground. Machine-stitching on the seams ground. Machine-stitch
provides a tailor finish.
provides a tailor fimish. Skirts in this style are made of silk,
light-weight woolen fabrics, brilliantine or heavy wash-materials, such as butchers' linen, cotton, cheviot, piqué or madras. The numerous seams afford a good opportunity for quite elaborate trimming with braid, ribbons, lace or embroidery.

## LADIES' NEGLIGÉE TOILETTE

Many sets of lingerie and imported bridal outfits have dressing-sacques to match the petticoats. This is a dainty idea, because the two garments are usuof the same material and trimming.
The toilette illustrated is made of white wash-silk, with elaborate lace trimmings. In the dressing-sacque the full front and opplied at the lower edge of a shallow applied at the lower edge of a shallow lace yoke. This is cut out V-shape at the way, spaces between the clusters being trimmed with bands of lace.
Frills of lace trim the lower edge of the sacque, and bands finish the front and lower edges. The full sleeves are tucked to match the body of the sacque, and attached to the edge of a short lace cap. They are very
in bell effect. shaped yoke, which fastens at the back and displays no fullness. The skirt is of circular shaping, and is attached to the yoke, the in fine gathers. The skirt pattributed in fine gathers. The skirt pat-
tern is given full length, and the founce may be applied or it may be finished so that it will form its lower portion.
The full flounce is headed by a ruching

of silk, and trimmed with three narrow ruffies, which give additional flare at the lower edgc. Bands of
are decoratively applied.
Costumes of this kind are made nainsook, lawn, French cambric and ba-
tiste, with lace and ribbon decorations.

## LADIES' SHIRT-WAIST

Ecru and red polka-dot pongee is used for the stylish blouse illustrated, with red velvet ribbon and Persian embroidery for trimming.
It is mounted on a glove-fitting featherboned lining that closes in the center front. The back is plain across the belt, where the slight fullness is arranged in small plaits.
The closing is made in double-breasted style with garnet buttons and buttonholes worked through a box-plait that extends from shoulder to waist on the left side. Deep tucks in the waist are stitched down to form a pointed yoke, and provide becoming fullness of the bust. Narrow red velvet ribbon applied
on the edges makes an effective trimming. A plain collar of Persian embroidery left side. The puff sleeve is plain at the top and attached to the lower edge of a short fitted puff under a tuck on the end. The sleeves are very wide at the wrist, where the fullness is arranged on bands Wat match the collar.
Waists in this style are made of India
silk, taffeta, foulard, albatross and veil--ing, also linen, piqué, lawn and madras. The tucks may be finished with narrow lace, quilled, or bands of
plied between the tucks.

## LADIES' TRIPLE SKIRT

The stylish skirt illustrated is made o pale green and black polka-dot foulard,
with broad bands of black lace trimming it is made over a fitted foundation o green taffeta cut off below the knee. The lower flounce, which is of circular

shaping, is attached to the edge of this skirt, and forms the lower portion of the falling in long, graceful folds to the floor The skirt touches in front, and has a de ided sweep at the back.
The middle flounce is applied to the silk foundation on the indicated line of perforations, flaring slightly at the hem. The upper flounce is included in the belt, and fitted smoothly around the waist with small darts. It is closely adjusted. The skirt closcs invisibly at the center back in habit effect. Broad bands of lace finish each flounce. Skirts in this
style are not often becoming to figures Style are not often becoming to figures that are inclined to be stout. They are more appropriate for tall, slender women The mode may be developed in pongee, India silk, veiling, Liberty satin, grenadine, albatross or voile, and trimmed
with bands of self fabric or adorned with bands of lace, embroidery and ribbon.

## FASHION NOTES

The Leghorn is coming back again this ummer, and quite appropriate does seem with all the quaint, old-time styles that have been revived.
Cordings are newer than tuckings, and are used to finish off the hems of skirts, giving them solidity and weight, but they are difficult to co

Any of these patterns sent from this
 Collar.-The Pattern No. go4i is cut in sizes for a 34,38 and 42 inch bust measure. Instep-Lengty.-The Pattern No. 9027 is cut in sizes for a 22, 24, 26, 28, 30 and
32 inch waist measure.

##  <br> LADIES' TRIPLE SKIRT

Ladies' Negligee Toilette. - The for a 32,36 and 40 inch bust measure. for a 32, 36 and 40 inch bust measure. for a 22,
Ladies' Shirt-ivaist. - The Pattern No. 00,30 is cut in sizes for a $32,34,36,38$ nd 40 inch bust measure.
o

Macy's


The World's Original and Largest Department Store. gate floor space exceeding 24 acres, the largest buildmployees are devoted to retailing. Five thousand CUT GIATO sixty-ive departments. Boors. CuINA,






 Established 1858. R. H. MACY \&
GREATEST HOUSEHOLD NEGESSITY FREE!

## 






 Mrs. LEVI H. HA RRISON.
cost costs nfthing to try. Sont absolntely free, freight
ta:d both ways, for a trial of 30 days. No money roquired in advance.
Write at once for $\qquad$
THE 1900

## Skin Diseases

## Eczema, Salt Rheum, Pimples

Ringworm, Itch, Ivy Poison, Acne

## Hydrozone

Hydrozone is endorsed by leading physicians. It is absolutely harmless, yet most powerful healing agent. Hydrozone destroys para-
sites which cause these diseases. sites which cause these diseases.
Take no substitute and see that Take no substitute and see that
every bottle bears my signature, Trial Sizo, 25 Cents.
At Druggists or by mail, from

FREE \{ $\begin{aligned} & \text { Booklet on the rational treat- } \\ & \text { ment ordiseases sent free. }\end{aligned}$

a
PHOTO BROOCHES 10 C



 PRERE We pive one beautifiul rolled gold solitaire
 customers, Catalog free showing hundrens premiums.
GARFIELD GUM CO., Box 808, MEANVILLE, PA.



## WANTED

## FREE

TO AGEENTS complete outfit for paying
business. All protit coar, ass prepreay
charges. Full particulars by addressing
TAPE-WORM Eeato

Ir anficted witb
weake eses,
use
ne Thompson's Eye Water

GOD heavens! Edna, you cannot
love me, or you would not take love me, or you would not take
things so coolly!" exclaimed Kirk Luce, wiping the perspiration from his brow. "It is a crime for
your father to keep us apart-" "A crime? And you would have me in our family." she retorted, with spirit You should be your own mistress. An elopement under the circumstances would be no crime-would
be no shame even. The shame is with your father or standing between us-

$$
\begin{aligned}
& \text { father's action a } \\
& \text { 'I'll grant he is wron }
\end{aligned}
$$

crime," she inter No more is father's action a crime," she inter
jected, loyally. "I'll grant he is wrong. But an elope-
ment would be equally wrong, and two wrongs won't ment would be equally wrong, and two wrongs won't
make matters right. No; you must be patient. Kirk. make matters right. No; you mu
She was not angry with him because of his proposal. "Patient! Haven't I almost maternal in her tone.
the young man, bitterly. "Reasonable! Your father ly of that," Kirk added, ironically. "He lias a quarrel with my family because the old Kruble farm is divided. And now, when the first and only opportunity to re-
unite the estate is presented, he persists in his grudge. That is reason with a vengeance!
The spirited argument took place in the little grove between the farms. The full moon, reflecting a soft
radiance over rolling fields and meadows, made the summer night an ideal one. Crickets chirped in the tall grass; from a distant pond a chorus of frogs poured bass melody into the balmy air, while from a stump
"I cannot make father different. And
father," Edna Kruble said; and where first there was regret in her voice, there followed pride and loyalty,

Away back in the days when the state was yet a
arritory, the first Jeremial Kruble, then a sturdy young man of the Ethan Allen type, had worked his Erie Canal, worked his passage across Lake Erie and up the river to Detroit. Here he worked a year, mon. He husbanded his earnings, and in the dead of winter tramped inland, where he located the square mile of government land ever since known as the Kruble farm. He cleared a few acres, built a log house, put
in his crops, and the second winter went back to in his crops, and the

Two children were born to them, a son and a daughter, and between these in the course of time the
paternal acres were divided. The daughter married a paternal acres were divided. The daughter married a
shiftless, worthless fellow, who at once quarreled with his brother-in-law, refusing to sell to him the sacred acres of his father's while yet disposing of all. A part of the land he sold to a thrifty brother, Lucas the present fell into alien hands. However, Lucas Lice made purchases from year to year, always' out-now-until at last all of the sister's portion came into
his possession. Because of the brothers' action, Jeremiah, Jr., charged the whole Luce family with shabby reatment, and thenceforward allowed all the wormwood and gall of his New England inheritance to go out against them and theirs.
Thus what had been one
Thus what had been one farm came to be two, back o the neighboring city. Edna Kruble was born on the site of the early Kruble home, long since adorned by a modern house. In a severely plain house on the
other road, Kirk Luce had first seen the light two kindly neighbor hastily summoned in his mother's and enticing woodland intervened. an insurmountable wall separated them through the ill-feeling cherished by the girl's father. During all their youth Edna went
to one district school, while Kirk trudged up the other road, and turned the corner in an opposite direction, to another school two miles from the first; and it may
be said that until their college days they had scarcely seen each other. The feeling between the families was well known to the children, and in their simple minds Satan incarnat
But years are ruthless destroyers of infantile fan-
ies. As the belief in Santa Claus had gone, and the cies. As the belief in Santa Claus had gone, and the
knowledge came that one's grandfather was not the first man, but that he had had a father who had had knoweth-and as they were given an education far in advance of their parents, the two began early to see there remained enough of the flavor of forbidden fruit to make each exceedingly interesting to the other,
when at last. away at college, they met beyond the
shadow of parental frowns. The boy possessed a wellshadow of parental frowns. The boy possessed a well-
built, manly frame, was bright and intelligent, and
active in all athletic sports. He had, however. made active in all athletic sports. He had, however, made
his record at their alma mater as an orator. Edna was
the acknowledged beauty of her class. But she had the acknowledged beauty of her class. But she had
other more enduring qualities-a clear-cut faculty of
seeing the eternal fitness of seeing the eternal fitness of things, and a manner that
was simple and homely, making her altogether irresis-
tible. Standing out from their fellows so, it was well-



A Problem with a Corollary

the heart. But her next words cheered him. "I be lieve father's consent can be won if we are patient and
act right," she continued. "Throw yourself in hi way, Kirk. Compel him to know you. Overcome his prejudice. If you can't do this I shall think you lave
concluded that I'm not worth the effort-" Clucled that I'm not worth the effort-
Oh, that's you always, Edna!" he interjected, im patient of her calm reasoning, which to him pro
only a continuation of their intolerable position.

And since it ,makes you feel mean and despicable to meet me here," she added, "I shall not come again. But I shall remain true to you always, Kirk. We can continue our letters as before. No; do not fo,"
Father has forbidden you to step on his land."

Kirk would gladly have seized her then and there, ried her off, but the thing was clearly impossible There was law and order in the land, and Edna stood for these. He did seize her, though, and forced her kisses under the summer moon, but in the end was
obliged to let her go with only the repeated asurance that she would wait uintil he won her father's consent. This was the task she had put upon him from the beginning, two years since, when they had come home from college, where first their love was plighted. She had faith in his ability to win her after the most ap-
proved. conventional fashion. He had compelled her proved. conventional fashion. hime owing to the family traditions. Why should he not win her father by the same superior, manly qualities?
hirow yourself in his way." Kirk, ever thinking of the problem, repeated his sweetheart's advice many
times after that night in the grove "Surely times after that night in the grove. "Surely not to
block him?" he would question. "Compel him to know you," she had said. "Overcome his prejudice," Old Kruble was known as a public-spirited citize despite certain miserliness with which he clung to his dollars-the trait that was more to blame for the loss moreover. a shrewd partizan politician, esteemed the opinion of his neiglibors, and was conscientious in a
narrow way. Did Edna's advice mean that he Kirk narrow way. Did Edna's advice mean that he, Kirk, was to go into politics? Kruble and he belonged to
different parties. Would he not be likely to cross the old man's path, and so increase his ire? But if he could once get him on the hip, and force the consent that was so contemptuously withheld! Kirk exulted in s thought.
For twenty
For twenty years it had been the ambition of Jeremialı Kruble to prefix the title "Honorable" to
his name. Beneath his horny hide lurked considerable of the snob. It was as the head of a landed estate that he loved to think of himself, and this as much as any-
thing lad fixed his desire on the ancestral acres. He thing had fixed his desire on the ancestral acres. He saw but one way to win the title, and that was to get
himself elected to the state legislature. For two dechames he had striven with this object in view. He had held every township office. from roadmaster up. He was now chairman of the Republican committee of his district. and the "machine" regarded him as the most promising "practical politician" in that part of the county. Again and again had his name come up for nomination in the representative convention, but always to meet defeat at the hands of some rising
y.oung lawyer from the city. But after the Republicans joung lawyer from the city. But after the Republicans
had beent twice defeated at the polls, a candidate from had been twice defeated at the polls, a candidate from
the country seemed their only salvation. Thus when the nomination was no longer equivalent to an election, but rather the beginning of a sharp and bitte struggle, with doubtful promise of success, old Jer-
emiah Kruble succeeded in shaking his long-ripening plum from the political tree.
The Democrat who had twice led his party to rictory was Benton Hoyt. Like Kruble, he was a farmer, and given his friends to understand unlike Kruble, who had do him. Hoyt was not even satisfied with two, but was pushing his name for a second renomination. Men of his political faith, long out of office, were
clamoring to have the good things passed around clamoring to have the good things passed around
so while Hoyt's election was generally conceded renominated, it was believed the party would make its usual blunder and put up some less popular man.
stion resolved upon the defeat of Hoyt at any price Inction resolved upon the defeat of Hoyt at any price. as peculiarly embodying the elements which promised success to their scheme. He was young, and a farmer. He was a state-university graduate, a fine speaker, and though radical in his views, was yet very popular
lent his doubtful, however, whether Kirk would have had it not been for his love-affair with Edna Kruble. There is nothing so illusive as motives which determine one's action. As Kirk listened to the committee which waited upon him, he reflected that Edna's fathe would be his opponent on the ticket if he succeeded in defeating Hoyt. Ever since old Kruble had so per emptorily refused him his daughter's hand, young Luce had longed for a situation that would permit him to wrest the girl from her obstinate parent. Was not
here the germ of such a situation? His ideas were chaotic, but in the very chaos his eager heart found hope. He told the committee he hould think about the made him a pleasant The situation certainly had its
maturing, horrified Kirk with the idea that he had entertained a thought of selling out his party to old Kruble and obtaining as reward the fair Edna. What else could it mean? He was convinced that the reKruble. The old man would conpass heaven and eartl to realize his long-cherished, long-frustrated ambition, and why not give him his daughter?

While Kirk reflected on his moral weakness, the dis-
nolled faction was at work. Hoyt was defeated, and
the young man's name duly appcared on
his party's ticket for legislative honors. moved in the main by splendid ideals. His one vulnerable point was his love
for Edna Kruble. However, having rec-
ognized the temptation to which he had gielded, subconsciously, at least, he
yat the energy of his young manhood, determined to win back his self-respect if possible. No one ever "Compel him to know you," Edna had said; and this he did in a way that for a time spread consternation in the other camp, while, as Kirk sadly thought, it made it more and nore impossible for him ever to win the girl. The contest from the start became one of prin-
ciple and honor with him; and Kirk, a radical, never stopped at half-way measures.
dood his foot in it like that for?" fool want to go, and put his foot in it like that for?" exclaimed "Billy"
Mandle, when he heard the reply his candidate made to the anti-saloon committee. "The fight had made to the anti-saloon committee. "The fight was
ours. We had them on the run. That speech of his at Annathens was a corker! But now he's kicked it all over. Kruble met the saloon men secretly last night, and they are satisfied. To-day he'll meet this he'll say. He'll point to his lon tell you now what servant. He'll be sure to refer to the church of which I am a humble member. And, friends,' he'll say, 'r've always worked, and always shall work, for the best
moral interests of this community. moral interests of this community.' Kruble is a politician. And what have we? A kid in kilts!
Dan Karkeaul smiled cola

Dan Karkeaut smiled complacently when he heard of the dilemma into which Luce had plunged his party; Danl was at the head of the Republican machine. That's what they get for putting up a fellow who is (.They're always unpractical-gushing theopies and bubbling ideals. He'd ought to be a Sunday-scliool worker. But I'm not kicking. We were in a pretty deep lole, and. he's helped us out-and jumped in made himself solid with the whisky vote, and he'll get his share of the 'goody-goodies' in spite of Luce's glowing phrases.

Indeed. the liquer question took the leading part in that campaign. A constitutional amendment prohibiting the traffic was hoped for by the temperance people, being interested in the movement. Jeremiah Kruble's mother, the bride from Vermont, was still living, sweet-faced, white-haired woman of more than four-
score years. She knew her son's long-cherished leg score years. She knew her son's long-cherished leg
islative ambition, and rejoiced in the prospect of it islative ambition, and rejoiced in the prospect of its
speedy fulfilment; but more than all else, she was happy in the thought that Jeremiah would strike that hydra-headed monster, the liquor traffic, a deadly blow, "Mother is getting too excited over the election, Jeremiah said to his wife one day. "Im arraid she" papers to read. Keep the 'Jeffersonian' out of her sight, at least. It's printing a lot of lies about me. And the 'White Ribboner,' too. I'm afraid that excites her. ordered the 'Jeffersonian' stopped. I don't see why, Edna." his wife inter

Edna? It's young Luce's doings! Confound his impudence!" exclaimed Kruble, clenching his fists.
"He wants her to read his pretty speeches. He's still "He wants her to read his pretty speeches. He's still
after her. But I swear he sha'n't have her. They may write to each other till doomsday, but if he ever dark ens my door again-

He ain t been here, Jerry, since that one time," the sudden anger. "I don't believe Edna cares for hime as she did," she continued. "I never hear her speak of Luce ain't likely to beat you, is he?
"Well, not if I know myself," returned her husband doggedly. "I'm worried about nother, if anything," and not that an undesirable position seemed force upon him by the attitude of his opponent. "I ought not to have any of the cares here, he continued. It seems to me I have enough else to bother about.
Helen, I wish you'd see that mother doesn't have any thing to excite her. I brought home some stor books to-day. Have her read those. and get her mind off other things-papers. politics and such.'
A copy of the "Jeffiersonian" lay on the stand at his himself that the glance at the yellow label, satisfying crumpled the sheat in his fist, apd door, cast it upon the flames. The "White Ribbon lay next. but he had not the The to burn thater was his mother's paper, and therefore sacred. But carried it to a dark corner of his desk, from which h prought thad star

Though Grandma Kruble read the story-books so the same thoughtfulness lieu of the papers which with still all echoes of the her son skiliflly misiaid, from her. Some boys of the neigntorlood not be kept fence before the house one day, and shouted, lustil "Beer bought him! Beer bought him! Whisky-barrel Whisky-barrel!"
them improvised
"Oh, the city men of liquors
"What's that boy saying?" demanded grandma, drawn from the pages of one of E. P. Roe's novels son in connection with the pending campaign; but son in connection with the pending campaign; but ing would do but the late-neglected "White Ribboners. Edna, quite ignorant that they had been studious "mislaid," hunted them out, and brought a pile, which slie deposited near the old lady's chair. She had her reward at once, for on opening the first sheet, grandma cried, "Why, Edna dear, see what a pretty senti-
guileless way of speaking of Kirk when alone with he
granddaughter. She had never quite approved of he son's attitude toward the Luces, though she freely ad me convinced that Kirk was all right, and not at all like his uncle-as Edna insisted he was not-she would old acres was unch finer than Jeremiah's. It was the land her husband had cleared and worked during his best days, and gladly would she see it come back into the family if it brought no unhappiness with 1 .

Listen!" she commanded Edna, and read in her wee, low voice from the bold-raced type at the hea nineteenth century, the liquor traffic will be to the twentieth; and in the coming struggle I'd rather be Garrison than a Clay"-Kirk Luce before the anti saloon committee. Now isn't that fine? There can father or Kirk Luce is elected. But I do wish it had been Jeremiah who said that. It is so noble! But what's this?"' Surprise, doubt and pain all came rushwith emotion she read from the same bold type "'Be ore voting for Jeremiah Kruble, ask him what prom support him to a man!'

Before she had finished, Jeremiah himself entered "Oh,
ottering to her feet and holding toward him the fate ful record.

Now, mother, don't excite yourself," began Jer emiah, flushing painfully, for the thing he had so dreaded seemed imminent. He had an active mind, however, and it worked swiftly to save, him. "You are
well enough acquainted with politics," he began, "to know that all is done that can be done to besmirch a nan's character when he's up for olfce. I hoped you 'they are so filled with lies. But now I suppose you'l have to know all." For a moment he was impatient then he changed his tone to one of injured innocence It was too bad his mother should doubt him. "Of
course you've read, too, how I've foreclosed on the

But she would not let him go on. "Do you mean Sallie Archer's, Jeremiah? Do they tell such stories?" she asked, ready to snatch anything which promised mains Sallie's in fact. The property is yours only in name. You have never asked her one penny of rent," she went up the taxes and put repairs on the house. It' better for her than when she held the title!'

But your political enemies don't tell that part of your history," returned Jeremiah, glad to lead he "Has Kirk Luce circulated such stories, then?" groaned the white-haired old lady, and her eyes instinctively passed to Edna as she spoke

No, grandma, he hasn't," replied the girl, firmly
she expected forthwith a storm from her father.
action. "Neither Kirk nor I am to blame for all that our followers put forth," he said, and the words seemed almost a defense of Edna's lover. That they were a salve to Kruble's sorely troubled conscience could not
be known. The manly conduct of his opponent had jecome a constant rebuke. More than one follo him that very day how Kirk had scored his follower in his speech the evening before, stepping from his
path to set right the Sallie Archer story. Jeremiah did not repeat this to his family, but he had already done a great deal in those words which linked himself with Kirk. By skilful mancuvering he had accomplished his purpose, however, and drawn them from thin ice that covered his political muddy water

Jeremiah never knew when all might be reveale to his sainted mother, whose high opinion he revered despite the fact of having deliberately placed it in jeopardy. Between her and Edna was some secret
bond of sympathy, as he realized, and his daughter's perfect poise through this trying period led him to suspect that she knew of his unholy alliance, and merely waited the right moment to use the knowledge to gain her own ends. Having been guilty of craft even to his daughter.
ut he was capable of finer feeling as well, and when the campaign closed with victory perching on his had so much feared, he was in a mood for furthe concession, especially when such concession promised relief to his troubled spirit. Puritan blood dominated in his veins, and where that flows there can be no trespassing upon conscience without paying the full
penalty. Jeremiah, it is trite, had the satisfaction of receiving "his mail from the rural postman with the life had he felt less honorable than nower in all his life had he felt less honorable than now. As the day wed traffic ide to haunt him more and more discredcame to haunt him more and more. Thos publicly fulfilled at the capital. How could he hope element in an alert and respected public? The stand his opponent had taken during the campaign now presented itself as that purity of action which alone can give eternal satisfaction. Kirk Luce must possess this satisfaction in spite of his defeat, thought Jeremia Kruble; and for once he envied the young man. toward that person, and the next time the memberelect passed Kirk Luce on the streets of Annathens he gave him a tentative bow. It was significant, as it was, as being the first friendly recognition that
had ever passed between them. It might have served as the patronizing nod of the victor to the vanquished, but it was in reality an involuntary tribute paid by an

The incident happened in the lower town, and the one leading by the Kruble farm. The sleighing was good, and he drove his horse at a brisk pace. He
had not noticed the occupant of the cutter which
turned into the road ahead of him, but a moment late
he wondered who it could be, for the horse seemed he wondered who it could be, for the horse seemed
much faster than his own. Indeed, the space between mucm grew steadily until it had widened from fifty fee to a hundred yards. Then something happened. Kirk was watching his own horse, and did not know just what. The next instant he had overtaken the other struggling from a snowbank. The road had swerve suddenly to dodge a huge maple, and in making th turn his horse had lost its footing and plunged with tremendous force against the tree. sleigh. "Are you hurt?" he questioned, slipping th traces from the whiffletree that the prostrate animal might rise. sonal feeling in his tone. He saw what the young man had not-that his horse would never rise again The shock had broken its neck.,
'Cact was the fact was pointed out to him. "What will you do? he asked, inanely. Then his senses came to him. "G We can fasten your cutter back of mine. It will trail all right. I fear you have been more shocked than you recognize now.

Old Kruble murmured something which was hardly The day was bitterly cold. If not dazed, Teremia somewhat embarrassed. If not dazed, Jeremia tongue, and repeated with pointless detail his las thoughts and impressions preceding the accident Owing to the trailing cutter, they were obliged to drive
slow, and both were quite chilled when they reached slow, and both w

Jeremiah could do no less than ask the young man to come in and warm himself before going on. In
giving the invitation he was conscious of two impresgiving the invitation he was conscious of two impres
sions, both of which gave him satisfaction. First, Edna was away from home. Second, she would hear of the matter on her return. Battling with his conscience, as he had of late, the strength of older ancould be done without open concession, he was read to yield much to his daughter for sparing him, as h fancied she had, during the recent campaign. He was not ready to hand Edna over to her lover, but he was
willing to do a great deal if it would insure him the respect of the better element in his district of which Kirk had come to be the keystone in his mind. His future course might be the cause of a great moral shoc
Kirk's presence in the Unpleasant personal matters were ignored, and surprise and excitement allowed to gather only abou a warm welcome for the young man, and the two cat ried on most of the conversation during his short stay ried on want to tell you-Mr. Luce-", She hesitated when it came to the name, Owing to family connections, he was called "Kirk" in the rare instances when mentioned at all. "I want to tell you how much enjoyed your noble sentiment during the campaign," she repeated. "It assured me that whoever was elected,
our district would be represented by a strong temperance man.'

Jeremiah left the little group about the stove, and went to the white fields into the state's legislative-halls. There he finger of scorn from all whose opinions he held most dear. It was a reverie kindly broken when Kirk rose passage to the. Kruble followed him through the acknowle tront door, making some stum
"I shall go to Lansing next week," he said at the last moment. "I have a measure-my good-roads bill. You have perhaps heard of it. I should like your
opinion-and assistance-some evening-if you can come here-
"Thank you, Mr. Kruble. I shall be glad to do so," for New Year's night

Kirk did not know what had caused the change in the old man's attitnde toward him, but it was none the words on that summer night six months ago, and gave her credit for great prescience and insight into char acter. He wondered if Edna would return from he visit before the night of his engagement. He woul Never had he felt the Christmas cheer, the good-wil toward men, as now.
cold, dark passage. Though they scarcely spoke above a whisper, their greeting was warm enough to tha the icy atmosphere of a much more frigid region. She took his hat and overcoat, and then pushed him toward the library, where her father was waiting Kirk has little remembrance of what he said or did that evening. What mattered it to him if Michigan His own feet seemed promised a path through azure skies, paved with clouds of purple and gold. Howeve he bore himself with credit, and kept his mind upo Indeed, Kruble as well as, or betestion at the las that puzzled Kirk not a little at the time, being apropos of nothing so far as he could see. The final word had been said on the good-roads subject, and Kirk had risen to take his leave, but old Kruble kept his chair apparently deep in thought. The lamp threw its light on his face, making it look paler above his heavy beard
than it really was. However, the smoothly shaven lip than it really was. However, the smoothly shaven much of the tense workings of the mind within. With marred the desk before him. "Do yout believe a bad promise is better broken than kept?" he asked.
tioning wonder, but the other was too absorbed to note the tone. "Certainly!" he replied, with assurance. The old man's head nodded in slow, measured Then suddenly he burst forth, "Good-night, Luce!
missed with short ceremony. But when he met Edna the hall she amply made up for her father's lack. o call frequently, and so was present the evening after the "You expressed more finely on the liquor bill during the campaign," Grandma Kruble said, as she warmly shook the young man's hand, "but my son has cast the vote that was so much needed to make
the law. Honors are even between you, and I am very happy to-night."
Kirk prayed that
Kirk prayed that she might never know of the talk going on in the city; of the curses drunk in a score of
resorts to the member from that district for his bad faith. "Curse the man! I thought we had him sure," Luce had heard Karkeaul declare.
Kirk was very happy

Kirk was very happy, too. He told Edna of the letadvantage of their good-roads discussion to write to advantage of their good-roads discussion to write to him, qualifying certain statements he had made at things. He declared, quite needlessly, that he should not again represent their district at Lansing, but he generously expressed a hope that Kirk might seek and win a renomination from his party.

That was lovely of father!" the girl declared.
willing that Representative Kruble's daughter should become Representative Luce's wife." daughter
"Oh, he won't make us wait for that!" she retorted, prettily; and thereby added proof of her prescience, as
was subsequently demonstrated.

## THE WINNING OF CASSIA

## by Frank h. Sweer

DEacon White had many customers among the
wealthy residents of Savannah, and to-day as wealthy residents of Savannah, and to-day, as
he went from house to house, he was especially
jubilant, for trade was good, By the middle of ernoon he had sold the last chicken and turned his mule's head toward home, his pockets heavy with the silver they had brought. As he turned, a figure which had kept within a block or two of him all he ostensible object of selling the same houses with which an impossible value had been placed, turned also, but entered another street, and returned home by a different route.
Late that eveni
Late that evening, as Deacon White was sitting upon his front porch, gloating over the profits of the
day, he heard a quick, firm step, and looked up to see Micky, a young neighbor, enter the yard.
"Glad you come. I done git mighty tired sellin' all "Glad you come. I done git' mighty tired sellin' all
dem chickens; if 'twa'n't fo' dat I been brung yo
money. Ise done paid Mist' Williams an' Mist' money.

## Dat all right. How dey sell?"

"'Mazin' good; done sell ebery one.' Here, take Now cents make fo'teen dollah; an' ten per cen' off leabes-leabes-er, jes' twelve dollah an' sixty cents. Yes, dat's ight. Here's yo' money.
Micky took the money, and slipped it into his "How much did Mist' Williams an' Mist' Buckler The old man threw up his, hands indignantly "Jes' de same, ob co'se," he snorted. "You ain' anndder pusson's fo', anudder price, is ,you? No, sah!" Micky drummed upon his knee with his fingers "I been in city mahse'f to-day," he announced presently. "You see, I 'lowed on gittin' a book to stud,
an' I hab, two mo' chickens dat's plenty big to sell,"
es, observed the Deacon, pleasantly; an so
done swap de chickens fo' de book. But what is hit you gwine study, Micky?" hen I take mah chickens to a De funny part was dat dey jes' buy a dozen pair fo' fifty cents a pair, an' de nex' house dey done buy jes' de same, an 'de nex an' de ahead, dat splains hit. I was been tryin' to sell at jes' de same houses you done sell at. But when I t'inks,
hit ober, I 'lows I better keep right on dataway, fo' you had sperience in sellin'; so I jes' keeps, roun' atter yout till you done sol' de las' chicken. An' Ise mighty,
glad dat none ain' fotch less den fifty cents a pair, an' some go high as sixty,"
There was a long silence, then a husky "What you gwine do "Oh, nuffint," said Micky, placidly. "Ise gwine be yo' son-in-law, an' I ain' car' to hab disputionin' in de
fambly. Now, don' you git mad," as the Deacon rose stormily to his feet. 'se le Mixin' Williams an' Mist' o' you. S'pose I go tell Mist' Williams an' Mist'
Buckler, an' some ob dem tudder folks you done tradan' a rail, an' mos' likely somebody be run out ob de keep her from feelin' bad. Ain' you see all dat?"'

## keep her from feelin' bad. Ain' you see The Deacon sank heavily into his seat.

"You been mighty smart," he sneered. "Now what you "Iwine make me do?" $\begin{gathered}\text { I } \\ \text { ain', gwine make you do nuffin', Deacon. Ise }\end{gathered}$ jes' 'visin, IIne Ise you, I'd goo an fix 'tings wid Mise
Williams an' Mist' Buckler-you needn' tell eberyt'ing, but see dey all gits dere money. Den tell Cassia
she bes' marry dat nice young man, Micky, who's de git-aheadedes' man, roun', an' who gwine be de fines'
kin', ob gen'leman," grinning affably. 'An' long ob de es I reckon, I'd pay him what you owe him on de chickens, an' on de taters you sol ${ }^{\prime}$ las' , week. He
gwine need hit now to fix up fo' de weddin'. Ann'-an' The Deacon's only answer was an explosive snort, which could not be formed into words. But he drew
out a roll of bills, part of which he counted, and gave out Micky. Thic young man rose to his feet.
mighty good frien's, I s see. Now I reckon I bettcr be
roun' an' fin' Cassia, an" make up 'bout de weddin',"

## 6 Silver-Plated Teaspoons

and Farm and Fireside the remainder of this year, for only

## 60 cents

Or, Given FREE for THREE yearly subscriptions to the Farm and Fire side at 35 cents each

set No. 60 -Cut shows the ACIUAL SIZE
Nickel-Silver Base, whe tase is solid nickel-silver, which is white all the way
through positively will wot change color through, positively will not change color
nor rust, and will wear for a lifetime. nor rust, and will wear for a lifetime.
It is the highest grade known, being full It is the highest grade known, being full
twenty-fiveper-cent nickel.
Coin-Silver Plate $\begin{gathered}\text { On top of this } \\ \text { nickel-silver base }\end{gathered}$ is plated the full STANDARD amount of pure coin-silker. This combination makes a ware which we guarantee to
give satistaction Test it give satisfaction, Test it, and if not
found exactly as described, return it to Iound exactly as described, retur
us and we will refund the mones:
Initial Letter Each spoon is engraved initial letter in Old English. Only one initial letter in Old English. Only one

letter on a piece. Be sure to name the | letter on a p paid |
| :--- |
| initial desired |

Pattern We have the spoons in two beautiful patterns, No. 60 and No. 14. You caln make your choice of
pattern. Where no choice is named we patternil Where no choice is named we
will fill orders with our selection. We
. ${ }^{2}$. also restrve the privilege of substituting also restrve the privitege of shustiuply in
one pattern for the other if the supply in one pattern for the other if thausted. We
any particular initial is exhaust can thus fill all orders the same day they reach us. It is impossible to describe the beauty of these spoons, and the illus-
ration falls far short of colveying a full tration falls far short of collveying a full
didea of their attractiveness. In finish idea of their attractiveness. In
they are perfect, and will render complete satisfaction.

## GUARANTEE

We absolutely guarantee every piece
of this ware to be exactly as it is described and to give entire satisfaction or your money will be cheerfully refunded. We are sure it will please you.
(When this offer is aceppted no cash commisssion
can be allowed, and the name cannot count postage paid by us in each case

Address
FARM AND FIRESIDE Springfield, Ohio

## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. It Will Sharpen Your Wits, Quicken the Intellect, Afford Healthful Recreation, and Give Innocent Amusement and Entertainment
Residents of Springfield, Obio, are not allowed to enter the contests.

## THE GEOMETRICAL-FIGURE PUZZLE

Here are Six Pictures, Each Representing a Geometrical Figure. Can You Guess Them?

We Offer Eight Dollars Cash in Four Prizes, as follows: Two Dollars to the First Boy from Whom we Receive a Correct List; Two Dollars to the First Girl from Whom we Receive a Correct List; Two Dollars to the First Man from Whom we Receive a Correct List, and Two Dollars to the First Woman from Whom we Receive a Correct List. Contestants Must State their Ages, and Answers Must be Received Before September Ist.

## ALSO A PRIZE FOR EACH STATE AND TERRITORY

As further rewards for our great family of readers, a copy of "Gems from the Poets" will be given for the first correc list of answers received from each state and territory. This means a book for each of the forty-five states, one for each terri tory, one for the District of Columbia, also one for Canada The first correct list from each state wins a prize, giving an
equal opportunity to all our readers wherever they may be located. In the states where the cash prizes are awarded the prize book will be given to the person sending the second correct list, so that in no case will any one person receive two prizes. Answers must be addressed to the "Puzzle Editor," Farm and Fireside, Springfield, Ohio.


ONE


FOUR
ANSWERS TO PUZZLES OF JULY I5th ISSUE The Six Popular Magazines ${ }^{\text {1-Sporting Life. }}$ 2-St. Xicholas.

3-Judge. | $\begin{array}{l}\text { 2-St. Nicholas. } \\ \text { 3-Judge. } \\ \text { 6-Harper's. } \\ \text { 6-Lippincott's. }\end{array}$ |
| :--- |

The cash prizes are awarded as follows:
Man's prize, two dollars-K. Rittenhouse, State
Road, Delaware Road, Delaware
Woman's prize, two dollars-Mrs. E. A. White, Woman's prize, two
Montgomery, Alabama.
Girl's prize, two dollars-Minnie L. Barry, Toronto Canada.
Coy'sprize, two dollars-Johnnie S. Vestal, Waldo,
Arkansas.
A consolation prize, "Picturesque Philippines," is awarded the following persons for sending in the fir orrect list of answers from their respective stat Alabama-Mrs. R. W. Parham, Shoalford.
Arizona-Mrs. Fred. R. Birdsall, Ash Fork. Arizona-Mrs. Fred. R. Birdsall, Ash Fork.
Canada-Henry Hunwick, Byron, Ontario. Canada-Henry Hunwick, Byron,
Colorado-Freda Huntley, Flagler. Connecticut-Mrs. G. A.. Hitchcock, Cheshire. Delaware-Mrs. Wm. G. Barto, Warwick. District of Columbia-J. S. Swan, Washington. Florida-Mrs. Arthur M. Pellett, Daytona. Illinois-Annabel Gallear, Chicago.
Indiana-Elmira Case, Marion.
Iowa-Mrs. R. H. Lowe, Baldwin.
Kansas-Myrtle Leonhard, Severance.
Kentucky-Eloise McElroy, Cynthiana
Kentucky-Eloise McElroy, Cynthiana.
Kentucky-Mrs. R. K. Bethel, Elizabethtown (omit Kentucky-Mrs. R. K. Bethel, Elizabethtown
ed from list of precious stones by inistake). Louisiana-Mirs. F. C. Salleau, New Orleans Maine-Hollis E. Rowe, Amherst.
Marvland-Johu E. Beck, Rock Hall. Maryland-Johı E. Beck, Rock Hall.
Massachusetts-George H. Hamınond, Natick Massachigan-B. L. Taylor, Charlotte.
Minnesota-Harriet E. Olive, Lesueur. Minnesota-Harriet E. Olive, Lesueur
Mississippi-S. K. Moore, Carrollton. Missouri-Mrs. John Israel, Chillicothe Montana-Dixie Ingersoll, Miles City.
Nebraska-Mrs. C. S. Eisenbise, Virgini New Hampshire-Beatrice Tasker, Manchester New Jersey-J. T. Hoffman, Elizabeth
New York-E. J. Crane, Oswego. New York-E. J. Crane, Oswego.
North Carolina-J. E. Rue, Littleto North Dakota-Alson Bubakaker, Fargo.
Ohio-Donald G. Mitchell, Zanesville. Oklahoma-Mrs. Mary E. Tunnell, Dover Pennsylvania-Osborne T. Fouche, Erie.
Rhode Island-Albertine Donon, Block Island.


TWO


FIVE

South Carolina-Mrs. J. M. Browne, Denver Tennessee-Lora E. Bishop, Powell Station. Texas-Roy M. Clark, Amarillo.
Vermont-Mrs. M. C. Bedell, Newport.
Washington-Mrs.A.L.C. Buckwalter, Davenport

## CURIOUS AND QUEER

In the Middle Ages rings blessed by the king were in the twentieth century, smiling as he reads this item, has a hare's foot snugly hid away "for luck."

- In the ancient countries special laws were enacted to regulate the exportation of figs, and from the con-
temptuous epithet flung at informers against those who evaded these lavs contes our word "sycophant."

The oldest tree in the world is said to be a grea bo, growing in Anarajapoora, Ceylon. Gautama
Buddha was in deep meditation under a bo-tree when he became endowed with his divine powers. The tree in Ceylon is said to be a branch from this tree, hence comes its name, "The Sacred Fig," or "Ficu religiosa.'
Smallpox is an ancient enemy of the race, and unnumbered hosts of men have spent their lives in a study of its deadly power. Rhazes, a Persian, was one of the first Arabs to treat the subject of medicine in a compreherisive way. It was he who first
described smallpox accurately. He lived in the tenth cestury after Christ.

We think we are very wise in this generation, yet it is less than three hundred years since oue Richard Verstegan wrote in all good faitb the following ex planation of the fabled werwolf: "The werewolves
are certayne sorcerers, who having annoyuted their bodies with an oyntment which they make by the instinct of the devill, and putting on a certayne inchanted girdle, doe not onely unto the view of others seeme as wolves, but to their own thinking have both the shape and nature of wolves so long as they weare
the said girdle. And they do dispose themselves as rery wolves, in wourrying and killing, and most o humane creatures." The French form of the wer wolf was the "loup-garou."
Now and then when reading fiction we note the mention of poison-rings. Their history is interesting.
They were used in classical tines. The "anello della morte," a V'enetian invention, was used as an instrument of murder. A jewel in a ring was held in


THREE


SIX
bezel was most elaborate in design, and concealed a spring which communicated with a receptacle containing poison. In the simple act of shaking hands a fatal scratch could be given. Hannibal killed himself by such a ring, and Pliny records that after Crassus had stolen the gold treasure from under the
throne of Capitoline, Jupiter, the guardian of the shrine, in despair used his poison-ring effectively against himself.

Students of English law are familiar with the "deodand." In 1846 the law concerning deodands became null and void, but an interest still attaches to personal chattel (any animal or thing), which on account of its having caused the death of a human being was forfeited to God-that is to say, his repre-
sentative, the king-for pious uses. This is an odd sentative, the king-for pious uses. This is an odd
recognition of the total depravity of inanimate things. Some curious legal decisions grew out of his odd law. If death was caused by a fall from a cart or horse at rest, the chattel became deodand only the victim was an adult! If a man came to his death by a vessel at rest, the cargo was not deodand;
if the vessel was sailing, hull and cargo both were forfeited. Perlaps a similar law would not be unwholesome in these days of accidents on palace cars, teamboats, automobiles and balloons. A. M. S.

## THE TREASURE-TROVE

An Irisluman and a Scotchman, digging together in they were about to divide them, the Scotchman, who was of an avaricious turn, conceived a plan to outwit the Irishman and secure the whole for himself. He therefore proposed to the Irishnian that if, "ithout
askiug any question, he could name the exact number of coins he should take the whole; if he failed, the other should take all. The 1 rishman readily agreed, and counted the money, taking special care hat the Scotchunan should not see how muc
"Now add 666 to it," said the Scotchman.
"Now add 666 to it," said the
"Done," replied the Irishman.
"Now", ye'll maybe subtract the whole amount from 999."
"Done a
"Done again," replied the Irishnan; "but the divil a bit are ye nearer!" "Bide a wee," said the Scotchmanl. "Now jist pit,
down 333, and tak' awa' the last figures from it, and yelll no be far off the tottle of the bit money." "somebody o' Moses!" exclaimed the Irishnan, sonebody must have tould ye;" and the Scotchm
walked off with the treasure-trove accordingly. How did the Scotchman get at the right total?

## Wit and Humor

## HIS CHOICE

ITis told of the late Senator Matt Carpenter that one day while chatting
with friends in a committee-room with friends in a committee-room
the conversation turned on the relative merits of religious sects. Nearly every member of the party belonged to some church, and there had been an an-
imated discussion, Senator Carpenter pacing up and down, listening intently enough, but saying not a word.
"What church do you belong to, Carpenter?", asked one.
"Why don't yong to any."
Why don't you join one?
"I don't, want to. None exactly suits my views."
What one would you join if you were "The Catholic, by all means"
"And why the Catholic?"
"Because they have a purgatory, and that's a motion for a new trial."-The Omaha Bee.

## THE BRIDEGROOM EXPLAINED

During the night the ship on which the bridal couple were taking their honeymoon trip entered a thick bank of fog on deck, the vessel was proceeding at a snail's pace, and from the gloom ahead reverberated the hoarse warning of the fog-horn.
"Why don't they make the boat go faster, dearie?" asked the bride, looking into her husband's face with eyes which human knowledge was centered in his head. "Why, my angel, don't you hear that You'don't suppose the captain wants to be run over, do you?"-Judge.

## CHANCE TO ENJOY THEMSELVES

William's table-manners were notoriously bad-so bad that he was facetiously accused of spoiling the manners He gripped his fork as though afraid it was 'going to get away from him, and he used it like a hay-fork. Reproaches and entreaties were in vain. His big sister's pleading, "Please, William, don't eat like a pig, made no impression upon him. One day William and his bosom friend, a small neighbor, dined alone, and Will-
iam was heard to say, in a tone of great
" Most o' these here advertisements is jest lies," gravely observed Silas Perkins, of crackers.
"Oh, I dunno," commented Mr. Meda prune. "I dunno. Last fall I bought

"We collected a hunderd dollahs at our church las' Sunday fo'
"Dat's jes' mah luck. I done got converted two weeks ago."
hat from a feller in the city that had a advertisement in the paper that said the hats we'd take advantage o' his marvelous we d, take advantage o his marvelous Here Mr. Meddergrass meditatively chewed the prune, until Mr. Perkins broke the silence with "Well?". Perkins
"Well, it didn't last long, that's all."-What-to-eat.

## USED TO IT

Visitor-"S you were
starving?",
Mariner-"Yes, mum; an' I had ter eat
a whisk-broom, an' the sawdust out o' a
Visitor-"It must have been a terrible thing to have to eat such stuff."


Mr. Soulsave-"Don't you know you oughtn't to be fishing here on the Sabbath ?".
satisfaction, as he planted both elbows on the table, "Say, Harry, they's nobody here but us.' Let's eat like hogs, and enjoy
ourselves."-Caroline Lockhart, in Lippincott's.

## COMPULSORY TEMPERANCE

## Casey

Costigan-"How do yez know thot?"
Casey-"He ain't dhrinkin","-Judge.

Mariner-"Not so bad, mum. Yer see had been used ter eatin' health-foods." -Chicago News.

## PUZZLED

The other day a little red-faced Irish man approached a post-office which had three letter-boxes outside. One was labeled "City", another "Domestic," and three in turn, and then, as a puzzled ex-
ression crossed his face, scratched his ead. "Faith," he was heard to mutter letther. Shure, Katie's a domeshtic, an letther. Shure, Katie's a domeshtic, an She lives in th city all right, an she's a how th' thing can go in both iv th' three holes at wance."-Columbia Jester.

Sick Made Well Weak Made Strong
Marvelous Elixir of Life Discov. ered by Famous Doctor-Scientist that Cures Every Known Ailment

Wonderful Cures Are Effected That Seem Like Miracles PerformedThe Secret of Long Life of Olden Times Revived

The Remedy is Free to All Who Send Name and Address
After years of patient study and delving into the dusty record of the past, as well as following modern experiments in the realms of medical Building Fort Was Winam Kida, 122 Baltes ling announcement that he has surely discovered the elixir of life. That be is able with the aid of a mysterious :compound, known only to


DR. JAMES WILLIAM KIDD
himself, produced as a result of the years he has spent in searching for this precious life-giving oon, to cure any and every disease that is known the human body. There is no doubt of the dotr's earnestness in making his claim, and the to bear him out very strongly. His theory which he advauces is one of reason and based on sound experience in a medical practice of many years. tu costs noting to try his remarkable "Elixir of one who is a sufferer, in sufficient quantities cono is a subility to cure so quancities 80 lutely no risk to run some of the cures cited are very remarkable, and but for reliable witnesses would hardly be credited. The lame have thrown away crutches and walked about after two or three trials of the remedy. The sick, given up by home doctors, have been restored to their families and friends in perfect health. Rheumatism, neuralgia, stomach, heart, liver, kidney, blood and skin diseases and bladder troubles disappear as by magic. Headaches, backaches, nervousness, fevers, consumption, coughs, colds, asthma, catarrh, bronchitis and all affections of the throat, lungs or any vital organs are easily overPartial paralysis, gout scrofula and piles are quickly and permanently removed It purifies the entire system, blood and tissues, restores normal nerve power, circulatiou, and a state of perfect health is produced at once. To the doctor all systems are alike and equally affected by this great "Elixir of Life." Send for the remedy to-day. It is free to every sufferer. State what you want to be cured of, and the sure remedy for it will be sent you free by return mail.
GRAY HAIR RESTORED



Halr Staln will give

Halr Staln will giv
than alt the hair rem

Merito we will send ample sotil postpaid for 20e.
PACIFIC TRADING co., Dist. Oflce 2R, St, Louls, Mo.


Hay Fever and Asthma




## FARM AND FIRESIDE GIVES FIVE THOUSAND DOLLARS

to 225 subscribers in cash prizes aggregating an exact total of five thousand and nine dollars for the nearest correct estimates in the

## IMMIGRATION CONTEST

As previously advertised, the publishers of Farm and Fireside announce the result of the great Five Thousand Dollar Immigration Contest, and give the names and addresses of the successful contestants. They take this opportunity of extending congratulations to the fortunate subscribers, and sincerely thank all for the interest shown, and will, during the coming year, make Farir and Fireside greater and better in every way than ever before, and make it of extraordinary value, benefit and interest to every one interested in agriculture and to every member of the family.


JESSE BLACKBURN, Normal, Illinois, whose es. timate,
prize, Twenty-five Hundred Dollars in Cash

857,046 IS THE EXACT NUMBER
of Immigrants arriving in the United States during the fiscal year ending June 30, 1903, as given by the United States Government reports. no one estimated the exact number
The educational contest on immigration inaugurated by Farm and FIRESIDE for the benefit of its readers was one of absorbing interest and national importance. The contest closed June 25, rop3. The vast multitude of Farm and Fireside readers will appreciate the efforts of the publishers of this paper in making this contest the fairest and most satis-
factory of anything of its kind ever attempted by any first-class publishingfactory of anything of its kind ever attempted by any first-class publishing-
house. The utmost care has been exercised in the conduct of this contest house. The utnost care has been exercised in the conduct of this contest
in order that absolute fairness would be given to all.

The result of this contest is based upon the
Commissioner-General, Department of Conmerce and Labor, Bureau of Immigration, WVashington, D. C., who notifies us that the exact number of "immigrants" arriving in the United States during the fiscal year (July I, 1902, to June 30 , 1903 inclusive) was

## 857,046

Numerous statements in round numbers, which were not absolutely correct, have been made by the press throughout the country. The number $(857,046)$ means "actual immigrants," people who come to this country to make it their home, and does not include "alien tourists" (visitors to this country) or "aliens in transit" or "aliens debarred." The same conditions that give 857,046 'immigrants" for this year, gave 648,743 for 1902 and 487,918 for 1901. These latter figures were given as a basis of calculation in the columns of Farm and Fireside during the contest, and the term "immigrants," as used, can convey no other meaning.
The distribution of the $\$ 5,000.00$ in cash is made in accordance with the above-named figures and conditions printed on this and the opposite page,
We herewith give the names of those who are entitled to share in the disWe herewith give the names of those who are entitled to share in the dis-
tribution of the Five Thousand Dollars in cash.


MRS. E. N. NORRIS, Valparaiso, Indiana, whose wins second prize, One Thousand Dollars in Cash

NOTE-Five Hundred Dollars was offered as an extra prize if the estimate which secured the first prize was made previous to the month of June; but as the estimate which secured first prize was made in June, no one is entitled to the extra $\$ 500.00$.

The picture of the building printed on the corner of the check below is the magnificent and beautiful home of Farmi and Fireside, the "Monarch of the Rural Press." This building as shown here was erected more than twenty-two years ago, but recently, on account of the increase in business, a large addition has been made, which is not shown. This magnificent building was built, and is owned and occupied exclusively by The Crowell Publishing Company, publishers of Farmi and Fireside, and is one of the largest and best-equipped publishing plants in the United States.

This is A FACSIMILE OF OUR CHECK FOR TWENTY-FIVE HUNDRED DOLLARS Sent to Jesse Blackburn, Normal, Illinois

These are the conditions as advertised in the Farm and Fireside during the contest:
To the one making the correct or nearest correct esti-
mate of the number of Immigrants arriving in the United States in the Fiscal Year ending June, 1903 \$2,500.00 To the second nearest.
To the fifth nearest
To the sixth nearest
To the next four nearest, $\$ 25.00$ each
To the next five nearest, $\$ 10.00$ each
To the next ten nearest, $\$ 5.00$ each
one next 200 nearest, $\$ 2.00$ each...

- In all 225 Cash Prizes, aggregating.

| $1,000.00$ |
| ---: |
| 500.00 |
| 250.00 |
| 100.00 |
| 50.00 |
| 100.00 |
| 50.00 |
| 50.00 |
| 400.00 |
| $\$ 5,000.00$ |

1. Fifty cents entitles you to the FARM AND Fireside for one year and
one estimate. You may subscribe for as many as five years in advance, to one estimate. You may subscribe for as many as five yea
and each year's subscription will entitle you to one estimate 2. You can send subscriptions at the rate of fifty cents. for each year,
with an estimate for each yearly subscription, and direct the estimate to be recorded in your name and the paper sent to a friend
will be permitted. 4. If there is a the prizes, the amount thereof will be equally divided among fhem. 5. After the receipt of the Official Certificate from the proper Govern-
ment Officials an impartial committee will award the prizes. Its award will be published in the Farmand Fireside, and the money will be dis-
tributed, and this shall be final and binding on all. tributed, and this shall be final and binding on all

CLARENCE D. SKINNER, Topeka, Kansas, whose
estimate, 857,040 , was the third nearest, and wins third prize, Five Hundred Dollars in Cash
(No one connected with our establishment, either directly or indirectly, and noone living
in Springfield or Clark County, Ohio, will be permitted to send an estimate, and
In Springfield or Clark County, Ohio, will be permitted to send an estimate, and
the entire contest will be conducted in the most tair and impartial manner possible.)

O. S. EVANS, Roxbury, Ohio, whose estimate, prize, One Hundred Dollars in Cash

## THIS IS A COMPLETE LIST OF EACH AND EVERY PRIZE=WINNER

FIRST PRIZE-\$2,500.00 Blackburn, Normal, $111 \ldots . . . .$.
SECOND PRIZE- $\$ 1,000.00$
Mrs. E. N. Norris, Valparaiso, Ind... THIRD PRIZE $\mathbf{\$ 5 0 0 . 0 0}$ Clarence D. Skinner, Topeka, Kan...
FOURTH PRIZE- $\$ 250.00$
Equally divlded between two R. T. Russell, Fort Payne, Ala... FIFTH PRIZE-- $\$ 100.00$
O. S. Evans, Roxbury, O.............. SIXTH PRIZE- $\$ 50.00$ FOOR PRIZES-\$25.00 Each A. T. Miner, Chicago, Ill............. 2 C. W. Bigler, Auburn, Ill......
3 T. B. Black, Kenton, O.......
4 I.ouis Kleimyer, Cincinnati, O. FIVE PRIZES- $\$ 10.00$ Each W. M. Jenkins, Charleston, Ill...... 857,071
I. Black, Kenton, O......... 857,019
B. Black, Kenton, O........... 857,09 ELEVEN PRIZES- $\$ 5.00$ Each Eva A. Cleveland, Manchester, Ia. C. Roach, Hillsboro Bridge, N.H. J. W. Hanway, Alexandria, M. Sanders, Dalton, Ga M. Merrylees, Wayne, Mich C. F. Clyde, Meadville, TWO HUNDRED PRIZES- $\$ 2.00$ 1 B. W. Justice, Waverly, Va....
W. E. Bailey, Harmony Grove, Jas. Fleming, Summerville, ${ }_{5}$ Mrs. E. J. Blake, Turnersfalls, M 6 Mrs. Effie L. Kemp, Harnedsville;
7 Wm . Stertzbach, Portsmouth, V $8 \mathrm{~W} . \mathrm{S}$. Atherton, Madison, Ind. ${ }^{9}$ Chas. Barrett, Saratoga, N. Y. II J. E. Danbury, Walker, Ill. I3 Wesley Zwickel, Santa Claus,
It
It O. O. Gallear, Chicago, I11.. 15 D. II. Welch, Hopedale, ${ }_{17}$ J. E. Cravens, Mora, Minn 18 H. R. Keagy, Epworth, Iowa.
19 T. D. Harris, Brooklyn, N. Y.

|  |
| :---: |



14i R. T. Russell, Fort Payne, Ala.
I4 R. R. Russell, Fort Pay
I42 T. B. Black, Kenton, O
I43 T. P. Ouarels, I43 T. P. Quarels, Abbeville,
I44 O. S. Evans, Roxbury,
I45 E. L. Wirt, Cookeville, T I45 E. L. Wirt, Cookeville, Tenn. ${ }^{\text {I4 }} 46$ S. J. Denigan, LaCrosse, Wis.. I48 F. W. Kraft, Defiance, I49 Mrs. A. F. Leelhman, Xenia, Kan.
I 50 N. P. Atkinson, Pataskala, O.. 150 N. P. Atkinson, Pataskala,
151 J. P. Thowing, Walnut Ia... ${ }_{152}$ C. W. Stewart, Plymouth, O...... I54 T. B. Black, Kenton, O 154 Jos. King, Sylvania, O.
156 E. A. Maginness, New A 156 S. A. Maginness, New Albany, Ind. 157 Kirby Steele, Bartlett, O.........
158 E. M. Smith, Burlington, Vt. 159 Eva A. Cleveland, Manchester, Ia. ${ }_{161} 62$ T. W. Bridge, Orange, Mass. 162 IV. S. Settle, Lewistown, Pa......
163 I. C. Roach, Hillsboro Bridge, N.H. 64 Milo Keck, Tamaroa, Inl...
65 John Gault, Allegheny, Pa.........
66 MIrs. M. F. Blaisdell, Franklin, Me 167 II. Williams, Morristown, Tenn.
168 R. F. McKenzie, Waverly, O........ 169 H. A. Black, Ray, O........ ${ }_{172}$ G. S. S. Pile, Blue Creek, O. 172 T. B. Black, Kenton, O............
173 J. T. Kinnan, Canal Dover, O...
174 Mrs. M. B. Lewis, Enterprise, MTis $174 \mathrm{Mrs}$. M. B. Lewis, Enterprise, MTis
I75 W. W. Wideman, Troy, S. C.....
176 John Reynolds, Greenville, S. 176 John Reynolds, Greenville,
I77 Goode \& Gordon, Elliston,
I78 S. C. Hanson, Dalton, Ga. 179 W. R. Zanson, Dalton, Ga.........
I80 S. K. Winans, Stanfordence, Utah.
Inve, N.Y. 8I Wm. Fann, Billmore, Mo.
82 T. B. Black, Kenton, O.... ${ }_{182}^{182 ~ T . ~ B . ~ D . ~ D a v i s, ~ L o n g r u n, ~}$ 184 E. M. Fasnaclit, East Hanover, Pa. I86 H. If. Crandall, Potterhill, R......
87 r. H. Gordnier, Garden Valley, Ida. 188 J. C. Goodwin, Akron, O 189 J. S. Frank, Chester, O............ I9I R. Conard, Danville, Inl........ 192 G. N. Keeling, Bellbuckic,
193 O. S. Evans, Roxbury, O. 193 H. S. Evans, Roxbury, O..........
I94 H. L. Brown, Muscotah, Kan..
T95 I. M. Sanders, Dalton, Ga...... 195 H. L. Oswald, Lexington,
197 Tas. Lconard, Gallipolis, O........
198 Mrs. Effie Kemp, Harnedsville, Pa 198 Mrs. Effie Kemp, Harnedsville,
I99 J. S. Paker, Stevensville, Pae.....
200 Mrs. Cora Caple, South Park, K 200 Mrs. Cora Caple, South Park, Ky


This is A FACSIMILE OF OUR CHECK FOR ONE THOUSAND DOLLARS Sent to Mrs. E. N. Norris, Valparaiso, Indiana.


## GROWTH OF MY PIGS WAS MARVELOUS

## lot of good money to educate a boy. thinks that if a boy can read and writ

## old place, for they all went away fo themselves a good while ago. This man

International Stock Food Co., Minneapolis, Minn.
GENTLEMEN:-1 have tested "International Stock Fo and it gave marked results in every case. I had a horse with the farcy, swollen as thick as my, gain in milk and flesh, and it caused the fine was simply marvelous.


International Stock Food Co.

## A $\$ 3000.00$ STOCK BOOḰ FREE

It CONTAINS 183 LARGE ENGRAVINGS OF HORSES, CATTLE, SHEEP, POULTRY, ETC
 this stock Book in your Library for Reference. pFIt contains a finely illustrated Veterinary Depariment that will save you Hundreds of Dollars,

$\qquad$ Act of 1862 are beginning to realize that of the dead languages. The capacity for $\qquad$
of storage from October to April is forty much better average prices than before Cold-storage If it is good policy and good states
manship to spend many thousands of dol
lars annually to keep lars annually to keep the waters of the
Mississippi River from overfowing it banks, it it equally good policy ior the
general government to aid in putting so as to render them productive. the mixing or macaroni wheat with other
kinds. The miller wants each variety scp-
 how to adjust his mill to produce
greatest quantity of the best flour.

$\qquad$
$\qquad$ one of vast importance to th
growers in the great Northwest.

## The great pork trade of the United States has been built up by governmen





PETERS
Factory Loaded Shells The Best Ammunition for Field or Trap Shooting LEAGUE"-Black Powder "IIEAL"-Smokeless $\quad$ "PREMIER"-Dense Smokelass
"REFEREE"-SomI-Smokeless "NEW VICTOR"-Smokeless "HIGH CUN"-Dense Smokeless Used by Millions Sold Everywhere HAVE YOU EVER TRIED PETERS METALLIC CARTR
HAVE RICH MELLOW.LAND.



## "Big Four"

World's Fair Route From the
Leading Cities of
Ohio, Indiana and Illinois To

## St. Louis

Write for Folders

## Warren J. Lynch <br> W. P. Deppe

 en'l Pass. Agt. Ass't

Whoe'er hath known a homeless one, That trod the earthl beneath the sun Or any sky
To listen o er the ocean foam, Without a sigh?

Though wand'ring far from humble cot, Or lowly hut and meager lot,
The home of childhood ever seems A sacred thing in thought or dreams Of girl or boy.

Should fleeting years find us afar From early home, yet like a star To all who turning the sea, To all who turning backward gaze,
It shines-oh, sacred, wisful rays It shines-oh, sacred, wistful rays!In memory

When age creeps o'er us like a sleep, And time has wrought our wrinkles deep And bent us low, The journey to its starting years, to trace Oy tho its starting-place

No altered lot, no brighter scene, No altered lot, no brighter scene,
Nor time nor circumstance, can wean The heart away;
Can wipe from mem'ry's crowded wall The cabin, mansion, hut or hall Of early day.

## Childhood's Home

By J. THOMAS HARBINE
$\qquad$ Suren $\qquad$

The vine still 'round the maple clings, The bluebird in the apple sings,
To-day as of years agone,
When life was in its dimpled dawn, Long, long ago.
Still, quiet, patiently and staid
The brindle cow awaits the maid;
The house, the rumbling mill down there, The house, the rumbling mill down th
All seem to be as once they wereIn other days.

The creek that glided 'neath the bridge, The creek that glided neath the bridge
Behind the barrn and 'round the ridge, Or who that tumble off the And breaking for the nearest bank All dripping wet?

The little games we used to play, The hiding-places in the hay,
The monster there, who never smiled Whose glory 'twas to teach the child By stinging rule.

These and the thousand other joys And pains we knew as girls and boys And though the duties of to Oft crowd the scenes of youth away,
Still back they steal.

Mid lights which 'round youth's lot were cast Are mingled shadows of the past;
The moaning yond doth softly creep O'er these lone spots where dear ones sleepn silent graves.

O mother! on whose weary head
The silver snow of time was spread,
Though resting neath the grassy hill,
We see thee, mother, see thee still, Through humid eyes.

Ah, yes, old home may be indeed
Decayed, and o'er its site the weed And brier wild
Bay rankle on from year to year, But sacred art thoul still, and dear!


FARM AND FIRESIDE
THE CROWELL PUBLISHING CO.

## offices:

$\begin{array}{ccc}147 \text { Nassau St. } & \text { SPRINGFIELD } & \text { 204 Dearhorn St. } \\ \text { NEW YORK CITY } & \text { OHIO } & \text { CHICAGO }\end{array}$

entered at the post-office at springaield, ohio,

## TERMS OF SUBSCRIPTION One Year (24 Numhers) In Cluhs, if Paid in Advance $: \quad: \quad 30$ Cents in Cents Per Year

 The ahove rates include the payment of postage by us. Allsuhscriptions commence with the issue on press when the order is received.
Subscrihers receive this paper twice a month, which is twice as
often as most other farm and poultry iournals are issued.

Payment, when sent by mall, should be made in Express or
Posthotice Nioney-orders, Bank checks or Drafts. When neither
of these can be procured, send the money in a registered letter. of these can be procured, sead the money in a registered letter
Al postmasters are requird to register letrers
quested to do so. Do no ver send checks on banks in small towns.
Silver, when sent through the mail, should be carefully wrapped
ln cloth or strong paper, so as not to wear a hole through the
envelope and get lost. Postage-stamps will be received in payment for subscriptions in
sums less than one dollar, if for every 25 cents in in stamps youadd
one one-cent stamp extra, as we must sell postage-stamps ata loss. The date on the "yellow label " shows the time to which each
subseriber has paid. Thus: Seplog3 means that the subseritition
is patd up to When money is received, the date will be changed within
four weeks, so that the label will answer for a receipt. When renewing sour sobscription do not fail to say it is a
renewal. If all
trour suble will trouble will be avoided. Also give your name and inetitals just as
nou on the yellow address label, don't chane it to some other
member of the famil. is the paper in now omin in your uife's
name, sign her name, just as ip is on label, to your letter of renelcal. Discontinuances.- Subscribers wishing their paper discontinued
should write us to that effect and pay up all arrearages. If this shoul write us to that effect and pay up all arrearages. If this
is not done, it is assumed that the subserber wishes the paper
continued and intends to pay when convenient. Always name your post-office.

## Mr. Greiner Says

Ithe Charr of Horticulture at Cornell University the popular, practical Craig follows the brilliant
Bailey, the latter now being Dean of the College Bailey, the latter now being Dean of the College
of Agriculture and Director of the Experiment Station. The horticultural end of the college is safe in Craig's care. The fruit-growers of the state
pecially pleased with his selection for the place.

The Advertising Columns of farm papers are the places to look for information where seeds, plants, im-
plements, etc., may be procured. Recently I mentioned plements, etc., may be procured. Recently I mentioned
the Van Deman. a strawberry recommended by Prof. H. L. Hutt of the G Guelph (Ont.) Experiment Farm, as better than Michel's Early. A reader asks me where
 of our leading plantsmen. Everybody who wants plants can do that. Plant-growers who have a really
good thing do not hide their light under a bushel. good thing do not hide their light under a bushel. worth advertising, it is not worth planting.

Seed Wheat and Oats.-A reader asks me for Wrices on the genuine Dawson Golden Chaff wheat and grains or the addresses of farmers who could. As I have often said, am not in the trade, and do no desire to sell plants, etc. Usually at this time, how-
ever, farmers who grow seed-grains for sale (and there ever, farmers who grow seed-grains for sale (and there
are a good many in the country) put their cards and
advertisements in the farm papers, and there is where aur friends must look for theme. The advertising col-
our
umns are frenuently as interesting and of as umns are frequently as interesting and of as much
value to the reader as the best selected and most skilvalue to the reader as the best selected and most skil-
fully edited reading matter.
Strength of Spraying-mixtures.-An "old sub-
scriber" of Douglas County, Missouri, says he has scriber" of Douglas County, Missouri, says he has
found six pounds of copper sulphate for fifty gallons found six pounds of copper sulphate for fifty gallons
of mixture too much of a good thing, and four pounds sufficient at all times. Two pounds to fifty gallons
failed to prevent black-rot in grapes, about one hunfailed to prevent black-rot in grapes, about one hun-
dred Concord vines being thus treated, while the rest of a six-acre vineyard was sprayed, with the four-
pound strength with good results. If an insecticide is
needed he adds three ounces or pound strength with good results. If an insecticide is
needed, he adds three ounces of arsenic dissolved in a
caustic-soda solution to the Bordealu mixture. The caustic-soda solution to the Bordeaux mixture. The
arsenite of lime formed is so finely divided that it does
not settle in a common knapsack sprayer while being not settle in a common knapsack sprayer while being
applied. Under ordinary conditions the best results
obtained were with a Bordeaux mixture containing obtained were with a Bordeaux mixture containing
four pounds of copper sulphate, six pounds of lime and
three ounces of arsenic to fifty gallons of water. three ounces of arsenic to fifty gallons of water.
Sode or Lime. -The same correspondent says he
should certainly prefer the lime at all times. When
lime is used, an excess of it is beneficial to the plaets should certainly prefer the lime at all times. When
lime is used, an excess of it is beneficial to the plants
treated. For many years a whitewash made of three
pounds of lime to one hundred pounds of wite treated. For many years a whitewash made of three
pounds of lime to one hundred pounds of water has
been used in Italy against downy mildew on the foliage been used in Italy againt downy mildew on the foliage
of grapes, the good effect on the leaves being rery
noticable. That part of the lime which combines with
the acid of the copper sulphate in also the acid of the copper sulphate is also just as ready to
fix any stray carbonate of ammonia that happens to be
around, as it was in Benjamin Franklin's clover-patch. around, sa it was in Benjamin Franklin's clover-patch.
Copper-hydro-oxide will do the same. The poverful
antitoxic action of an ammoniacal solution of copper antitoxic action of an ammoniacal solution of copper
carbonate is well known, yet there is no trace of sul-
phur in it. Sulphur has been found effective in pow
dery mildew, but certainly a failure in downy mitdew and grape-rot. Our friend also reports excellent re-
sults from spraying potato-vines, and even the seed sults from spraying potato-vines, and even the seed-
potatoes before planting, using the standard Bordeaux mixture. Last year, he says, he planted four thousand square yards in Early Ohios, sprayed the vines thre tines, and raised two hundred bushels of fine potatoes, good enough for the Ozark country where land like it
sells for from five dollars to ten dollers sometimes for much less. Therefore, "let us stick to the old Bordeaux mixture made with lime"

Learn How to Swin.-A week or two ago a man swimming at Olcott Beach in this county was seized with cramps, and although within twenty feet of this occurrence the New York "World" says: "Half a dozen men cannot let another drown within twenty feet
of them without incurring a certain amount of dis of them without incurring a certain amount of dis credit. If they could not swim, it merely pushes the
discredit one stage back. No man of sound body ha discredit one stage back. No man of sound body has
any excuse for not knowing how to swim, and no any excuse for not knowing how to swim, and no
woman, either, for that matter. If any boy passes the age of twelve without learning how to take care of
himself in the water, there is something wrong with himself in the water, there is something wrong with
his home training. If he reaches the age of twentyone without knowing how to look out, at a pinch, fo somebody else in addition, there is something wrong with himself." This is about right. The art of swim ming is easily acquired. because natural. Who fails to
acquire it neglects an opportunity, and will miss a good deal of sport and enjoyment, besides.

General Rules with Weeds.-A Washington reader forwards portions of a plant, which he says is a weed that started in his a sparagus-patch, and seems to be spreading. It arrived all dried up and crumbled into an unrecognizable mass, so that even a botanist
would have been unable to identify it. But it matters would have been unable to identify it. But it matters little. It comes under the general classification o
weeds and under a general rule of treatment. Wher ever you see a weed, hit it. Pull it up, cut it down, ge it out-that is the way to stop the spread of any weed Some weeds are very persistent, it is true; but we hav to pit persistency against persistency. Planting crops
which require frequent and violent stirring of the soil which require frequent and violent stirring of the soil worst weed pest. In ordinary bad cases I may plant potatoes (as, for instance, in an old hedge or fence with the keep the ground cultivated as long as possible with the ordinary cultivators, then give a more violen
reatment by using the shovel-plow, but this as an emergency tool only. This tears out the weeds in the center and chokes them out in the potato-rows. For weeds with which even this (with me) unusual resort
to the shovel-plow is insufficient, I would recommend planting late celery, to be banked with earth. The violent manipulation of the soil required for this crop will kill out any ordinary weed in the end.

The Agricultural Department an Information-BUREAU.-I have always found the officers of the Agricultural Department in Washington willing and ready o impart information, and I frequently go to them with my troubles. disease, that seems new to me and about which I want
information, I write to the Department in Washington information, I write to the Department in Washington ng to furnish frank envelopes and labels, so that we may forward specimen insects, plants or fruits without having to pay postage on them. If these things are put up carefully, so that they arrive in good condition the Department experts will identify them and tel ou all about them that is known or you may wish to know. In many cases, however, the packing is done
very unskiffully. Such things are frequently sent to very unskilfully. Such things are frequently sent to
me, and often there is nothing left of them but a me, and often there is nothing left of them but a
mashed mass or dried-up fragments perfectly unrecognizable. Insects might be put in vials and placed in ittle wooden boxes, or wrapped in cotton and then put in the wooden boxes; plants should be packed in damp moss, and wrapped first with oiled paper, then boxes or light baskets, using plenty of damp moss, etc. and on their own state experiment stations for help far more frequently than they do. These institutions are their legitimate information-bureaus.
Suffering through Ignorance.-Every effort for the protection of live stock against insect pests is praiseworthy and ceserving of a premium, but I would ished in the Middle West, who awarded the third prize to a contribution containing the following method of exterminating chicken-lice: "We shut the
chickens in their houses, and burn sulphur. Some fire
is placed in a pan or similar open vessel, and paper or other dry material is added to keep it burning, and the ther dry material is added to keep it burning, and the
sulphur is placed on this. The object is to get as much sulphur-smoke as possible. It penetrates the cracks and crevices about the house, and if strong enough will kill the lice on the fowls as well as in the house. Care must be taken not to inhale it, and the fowls must s they keep moving they are all right; but if they begin to drop off the roost, it is time to open up and give them fresh air. We keep the fire near the door, and add fuel or sulphur when needed. We keep it
burning long enough to fill the house with smoke. For best results the house needs to be reasonably tight,; e use insect-powder to keep little chicks free of lice."
If prizes had been offered for the most cruel method warded the frst to the writer of the foranid awarded the first to the writer of the foregoing parflict upon dumb brutes, and often on helpless children, ing chick advocates of the described method of fighting chicken-lice were given a foretaste of Hades and a ose of their own medicine by being shut up with the
chickens in the house thus filled with sulphur-fumes for a while, or until they were "ready to drop from
their perches." no doubt they would afterward try to discover more humane methods of accomplishing the purpose. Hen-lice are not so difficult to deal with that heroic means of this description are needed. Fumigate

## latter sufficient chances to dust themselves in dry

 ashes, lime, etc. Dust their feathers a few times during the season with insect-powder or tobacco-dust, use the hen-house, etc., and neither lice nor mites (or red spider) will give much trouble. The object can be ac omplished without cruelty and torture.
## Mr. Grundy Says

Lng Days on the Farm. -"The work is varied everlasting long hours that I object to. That here I'm done for the day." The speaker was an intelligent young man-a street-car conductor-and we were waiting at the end of his run for "time." He had left the farm the year previous, came to the city, and
after watching and waiting four months had secured after watching and waiting four months had secured
the place he was then in. He could talk about farming way that showed very clearly that he understood it all right, and that made one feel that the farm was his place, and not a street-ca

He said his strength and health were all the capital of both in return for a small wa lo let any man have all worked for called him at four o'clock in the morning and supper came at nine o'clock at night. He stood it until he could leave without breaking his contract. A home he said they generally arose at five in the mor ing. and had supper between seven and eight. He the day was a long one there, but whe He declared that such men he them still longer. necessary to properly carry on the work of the farm but farmers appeared to think they must be at it early and late to make anything. He said he would rathe live on a farm than any place in the world, and if he satisfied that he could make a good living, and more, by working ten hours a day.

Farming is the best and safest business in th world. The only drawback is the long hours, and speaker was a laboring-man who works in a lumber yard. He was a farm-hand nine years, and hoped some time to own a farm, but land climbed up beyond his ment. He never will be a farmer but he loves to tal about farming, and actually takes two agricultural papers. Farm-hands are very scarce," said he, "and wages much higher than I ever received when I so long as I can get anything else to do. The long hours are my chief objection, and besides, there is takes all kept in

The best men for farm-work-those who have been raised on farms and understand the work-have most they grow up are going. A farmer, and the boys as strapping big boys, all now in cities, said to me that he would have to quit farming because he was unable to obtain any satisfactory help. One of his boys said a father does if I had to peddle papers for a living. He used to make us boys hump when we were at home, and then we couldn't do the work to suit him. I'm glad Im out of it! Rural free delivery and the telephone will not stop the exodus of boys from methods prevail. The city laborer knows that the min ute the whistle blows his day's work is done. The boy on the farm and the hand on the farm know that the must work as long as the sun shines, then do a lot of sider the work hard," said a spirited young farm-hand "but they keep us in the field too long. We get out early, and then are not expected in until sunset. Riding a plow or cultivator is not hard work, but twelve isome" " harvest, haying-time and when rains interfere much with seeding, and the boys are well aware of this, but it is not difficult to so manage that the rush and hustle will not last the entire season. Farm life is not monotonous unless it is made so. It is not wearisome unless made so. It should be the most attractive life
one can live, and can be made so. It should be at one can live, and can be made so. It should be at-
tractive to the boys and hired men, and it can be made so. It is not "lonesome" on the farm to any person with a normal brain and open eyes. It is lonesome only to the rattlepate who is everlastingly and eternall crowd of some kind or other.

Attractive Farm Homes.-I wish I could more forcibly impress on the mind of the farmer the value of attractive surroundings. Every farm home should or fancy cottage, or expensive lawn fence to make th farm home pretty. To be sure, a neat fence, a few or naments on the house and the free use of paint help mightily, but the chief attractions can be made of tree and shrubs. A shady lawn and a shady driveway are never fail to charm. The lawn may not be kept per fectly smooth, all the trees may not be cleanly pruned yet the home place ornamented with them does not fail to convey the impression that peace and content ment dwell there. As a lady from the city said. "A pretty farm home suggests a happy birc not notice the dwelling so much as we do the sur that the interior of the house is all right and that is the abode of love and contentment and all that
makes life worth living. We look to the city for fine mansions, but to the country for pretty homes

AInterest in the use of lime on land has belast few years, as indicated by the great increase in sales quiries from readers of farm
quiries from readers of farm
papers, that it may be wise to restate as briefly as pos-
sible what is believed to be the facts about the correct use of lime for soil-improvement. A number of big lime-manufacturers are now selling their product to farmers on an extensive scale, and the profitable use of this material depends upon the intelligence of the buyers.

In this country we have large limestone sections where the stone may be burned on the farm by its owners, and in such sections some land has been in-
jured by its free use. Lime is one of the elements that are required in the growth of plants; but most soils have it in abundance as a plant-food, and the benefits derived for a timc from the excessive applica-
tions of lime burned by the farmer were due to the tions of lime burned by the farmer were due to the
stimulating effect upon the land. It was used just as if it were a manure, and temporary soil-exhaustion if it were a manure, and the modern use of lime, of which more is now being said, is entirely distinc into disrepute in some limestone regions. I do not assert that a heavy application of lime to a stiff limestone soil may not be advisable in some instances to improve physical condi tions of the soil, but our interest is in an en tirely different tuse of this material. There is an immense area of land, constantly increas ing in size, that does not grow good sods of clover and timothy, and much of this land when tested for acid shows that it contains
free acid that is harmful to most plants. Anyfree acid that is harmful to most plants. Any thing that will make a heavy down is a benefit to the soil, and plowing dearn is a that a very light application we are learning that a very light.
of lime will do this for much land.

Ground Lime.-The old way of using lime was to haul it to the field, slake it in piles, and spread with a shovel. It cost little, and
was used in harmful quantities. Such liberal use is out of the question for land remot from supplies, and also is entirely undesirable But when it comes to using a small quantity to the acre, with the old method of distributing it, there were difficulties. Years ago I
slaked it, then scattered it by hand, which was a hard task. Then I tried a fertilizer graindrill; but the slaked lime was too floury to feed well, and as it had doubled in volume by
slaking, there was a difficulty in getting a few hundred pounds to the acre.

Finally the lime-burners
Fscue, equipping themselves for grinding the stone lime, and then bagging and shipping it to, us so that we could run it through the drill before it slaked. This ground lime is more granular than the slaked, less bulky and more effective, pound for pound. One would suppose that the ground lime would slake, and burst the bags before it could be used; and in a wet season this may occur, especially
if a pure limestone is used for burning. if a pure limestone is used for burning
Many burners. however, use a magnesian Many burners, however, use a magnesian limestone that slakes lcss readily, and such
lime gives good results. Ground lime, howlime gives good results. Ground lime, howby the moisture in the air.

Amount to the Acre.-The amount to the acre that should be used depends upon the soil. I have had marked results from one
fourth of a ton, but believe that one thousand fourth of a ton, but believe that one thousand
pounds to the acre should be used by any pounds to the acre should be used by any
one testing it for his soil. It can be bought at the factory for from three dollars and fifty cents to four dollars a ton, and the addresses
of manufacturers may be found in the advertising columns of the farm papers.

How to Aprily Lime.-This use of lime is o secure a sod. The application probably should be made before the seeding is done.
If one sows timothy with wheat in the fall or clover in wheat in the spring, the lime should be applied while fitting the land for wheat. I think that it should be kept near the surface, and yet it should
be covered with earth. For these reasons the grainbe covered with earth. For these reasons the grain-
drill is a good distributer. The application can be drill is a good distributer. The application can be made at any time during the process of fitting the
ground for wheat, but preferably after the soil has ground for wheat, but

The Drill.-Some grain-drills with fertilizer attachments have too limited capacity for applying eve ground lime, though one can get the proper amount Other styles of drills are able to apply one thousand or fifteen hundred pounds. They are the ones to use, saving both trouble and expense. The sooner the lime is safely in the ground, the
slaking, and bursting of the bags.

Various Forms of Lime.- Some manufacturers are elling a granular lime at a high price, claiming peculiar merit for it. There is every probability that it is less valuable than the ground lime, because it has
been slaked, and the process of slaking adds weight been slaked, and the process of slaking adds weight,
and not value. Some of the claims are ridiculous. The need of the soil is for lime, and that is most effective, ton for ton, when fresh-burned-stone lime ground fine, to make even distribution possible.

Not a Fertilizer.-It is unwise to depend upon lime as a fertilizer. It will help the growth of crops on some land, but its use tends to soil-exhaustion ex-
cept when made to secure a good sod. It is wise to apply the usual commercial fertilizer with the wheat, depending upon the lime only as a means of getting
clover where it now fails. In some soils the lime will not do even this, but a trial of it is advisable. In the last few years there has been so great success in get-
ting clover on acid soils by these light applications that some manufacturers cannot fill their orders for lime in the fall. Any one proposing to experiment with it should get the addresses of manufacturers from the advertising columns of his paper, write to those nearest him for quotations-which should not be higher than four dollars a ton-and order at once. David.

## LAWNS ABOUT FARM HOMES

The so-called lawn around farm homes is usually a portion of the ground that has been in meadow, although too often no pretense is made of having any
lawn. It is admitted that the meadow lawn is vastly better than bare ground, but the satisfaction of having

DAVIS, THE OLD GARDENER WHO HAS BEEN IN THE
THE ROOSEVELT FAMILY ALL HIS LIFE

a grass plot from the proper mixture of seeds which - can be mowed repeatedly during the summer, and yet be green and velvety, is worth all it costs to obtain it.
On the other hand, the seeding of some meadows has On the other hand, the seeding of some meadows has
been such that with a little addition of certain seeds been such that with a little addition of certain seeds and a leveling of the space a very satisfactory lawn way to secure this is to not flat, for this is not always desirable, but free from not fat, for this is not always desirable, but free from
hills and hollows.
While this work is perhaps best done in the spring I have been quite successful with it in the fall by folI have been quite successful with it in the fall by fol-
lowing this method: Where there is a hollow or
small hill covered with a good grow small hill covered with a good growth of thick sod,
with a sharp spade the turf is cut about a foot wide with a sharp spade the turf is cut about a foot wide
and three feet or more long, the spade inserted underand three feet or more long, the spade inserted underneath, leaving the sod as thick as possible, and the
strip, rolled back. Then the hill is leveled or the holstrip, rolled back. Then the hill is leveled or the hol-
low filled in with rich soil, as the case may be, the low filled in with rich soil, as the case may be, the
strip of sod rolled back into place, and well tamped (pressed) down. If the cutting is done carefully and there will be no trouble about the grass dying out there will be no trouble about the grass dying out.
When doing this work in the fall, a plication of fine stable manure should be guite heavy application of fine stable manure should be given just
before the ground freezes, after a thin coat of good soil is sprinkled over the strip, and especially over the places where the cuts were made. This may seem to
be considerable work, but if well done we still have the heavy growth of sod, which would require several years to obtain from seed.
Of course, if
Of course, if the place for the lawn has but an
ndifferent growth of grass on it, the plan suggested will not do, for such a place should be graded, leveled, rolled and sowed to the proper mixture of grass-seed frequent mowing, but in the
country I believe a mixture
of timothy, Kentur grass and white clover will give the best results. The proportions are two pounds of white clover to ten pounds each of the timothy and blue-grass to the acre. love soil is inclined to be sandy, the amount of whitemixture seed many be increased to three pounds. This mawn hort containing none of the seeds that have but a grass period of growth during the summer. Further, mowing that is meeded by lawns composed frequent seed-mixtures usually sent out by seedsmen, although requent mowing, especially if by seedsmen, although awn-mower must be used, will not be objectionable
If one has a lawn in fairly good condition except that the grass has died out in places, or is thin, regoing over the surface with a light harrow, being care ful not to injure the roots of the grass, and scratching the soil so that seed may be sown all over the plot.
pring, I have had gooderally done in the spring, I have had good success even in my particularly when I was able to supply for a number of weeks the water needed. After seeding, the ground should be well watered and later in the fall, just before freezing, a top-dressing of fine manure should be spread rather thickly over the entire plot." In colder
sections this may be followed, after the sections this may be followed, after the plication of manure which contains consid is entirely out of the ground, the coarse portion may be removed, leaving the manure proper to help enrich the soil.
On small plots or on thin
awn one can sow grass-seed places in the time during the summer, if the plot can be kept well moistened, and get a fair growth before winter
The expense of obtaining a lawn after the plan proposed is so small that there is no reason why ever farm home should not be surrounded with a stretch of $g$
texture and rich in coloring.

## THINGS THAT FOLLOW

It is a good plan to give a thought now and then to some things that naturally grow day the floor of a barn not far from my home gave way under a little extra weight, them some ten or twelve feet below, cutting them up and otherwise injuring them. A short time before this happened I knew of a
bridge forming an approach to a basement bridge forming an approach to a basement barn dropping through, carrying down a span of horses hitched to a heavy wagon, throwing the driver many feet, breaking the wagon, these cases rotten timbers lay at the bottom hese cases rotten timbers lay at the bottom In another lin
ad farm going with a stone-boat from one field o another. In some way he slipped back rom the boat, frightening the horses, and sending them off on the run. The boy soon
lost his reins, and the team went on the gallost his reins, and the team went on the gal-
lop until they came to a rail fence. One horse jumped over the fence, the other remaining on the opposite side. Both went
down, tangled in the harness, and had to be down, tangled in the harness, and had to be cut loose. It was a bad job to get them untangled.
Now,
Now, these were things that follow other
things. I think farmers, as much as railway engineers, must constantly be on the lookout hen about their work to escape danger from such accidents as I have described. But can the best Timbers will rot, and, missteps may happen now and of us. That is true. But if everybody were now and then to take time to examine the sleepers of accidents?
The fact is
The fact is, we as farmers are not as cautious as we hould be. We leave our boys to learn for themselves instead of telling them the probable effect of careless-
ness beforehand.
It is only a short time ago that I knew of a farmer's
wife who fell from a high scaffold in a barn where shem wife who fell from a high scaffold in a barn where she was filling a bedtick. She dropped as much as fifteen seriously injurcd except the fact that she struck on a pile of straw. Now, the high scaffold was no place lor that woman, nor any other woman. She should not have been compelled to go up there to get straw
for the tick. There are men-folks who should attend oo all such things. Another woman I know of went down into a silo, and fatally injured herself by drawing her body up by her hands to get out. She died in less than three days after that. Here, too, the woman was out of her place. The man of that farm was to my knowledge a strong, able-bodied fellow, and could have done that work without hurting himself. The woman was anxious to help, and had only the best of
Then, too, thin
Then, too, think of the disasters from old guns and on the farms of this country from a great harvest other day a farmer lad near my home shot himself cleaning. If he lives, one eye, and perhaps both, will be blind. I do not think much of such weapons in the be blind. I do not think mlich of such weapons in the
hands of boys or careless men. E. L. Vincenr.

## Gardening <br> by T. GREINER

The Dusr Mulch:-All this talk of maintaining a "dust mulch" among our plants in the garden mer. The only mulch that it has been possible mer. The only mulch that it has bee,
ovide for a long time is a "mud mulch."

Packing and Shipping 'Mushrooms.-L. O., a reader in Pike County, Ill., asks about the proper way of putting muslirooms on the market. and whether freezing hurts thein. Mushrooms can be safely shipped a hundred miles or more, simply packed in small
baskets or in pasteboard boxes, and just covered so they cannot fall out. Freezing does hurt mushrooms.

Cultivating for Moisture.-We don't have to cultivate this year to preserve moisture, and we have little chance to cultivate to kill weeds. What we
would like to be able to do, however, is to cultivate to

dry out the surface of the soil. Circumstances alter cases. Prof. I. P. Robert's famous plan of growing quent use of the cultivator. How shall we manage this year to grow big crops? Let Nature have its course?
Keeping Potatoes from Sprouting.-A reader in Ward, Ohio, writes me that a few years ago he bought a bushel of Early Ohios from a neighbor for planting, look them home, and put them into an old salt-barrel. These potatoes when planted never came up. Others taken out of the barrel and planted looked wet, but otherwise nice and fresh. Our friend says the best keeper he has yet found is the Blue Vetor. Spect

Weeds a Puzzle.-It is truly a puzzle sometimes, in seasons like the present, how to get rid of the soaked soil. Sometimes they make such soaked soil. Sometimes they make such large rootafter these heavy rains that pulling up the plant mean pulling up a lot of onions or carrots or beets, or what ever it may be, with the weed. If you carry a knife,
simply cut sucli big weeds off near the surface of the simply cut sucli big weeds off near the surface of the
ground, and let the root remain. However, we ground, and let the root remain. However, we
should always try to get these weeds out of our should always try to get these weeds out
gardens before they are too large to be pulled.

Augusi the Brush Month.-To kill brush of all kinds, that spring up in pastures, hedgerows, etc., it is
often advised to cut them in August, and as some say, in the dark of the moon and when the sign is in the heart. It will probably make very little difference in done in the dark or in what other phase of the moon done ine advice to cut brush down in August is all right.
if any brush that should be cut still remains uncut when this gets into print, I would not wait a day longer than necessary, but cut them down yet. Such cutting at this time will weaken the stump and roots as much as cutting at any other time.

Fertilizer for Wheat.-D. P., Dover, Del., has fifteen acres oi white-oak land that has been in pas-
ture for about seven years, and seems rather poor. He wants to sow wheat, and would like to know what fer-
tilizer he should apply, suggesting the use of lime. The dissolved South Carolina rock-which can be had at give the best financial results. Superphosphate conhundred pounds to the acre will surely do no harm, and draw but lightly on the pocketbook in the fir
place. If you try anything, try superphosphate first.

Handing the Hoe- - I often have to show my helpers how to handle the hoe. It is queer how few
experts there are in the use of the hoe. Most people experts there are in the use of the hoe. Most people
think that all that is required of them is to scrape
across the surface, clearing it irom the top growth, and across the surface, clearing it from the top growth, and
leaving the stubs and roots in the hard surface then left. I had the rows of my currant and gooseberry
bushes and grape-vines, or rather the ridges left bushes and grape-vines, or rather the ridges left after
plowing the soil away from both sides of each row,
hoed or grubbed; but when I found that it was done simply by "scraping," I let my boy go over the whole
gain, loosening up the hard surface, digging up the on top. Really good hoeing seems a hard lesson to only hoeing worth doing or having done.

Most Profitable Autuan Crops.-C. H., Acton. Ind., a lad of sixteen summers, has obtained from his father a fraction of an acre of ground to do with as he pleases for his own benefit. The ground is very rich,
and he wants me to name the most profitable crops and he wants me to name the most profitable crops easily answered. I would raise the crop for which I were sure of finding the quickest sale at best figures. In some places this may be radishes or turnips or kale or spinach or lettuce, or possibly celery. Celery may possibly require a little more skill and a vast deal more it, it is surely one of the great money crops. Then, again. where there is sale for early green onions, one gain. Where there is sale for early green onions, one of ground planted with the hardy onions in the fall, such as Barletta. New Queen, Portugal, Beaulieu's Hardy White Winter, and possibly Prizetaker, than from a similar piece planted with anything else. The question hinges altogether on the demand for the article. Our young friend says he has not much time
to work in the garden. The growing and preparation to work in the garden. The growing and preparation of such crops for market require some tin
these must be given if success is to be assured.

Plant-protector.-Laura G. H., who lives in Illinois, sends me a model of a new patented plantprotector of her own invention. It is made of waterproof paper folded to form a square box, and held firmly together by wire clips. Fig. I shows the square piece, and the dark lines the folds. Fig. 2 shows the
box folded on one side. with wire clip attached, and one side not fully folded. The wire clips pushed down into the soil hold the box firmly over the plant or hill. Of course, a protector of this kind could be put on only during the night, as a protection against frost or cold winds, and should be removed in daytime to admit light. But why not cut out a square at the top, as shown by the dotted lines in Fig. I, thus giving a
chance for leaving the protector over the plant or hill chance for leaving the protector over the plant or hill during the day, also? A piece of mosquito-netting or as shown in Fig. 3, or a pane of glass may be placed as shown in Fig. 3, or a pane of glass may be placed kind, or like the "gold mine" plant-protector menmay be found quite useful for the protection of early tender plants, such as melon or cucumber vines, to-mato-plants, etc. I seldom use such devices, and manage to get along very well in my garden-work.

## Fruit-Growing By S. B. GREEN

ansect on Roses.-O. C., Leland, Ill. Please send me a specimen of the insect that injures your rose-bushes, and I will try to give you a good thing to know is their habits. If it is a sucking insect that is doing the damage, then we must use very different remedies than we would use if it was a biting insect. For biting insects we use such remedies as Paris green, hellebore and other poisons, while for sucking insects we use oily soaps, like whale-oil soap, or astringents, such as tobacco-water. Good examples of sucking insects are plant-lice, leaf hoppers and scales; of biting insects, potato-bug, cabbage-worm,
tent-caterpillar and cutworms. In the case of fungous tent-caterpillar and cutworms. In the case of fungous diseases there are also various methods of treatment, depending on the nature of the disease. Thus you see directions for destroying all kinds of insects and fungous diseases within the limits of these columns.

Eucalyptus.-J. W. C., Chattanooga, Tenn. There re many kinds of Eucalyptus; I think something over these are of great value for their wood, being very durable, and the wood fine-grained and susceptible of
good polish. Others are almost worthless for any-

thing but fuel. They are natives of warm climates, and know of none that will stand much frost, although a statement to the contrary has recently gone the ounds of the press. Consequently they are useless if the common varieties may be obtained from Seed of the common varietics may be obtained from J. M.
Thorburn \& Co., seedsmen, New York City. The kind generally planted is Eucalyptus globulus, which is a
very rapid-growing tree. Professor McClatchie, of Arizona, said he once knew of a tree of this variety hat grew to a diameter of eighteen inches in six years. It has very pretty light green foliage, is quite ornamental, and is used more or less by forists in their work. Recently a fine monograph on the Eucalyptus has been issued by the Bureau of Forestry of the United States Department of Agriculture, and I think it may be had on application.

Manure for Blackcaps-Pruning Currants-Strawberry-sets-Budding roses.-D. H. S.. Ionia, the roots of a blackcap would very likely destroy it,
although not necessarily so. If this was the case it at least two feet away from the bush, when the plant would have found it and used it just as well as if buried close to it.-The best way of pruning currants is of that which is old and that which is infested with borers. It is also a good plan to cut off the growth remembered that the currant wood does not bear fruit until two years old, so it will not do to depend entirely upon the new growth for fruit.-_Strawberry-sets may be taken from old vines, provided the sets are of the previous season's growth; but if by sets from old vines selves, then I should answer you that they are prac tically worth I fors farting a straw are prac The best time to bud rose-bushes is during the latter part of July or early in August, or from that time on until the growth stops. In doing the work any wellmatured buds may be used in the same way as with the peach or cherry. Our common strong-growing wild-rose stock answers very werl
the cultivated hardy varieties of roses.

Propagating from Citerry Sprouts-Russian
ulberry as Bird-food-Koonce Pear.-C. H. W., Mulberry as Bird-food-Koonce Pear.-C. H. W.,
Conneautville, Pa. Sprouts from the Montmorency cherry on budded stock would probably be the same as the stock and not like the tree itself, but one would have to use his individual judgment in determining whether the sprouts were true to name or not. In any case, sprouts irom cherry-trees are slow in getting
started, and seldom do as well as budded trees, although for severe climates I prefer them. In taking them up

you should be sure to take off a piece of the main root rom which they come. If they are broken off at the
main root they will seldom live. berry makes very sood feed for robins in strawberry and cherry time, and I think most fruit-growers would profit by having some of them around for this special purpose. I do not know whether the robins would prefer the mulberry to sweet cherries, but think they do in peference. to the sour cherries.- I am not sufficiently familiar with the Koonce pear to state whether
it would stand frost better than the Wilder Early, it would stand frost better than the
but my impression is that it is hardier.

## THE FIRE-BLIGHT

The fire-blight, while one of the most serious diseases of the pear, is much less injurious to the apple, although even here it is oftentimes of very serious importance, frequently causing dead spots on the trunks branches and twigs.

Upon the twigs its presence may be recognized by the blackening of the bark and the wilting of the leaves as though stricken by fre. In the winter the diseased twigs are the withered leaves long after the healthy leaves have fallen. Veiry great damage also often occurs to the blossoms.

The disease is caused by a germ belonging to the great group of bacteria. These germs are extremely needs proof that this is a germ disease, he may examine the diseased twigs under a microscope, and see the germs for himself. No microscope is needed, however to prove that the disease is contagious, for if one but
makes an incision in the bark of the healthy tree, and ransfers incision in the bark of the healthy tree, and eased bark from a blighted twig, he will find that the disease can be readily communicated from one twig to nother. Under ordinary conditions the disease is spread largely by insects. which vith blighte insects then fly to another twig or blossom, bearing with them the germs.

Treatment.-The remedy consists in removing and burning all of the diseased twigs. In doing this, great care should be taken to cut low enough to insure the removal of all germs. The limit of the diseased porbut it is usually best to cut a full foot below the diseased part, to avoid all possibility of leaving germs behind. It is also well to diplthe knife in a solution of carbolic acid each time, before cutting into the new twigs, otherwise perchance germs may be left on the
knife to be transferred with the next cutting to the new twig. Dipping the knife in carbolic acid precludes any such possibility.

The best time to trim for the fire-blight is in the early spring, when the fhew wood is succulent and green. At that time the leaves and young shoots af ful and thorough trimming during the early spring and summer will prevent the greater part of the blight and casual observation through the remainder of the year will hold the disease in check. In cases where lage branches are removed and much surface ex ing-ware flowers of sulphur and a few drops of carbolic acid This mixture may be applied with a paint-brush

It is a matter of common observation that trees in rich soil, which grow too rapidly, are more often af ected by the fre-blig. in such less resistent to invasion by the germ. The fire blight also affects the pear, hawthorn and service-berry blight also affects the pear, hawthorn and service-berry icate the pest.-From Bulletin No. 183 of the North Carolina Agricultural Experiment Station.
 W=w = = $=$ A

## DRY-PICKING AND PRICES

The birds sent to market should calded. it entails labor and not pense to prepare the carcasses so
ave them free of pin-feathers and make an attractive display. The disgust of such jobs will remain until practic ables the operator to periorn the
quickly. But it pays to dress the for when the prices of live fowls are
fifteen to twenty cents a pound. dressed fowls usulully bring from twenty
to twenty-five cents. or from five to ten cents more, according to quality, Five cents a pound may seem but a small difference, but when a fowl weighs th
cents to the price. Expert pick
dress a fow for five cents; but admitting
a profit. Looking at it in another light,
it may be added that when there are a
number of persons in the family the item of picking becomes a large one if there

## ECONOMY AND BREEDS

The fact that a small hen will lay as many eggs in a year as a large one is an
advantage to those who wish to keep as advantage to those who wishi to keep as
many fowls as possible in a poultryhouse. The FARM AND FIRESIDE has
never advocated crowding, advising that nore eggs will be secured from a flock with plenty of room in the poultry-house
than when the flock consists of more than the average number of members. But so far as room on the roosts is con-
cerned, it is possible to keep three Leg-
horn hens on the same space that would be occupied by two Brahmas. The next point, however, is whether the farmer
would prefer the Leghorns. Leghorns grow rapidly, are equal to any of the
breeds for laying, are active foragers, and pay well in proportion to cost, but Brahma can endure severe winters better than the Leghorn, and that it is more keeping of a certain number of fowls on a given ara, or in a poultry-house of

## HINTS TO INQUIRERS

The Farm and Fireside readers do tunity to make inquiries in this department, and many of the articles given in each issue are to a great extent replies
to such inquiries, while more brief re-

DIVERSITY OF PRODUCTS
Beginners with poultry on farms that e intended for
limited, should endeavor to produc early and !ate crops, so as to have cask coming in all the time, if possible. On
of the essentials for quick returns poultry. With good management the hen should lay every day during the greater
portion of the year. One or two good portion of the year. One or two good
cows will also be found serviceable, as milk, butter and eggs are cash at all sea-
sons. Small fruits. such as strawberries, currants, gooseberries, raspberries and blackberries, soon give returns, but blackberries, soon give returns, but
grapes and orchard fruits require more grapes Ond small farm it will not pay to
time. On a fruit and vegetables give better profits, and bring in cash long before the har however, that will give larger and quicker profits in proportion to capital in-
vested than fowls, and as they multiply rapidly the number can be largely in-
creased every year. The fowls will also creased every year.
consume much waste material.

## NEXT YEAR'S LAYERS

## Select now the pullets for winter lay

 ers. II there are a great many pulletsthat were hatched out, go into the poul-
try-house and try-house and select the largest and keep many because they be tempted beautiful, they are small, as such pullets will not be old sufficient age to begin laying before
cold weather sets in. As all fowls, old and young, are subject to the conditions of heat and cold, much labor and ex-
pense can be saved by retaining only pense can be saved by retaining only
those that come into full plumage and reach the adult stage before winter. If a pullet begins to lay before winter, she will then probably lay right on through
the winter; but should she not begin in the fall, she will probably defer such work until early in the spring. Use out the flock and getting rid by culling pullet that has not reached a stage of prowth that may enable it to give a keeping of fowls. The keeping of poul-

## INQUIRIES ANSWERED

Double-yolk EgGs.-J. R. M., Ba avia, Ill., states that "his fowls lay large yolks; he also asks if such laying is pe-
culiar to any breed." When soft-shell


A MODEL CHICKEN-COOP
plies are given direct, using the initials of the inquirers. It is impossible to give reason that the inquirer omits all details reader anent on his part. Wre droopy, their combs are dark, and that they re-
fuse food, following the statement with "please give cause and remedy," he imposes a difficult task, as there are a great
many causes, to discover which and sugquirer mention how he provided for his hock in the way of shelter, how often and
how much he feeds, the kind of food, and how much he feeds, the kind of food, and
how many fowls are under one roof.
Lameness may result from high roosts, indigestion from overfeeding, and above
all, in the summer season lice are at the foundation of two thirds of the troubles with adult fowls and chicks. The Farm
aND FIRESIDE cordially invites all to ask or information, however, but requests
eggs, abnormally large eggs or doubleyolk eggs are laid, the cause is due to
overfeeding and excessively fat condition

## of the hens.

Vacone, Ga., wishes to know - "which o
Me varieties of Leghorns should be prehe varieties of Leghorns should be pre-
ferred as being superior to the others.
$\qquad$ same as the single-co are otherwise ApoplexY - - J. B. L., Steelton, Pa
writes that "his flock is apparenty from disease, but that on going into his poultry-house some mornings he has ound now and then a fowl dead under correspondent gives no information as to
how he manages his flock, but the cause of death is no doubt due to apoplexy, the
owls being fed too much grain at this

THE ROOT OF THE MATTER
He Uured Himnelf of serlous Stomach Trou
Gettline Down to Frrat Prlnelples
A man of large affairs in one of our prominent eastern cities, by too close atten-
tion to business, too little exercise and too tion to business, too little exercise and too
many club dinners, finally began to pay Nature's tax, levied in the form of chronic
stomach trouble: stomach trouble; the failure of his diges-
tion brought about a nervous irritability, making it impossible to apply himself to
his daily business, and finally deranging
the kidneys and heart.
In his own words he says: "I consulted one physician after another, and cach one seemed to understand my case, but all the same they each failed to bring about the
return of my former digestion, appetite and vigor. For two years I went from pillar to post, from one sanitarium to another, I
gave up smoking, I quit coffee, and even renounced my daily glass or two of beer, but without any marked improvement. well-known proprietary medicine, Stuart's the ysepsia Tablets, and I had often perused edy, but never took any stock in advertised medicines nor could believe a fifty-cent patent medicine would touch my case. bought a couple of packages at the nearest
drug-store, and took two or three tablets drug-store, and took two or three tablets between meals, when I felt any feeling of nausea or discomfort. "I was surprised at the end of the first
week to note a marked improvement in appetite and general health, and before the two packages were gone I was certain that
Stuart's Dyspepsia Tablets was Stuart's Dyspepsia Tablets was going to
cure completely, and they did not disappoint me. I can eat and sleep, and enjoy my
coffee and cigar, and no one would suppose I had ever known the horrors of dyspepsia Out of friendly curiosity I wrote to the proprietors of the remedy, asking for infor they replied that the principal ingredients were aseptic pepsin (government test), were aseptic pepsin (government test),
malt diastase and other natural digestives, which digest food regardless of the conThe the the matter is this, the digestive elements contained in Stuart's Dyspepsia Tablets will digest the food, give the overworked stomach a chance to recuperate, and the nerves and whole system receive food. Stimulants and nerve tonics never give real strength; they give a fictitious strengl drop of bood every drop of blood, every nerve and tissue, is you can insure its prompt action and complete digestion by the regular use of so Dyspepsia Tablets, you will have no need of nerve tonics and sanitariums.
Although Stuart's Dyspepsia Tablets have been in the market only a few years,
yet probably every druggist in the United States, Canada and Great Britain now sells them, and considers them the most
popular and successful of any preparation


## Handy Farm Wagons

and
$\qquad$
it any wagon. Writo for the catalog. It is free,
ELECTRIC WHEEL CO., BOX 96, QUINCY, ILL
Can Sell Your Farm



## We want Boys

and girls in every city and town, who are bright income. It is the most pleasant work possible, and will bring you in contact with the finest people.
The work caul be done after school. Write us at WOMAN's HoME COMPANION, springlield, ohio



## I CURE

CATARACTS, GLAUCOMA, GRANULATED LIDS, ULCERS, SCUMS, WEAK EYES, FAILING VISION, and ALL EYE DISEASES at your home WITH MILD REMEDIES.
W. 0. COFFEE, M.D.

Coffee's 8o-page Eye Book will be sent FREE to every reader of this paper afflicted with Eye Diseases This book tells you how to prevent Old Sight; glasse; he FREE: DR. COFFEE gives this book and his professional opinion of your case FREE. WRITE TO-DAY.


DR. W. O. COFFEE ABSORPTION TREATMENT
 Mrs. Annie E.E. Itorere, of Stein, N. C. 28 years old, was cured







## Dr. Coffee's Mild Med=

 icines cure at Your Home$\qquad$

Dr. Coffee's remedies cure all kinds can read instructions, and they restore sight
condition of your eyes and he will send you DR. W. O. COFFEE,
f eye diseases and blindnes perfectly without visiting is book and professiona

They 'can be used at home by any one w 819 Good Block, Des Moines, Iowa

## BIG BARGAINS IN FARM SUPPLIES SHERIFFS' AND RECEIVERS' SALLES



## We want Girls

[^2]
## Agents and General Agents

## 

 The Greatest Cash Commission this their husiness a steady income of 820 ot 8 . 6 a week can be guaranteed. All canvassing material supplied
FREE. The present month 1 a particularly good time for starting.
Address WOMAN'S HONE COMPANION, Department of Agents, Springfield, Ohio

## Live Stock and Dairy

FINISHING SHEEP ON THE FARM

Icated on a smallifarm, or rather lo-
cated in Brookings. farm, ou brookings, near a small practicable to raise and breed sheep
therefore, $I$ have gone into the busines therefore, I have gone into the business
just as far as my surroundings would permit, and for the past ten years have been feeding sheep and lambs on a smal three thousand head
Having no trees or grove shelter, and sary to obtain the best and most satis
factory results, I began factory results, I began to construct sheds and hay-barns, with good shingle roofs
and if it has not paid from the money point of view, it certainly has paid in sat isfaction, for I can conceive of no prettier
sight than that of a thousand nice lambs sight than that of a thousand nice lambs
ranged up to their racks, eating hay inside a well-ventilated shelter, while outside wind and snow are blowing at the rat of sixty miles an hour. There was a time when a few keen lambs and sheep at St. Paul and othe places where screenings could be had al most for the hauling; but now the prop bad habit of soaring away up in the teen to twenty dollars a ton, and hard to get at that, so that of late the commercial feeder, and about as many fortunes hav been lost
After studying the proposition for year I have about come to the conclusion that Dakota can feed sheep and especiall lambs and make sood money especiall the big fellow will go to the wall. I find that North Dakota and Sout growth of rape, especially in our grain
fields. In Wisconsin, Iowa and the Eas their growing seasons are so wet that
rape where sown with the grain crop grows so rank that it often ruins the
grain crop, while here, the season being drier, the rape harvest-time, and as soon as the grain is
harvested the rape makes a wonderfu growth. I remember one fall I turned
thirteen hundred lambs into a fifteen-acre field of rape, and the rape was so hig that one could not see a lamb after the harvested twenty bushels of wheat an acr off the fifteen acres, but the rape which grew up after harvest brought me mor dollars than the wheat crop.
I am sure than any farmer who owns find it more profitable than any othe branch of his business to feed from on to three cars of lambs every fall-feedin lambs as a sure thing without the aid o manure, for I find that one acre of wellmuch rape as ten acres not manured This was very plainly exemplified on $m y$ farm last year, there being in my barley-
field a strip of about three acres on whicl no manure had ever been hauled, while the balance of the field had recently been manure to the acre. I sowed two pound of rape-seed to the acre on this field with a press-drill. The value of the ma with a press-drill. The value of the mawhere the barley yielded fifty bushels a where the barley yielded fifty bushels and where the barley would not yield ove fifteen bushels an acre, and the difference crop, for while on the unmanured land th rape scarcely appeared above the stubble three feet high, with leaves four to six or eight inches broad--so large, in fact, tha the lambs would not go into it, and was obliged to mow several swaths back
into the field before I could induce them to do so. Yes, Brother Sheepman, so year. Shut your eyes in the spring, and grain you grow, and in the meantime keep hauling out the manure fall in feeding six hundred lambs for an early market. I had previously sown fifty or sixty acres to rape in my whea and barley fields.
of macaroni
of macaroni wheat an acre, and fift ply after harvest. While at the fair her

Milne, a gentleman
living sixteen miles ortheast of thi place, a band of five which weighed fifty when I loaded them
hese I pir. and turned them into the fields about the wenty-fifth of Septembe
After a few days, when first turned out in the morning, a few of them would be seen nibbling at the rape, but after a little while they would start for a self-seeded threatened to fence off the rye-field, for they had got it perfectly bare of stubble, ramped out. But they kept spending a arger portion of their time in the rape each day, but never entirely abandoning the rye-stubble. I placed salt in conthat the lambs could get both salt and water whenever they desired.
more or less infested with worms. For his, and as a general tonic, I always place before my lambs in convenient
places a mixture as follows: To one places a mixture as follows: To one of sulphur and five pounds of copperas, his I dintribute in troughs, ground and thorough ; over all a little oil of tar. I found this an effectual preventive and treatment for vorms, and I am indebted for this receipt Arlington.
Another thing I find to be a good investment is dipping, it being my custom ase any of the good commercial dips.
At the very outset I began feeding day, and that at night after they fhad filled p on green feed. I increased the grain eed a little each day, until at the end of six weeks they were eating about one up until November 24th, when it froze so hard that it entirely annihilated iny rape. on that rape as well as six hundred, as at when the frost came. I find that rape grown on manured land withstands the frost better, for the reason that the stalks grow so large that common frosts do not
reach the heart of the stalk, and until does the rape will keep green
When my rape was gone I put my lambs on full feed in troughs twice a day, eeding nothing but screenings for a week or so, when I put in self-feeders and let them have full swing. I made my first hipment about December 1 and the Year's, and the last about January isth They averaged in Chicago abour ninety pounds a head, having made a gain of bout thirty-two pounds a head erage feeding-period of ninety days. My cost of winter feeding withoult rape fifty cents to two dollars a head, but by eeding the grain with the rape the cost vas reduced to below fifty cents a head. So you see just where you have the inside track on the big feeder. I would rather have the profit on forty acres of good
rape when fed to lambs than the profit rape when fed to lambs than the profit on the best one hundred and sixty acres
of wheat grown in South Dakota So in of wheat grown in South Dakota. So, in
my opinion, the sheep-feeder holds a betNowd than the exclusive wheat farmer. this fattening business, and I often get this fattening business, and I often get
the blues, and say this is my last winter, because of loss occasioned by dogs, or by allowing the lambs to feed on the rape when wet, the latter of course usually a result of inexperience or carelessness. I find it necessary to have a small pen inside my sheds-a sort of hospital where the sick and lame can be given better care, and kept away from the main flock.
In feeding for the spring market I Insually rung my feeders in the stubblefields as long as possible, then put on a
full feed of good hay, and enough grain full feed of good hay, and enough grain to keep up a good growth until the midare getting all the grain they will eat. The grain is fed in troughs twice a day. I continue this until about sixty days
before marketing, when, if I am feeding screenings, I put in the self-feeder and give them full swing with very little hay, but plenty of pure water and salt always handy. About March 20th I aim to shear, and then feed four or five weeks
longer, at the end of which time they are longer, at the end of which time they are
ready to top the market; and this is a ready to top the market; and this is
very desirable thing to do, for there une to be a difference of fifty cents tops and the unfinished sheep. Thousands of lambs are sent to Chicago every day about half finished, and the owners do do not feel that my stuff is finished as long as I can feel the backbone; but when

## Live Stock and Dairy

that is gone, and all along the back feel nicely cushioned, I conclude it is time to go to market. Another thing I try to avoid is shipping some fat and some half fat in the same car. I find that a car-load and that it pays to hold the thinner ones back for a little longer feeding. I also find that it pays to feed thirty days after shearing, as after the wool is off the sheep seem to take a new lease of life, develop weigh more than when the fleece was on As to marketing there is not much to
be said. If the stuff is properly finished, the marketing will take care of itself. Care should be taken not to load too
heavily; about ten thousand pounds to heavily; about ten thousand pounds to
the deck, where the wool is on, I find the deck, where the wool is to be about the best weight, and that a double deck is much safer than a single deck to ship in. With too heavy loading one is sure to ge
loss by trampling.

I do not feed any grain for four or five hours before loading, for I find that loading on full stomachs causes more loss on will get scared, proper digestion ceases, and more or less of the sheep will become paralyzed, or as they say, will break down. I find it advantageous to stop just before getting to Chicago to feed and rest
for a day or two. The run then is so for a day or two. The run then is so
short that the sheep, when the buyer comes to look at them, are lively on thei eet, and have a good, plump body.
I ship to some firm in whom I have salesmence, Ind get acquainted with their
sot care for the acquainsalesmen. I do not care for the acquain-
tance of the firm, but I do like to be on good terms with the sheep salesman, and when he makes a good sale for me I always compliment him, which fact seems to encourage him to do his best for me.-
Frank Sherwin, before Sheep-Breeders' Frank Sherwin, before Sheep-Breede
Meeting at Huron, S. D., June 23d.

## CONTAGIOUS OPHTHALMIA

So-called "pink-eye"-properly termed contagious ophthalmia", has appeared among cattle in this and other states, and presents the following effects:
SYMproms.-Adult, young cattle and
calves first show swelling of the eyelids, calves first show swelling of the eyelids,
accompanied by weeping. Redness of the

## disease seems abandoned,

## cattle grazing most liabl

Place the affected hed or atabted cattle in a darkened imal a one-pound dose of epsom salts with one ounce of saltpeter and one ounce of ground ginger-root in two quart with one tablespoonful of saltpeter twice daily in the drinking-water or soft food. mediciner cattle should have the same age and size. While under treatment do not feed grain, but give soft and green food; allow all the cold water the animals will take. At the commencement of an f a clean insect-powder bellows a mix ture of equal parts of finely powdered calomel and boracic acid, or cover the
eyes with a soft cloth to be kept wet with a I-2000 solution of bichloride of mercury (corrosive sublimate). This treatment cases, but should the disease persist and aggravate, substitute for the above lotion one consisting of a dram each of
sulphate of zinc and fluid extract of bella-donna-leaves with twenty drops of carwith which to keep the cloth over the eyes continually wet. When inflammation subsides, should the eye remain
milky-appearing, paint once daily with a milky-appearing, paint once daily with a I-IOOO solution of bichioride of mercury,
or three-per-cent solution of boracic acid. or three-per-cent solution of boracic acid. ing to treatment give-except to preging to treatment give-except to pregdaily for adult animals, and from ten to continuing its use for one week yearlings, ulcers may with benefit be painted with a solution of three grains of nitrate of silver in one ounce of distilled water two or three times a week. Lastly, quarantine animals bought at stock-yards shipped in
or from infected herds.-A. S. Alexander, Veterinarian at the Wisconsin Agricultural Experiment Station.

IMPROVING THE HERD
There are many dairymen who are breeders only to the extent of raising the replenishment or increase of their dairies.


BLENHEIM, PRESIDENT ROOSEVELT'S SADDLE-HORSE
membranes of eyelids and "haw" becomes apparent, creamy discharge follows, and in three or four days a clouded spot shows
in the center of the eye, and gradually spreads until the "sight" of the eye becomes milk-colored. Changing from milk-color to pearl tint, the eye may be-
come yellow, bulge, show bloodshot streaks, form an abscess, and burst, leaving a ragged ulcer, or commence to clear up and finally recover. Slight ulcers may heal by granulation, but extensive rup tures and ulcers often lead to loss of sight
Fever and some loss of appetite is pres Fever and some loss of appetite is present, especially in young cattle, for a weel
or more after the first attack, and dairy or more after the first attack, and da
cows may shrink in milk-production. cows may shrink in milk-production. ing, and doubtless due to a germ which leads to its spread from one animal to an-
other, affected cattle should be separated from the unaffected; the eyes of the latter should be washed once or twice a week

It is plain that the average dairyman should be a breeder to that extent at
least, for those people who claim to be
able to judge the capacity and usefulness able to judge the capacity and usefulness of a cow by looking at and feeling her rule. The majority of dairymen are quite unable to thus judge cows, and it quitefore follows that the herds of this majority of dairymen can best be improved by Wreeding, selection and rejection.
With the attention that beef-making has recently commanded, the strictly dairy breeds are not so actively in the marke
and the dairymen anxious to improv their herds can buy male calves, or in
many cases bulls ready for use, of any of the dairy breeds at figures any business the dairy breeds at figures any bu Thoroughbred males being so
using the excuse for any dairyman using the grades and scrubs so
[CONCLUDED ON PAGE 20]

The Books Are Free

SpayinIf you have a horse
that is lamed or blemU. Rinisibone theesprus Fistigla Pollevil Lomplay

FLEMING BROS., Chemists, 4 Stock Yards, Chicago, III.
 Farm Wagon only $\$ 21.95$
In order to introduce their Low Metal Wheels
with Win pany, Quincy, Ill, have placed upon the market a
Farmer's Handy Wagon that is only 25 inches


This wagon is made of the best material through new wheels, and fully a trife more than a set o
Catalogue giving a full description wor one year be mailed Catalogue giving a fult description will be mailed
upon application by the Empire Manufacturing
Company, Quincy, Int, who also will furrish metal
wheels at low prices, made any size and width of

## KEEPS FRESH MEAT FRESH



HEAVES CAN BE CURED

ABORTION Retention or Placenta


## NEW PREMIUMS

## Boys' and Girls' New Plan

Do You Want to Get These Premiums Free

Send us your name and address on a postal-card to-day, and ask for the
number of coupon-receipts required to get the premium, and we will send number of coupon-receipts required to get the premium, and we will send
you by return mail complete outfit free. Sell the coupons at 35 cents each, you by return mail complete outfit free. Sell the coupons at 35 cents each,
send us the money, together with the names and addresses of the persons send us the money, together with the names and addresses of the persons
who bought the coupons from you, and we will forward the premium. Full who bought the coupons from you, and we will forward the premium. Full
instructions sent with your outfit, so you can't make a mistake. If you can't instructions sent with your outfit, so you can't make a mistake. If you can't
sell all the coupons, or enough to get the premium, we pay you cash for sell all the coupons, or enough to get the $p$
what you do sell. That's fair. Write to-day.

## Daisy Printing=Press

## A COMPLETE OUTFIT

This is one of the most useful and interesting and practicable premiums for boys that
we have ever offered. Any boy can learn to set type and print on this press. It is a source of pleasure as well as being in-
structive and useful. It comprises a print-ing-press, roller, box of printers' ink, and
one box each of gold and silver bronze one box each of gold and silver bronze quads, spaces and periods, pack of plain cards to print on and one pack of floral
cards, type, tweezers and bronze-cotton. Full directions with each outfit, and
 only SEVEN coupons at 35 cents each.

## New Chain=Knife



This is no cheap knife, but one that is guaranteed by the manufacturer to be as nicely trimmed. THE CHAIN is finely polished, and has twisted links. It fastens to the belt or suspenders, and the knife can't be lost. It is the knife for boys, and the latest thing out. Order as No. 495.
This elegant Chain=Knife given free and sent post=paid for selling only THREE coupons at 35 cents each

## New Picture=Machine



FUN, ENTERTAINMENT, DELIGHT FOR ALL
Sixty Pictures FREE
This magi-lantern outfit has
been proved to be one of the most been proved to be one of the most
popular premiumis evero ofiered. This machine is II incheles liigh, frisished in black, blue and nickel, and fitted in a neat box with hinge cover, to
which are fastened three round slides and six long slides, making
in all about 60 different pictures that can be reproduced. Full dimacline. Sent by express at re-
ceiver's expense. Order as No. 494.
This fine Picture-Machine given free for selling EIGHT coupons at 35 cents each

## The Laughing=Camera

THE BEST NOVELTY EVER INVENTED
SEE THE PASSING SHOW


Your friends grotesquely photographed; stout
people look thint thin people look stout. For people look thint thin people look stout. For
years the funniest tutraction in every museum the


 the most grotesque and ludicrous pictures are
witnessed. The passer-by takes on the swing
and stride of a daddy-long-legs, horses look and stride of a daddy-long-legs, horses look
like giraffes, and altogether there is more gen-
uine hearty fun crowded into the four cubic inches of this little instrument than could be
er. Each packed in a neat box. Order as No. 493 . We will send the Laughing=Camera, and the FARM AND FIRESIDE one We win send post=paid, for only 40 cents.
The Laughing=Camera given free and sent post=paid to a Club=Raiser the clubbing price of 35 cents. (Don't ask for coupon.)

Address FARM AND FIRESIDE, Springfield, Ohio

## The Grange <br> By MRS. MARY E. LEE

## GRANGE PROGRAMS

WHiLE the general excellence o grange prograins cannot be
overlooked, yet a comparison of the subjects discussed year afte
year indicate that they do not cover as
wide a range as would seem beneficial. wide a range as would seem beneficial. There are topics that must ever be of imexcuse for yearly repetition. But to confine one's self to these alone, which consist mostly of "shop talk," would be like confining one's self to potatoes and cheese, while Nature and Art vied to
produce attractive foods and viands. The marvelous world-changes that are daily marvelous world-changes that are daily
being brought about need a deeper insight than the modern press can give To gain a just estimate of the Kishinef tory and general literature to find the history of the Jews, their hopes, achievements, failings, temperaments and environments. This would naturally lead to a study of the religions of the East and the conditions that fostered the growth of this sect. Hosmer, Scott. D'Israeli,
Zangwill. Shakespeare, Wallace, and a Zangwill. Shakespeare, Wallace, and a dozen others, each have contributed valuable data in enticing form. So we might take up the other public questions that are pushing themselves for solution. No
one knows better than the farmer the power of the public opinion of his class, power of the public opimion of his class,
and no one is more desirous that this opinion shall be just. merciful and enlightened than he. Would it not seem grange program topics of a public and cultural nature? Nor would we confine the work to one subject for a long series general interest would be "The Influence of Mohammedanism on Civilization:' "Confucius-the Influence of His Phil osophy on Modern Civilization;" "Labor Unions, and Their Influence on Financial Conditions;" "What of the Negro?" "Anglo-Saxon Supremacy;" "Russian Supremacy;" "The Jew in History;" "Is Statesmanship Declining?" "Tariff for
Protection or Revenue Only?" "Which is of Most Benefit to Society-Scarcity or of Most Benefit to Society-Scarcity or Abundance?" "Pope Leo-H is Worth to ion, and other subjects of vital and general interest that stretches to infin-
itude. Why crowd our royage into a teacup when the whole world is open?

## MOB VIOLENCE

Our people are shocked by the recent outbreaks of mob violence in different sections of our country. No section can All must bear alike the ignominy. That the best part of our people condone the acts of an infuriated mob is false, and the best people are in the great majority.
One cause of this lawlessness is found in One cause of this lawlessness is found in
the weakened respect for the court. The law's delay by reason of technicalities, the weakness of the jury system, the
sometimes culpability of the court-all sometimes culpability of the court-all
contribute to an already infuriated people. That all these counts are sometimes too true must be admitted, but is no palliative for the offense of taking the law out of its proper hands. Every violation of the infractions. It coarsens and brutalizes the sensibilities of all connected therewith, and weakens respect for law and order. No matter how great the provocation, the more reason for upholding the majesty of the law and insisting on its being carried out to the letter with
precision and expediency. While the crime which is usually the excuse for such lawlessness is atrocious, let not the peo-
ple stain their hands with another brutalizing crime. That many take part renders the act no less a murder. An enlightened public opinion united with
a firm front that brooks no dallying or a firm front that brooks no dallying or
subterfuge in the court will do far more subterfuge in the court whor which mob violence is meted out than the most horrible murder of the victim would do. spect law and order.

PROCESS BUTTER ON THE FARM
A bulletin of the Utah Experiment of adding chemicals to their milk that converts the casein into a substance re-
sembling butter. The result is a poor imitation of genuine butter, which injures the butter industry. Time alone, says
the bulletin, can restore what the farmer the bulleti
vill lose.
The organized farmers of America fought a long and bitter fight to secure a
law against the fraudulent manufacture law against the fraudulent manufacture and sale of a spurious dairy product. Let
not a farmer bring reproach by imitat-

It will work incalculable injury to the individual farmer, and agriculture in general. It will cast reproach not only on sold from the farms, There is a wellgrounded preference among consumers the media direct from the farm without he interation of a middleman. It is to reference The best argument offer is a strictly honest product of the best possible quality, put up in the most keep before him hirh ideal, and live up to it. Iet him treat with contumely any one who would degrade this ideal It can bring only evil consequences, Honesty must forever be the best policy. THE JOY OF SERVICE
I listened to an impressive sermon today, in which the minister made use of handed dowing fable: In one of the legends he birds, so the fable runs, were created without wings. One day, as they were engaged in their various duties, a spirit commanded them to take up yet other burdens. They did so with quaking hearts, when lo, the grievous burdens became pinions upon which they were inference was that the burdens and crosses of life assumed cheerfully become pinions of grace to waft us to higher, holier planes
The fable covers a truth ever new and sublime. It is the duty or work delayed that bears the most forbidding aspect. Take it up, and it yields smiles and strength for the day. Work done breeds power and strength for greater effort. To secure the apples of the Hesperides, Hercules must first slay the Nemean
lion, slaughter the hydra, cleanse Aulon, slaughter the hydra, cleanse AuGeas stables and subdue the oxen of
Geryon. Every great and noble deed done for humanity was but the sum of task, then, no matter how mean and humble. how lowly and obscure, with faith and serenity, and thou shalt find strength and gladness and power

## A CORRECTION

J. E. W., Happy Valley, Canada, calls attention to an unfortunate error in the issue of July 15 th. The quotation from Coleridge's "Ancient Mariner".was credited to Bryant. The mistake came about in this way: Bryant's "Thanatopsis" and the verse from Coleridge were quoted to a friend needing such stimulus and inspiration. Thinking some of our readers might also get the help we always do from this choice gem, we passed it on, of Coleridge. The lines correctly quoted of Coleridge. The lines correctiy quoted

## He prayeth best who loveth best <br> For the dear God who loveth us

THE FARMER AND IMPROVEMENTS

## here seems to be doubt among so

 of our friends whether the farmer can him. They fear that the trolley upol mail delivery and telephones will lure him from the path of rectitude they assume to be peculiarly the farmer's own They express fear that the homely vi tues of honesty, faith, simplicity, thrift and economy must succumb to a broader, fuller life. Don't worry. The virtues will live and grow brighter with every advancenient that makes farm life easier. Morality and virtue that are firmly interwoven in his character will not easily be unraveled. We do not love or trust less the friend who has had superior advantages, but rejoice with him in his heritage, and hope for the same blessing
## THE OBSERVATORY

Education is not creative. It can only Education is not creative. It can onl
develop and ennoble the latent forces.

With every revival of learning there is reformation in moral and religious ideas and practices, a less bigoted and midst of such a revival.

Help the boy and girl eager for a college education to help themselves, but There are enough opportunities for payirlg one's own way for every energetic lad or lass possessed of will, courage, perseverance and common sense. The
education earned by hard work and self-denial is worth more than one secured through the labor and self-denial cured throug

## INHERITANCE

## F. B., Michigan

a man dies in Michand leaving a widow no father or mother, all his property, or do the brothers and It sems that
der the laws of Michigan one half of the the road in operation. Said trolley-road estate would go to the widow. you had better consult some attorney of your city as to the rights of the widow.

## DUN ON A POSTAL-CARD, ETC.

 P. S. S., Ohio, wants to know: "Is itpenitentiary crime to send a dun on a postal-card? -Does a postal-card dun exempt the debtor of the charge against
him?-If A. breeds a cow for B., and B. fails to get a calf, does, he have to pay A. for the service done?
the contract or custom that prevails in the community where it occurs.

## CHILD'S SHARE

T. B., Missouri, wishes to know: man dies, leaving children, can his parents take any part of his property if
there is only the home place? If the deed to said place is made to read ' Mr . parents take any part
The children of
ways inherit all of his property before the parents of such deceased person can
get any share. Whether the deed reads "Mr." or "Mrs." makes no difference.

## STOPPING SUBSCRIPTION

W. R. W., New York, says: "Some
ime ago I ordered a sample copy of a paper from Missouri. They continued to send me the paper. I ordered it stopped, and they have placed the account in the tion. Can they collect?
I think they are trying to bluff youl. I would not pay the bill. Of course, if you have been receiving the paper, it would dered the publisher to stop sending it.

## STOCKHOLDER'S LIABILITY

Bessie. Washington, asks: "Will you kindly tell me if in taking shares in any undertaking you become liable f
In some few of the states there is a of stock in a corporation shall be liable for its debts to an amount equal to the value of the stock-that is, if a party
holds stock at par value of one hundred dollars. he is liable for debts to the extent of one hundred dollars. Generally
speaking, the owner of stock is not liable for any of its debts if his stock is paid for. In partnerships a partner is liable for
all the debts of the concern TRACTION-LINES
M. E. L., New York, says: "A trolleyand the company is getting ready to put
is located at one side of the public highful right Has company, having all lawcut limbs from shade-trees along the highway to clear their wires without compensation to the owners of the abut-
ting property? This they are doing, ting property? This they are doing,
although in many instances it has been forbidden."
It is now generally accepted as settled right to locate its railway in a high no right to locate its railway in a highway
without procuring the consent of the adjoining landowners, and they certainly have no right to cut limbs from shade-
trees to clear their wires without com pensation to abutting proprietors.

## INHERITANCE

## E. E. D., Illinois, asks: "A man and

 wife own one hundred and twenty acres of land, forty acres of it being in the wife's name and the rest in the husband'sname. They have one child. If the wife name. They have one child. If the wife
should die, what would the husband hold? If the husband should die, what would his wife hold, no will being made? What
interest would either hold in the personal interest wo
property?
By the laws of Illinois the wife or husband has a dower interest in the real estate of a deceased husband or wife;
therefore, if the wife should die the husband would own his eighty acres in fee and a life estate in one third of the forty
acres, or if the husband should die the acres, or if the husband should die the
wife would own her forty acres in fee wife would own her forty acres in fee
and a dower, or life estate, in one third of the eighlity acres. A number of articles are allowed to the widow. There seems to be some specified articles that are
lowed to either the husband or wife.

## INHERITANCE-HALF.SISTER

M. E. K., New York, states: "I am a widow. When I married my husband he was a widower with one little girl six
years old. A year after our marriage another little girl was born to us. A litthe over a year later my husband died,
leaving no will. I was obliged to administer on the place. I have raised and
educated both girls alike. Now I am getting old, and I wish to know how the property, real and personal, should be divided between the girls after my death.
I wish to be fair to both. The property I wish to be fair to both. The property is small, consisting of house and barn and one acre of land. When I married my husband there was a mortgage of six gage has been paid since, and I have worked hard to educate my girls, and keep the home for them and mysel
The girls will inherit the land
as coming through their father. If the land was in your name, then your daughter would get all of it. An equal division

## The Family Lawyer <br> By JUDGE WM. M. ROCKEL

DON'T PUSH THE HEART•ACTION When exercise is
intting your wind, cutting your wind, hold
your pulse. and time
If it is above ninety, then go thank you for killing yourself. Uphill wheel-riding is heart-knocking fun. Do If a man looks out for his heart, when he gets old his heart will be his best friend.

DEATH OF AN ANTI-VACCINATIONIST Mr. Stevens, the late secretary of the
nti-vaccination League of Minneapolis, died in that city on April 15 th of malignant smallpox. Mr. Stevens had been
in the custom of denouncing vaccination on the custom of denouncing vaccination on every possible occasion as a barbarous
practice, without efficacy in preventing THE CLIMATE OF SOUTH AFRICA
On account of the warm, dry atmosphere of the high ground in the Trans-
vaal, the cotntry in the neighborhood of Johannesburg is expected to become health resort, especially for a certain clas of phthisis cases. English people are al-
ready emigrating to South Africa on account of the benefits which they expect

## A GOOD REPORT ON TUBERCULOSIS

The death-rate from tuberculosis Massachusetts has declined from 42.7 for 1853 to 17.5 in 1901, a decrease of more than one half in forty-eight years. The
deaths from this cause in Igor were five

## The Family Physician

thousand and thirty-three, while in 1872 drey numbered five thousand five hunof the state was but little more than half as large as it is at present.
Local boards of health are entitled to share the credit with the state authorities for this very good showing.

## CAMPHOR MEDICATION

Camphor is a poison, and yet it is
largely used in alleviating pain and curlargely used in alleviating pain and cur-
ing sores. It is a nervous irritant. If taken in small doses it acts like alcohol and opium. If taken in large quantities the extent of camphor spasms and death. Camphor also acts as an irritant on the mucous membrane of the stomach, leading to constipation and ulceration; on without the advice of a physician. Families easily get into the habit of running to the camphor-bottle for every trifling ailment, and insidious maladies will break KILLING PEOPLE BY BRUTAL TRUTHS Many people are killed by brutal truths. (and so tactless) the they think must tell patients the whole trink they think they cannot recover, instead giving them the benefit of the doubt
her death, she knowing she was going to die, and wishing it to go to her children?
He was to keep the deeds while he lived Could he destroy those deeds, and sel
the land legally?" If the farmer owned the land, and held the same in his owh name, he could deed it, notwithstanding that deeds were made during the lifetime of his wife, if such
deeds were not delivered, and the inquirdeeds were not delivered, and the inquir

certain time-but the control of it musit
go to some person other than the maker go to some person other than the maker

## INHERITANCE

J.A. B., Virginia, asks: "A woman She also has property when she marries him. They live together six years, and
have no children. When he dies, having willed all his property to her, and the the second husband have in the estate in case of the wife's death without off One difficulty about answering the nate whether the property is real or perdistinction between real estate which is acquired by purchase by the husband and real estate that the husband has inherited. If it was personal property, the
wife received all of it from her first husband, and upon her death it would go to her second husband. As to the real es-
tate, I am not so sure whether it would tate, I am not so sure whether it would
go to the second husband or not. Better consult a local attorney.

PERJURY
S. E. L.. California, puts these queries A. brings suit against B., swearing tha he takes water out of the Grand River When he bears witness after taking oath tributary of the Grand River about two
hundred yards from the Grand River, and that he saw his head-gate before h out of the Grand. Has A. committed perjury in this act? B. takes his wate last instance? If so. how would B. p ceed to put him through for perjury?
Can a wife's cattle be taken for her hus band's debts, the cattle being in the wife's name and bought by the wife? strictly construed in favor of the crim stream might be called a part of the to swear that water had been taken from main stream
cannot be taken for her husband's debts
 reduced his rallying powers to the danger
point. In all affairs of life, cruel blunt point. In all affairs of life, cruel blunt untold misery and broken many friend-
ships. Truth itself becomes a dangerous ships. Truth itself becomes a dangerous
weapon in the hands of tactless persons. ATHLETES
Dr. G. Frank Lydston, in "American Medicine", utters a warning against the prevalent idea that an athlete may con-
tinue capable of doing his best work until
middle life middle life or pas
membered, membered, he states,
$\qquad$ lete. It is well to remepplied to the ath lete's arteries are, with certain brilliant exceptions, older than those of the aver-
age healthy man. As has already been indicated, his muscular power may be and recuperative capacity and visceral integrity may fall far behind it in degree.
The man who gets a great deal out himself physically before the age of thirty
is bound to "go back" after that period. is bound to "go back" after that period.
In all acute attacks there is more in
proscribing food than in prescribing
medicine. Adding food to an oppressed system increases


More Heat-Less Fuel TheNEW ERA RADIATOR wild save half your coal bill and give you a warmer, Heat that is now entirely lost up the chimney can be utilized in rooms bISTANT from the stove or furnace. Can be attached to furnace without visible pipes to disfigure rooms or
Made int many styles, sizes and prices, using successwood or gas.
Write for illustrated booklet"E," also send name and address of your dealer.
WILMOT CASTLE CO., Rochester, N. Y.
T0 LADY AGENTS
 calling that requires no investment. The requisite
materials, with full and simple instructions, are sent
free to any intending agent on request. Address

HOME COMPANION
Department of Agents. $\quad$ Springfield, ohio

A
there. Especially did her eyes study
the scarlet berries that were pinmed to the men's coats as they left the table, and the
plumy blossoms that were pinned to the ladies' dresses. ike that." she remerked to be able to have socials home. "Those red berries looked very familiar, but I forgot my glasses, and didn't like to examine them
too closely. What were they, Hattie?" "I shoul common bitter-sweet," laughed her sister. "I should think it would look familiar, since I gathered it on your farm last fall, as well as the wild
clematis pods the women wore. During the summer I put it up in the attic out of the dust. and last weel could use it to-night."
"When I go home I intend to make use of every growing thing," said the sister. emphatically, and she
has kept her word. The church that once had bare walls now rejoices in a wealth of wild flowers, vines
and grasses on every festive occasion, and the homes and grasses on every festive occasion, and the homes
in that neighborhood are beginning to glow with the native blossoms in their season.
It is very easy to provide
It is very easy to provide dainty and novel
ouvenirs for parties, picnics and socials if one only souvenirs for parties, pienics and socials if one only
thinks so. Half the battle is won when the idea is
thought out, for once voul start to making them thought out, for once you start to making them you simply can't lay down the fascinating things until all
are done. Take the tiny rush baskets we have all woven in our childhood. for example. They can be flled with huge blackberries at a picnic, or tiny
candies at a party, or popcorn for the children, or chestnuts or any of the delicious small fruits or nuts every one likes. When they are empty the girls use
them for small trinkets or jewelry, while the men are apt to hang them on the wall to remember the good time they had.
The craze for Indian basketry has reached even
the rural districts, and while many of the directions are complicated, I have seen very presentable baskets made. by children, and a whole class of girls made raphia hats the past summer for best that were indeed beautiful. These little baskets cost more than the rush or burr ones of our childhood, to be sure, but
they are more durable, also. Don't make the mistake they are more durable, also. Don't make the mistake of getting them too small. Let them be large enough to hold half a dozen handkerchiefs or a package of
hair-pins, and they will be cherished for years by the happy owners.
Cardboard boxes have almost had their day, though they are very convenient for candies, small cakes and
nuts when one is too busy to undertake the reed nuts when one is too busy to undertake the reed pattern, and then hold it securely on the cardboard while you cut around the edges with a sharp knife. Four or five may be cut out at once if carefully fas-
tened down. Unless one has much patience it is well tened down. Unless one has much patience it is well to stick to the simple square boxes tied at the corners with gay ribbons, for fancy ones require much time and skill. Cardboard varies in price, but usually costs a cent a sheet, and baby ribbon sells at the
At a Christmas social tiny sprigs of evergreen were securely planted in penny pots and hung with bits of tinsel and strings of popcorn. These proved the most popular souvenirs ever given, and cost almost nothing
outside of the pots, which were the very smallest to be outside of the pots, which were the very smallest to be these diminutive Christmas trees, and the tables looked lovely when all were in place.
Buckeye chains are very pretty and not much work if one can borrow a shoemaker's awl or sharp darn-
ing-needle with which to punch the holes. These should be strung on stout thread, and not pulled too green for fear of shriveling.
Autumn leaves on which are lettered the date of the party or the name of the persons who are to wear them make acceptable place-cards and decorate a white you can find, and with a toothpick letter them the day you can find, and with a toothpick letter them the day
they are to be used. It is well to keep them in a book until just before they are to go or, the table. Stick a until just before they are to go or the table. Stick a
pin through the stem of each, and place on the folded napkin. At a Hallowe'en party small muskmelons and
watermelons were carefully scooped out for Jack-o'-anterns-one for each plate-and tiny candles inserted. There were Irishmen, Dutchmen, clowns and all sorts of people, and the only thing the guests re-
gretted about these funny favors was that they were oo perishable. One young man partly solved this problem by varnishing his sad-faced gentleman inside months.
mond Many a party has been a great success because of
mirth-provoking souvenirs, for nothing breaks the its mirth-provoking souvenirs, for nothickly, and since they cost very little no gathering need be without them. Russel Conwell, the lecturer, used to say our acre of diamonds is the little we are coming to see the truth of that wise saying.
Not by longing for the things we can't have, but
by using the common, beautiful ones all about us, can by using the common, beautiful ones all about us, can we read about in city papers. Hilda Richmond.

## THE SILKWORM <br> China was the first country availing itself of the labors of the silkworm, and Aristotle was the first labors of the silkworm, and Aristotle was the first Greek author who mentions it. It was not until the fif- teenth century that the manaufacture of silk was estab- lished in England. The raising of silkworms in the teenth century that the manufacture of silk was estab- lished in England. The raising of silkworms in the United States has been attempted with success in Southern states, and especially in California. As the Southern states, and especially in California. As the silkworms in Europe are. affected by disease, immense quantities of  fresh cocoons.

Sunday Reading

## WITH A LOVE THAT UNDERSTANDS

There's many a ship goes out to sea That never returns again And though its cargo should precious be

There's many a bird with foliage fair That falls e'er its fight is done,
And there's never a tear and never a By any beneath the sun.

There's many a soul that lives on
With purpose and motive grand With purpose and motive grand,
With never a neighbor to know its worth, To love and to understand!

But over the fortunes of each and all The Master, who noteth each raven's And heareth each earnest prayer!

## "EGYPTIANIZED" CLAY

Adiscovery of no small value, which has recently been announced by
a Niagara Falls scientist, may be Naced directly to a passage in that greatest of books, the Bible; namely,
the seventh verse of the fifth chapter of the seventh verse of the fifth chapter of
Exodus, relating that the people gathered straw to make bricks. While experman had occasion to manufacture, chis possessing certain properties, and came o realize that Nature had endowed German clays with certain properties which and which rendered the former superior o the latter. In searching for informaverse commanded his attention. Securing a quantity of straw, he boiled it in hot water, obtaining a dark red liquid, which when used in the treatment of clay greatly
increased its plasticity. Laboratory experiments soon showed that the agent causing the improvement was tannin. The in which tannin was in solution, and realized that he had found the secret and made a most important discovery. It has since been proved that clay treated
his manner was changed in the most remarkable manner. Even so little as one half of one per cent of tannin derirten per cent less water to make the clay soft. It
is stated that clay treated with this process and burned has fifty per cent more strength than ordinary clay, while in the
sun-dried form it is increased in tensile strength three hundred and fifty per cent. keeping the clay wet with water to diskelve the tannin. It has been observed also that this treatment removes the cracking tendencies of many clays, and required months to "age" or temper the clay, the "Egyotianized" product can be Chinese that the people of one generation prepare clay for the use of the next,
all of which time is spent in making the clay plastic. Under this new treatment in results are said to be more pronounced
in ten days than obtained by the old method in years.-The American Woman.

EACH DAY SUFFICIENT
We sometimes ask ourselves if we
hould be willing to die, or should we be willing to live in hopeless suffering, our dative be willing to put the fire swer such questions. We determine the future by the present. If to-day we do
to-day's duty to-morrow we shall be able to-day's duty, to-morrow we shall be able
to do to-morrow's duty. If to-day we are willing to live for God, on some to-mor-
row we shall be willing to die for hor To-day we do not receive dying grace, clay he calls us to life, and therefore will call us to death, and to-morrow
will give us dying grace-Selected. SWEET-PEA'S DREAM She dreams she is a butterfly To yon blue sky she longs to fly:
She stretches out her soft, pink wings, And from her mother vine she springs;
But then she wakes, and cries, "Ah, me I cannot soar to yonder sky; None such a prisoner as am I
That can't e'en move until a b
And moves me," Ah, myy dear siveet-pea, Thankful for e'en that should you be.
-Alice May Douglas, in Western Chris tian Advocate.

## S4590 wime pars mer nums FRE

 If you count correctly you are guaranteen a prizeYou Lose $\$ 1.00$ Per Day by Delay. Soe "Time Prize" offer below :FREE.


 CONDITIOHIS: Contest open to all. Fifty cents pays one full year to suc. PRIZE WINNERS IN PAST CONTESTS pays for two years aud gives you three free counta nod makes you elisible for
the special $y$ IIso prizes mentioned below. No counts will be entered unless ac-


THE TWO PIAMOS $\qquad$






 PLEASE HOTE.

|  | Von Horra, lo. \$50.00 For Canada. Mshy, ap hero in Coandel 1 won nech p pperer nntil 1 onamerece ad. \$50.00 CASH $\$ 50.00$ NEWTON RALICE, Others Who Won. Pultro |
| :---: | :---: |
| Iowa, and a banker they will select. They say: "We know Successful Farming will pay every premium and we agree to oct as yudgea and will garantee every促 |  |
|  <br>  |  |
|  |  |
|  | test for |
| SUCCESSFUL FARMING, 227 Man | tan Bldg., DES MOINES, 10WA |



HOME INDUSTRY
$\$ 12$ to $\$ 20$ Weekly

## Easily Earned Knitting Seamless Hosiery

 etc., for us to sell the New York market. Machines furnished to trustworthy families on trial; easy pay minutes. Write to-day and start making money; our circular explains all; distance no hindrance. Address Home Industrial Knitting Machine Co., Home Office, Whitney Bulding, Detroit, Mich.

## SOME DELICIOUS CATChups

RSPBERRY CATCHUP.-Simmer four quarts of raspberries in one quart
of cider-vinegar. Press through spoonful each of mustard, cinnamon. mace and ginger, not ground. Boil
thirty minutes slowly, then drain, and measure. For every quart add one pound of sugar, and boil slowly until as thick as tomato
catchup. Seal boiling-hot.
Peach Catciup.-Pare and quarter eight quarts of sound ripe peaches, and simmer the parings for thirty minutes in one pint of water. Then strain, add the peaches to the liquor, and simmer for thirty minutes longer. Add one and one half cupfuls of best cidervinegar, one half cupful of sugar, two teaspoonfuls
of ground cinnamon and one half teaspoonful each of of ground cinnamon and one half teaspoonful each of
cloves, mace and pepper. Simmer slowly until rather cloves, mace and pepper. Sim1
thick. and seal hot in pint jars.

Gooseberry Catciurp.-Pick over, and wash seven pounds of fine ripe gooseberries, then add four pounds
of light brown sugar, one pint of hest cider-vinegar of light brown sugar, one pint of best cider-vinegar,
two ounces eacl of ground cloves and cinnamon (tied two ounces each of ground cloves and cinnamon (tied
in a piece of muslin), and boil all together for three hours. Seal while hot in self-sealing jars.
GREEN-GRAPE CATCHUP.-Select grapes just beginning to turn ripe. Pick from the stem, scald, and lalf pounds of sugar, one pint of vinegar and one tablespoonful each of salt, pepper, cloves, cinnamon and allspice. Boil the mixture until rather thick, and seal at once.

Plum Catchup.-Boil the plums with one pint of water until soft enough to reduce to a pulp. Press through a colander, weigh the pulp, and to every five pounds allow three pounds of sugar, one half pint of
cider-vinegar, one level tablespoonful each of ground cider-vinegar, one level tablespoonful each of ground and stir until it becomes thick and rich. Seal boilinghot.

Toinato Catchup.-Wash the tomatoes, and slice, and boil in a preserving-kettle until soft enough to one and one half cupfuls of cider-vinegar one cupful of sugar, three rounded tablespoonfuls of salt, two tablespoonfuls of white-mustard seed, one tablespoonful of whole cloves, one tablespoonful of cinnamon, one half tablespoonful of whole black pepper, one large grated onion, and two large green peppers with seeds removed. Boil and stir until the catchup is as thick
as desired, then strain through a colander to remove the spices; return to the fire to boil up once more, and seal boiling-hot. One peck of fine solid ripe tomatoes will make one gallon of catchup.

Ripe-cucumper Cafchup.-Pare the cucumbers, scoop out the seeds, and chop very fine. To every pint
of pulp add one teaspoonful of salt, and let drain of pulp add one teaspoonful of salt, and let drain every quart of cucumber add four tablespoonfuls of one tablespoonful tach of white-mustard seed and chopped red perper. Boil the vinegar and spices, skim well, and let get cold, then add the pulp to the vinegar, stir well, and seal in pint jars.
Catchup without Cooking.-Slice one half peck of ripe tomatoes, and chop small one cupful of white onions. Strew over them one third of a cupful of salt,
and allow to drain, then chop them very fine with one cupful of celery and three red peppers. Drain again, and add one cupful of sugar, three pints of vinegar. one fourth of a pound of mustard-seed, one teaspoonful each of black pepper, cloves and mace and two teaspoonfuls of cinnamon. Stir well together, and seal in
jars. ars.
Catchup without Spices.-Take one half peck of
olid ripe tomatoes, two red peppers, three fourths of a cupful of grated horseradish, one cupful of sugar one half cupful of salt, one quart of chopped onions, one tablespoonful of pepper and one quart of good cider-vinegar. Chop, and drain the tomatoes; remove
the seeds from the peppers. and chop fine. Mix all the seeds from
well, and seal. Mary Foster Snider.

## INFANT'S CROCHETED NIGHTINGALE

This dainty little jacket is simply a perfect square in shape, open through a corner, with a hole in the midhalf skein of color are required to make the iacket half skein of color are required to make the jacket,
also one and one half yards of one-and-one-half-inch satin ribbon the color of the border, to draw in the neck and form the sleeve. crochet a chain of 3 st to turn with. Make a block of Jdc into the sixth st of the ch.
This is the front increase. Miss 2 st, make a block of 4 dc in next 4 st; miss 2 st, and St, and make a block of 4 dc in in mext 4 st.
NOw miss 2 , and make a corner in ne Now
$\mathrm{d} ~$
c with ch in center for shoulder-widening. Now miss 2 , and make a block; repeat three times,
and make a corner in the next st of 6 d c with ch in
center. (This is the corner down the middle back.) Miss 2, work a block; repeat three times. miss 2, and Miss 2, worn a block; repeat three times. miss 2, and work a block, and repeat three times. Miss 2. and work a half corner into 1 st for the other side of front.
To mincrease the size of jacket increase the number of blocks between the corners and the number of rows lengthwise.
Second ows-Make a chd of 5 st at the end; turn, and make 3 rows-1. ake a che 5 st at the end, turn, ane front in-
d c int o the base of the 5 ch. This is for the
crease. Now work block of 4 d c between every block crease. Now work block of 4 dc between every block
of the previous row, and a shell, 3 dc . I ch, 3 d c under
the first ch of the previous corners. At the end of the the first ch of the previous corners. At the end of the
last block make 3 d c at the base of the 5 ch at the end the end of the sev
At the end of the seventeenth row put on one row
of the colored yarn, then one row of the white, anothe of the colored yarn, then one row of the white, another
row of color. then one row of white. Finish off all
around with a scallop in white. This is composed of around with a scallop in white. This is composed of
6 c c drawn out long. Edge the shells with picots of
the color, composed of 3 ch and slip-stitch. 6 d drawn out long. Edge the shells with picots
the color, composed of 3 cha and slip-stitch.
HeIster Elliott.


## The Housewife

THE ART OF DOING WITHOUT
There's a beautiful art that is sadly neglected, And daily I wonder to see it rejected By some who'd be healthy and wealthy and wise By just condescending to open their eyes And look at things fairly, with never a poutI refer to the fine art of doing without.
"Why, that's nothing wonderful!" maybe you'll say; "I do without things that I want every day Quite likely you do. But how do you do it-
With good grace or a face that's as blue as a bluet?

There's a wonderful difference (just jot that down) And that is precisely the difference between The artist and bungler-you see what I mean

You can't do as you like? Then do as you. can
I'm sure you will find it the very best plan.
Can't have what you want? Take what you can get;
'Tis the bravest and blithest and best way by far
'Tis an art that needs practice, of thess mar.
Tis an art that needs practice, of that there's no doubt; But 'tis worth it-this fine art of doing without.

## TO "RELISH" AN EGG WHEN EGGS ARE CHEAP

Presumably any one can boil an egg, and yet to properly boil an egg is a real art. Egg albumen coagulates at from one hundred and thirty-five degrees to one hundred and sixty degrees Fahrenheit, and for this reason eggs should be cooked-at a low temperature.
Have boiling water in a saucepan. Place the eggs in the water, cover the pan with a lid, and place on In from eight to ten minutes they will be "soft-boiled" In from eight to ten minutes they will be "soft-boiled." Another way is to put the eggs in cold water, and
gradually heat the water. They will be soft-boiled gradually heat the water. The when the boiling-point is reached.

A pleasing change in cooking eggs is to prepare them as follows: Place seasoned crumbs in a buttered baking-dish; in this break an egg, season with salt, rhites of the egos may be beaten until stiff, one tea spoonful of milk added for each egg, seasoned, then piled in individual baking-dishes, the yolk being placed in the center and the eggs baked slowly.
A quickly prepared supper-dish is made by cutting hard-boiled eggs through the center, removing the yolks, mashing them, and seasoning with salt. pepper, lemon-juice, mustard, melted butter, and if desired a little cold minced ham, then filling the cavities in the whites with this mixture. If a slice is cut
bottom of the whites they will stand alone
The egg omelet in all its variations affords opportunity for the display of skill in cookery. Even a plain omelet is not to be despised, while with the may be varied sufficiently. Almost any available fruit may be used, such as cherries, oranges, etc., a part of the fruit being added and a part reserved to be used as a garnish around the omelet. Of the vegetables any left-over cooked tomato, peas, cauliflower, corn or asparagus may be utilized. A very nice omelet is made by the addition of one pint of chopped cooked oysters or a bit of flaked fish. In fact, the variety of omelets is almost endless, and the difference in flavor produced by the addition of a little minced ham, veal lamb or chicken will be well worth the extra trouble. The use of hot water instead of milk makes the omelet too large, a four or six egg omelet being quite large enough; if more is desired, it is far better to large enough; if more is desired, it is far better to separately, thus insuring a lighter omelet, though drier One of the essential points to be remembered in cooking is that there should be a sufficient variety in our food, and frequent variation in the method of preparation, garnishing and serving. Very often a lagging
fastened
$50 ;$ turn. 50; turn Third row-Ch 5 , catch with $\mathrm{d} c$ in center of the first loop of last row; ch 5 , catch with d c in center of shell; shell of 5 tc in $\mathrm{d} c$ at end of same shell; catch with $d \mathrm{c}$ in top of next loop (catch all shells and loops in this manner; make all loops of 5 ch ; the shells on the edges are of 7 tc when the shell is the last of a row; when it is the first, the ch 3 that starts the row are of 5 tc ). Finish shells in body of the patter loops, 3 shells: turn.
ourth row-Shell, loop, shell, 8 loops, shell, loop.


Fifth row-2 loops, shell, 3 loops, 3 shells, 2 loops, shell, loop, shell

位th row-Shell, loop, shell, 2 loops, 4 shells, 3 loops, shell, loop.
loops, 3 shells.
Eighth row-S
Es,
Shell, loop.
Ns, shell, loop.
Ninth row- 210
shells.
hell. th row-D c in top of each of first 3 st of edge loll, shell, loop, shell, 3 loops, 2 shells, 4 loops, shell Eleventh row-2 loops, shell, 3 loops, 3 shells, 2 loops, shell, loop, shell

Twelfth row-Shell, loop, shell, 2 loops, 2 shells, loops, shell, loop.
loops, 3 shells
Shell, loop, shell, 7 loops, shell loop, loop.
row. Two scallops scallop. Begin again at thirc row. Two scallops are shown in the design

## NEEDLE-POINTS

Let the little girls set their first stitches in patchwork; it is less intricate than doll frocks and coats, and the stitches once learned in the simple pieces, the inheaded lartle women will soon supply their curly proudly show my doll's quilt, pieced from bits of calico proudly show my dolls quilt, pieced from bits of calico ever, are making their patchwork of different material. Into almost every country home come packages of samples of lawns, dimities, ginghams and all the newer cotton variations. Every mother knows the question "May I have
them?" from the little daughter as she makes her choicc and casts the others
mak makes her choicc and casts the others
aside. When these pieces are fashioned into dainty quilts by the little fingers they become aluable possessions of the children
Cut the proper length from an old pair of suspenders when youll want a belt to match a certain

Do mothers realize the importance of tucks in the asy making of children's pretty dresses? They are always in fashion-very much so just now-and may be quickly run in a variety of widths and made to serve many purposes. The sewing-machine of course must be in sympathetic mood, the bobbin full, the
needle and thread just the right numbers, and then if you start out to tuck a yoke, to give the fullness in a Mother-Hubbard, or with larger tucks fashion the waist, carrying out the same idea about the fullness, you will be surprised how soon the little frock is ready waist, no basting and stitching of gathers. waist, no basting and stitching of gathers
their mothers-how provolingly they into the shoes, until entirely out of sight. The trouble may be avoided by sewing at the back of the stocking. below the shoe-line, a loop, and at its point of contac with the inside of the shoe placing a hook on the latter pointing upward; or instead of this hook and loop fasten in their places a pair of the more modern bal
and-socket devices.
Sue H. McSparran.
appetite may be tempted by a change in the way of serving food. Care, however, must be exercised single meal, as it is not only positively harmful, but results in a greater waste of food, as more is supplied than can be eaten, while much waste could be avoided were meals so planned that the variety and the amount sup plied would not be in excess, and yet comfortably
sufficient.
Maud E. Graus.
dress, and finish as desired


No. I is a dress
with a round yoke of
lace. The full skirt is gathered at the is gathered at the
top and arranged on the yoke, closing at the yoke, closing at
the back wath small
pearl buttons. The pearl buttons. The
lower edge is finlower edge is fin-
ished with a lace flounce surmounted by several fine tucks. One-piece bishop-sleeves have comfor-
table fullness on the shoulders, and are table fullness on the shoulders, and are
completed with narrow tace wristbands. Frills of lace trim sleeves, yoke and neck.


PLAITED SHIRT-WAIST
one has a pointed yoke and the other has a square yoke.
No. 4 is a one-piece cape hood of pale blue flannel. It is shirred on an indicated line of perforations to form the hood
portion, the cape being pointed at the edges are father-stitched. No. 5 shows a wrapper of white flanf11l skirt is attached. A turn-down collar full skirt is attached. A turn-down collar sleeves have flaring cuffs of flannel.
No. 6 is a cloak made of heavy white bishop-sleeves. The circular cape and hood are adjustable, and may be worn with or without the cloak, as preferred. Nos. 7 and 8 are short sacques of white flannel shaped with shoulder and underarm seams. The rolling collars are drawn in with narrow ribbons. Twopiece sleeves have comfortable fullness little garments are prettily embroidered. No. 9 is a Japanese kimono made of pale pink cashmere. It is in one piece front. The sleeves and underarms of the garment are fastened with narrow ribbons, and the edges are trimmed with a number of tiny lace motifs.

## A POPULAR FAD

Veils command serious at tention nowadays, and only worn over the face.-The Woman's Magazine.
Any one of these patterns, except the set composing the outfit for a baby, sen from this office for ten cents each. 906 I is cut in sizes for a 32,36 and 40 inch bust measure.

- Batiste Jacket.-The Pattern No 9053 is cut in sizes for
months, I, 2 and 4 years.

OUTFIT FOR A BABY

Shirred Gown.-The Waist Pattern No. 9049 is cut in sizes for a $32,34,36$,
38 and 40 inch bust measure. The Skirt Pattern No. 9056 is cut in sizes fo
$22,24,26$ and 28 inch waist measure.
Plaited Shirt-waist. - The Pattern No. 9073 is cut in sizes for a $32,34,36$ No. 9073 is cut in sizes for a $32,34,36$,
38 and 40 inch bust measure. Outfit For a Baby.-The outfit is cut

Macys


This structure, 200 by 400 feet, has II floors, an
aggregate floor space exceeding 24 acres, the largest aggregate foor space exceeding 24 acres, the latges
building in the world devoted to retailing. Five thousand employees are required to conduct business, divided into sixty-five departments. We sell General Merchandise in all reliable grades direct to the consumer at wholesale prices.
ire. We supply every want, being equipped Send for MONEY SAVER, m tions, illustrations and quotations of Seasonable Mer chandise at Matchless MACY prices. Write for
IT Now; it gives you an insight into the wonderful IT Now; it gives you an insight into the wo
economies of the largest store in the world.
R. H. MACY \& CO.

Established 8858

## Eczema

Salt Rheum, Ringworm, Itch, Acne or other skin troubles,
promptly relieved and cured by

## Hydrozone

This scientific germicide, which is harmless, cures by killing disease germs. Used and endorsed by the medica by leading druggists. Sold by leading druggists. If no trial bottle. The genuine bears my signature. Accept no utes. Acdress

FREE $\left\{\begin{array}{l}\text { Valuable Booklet on the } \\ \text { treatment of diseases. }\end{array}\right.$
$\$ 45$ ROMMAN $\$ 23.75$


Room I73 Eall Block, Muncie, Indiana.
COMMISSION AGENCY




lace. It is made over a white taffeta foundation, as linings in self-color do not look well under silk muslin featherboned lining that a glove-fitted featherboned lining that closes in the
center back, and is faced with lace to a round-yoke depth. The full front and back are gathered at the upper edge and applied to outline the yoke.

Waists in this mode require very little if made plain. Heavy wash fabrics and taffeta or peau-de-soie are appropriat

## OUTFIT FOR A BABY

This pattern includes nine different decoats for infants.

MDesire was an old maid. Perlaps, had she lived in a more
up-to-date town or had she been less of an old-fashioned woman he might have been called "one of the Gray girls," or even a bachelor maid.
As it was, she was simply an old maid. As it was, shee was simply an old maid.
Pretty sle had once been. Perhaps she
pauses to think whether But whold Miss Desire kept a small book-store. She pretty? all her books carefully. She arranged them attracively. She read them intelligently. She sold them discriminately. She lived simply and quietly and paiently in small rooms back of the store, with no one Miss Dray cat books that had just on the floor beside a package of her scissors, and removed the thick heavy cord Then slowly with, little lingering touches, she took out he new books.
To Miss Desire books were alive. They were her
iends. She touched them as if she loved them. Per haps she did. for in order to live one must love.
To-11ight she glanced rapidly over one of the
los, read a passage here and there from another, picked up a third, and paused at the cover.

The book was bound in gray. On the cover was a nd tints of gray. Below the picture was written "Desire." Across the lower left-hand corner of the cover was a white carnation, looking as if some one had dropped it there. picture. was "The Desire of My Life." It was written and illustrated by Max King.

Miss Desire experienced a strange shock. Gray was her favorite color. Carnations-white ones-were She herself might bue posed for the pitur Sie herself might have posed for the picture on the
cover.

It was all very simple, after all. He had become an author. He had written a book, and had used her and Fate had decreed that she should sell his book. But first she would read it. A delicious little thrill of excitement passed through her as she heard the crisp crackle of the leaves and caught the fresh scent of the paper.
added another chapter of her little life-story to be sitting there all these ycars? She opened the book, big gray cat on the floor, and began to read. The and curled up close by her side

She turned the leaves rapidly. Had there been somessions of her face he would have seen first a expressions of her face, he would have seen first a look
of absolute incredulity, followed by one of intense, over-deepening surprise. He would have seen the gray eyes grow darker and darker until they were black. eyes grow darker and darker until they were black.
He would have seen an unwonted and most becoming crimson deepen in her cheeks. And after three hours of steady reading, he would have seen something quite appalling. He would have seen a rush of tears dimming the darkness of Miss Desire's eyes and washing out the carnations in her cheeks.
Yes, Miss Desire
Yes, Miss Desire was quite old-fashioned enough
to weep to-night over her own simple little loven to weep to-night over her own simple little love-story. It all seemed so pathetic someway when told byy him.
It seemed unnecessary, too-the imisunderstanding the It seemed unnecessary, too-the misunderstanding, the separation, the silence-viewed across the years.

Then the clcck struck twelve. Miss Desire came back from the past with a start. "We are very wicked,
I suppose," she said, addressing the egreat gray cat. We're far too old for such thoughts.
Tobias only stretched and purred contentedly. It was evident that his sins did not
greatly trouble him. And Miss greatly trouble him. And Miss
Desire, being as sensible as she was old-fashioned, dried her eyes, and went to bed.
She drea
She dreamed of days long cied were forgotten. She roamed through Octobcr woods. and red
and golden leaves drifted, like glad thoughts, about her; she floated among the water-lilies in the sunshiue; she gathered roses in the old garden-and she was not alone.
But whatever the But whatever the drean, ing. The roses turncd to of parther hands, and the loneliness was so great that she awoke. of glory she of glory. she was quietly glad. The
sun could still shine, it seemed. and the birds sang their songs of yesterday. The outside world-GGod's
world--was the same as before the reading of the book. The inside
world-Miss Desire's Har little world - wes own particferent. It is one thing to assure one's self day after day that some one has forgotten. but it is quite another to know that all the time
lie has remembered, remembers.
She gave Tobias his milk, then she ate her own simple little break
fast. One must eat, even if one's roses have turned to ashes. It was Max King the author
whad written the book. Max
King the man and her former lover King the man and her former lover
had agreed to it, of course. Perhaps he had even looked on smilingly, indifferently, while the story had been written. Of these facts several days. Then Sunday came,
and in the evening came Helen. and in the evening came Helen.
When Helen came. other things were forgotten. It


When Miss Desire spoke she had apparently for-
eemed as if a wind. sweet with violets and spring blew through the room when she entered. You fel showed herself to bere she said a word. When she her. She was a yirl in her voice and smile, yo wonde Jack-but this is the story of Miss Desire, not of Helen.

She smiled down at Miss Desire. She was tal and straight and strong and supple. Her eyes were rank and steadfast. They looked straight into your heart. They were serious even when she smiled Her nouth-no one could read Helen's mout,
"Of course youtre reading the book," she said. "It girl as she was-the Desire in the book. No other a girl as she was-the Desire in the book. No other
kind of girl could have made just such a woman as you are. I like to think 'twas written for you. I met him, and told him so. and what I thought of his book and of you-"
. Feien? asked Miss Desire, a little nervo
book. "Why. Max King," said Helen, "the author. Some say it's his own story. Could one-do you think, Miss Desire-put onc's own story into a book to be read by every one?
"Yes-no-I don't know," said Miss Desire. in coherently; then she added, with a pitiful little quiver of her whole sensitive face, "Where did you meet Mr
King, Helen"' 'I've been in the city for a week, and at a dinner I was introduced to Mr. King. the famous author. He hates all women, they say. But there he was, and there I was, and he had to take me in. I was sorry or him, and I think a little afraid. That was the reaon I criticized his book-
"You did?" The words leaped out in Miss Desire's surprise. Criticize his $Y$ Yes; and he was cynical and disagreeable a only he can be. So I told him about you, and how you were like his Desire, only much sweeter and truer, and he listened. But he was so gloomy and dull I was glad when dinner was over. But-you do know him, don't you. Miss Desire?"

I did once," said Miss Desire. her eyes wistful and hining, ' 'a long, long time ago, Helen.
Helene were wery serious as she rose to go but something very like a dimple was deepening close
one corner of her mouth
11 her courage. It was such a simple. She summoned itle question, "Is-is Mr. King-did you say that he is married, Helen?"
"Married!" Miss Helen's dark brows arched themselves prettily. "No woman in her senses would marry
him. He's cynical, skeptical-lots of ugly and unnec him. He's cynical. skeptical-lots of ugly and unnecessary things, Miss Desire. Perhaps, though," she
said. with a tenderness in her eyes which Miss Desire said, with a tenderness in her eyes which Miss Desire
felt, but did not see, "perhaps if he had married that felt, but did not see, "perhaps if he had married that
woman he loved long ago, and had a home and little woman he loved long ago, and had a home and little children-perhaps he might have been better, differen omeway
Helen was looking at Tobias as she spoke. If she had looked up she would have seen Miss Desire's face
grown young again.

## Love or Duty? <br> By harery witrier rezess

HE SAT at his desk, staring at the unchangeabie evidence before him
of another's crime. It involved the honor of a trusted man and he lifelong happiness of a loyal and loving woman.
At the close of that day's business the accountant had handed him the annual statement of the bank's affairs. It told of many things-the bank's prosperity, its financial footing, and ended with the grim awakening to confidence misplaced. of ten thousand dollars. The face of the
leamed gray and haggard in the desk light. As president of the institution he was bounden to protect its interests. Policy alone demanded this man's conviction and his punishment to the limit of the

Such was duty.
But back of it all shown the faith and happiness of a woman-the defaulter's wife. That spoken word which duty de-
manded as its god-given right would manded as its god-given right would
condemn her to a lifelong heritage of condemn
shame.
hame.
His $m$
His mind reverted back to those never-to-be-forgotten days when he had wooed this very woman-and had lost. Tearcompassion, she had told him of another With hope deadened to despair he had accepted and respected her decision, but God pity him! that love lived on-undimnied, eternal. The intervening years Such was love.
And now his must be the decision. There could be no evasion. A man's infamy and its punishment; a woman's hapiness and its protection.
Love or duty?
The watchman entering the room roused him.
"A lady at the door wishes to see you," nnounced the man, hesitatingly
"You told her that the rules forbade admittance after banking-hours?" he asked,
visibly annoyed.
ure that you would see her. She gave me this."
He accepted the card mechanically. A oman soliciting charity, no doubt.
The glance of indifference changed to osest scrutiny and recognition.
God-his wife!
A moment later she stood timidly in he doorway, holding a child by the hand. ime," she began, appealingly-and he caught the note of sadness in her voiceHe I wished to see you alone.
Fe bade her enter and be seated. At looded thick and fast. The dormant blood of younger years leaped to his heor of younger years leaped to his
hearkening whirl. He noted the calm, sweet face; a little older, perhaps, but still the same. The child at her side told of a new happiness--the legacy of motherhood.
"I have come to see you about my husband," she confessed, reluctantly. "He has changed so greatly in the past few months, that I thought perhaps it might, be his work; that you would understand." ympathy in his eyes encouraged her. Her voice trembled as she continued: "He seems to have something on his mind over which he broods. Often me. Then, again, he will look at me in me. Then, again, he will look at me in few days ago I found him with our little Dorothy in his arms, and the tears were rolling down his cheeks. He is always so loving and kind, I can't under-stand-I-I-"
She was sobbing, and the man at the hat choked him.
"Dhe child drew closer to its mother.
Don't cry, mama-dear mama.
Suddenly the little figure straightened up with firm resolve, and darted swiftly across the room, and the man at the desk became conscious of the little one
at his knee.
at "You's orful naughty to make my dear mama cry," she lisped, chokingly, struggling bravely to
"Come, Dorothy," called the mother, gently, "you must not speak like that.
You don't mind baby, do you?" she added, appealingly. The man smiled sadly. "Mind her? For a while he sat silent. He was thinking how simple a matter it would be to
tell her all-how her husband's conscience tell her all-how her husband's conscience
lashed him to remorse. How simple, yet lashed him to remorse. How simple, yet
how despicable. how despicable.
"I shall give the matter my attention," he said instead. "Perhaps your husband is working too hard. His duties as first cashier are especially onerous. No doubt he needs a rest. I shall speak to him about taking a few weeks' vacation, and can almost promise you that he will soon be his old self again."
She smiled her gratitude, relieved and happy at his assurance. Suddenly her My grew grave.
Musband
My husband tells me frequently how kind and considerate you have been to him. Sobility that prompts it, for yout could the nobility that prompts it, for you could
almost claim the right to be otherwiseGod knows you could!"
"Nan!" The old pet
days swept impulsively from of other days swept impulsively "from his lips as
he crossed the room. "I would do anything to make you happy," he said, almost fiercely.
"She looked up at him imploringly. "Don't-please don't. I have no right to listen."
He bo

He bowed his head resignedly before her rebuke. "Forgive
right to speak," he said.
right to speak," he said.
She walked slowly a
She walked slowly away, and turning in the doorway, said, simply, "I shall" never forget your kindness. Good-night." The child hesitated as the mother left the room, and a moment later the man
at the desk felt a little hand steal softly into his.
"I's sorry I called you naughty," came the penitent whisper "'cause - 'cause mama likes you. I likes yous, too. You may kiss me."
For one brief moment he caught the child to his heart, and all the loneliness of his life was touched. He felt the little arms clasp his neck in confidence and love, and the touch of baby lips.
"God bless you, baby!" he m
"God bless you, baby!" he murmured, brokenly.

The mother's voice calling the child sounded softly from the outer room.
His head drooped lower
His head drooped lower over the desk until it rested on his arm. All the bitterness of his soul welled to his lips.;
Through all the long hours of the night he did not move. Visions of "what might have been" came and went. The watch-
man looked into the room, and thinking that the bowed figure slept, moved si lently away.

When the first gleam of dawn struggled in at the window the man raised his took out pening a drawer of his desk, he a woman smiled up at him from its rim of gold. For a long time he sat in silent contemplation of the image, then with al he reverence of his manhood he touche Love or duty?
Love.
That same day the first cashier was called to the office of the president. When he went back to his duties an hour later there was a strange new buoyancy in his manner.
Before the close of the day's busines the president had transferred ten thousand dollars from his personal account to the bank's funds.

She never knew.

## THE MEETING OF THE SHIPS

Two barks met on the deep midsea When calms had stilled the tide; $A^{\prime}$ few bright days of summer glee There found them'side by side.
And voices of the fair and brave Rose mingling thence in mirth; And sweetly floated o'er the wave The melodies of earth.

Moonlight on that lone Indian main Cloudless and. lovely slept; While.dancing step and festive strain

And hands were linked, and answering
With kindly meaning shone; Oh, brief and passing sympathies, Like leaves together blown!
A little while such joy was cast Over the deep's repose,
Till the loud singing winds at last
Like trumpet.music rose. Like trumpet.music rose.
And proudly, freely, on their way In calm or storm, by rock or bay

To meet-oh, nevermore!
Never to blend in victor's cheer,
To aid in hours of woe;
And thus bright spirits mingle here, Such ties are formed below.
-Felicia Hemans.

## 40-Cent Patterns for 10 Cents

These patterns retail in fashion bazaars and stores
for from 25 to the dress. All orders filled promptly. For ladies,
cents each, but in order to in.
give BUST measure in inches. For SKIRT pattern, for from 25 to 40 cents each, but in order to in- give BUST measure in inches. For SKIRT pattern,
crease the demand for our paper among strangers,
give WAIST measure in inches. For misses, boys, crease the demand for our paper among strangers,
and to make it more valuable than ever to our old
give WAIST measure in inches. For misses, boys,
girls or children, give both BREAST measure in friends, we offer them to the lady readers of our paper for the low price of only 10 Cents'Each. Full descriptions and directions-as the number of
yards of material required, the number and names of the different pieces in the pattern, how to cut and
fit fit and put the garment together-are sent with each pattern, with a picture of the garment to go by. hese patterns are complete in every particular, inches and
numbers. Satisfaction guaranteed or money refunded. tape-measure ALL of the way around the body the the dress, close under the arms. Special prlce of each pattern 10 cents.
Postage one cent EXTRA on skivt, tea-gown and
Pher heavy patterns.
PREE $\begin{aligned} & \text { We will give any TW0 of these patterns for sending ONE yearly subscription, } \\ & \text { new or renewal, to the Farm and Fireside at the clubbing price of } 35 \text { cents. }\end{aligned}$
Or we will send the Farm and Fireside One $011 y 35$ Celts
Year, new or renewal, and any ONE pattern for Address FARM AND FIRESIDE, Springfield, Ohio


Io cents.
Sizes, Sizes,


Dressing-Sadies' io cents. 32 to 42 inches bust.



## A Pennsylvania Boy

Earned $\$ 45.00$ in a month selling THE SATURDAY EUENING POST

$A^{\text {S SOON as you have sold a total of } 250 \text { copies }}$ will send to you, entirely without charge, a fine stem-winding and stem-setting watch. The watch is IN ADDITION to all other prizes offered and in no way interferes with them. In working for a
watch you will at the same time be increasing your chances for the cash prizes.

## Making Money After School Hours

$\mathrm{F}^{\text {IVE }}$ thousana boys are making money in spare
time by selling THE SATURDAY EVENING POST time by selling Thei SATURDAY EVENING them are makiing $\$ 10.00$ to $\$ 15.00$ a week.
We will fumish you with Ten Copies the first We will funmsis you with ien copies the irst copy; you can then send us the wholesale price
for as many as you find you can sell the next week.

## $\$ 225$ in Extra Prizes

 will be distributed next month among boys who semore copies weekly.

Sead for booklet, showing photographs and deseribing
of some of our most successfal boy agenta.
The Curtis Publishing Corng
The Western College for Women

## OXFORD, OHIO

Delightful location in the beautiful Miami Valley of southwestern Ohio, one hour from Cin Superior advantages in Art, Piano, Voice and Violin. Campus of sixty-five acres. Special
attention to physical culture. Forty-ninth year begins Sept. 9, 1903. Number limited to 200


 equal advantages nering
home and at
half the cost ess than
hat Shall shest ehoosea col-
lege a the tho sand stu-
lents, or one where the number or one where the the
limite in
order that eact ooung
woman may come cont Woman may come into
direct personal contact
with the membert he Faculty? members of
Shall she go Shall she go to some
Conservatory of Music
which does not offier general culture, or sliall
music become part of
complete and
rical edincon
rical education?


## A four-years' 'lassical course for the B.A. degree. S. A healthful location. a beautifil campus, com2. A thre-years' 'iterary course for a diploma. 3. A sand ara eual er that of the best tolleges. 4. A wide range of elective studies.  <br>  <br> LEILA S. McKEEE, Ph.D., President <br> FREE DINNER SET


arucies in glass wares, chinia ware.e. granite ware. etec.
cour dinner sets art not
dike
ishee



to customers and
to aneots; ;it will
pay you. No
No
nioney reauired
ABEURUTE
ABETUTE



gods and you the the miams yous select, pay freight
beiore paying us. Addaress

## AMERICAN SUPPLY CO., 900-906 N. 2d Street, Dept. 25. ST. LOUIS, MO.

Remington
Single and double barrel shot guns will appeal
to you on account of their moderate price "THEY STAND THE RACKET."

## Ask your dealer or send for catalog which gives comple REMINGTON ARMS CO.



## COMPANY MANNERS



## A

T EUNice's
 When any $0^{\circ}$ her relations hez a weddin' ye kin tin er ly count on seein' , wonderful turnout Tother day they invited Uncle Theodore ter one o'
their celebrashuns, an' it was a corker.
There was young folks an' old, babies hull lot o' second cousins
he never kin reckomember Not bein much acquainted crowd, Uncle Theodore played "pussy-wants-a-corner most o' the time, a
enjoyed hisself lookin' on an' listenin'. It was a sight ter see the dif'rence,
twixt the manners o' one an' anotlier o' the cousins.
Now, o' course there's home manners an' comp ny manners an' no manners at
all. Them as hev sech hard work wearin' comp'ny manners gener'ly hez a small stock o home manners. It don't take long ter diskiver which folks hev the rale genooine sort o fine, cultervated man-
ners. It stands ter reason that individooals what borrer comp'ny manners fer 'minds me o' them scarecrows the boys use ter fix in the corn-fields. Mebbe the crows was deceived, but ev'rybody else
knowed 'twa'n't nothing but Jerry's old clo'es stuffed with straw.
'Less
'Less people's got something inside
ter make 'em kind an' considerate-like n' gentle, comp'ny manners may fool "spring chickens," but not old birds.
Folks as knows most an' hev be ' $n$ well Folks as knows most an' hev be'n well
brung up don't seem ter hev ter put on manners nohow; they jest move 'round quiet an' easy-like, speakin' gentle, an'
never bein' boisterous er rood, never hurtin' nobody's feelin's, so that manners is fergot, an' ev'rybody feels comf'table as an old shoe, jest cause sech folks are
so kind an' thoughtful fer others. These so kind an thoughtul fer others. These that old sayin':

True perliteness is ter do an' say
The kindest thing in the kindest wa
Wall; as I was a-sayin', that night a Jenny Knowlot an' Paul Smart never seen no sech doin's afore, an' ev'ry-
body knowed it, 'cause when refrishment was served, an they couldn't git at fust table in the dinin' room, they crowded
past old folks an' young till they could see in, an' there they stood larfin' an'
talkin' so loud ev'rybody heard what they said, an' many eyes frowned at them.
Then there was two er three other
couples huntin' fer the easiest rockers, couples huntin' fer the easiest rockers,
an' then sittin' an' sittin' in 'em, never an' then sittin' an' sittin' in 'em, never when they was spoke ter, an' jest lookin kind o scairt an' solemn-like, no matter
who came near 'em; lettin' old Aunty Stiles an Uncle Clover stand an stand
they theirselves never onct noticin' that seats was scarce, an' they jest holdin' on ter them rockin'-cheers an' ter their
comp'ny manners fer dear life, lest they might lose 'em.
Bimeby 'long came sweet Betty Stivers An' when somebody askt her ter play a tune on the pianny, she jest said, "Cer-
tainly, if it will give you pleasure." She didn't wait ter be teased, er ter say she couldn't play 'thout notes, er ter 'low she never played in public. She jest went
an' sang a sweet little old-fashioned song something 'bout "Gentle Words an Lovin Smiles," bright an' cheery as any
bluebird; an' then she played a lively she didn't git 'em all ter singin' "John Home" an' "Auld Lang Syne", 'fore they Home" an "Auld Lang Syne" It jest peared like she clean fergo ant evenin'. An' when all was over, many tired heads, fergittin' their comp' song an' her graceful way o' makin' a good time fer ev'rybody.
As he walked homeward from Aunt he had seen brashun. meditatin on what he had seen, Uncle Theodore said to his-
self, "Blessed are the happiness-makers," fer ter them belong the true comp'n
manners.

BIRD-HOUSES, AND HOW THEY ARE BUILT
Birds, like people, have different ideas as to where they shall live and how their
The partridge chooses a hollow in the ground close by the roots of corn-stalks or tufts of grass, with overhanging weeds as a covering, so that passers-by will not and grass are it. A few bits of twig home is ready for the fifteen or twenty eggs that form the cradles of the tiny The merry to be.
The merry song-sparrows tuck their snug little nests of horsehair and feathers in a grassy bank or on a low vine or
bush. The male carries the materials of which it is made, and the mother bird weaves them together.
Tmost pugnacious wrens are satisfied with almost any kind of a hole. After stuffing brick-colored eggs are laid in the cente of the heap.
The tailor-bird selects two leaves or one large one near the end of a twig. In and aided by her slender claws, she sews the materials together, making extremely neat stitches, leaving a small hole at th top for entrance and exit. Gathering delicate thistle-down, fine grass or feathers, she lines the nest so that it may be The fairy-marting-place for her young. The fairy-martin has a nest like a common oil-flask. It builds its curious house firm, smooth dough. Six or seven birds generally work at the same nest one acting as a sort of majordomo while the others carry the material as fast as it can others carry the material as fast as it can ning or early in the morning, as the heat of the sun dries the mud too rapidly Each nest has a sort of spout, by which it is entered. The outside is very rough but the inside is very smooth, lined with
The baya lives in India. In Burmah he builds his bottle-shaped nest under the eaves of the houses; no one disturbs it, and sometimes as many as thirty may be seen swaying to and fro in the breeze. The upper part is divided into two rooms -one for the mother bird and the other for the father bird, while down below is Baya is settled. Just as soon as Madam ful mate brings bits of soft clay, which he sticks on the inner wall of the nest; then out he darts a gain, and secures live fireflies, which he fastens on each clay lump so there will be light in the home Upon the highest and most inaccessible cliffs the golden eagle rears its nest-a very rude one-just large sticks and branches heaped together. Year after year the father and mother return to their
old habitation, making fresh additions, but never clearing away any of the rubbish.
There is a certain swallow that glues its nest on rocky cliffs and inside deep caverns. The nests are made of a pe-
culiar kind of seaweed that the birds swallow, then deposit from their mouths when it has become moistened by their edges of the nest, and the whole structure edges of the nest, and the whole structure bits of gelatine are highly prized by the Chinese, but it is an
The eider-ducks build their nests in companies, making large settlements with roads, where they can go down to the ether to build their homes. Between small hillocks they lay a foundation of seaweed or coarse grass, and upon this a bed of down is arranged and heaped up at the sides to keep the eggs warm.
The great-crested flycatcher always hunts up a few snake-skins to weave into her nest, using a lining of soft brown What odd nests the flamingoes make! They are nothing but slender mounds of somewhat like an old-fashioned churnsmall at the top and growing larger toward the bottom. A small hollow is scooped out to hold the eggs, and here the bird sits, like some scarlet statue on a pedestal.
So the birds, little and big, build homes, ome exceedingly commonplace affairs, ture. Thase of the wame species build them alike from generation to generation, on the tree-tops, in the meadow-grass, by the brookside and on lofty mountain-
tops, rearing their young and fitting them tops, rearing their young and

## Wit and Humor

## A DELICATE SUBJECT A di"'Miss A sume's

MDGE- 'Miss Autumn's name was printed wasn't mentioned." Marjorie-"Of course not. That girl's age is unfit for publication."-Life. EPIGRAMS AND EPITAPHS
There is not much difference between an epigram and an epitaph. An epigram
says unkind and true things about the living; the epitaph says kind and untrue things about the dead.-London Punch.

## PA'S IDEA OF SHIPS

"What is an air-ship, pa?"
"A ship that puts on airs, my son." "Is an air-ship, like other ships, called "'Certainly. Didn't I just say that an air-ship was a ship that puts on airs?"-

## DECEIVED

"Very often, I suppose,"'said the inquisitive person, yout are deceived by whom you quietly help."
"Yes, indeed," replied the wealthy philanthropist. "It's just like throwing ple you think will advertise you most never say a word."-Philadelphia Press.

## CERTAINLY A SKILFUL PHYSICIAN

"Faith, he's a moighty foine docthor. He attinded O'Pheelan whin he was sick y th' appindicutis. 'Poke out yez
oongue,' he says. 'bedad, Oi'll have to toongue,' he says: 'bedad, Oi'll have to opprate on ye,' he says. 'Divil a bit Thin yell be a dead man be two o'clock; Thin ye ll be a dead man
he says. So he opprated."
"An' saved O'Pheelan's loife - wan An saved athed
hour. He died at thray."-Kansas City Jourrnal.

## THE KANGAROO'S MONEY

Andrew Carnegie brings each year rom. Scotland a. new collection of Scot-
ish. stories. One of last year's gathering concerns an ignorant farmer
This farmer, over a glass of whisky, of an old friend of his, a peddler. The peddler said the times were always hard in Scotland; the people had no money there; it was a poor place to, get along in.
"What you say is true," the farmer "What you say is true," the farmer agreed. "Why don't you emigrate to
Australia, Tavish? Australia's a grand place, by all accounts.
"It used to be," the other returned,
"but it is so no longer. Australia is as "but it is so no longer. Australia is as
overcrowded now as any other land." overcrowded now as any other land.
"The coast may be," the farmer admitted, "but the interior I'm sure is not. Go to Australia, Tavish, and push into he interior."
"The interior?" said the peddler. "There's nothing there but kangaroos." The farmer thought that kangaroos
were some foreign race of people. "Well, Tavish," he said, reproachfully, "isn't a kangaroo's money as good as any other man's?"-New York Tribune.


THE OLD, OLD STORY
Mrs. Uptowne-"Horace, who was Richard the Thi Mr. Uptowne-"Oh, probably to a new cook he had


Ethel-"Wouldn't he give you his seat in the car?"
Madge-"No, the mean thing! And he held up his it reading 'That Tired Feeling.

"You always speak of the beautiful sunset,
but I've never heard you say a word about a sunrise."
"I never see them.'"
$\qquad$

DOMESTIC ECONOMY Poor man-"Well, did you buy that book telling all about how to economize in the kitchen?
Wife-"Yes; I've got it."
Poor man- That's good. What does Wit say?" "It is full of recipes telling how to utilize cold roast turkey-but we to utilize cour roast turkey-but we

STINGINESS REWARDED
There is a Chinese story which tells how a very stingy man took a paltry sum of money to an artist-payment is always exacted in advance-and asked him to
paint his portrait. The artist at once paint his portrait. The artist at once complied with the request, but when the
portrait was finished nothing was visible portrait was finished nothing wa
save the back of the sitter's head.
save the back of the sitter's head. ter, indignantly.
"Well," replied the artist, "I thought a man who paid so little as you paid
wouldn't care to show his face."-China and the Chinese.

## HAPPY ALL AROUND

They had received a letter from son Henry, who was at college
"He says,", said Aunt Martha, wiping a tear from her eyes; "he says that the happiest minute in his life was when he got on the team.
"Dogged if I don't recollect it as plain as if 'twas yisterday," responded Uncle Sias. "It was in the fur field, an' he lifted him up, an' put him on old Kate's back after the day's plowin' was done He cant fergit the old farm, Marthy, he can't fergit the old farm."-Indianap-
olis Sun.

## how Careless

"I saw Fuddlesome, running down the street this morning," says the first suburbanite. "What was the matter?" geon and a machinist," explains the sec ond suburbanite.
"What was wrong?" to see that everything was all right, and automobile for the night. You know how careless he,

Yes; but-
"Well, now the mule has gasoliniti
and the auto has hay-fever."-Judge. and the auto has hay-fever." -Judge.
A MISNOMER

An enterprising insurance-agent in
duced an Irishman to take out an acciduced an Irishman to take out an acci
dent policy for lis wife. A few day later, while conversing with a friend in man rushing in, brandishing fiercely a man rushing
stout cane. "Ye rascal!" he yelled, springing Fortunately the enraged man was dis armed and held fast by the agent's friend who was a powerfully built man. The Irishman, struggling to get free, shouted "Let me get at that spalpeen! Think iv it, chargin' me foive dollars fer an accidint ticket fer me ole woman, an she she
jest broke her leg a-fallin' down-shtairs What's the good iv, the ticket, anyhow?

Popping of lamp-chimneys is music to grocers. Macbeth.

If you use a wrong chimney, you lose a good deal of both light and comfort, and waste a dollar or two a year a lamp on chimneys.
Do you want the Index ? Write me.
Macbeth, Pittsburgh.


The Pleasure of Hunting

## PETERS

 FACTORY LOADED SHELLS will insure a full game bag. "League," "Referee," "New Vicior," " ldeal," "Premier," "High Gun." aLL gRADES TO SUIT ALL PURSES Each the Best of its kind USE PETERS METALLIC GARTRIDGES

DEAFNESS AND HEAD-HOISES CURED AT HOME. SMALL EXPEHSE
 GRAY HAIR RESTORED

 Price 60 cents a bottlo, postpaid. To convince you of itis
nerit PACIFIC TRADING CO., Dist. ottice 22, 51. Louls, Mo.
$\$ 100$, to $\$ 300$. MONTHLY,


FREE Treatment for HEART DISEASE





Hay Fever and Asthma
 . WANTED Every lady to send five names and receive a California souvenir free of charge.
Merit Beautifier Company, Los Angeles, Cal.
 TAPE-WORM Eematian

$\underset{\substack{\text { Ir afler cted with } \\ \text { wear feed } \\ \text { use }}}{ }$ Thompson's Eye Water

## WORLD'S FAIR-WONDERLAND OF 1904

Mysterious and Interesting Sights at the St. Louis World's Fair

## Stranger Than Liliputian Land

Buried River, Grant's Farm "Hardscrabble," Floral Clock, a Cyclone and a Snow-Storm, and Hundreds
of Other Novel Features

SOMEWHERE in Africa there is a large lake of clear water. into which several rivers are constantly
emptying, but which never overfows, althoigh there is 110 visible outlet. Those who have visited place say that a subterranean passage probably provides an escape, and that on very still days they they believe the sound is caused by the rush of water through this mysterious channel.

Something like this has attracted a great deal of attention at the Werld's Fair grounds at St. Louis. and will attract much more when visitors are arriving by

So a number of engineers were called upon to decide what was best to do, and their verdict was that the River des Peres-for that is its name, meaning the This, then, was the first mork be put underground. grounds, and it cost nearly one hundred and twenty thousand dollars to build the huge aqueduct and divert the stream from its natural channel. It was work that does not show, and you wouldn't have known anything about it if somebody hadn't told; but now you do.

## Can Flowers Tell the Time of Day?

To be sure they can, and they are going to do so in two ways at the great World's Fair next year. In the first place, there is to be a great foral clock on the
grounds-one that is a hundred feet in diameter. The face of this clock will be of fowers that diameter. The the soil; the numerals will be of flowers of a different color, that are higher. and the hands will be of creeping vines. While you stand and watch you will see the vine-cluster that represents the minute-hand slowly move as it sweeps around the large dial, and if patient enough you may see the hour-hand move, also. What's the trick? you will ask. Well, it is very simple. Those vines which form the hands grow from long. shallow boxes which are supported on steel frames, and these
to date, and there is a tiny railroad-train-so small that one could almost pick up the locomotive-running on stretch toot! toot! What a whistle! Let us take a seat. Yes, there's plenty of room for the grown-ups, because the cars have been built wide, even if they are very low There, only one in a seat, and away we go, the bell clanging and the baby locomotive snorting and puffing just like a big locomotive does. Whew! but we are moving fast! There is a good deal of power in that little engine. Along and along, around a curve, then another; there is a grating sound. and we stop by the side oi a station. "We're on a side-track!" you ex claim; then, rounding a curve, perhaps fifty feet away, you see another Liliputian train coming toward you. ver's day. Then they wouldn't thave trains in Gulli two thousand horses in order to drag him into the city two thousand horses in order to drag him into the cit
from the place where he was thrown on the beach.

## But Talking of Snow

How pleasing it will be to see the white flakes falling in the months of July and August, and to see them without having to take a trip near the poles. That's
another treat which St. Louis has in store, and in the


LOOKING EAST ALONG MAIN TRANSVERSE AVENUE, WORLD'S FAIR. ST. LOUIS, MO., FROM ROOF OF VARIED INDUSTRIES PALACE, SHOWING ON THE RIGHT THE NORTH KING EAST ALONG MAIN TRANSVERSE AVENUE, WORLD'S FAIR. ST. LOUIS, MO.. FROM ROOF OF VARIED INDUSTRIES PALACE, SHOWING ON THE RIGHT THE NOR
FACADE OF ELECTRICITY PALACE, THE EDUCATIONAL PALACE, AND THE GLOBE AND OBELISK OF MINES AND METALLURGY OUTLINED IN THE DISTANCE
the hundreds of thousands. There will be no lake in sight, but there will be a hidden river, and if the crowd only remains still long enough you will hear the roar beneath your feet: if not, you can make out the sound distinctly by pressing your ear to the
ground at certain points, which the guides will indicate. ground at certain points, which the guides will indicate. plunge into the dark channel under the World's Fair plunge into the dark channel under the Worlds Fair day after a heavy rain you will see it tossing and foaming as it tumbles into what resemble great jaws of wood. then disappearing from view. Would you like to see it again? Then walk along that roadway, which bends like a bow, and which will take you between the main buildings, and in fifteen or twenty minutes you will reach the eastern limits of the site, where the water will be seen once more tossing and foaming as it escapes from its buried passageway. It is now fowing into Forest Park, and will wind around the southern part oist. Louis until it reaches the Mississippi.

This river has been made a mysterious underground stream by the work of man. It flowed through the any one ever thought of celebrating the Louisiana Pur-chase--yes, long before white men ever came to Missouri. It was a very crooked stream, flowing east, west, north and south. and when the directors had decided upon the Exposition site, the men who were
engaged to erect the buildings were in despair, and cried out. "Why, that river will wash away all our
frames are connected by ingenious mechanism with clockwork, which is within that ivy-covered tower over there. Watch now! It is eleven oclock. See, the door in the tower swings open, and reveals shining wheels, huge weights and a swinging pendulum. Liseur in musical notes that ban be heard all over the grounds.
The door closes again; the tower, seemingly a mass of ivy, is silent; the great green hands continue their journey-all the machinery hidden by the leaves and petals. the second way in which the flowers tell he time? You have doubtless watched morningglories open soon after sunrise, and have noticed how regular they are, coming out of their sleep at the same hour every day. Naturalists have found in different parts of the world flowers that open at different hours, and specimens of these have been gathered for the World's Fair at St. Louis, where they are so arranged in little beds. opposite the numerals. that when the near by will open. And thus they will continue to near by will open. And thus they will continue to wonderful lily of the Amazon, that has lain dormant while the sun was shining. spreads her long white petals in the shadows and gives forth a delicious per-
$\qquad$
Come, now, everybody. Step this way, and we can easily imagine ourselves on the Island of Liliput, made
same building where one can see this midwinter storm there will be the largest artificial-ice skating-rink in the world.

Mentioning the weather, there's a man who is preparing an illusion for The Pike, where one can go through a cyclone and not be hurt.

## Did You Ever Hear of "Hardscrabble?"

The name is familiar, is it not? That was the farm where Ulysses S. Grant lived long before he became commander-in-chief of the Union armies. The General was not a very good farmer, and perhaps that is why he gave this name to his home while he was trying to support his family in St. Louis County by-cultivat ing corn and potatoes. Yoll will be able to see "Hard scrabble" at the Fair. for the house has been moved to within the site from the spot where it was built, and the grounds around it have been arranged as were the grounds around the old homestead. even to the flower to pull weeds from between the peonies.

## The Holy City

Think of seeing the Mount of Olives and other sights that one travels thousands of miles to view in the Holy Land! A million dollars is being expended to make a perfect reproduction of Jerusalem within the World's Fair inclosure, and it is promised that every thing-buildings. streets. hills and rivers-will be faithfully presented, even persons and animals coming from
the Holy City to give life th the sit

## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. It Will Sharpen Your Wits, Quicken the Intellect, Afford Healthfui
and Give Innocent Amusement and Entertainment

> Residents of Springfield, Ohio, are not allowed to enter the contests

## THE PRESIDENTS AND VICE-PRESIDENTS PUZZLE

Here are Six Pictures, Each Representing the Name of a Former President or Vice-President of the United States. Can You Guess Them?

We Offer Eight Dollars Cash in Four Prizes, as follows: Two Dollars to the First Boy from Whom we Receive a Correct List; Two Dollars to the First Girl from Whom we Receive a Correct List; Two Dollars to the First Man from Whom we Receive a Correct List, and Two Doliars to the First Woman from Whom we Receive a Correct List. Contestants Must State their Ages, and Answers Must be Received Before October Ist.

## ALSO A PRIZE FOR EACH STATE AND TERRITORY

As further rewards for our great family of readers, a copy of Vols. I. and II. of "Gems of Art," two compilations of famous pictures with interesting descriptions, will be given for the first This means a book for each of the forty-five states, one for each territory, one for the District of Columbia, also one for Canada.

The first correct list from each state wins a prize, giving an equal opportunity to all our readers wherever located. In the states where the cash prizes are awarded the prize books will be given to the person sending the second correct list, so that no person will receive two prizes. Answers must be addressed to
the "Puzzle Editor," Farm and Fireside, Springfield, Ohio.


ONE


FOUR

## The Trades Puzzle

## I-Blacksmith. 4-Painter <br> 2-Barber. $3-$ Cooper. 5-Baker.

The cash prizes are awarded as follows:
Boy's cash prize, two dollars-Quenlan Comfort, Girl's cash prize, two Manchester, New Hampshire.
an's cash pize,
Woman's caan Territory.
Woman's cash prize, two dollars-Mrs. Bessie L.
eorgia.
A consolation prize, "The Career and Triumphs of for sending in the first correct list of answers from their respective states.
Alabama-Frank L. Kessler, Prospect. Arizona-A. P. Walbridge, Phœenix. Arkansas-Johnnie Vestal, Waldo. Canarnia-Harriet J. Robinson, Grass Valley. Colorado-Lois Burlew, Denver Catarqui, Ontario. Connecticut-Mrs. Milo W. Benn Delaware-Mrs. S. R. Hance, State Road. District of Columhia-J. S. Swan (Nat'l Museum), Washington.
Florida-Jo
Georgia-Mary Nutt, West Tampa.
Idaho-Orville D. Ellis, Boise.


Illinois-Mrs. A. R. Barton, Chicago Indiana-G. M. Bascom, Lynu.
Iowa-D. O. Savage, Ireton. Iowa-D. O. Sa vage, Ireton.
Kansas-Bennie Allen, Cottonwood Falls Kentucky-R. E. Fox, Winchester. Louisiana-H. R. Bodemuller, Opelousas. Maine-Hollis E. Rowe, Amherst. Maryland-Earle F. Dorsey, Jefferson.
Massachusetts-Earl F. Davis, Fall Rive Michigan-Daisy Buell, Traverse City. Minnesota-Lucile Douglas, Minneapolis. Mississippi-S. K. Moore, Carroliton. Missouri-I. G. Smith, McCredie. Montana-O. B. Walton, Meadow Cree
Nebraska-Alta Stacy, Davenport. New Hampshire-Miss G. M. Webster, Manchester New Jersey-Elmer E. Bearns, German Valley.
New Mexico-Mrs. L. B. Hoff, Farmingtor New Mexico-Mrs. L. B. Hoff, Farmington. New York-John A. Moffit, Ellicottvill Southern Pines. Ohio-C. V. Mitchell, Zanesville. Oklahoma-Milo Wood, Moran. Oregon-Mrs. John Ennis, Nyssa.
Pennsylvania-J. B. Johnston, New Wilmington Rhode Island-Mrs. W. E. Saundcrs, Westerly. South Carolina-A. H. Kohn, Columbia.
South Dakota-O. W. Garton Plankinton. South Dakota-O. W. Garton, Plankinton Tennessee-Ursula Lassiter, Bell Buckle.
Texas-John C. Bridgewater. Smithville. Vermont-Percy K. Barrett, North Clarendon. Virginia-Mrs. J. C. Townes, Mt. Olive. Washington-Ettie R. Rankin, Olympia. West Virginia-Mary A. South, Morgantown.
Wisconsin-Eugenie Eaton, Watertown. Wyoming-Ora Laughlin, Glendo.


THREE


SIX
"THE PASSING OF THE SUMMER GIRL"
BY LIDA M. KECK
The wind caressed, with fingers brown Her snowy brow and neck and cheek Through all the shops we vainly seek.
The morning bathed her eyes with dew, A limpid, lustrous, cloudless blue That made her glance a thing divine
The sun, with skilful hand and deft,
Wove in his loom her shining hair, And in its golden glint he left A subtle patteris and a siare!
Health led her gaily o'er the sand
To blue domain of salty sea,
Where Neptune stood with outstretched hand And gracious hospitality.

Love's ship lay idly in the bay
With anchor dropt and sails, afurl; And took with him my Sum,

## A RIDDLE OR TWO

## What is that which by losing an eye has nothing

What is that which goes up the hill and down the
Weft hut
What
hill, and sel stands still? The road.

Deadly

## Symptoms

Hollow Hacking Coughs, Bronchitis, Chronic Tonsilitis, Chronic Sore Throat, Asthma, Catarrh, Throat and Lung Troubles, Night Sweats, are All Symptoms of the Deadly Consumption.

If You Suffer from Any of the Above Symptoms, I Will Mail You a Large Free Trial Package of My Marvelous Cure-Send Name and Address To-day. If you are suffering from a dry hacking cough,
night sweats, intermitteltit fever, dull headache,



DR. DERK P. YONKERMAN chronic sore throat, bronchitis, ast hma, tonsilitis or
any throat or lunn trouble, you are in danger of the deadly consumption. Vital statistics of the United deadly symptons for their primary cause I have discovered a maryelous remedy for the quick and positive cure of these deadly symptoms,
and I send it free, by mail, to all who write, in paick ages sufficiently large to give instant relief and demonstrate the marvelous curative power of the remiedy
Write to-day to Dr. Derk P. Yonkerman1, White to-day to Dr. Derk P. Yonkermanl, 2873 money, simply your name and address, and receive
by return mai absolutely free this wonderful dis-
eovery that will by return mail absolutely free this wonderful dis-
eovery that will give you instant relief and do you
more good than all the other medicines or changes eovery that will give you instant relief and do you
more good than all the other medicines or changes
of climate.

This Solid Sterling Silver
Gold Lined Sugar Spoon
Or your cholce of the following at


 Sent to
any
and any
address
post
port Rogers' Silverware, Jewelry,
$\begin{aligned} & \text { post } \\ & \text { paid } \\ & \text { for }\end{aligned}$ Clocks, etc, mailed FREE.
ROGERS, THTURMA \& CO.,
75 cts.
Jewelers Wholesule Snppis House,
150 Wabash Ave., Chicago, IIi.
 HN Mark the Grave Headstones $\$ 4$ up Meadstones $\$ 4$ up Blue or White Marble nicely lettered. Instructions
for setting. Save agent's
commission. Send lor Calalogue. mmission. Send tor Ca
W. M. MOORE,
Thira St. Sterling

## SOLID SILVER



 $\$ 1.00$ Makes $\$ 15.00$ A Aents coining money King of Pallu. Cures all Pain, Fevers or Inliammation'
Burns will niot burster if it is applied at once. Fannily
size, 25 cents. Send for circulars. Acrys. size, 25 cents. Send for circulars. A A ENTs W WAIED.
The E. G. Richards Co., Box 543 , Tolecio,


The Money we Save You

ALL STEEL LAWN FENCE
 ) Mall iner fud dection suave Agent commsision 971 North loth St. TERRE HAUTE, NDD. MIXED PAINTS


T EXTENSION AXLE NUTS





Quick, Convenient Corn Cutting

## Scientific Gorn Harvester

breeder-that is. a breeder who is mak-
ing the dairy part of his. business pay:
for it will be fond

## CURRENT NOTES

The macaroni-factory at Chardon,
Ohio, is believed to be the largest one
$\qquad$

|  |
| :---: | kets for our agricultural products. The

United States stands at the head of the
unanufacturing nations, and the value o
the ulanuarcuring nations. and the value o
the annual outputis nearly as great a
the
and and France combined. Honesty of purpose increases one's
self-respect. The fruit-grower who pro-
tects his frut fron disease and insects
by means of improved methods. and
$\qquad$

| The director of the United States Experiment Station in Hawaii now reports that he has been successiul in his exthat he has been successiul in his ex- periments of growing cotton and Sumatra tobacco. He believes that both products may become staple ones will no doubt prove true in Porto Rico and the Philip Philippine Islands. <br> Just as it should be. North Carolina has wisely retained the right name for the college founded in accordance the Morrill Act of r862," "Agricultural and Mechanical College." The Nort Carolina Agricultural and Mechanical College at Raleigh has five hundred and six students enrolled. are one hundred and thirty-one in agriculture, one hundred and fourteen mechanics, eighty in electrical engineering, sixty-four in inechanical engineering, fifty-six in civil engineering, forty-two textile students and sixteen in industrial $\qquad$ <br> The Year Book of the United States Department of Agriculture for the 1002 is onc of unusual excellence. great saving is shown by the proper use of better grades of commercial fertilizers. It also takes up the subjects of the introduction of improved varieties of of/seed-corn; improved methods of cul ture of trucking products; how onion by the transplanting system. and how been kept under better control than in former years. The only sure way to secure an early copy is to make a written application to a member of Congress |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



BEST PAY

WIRE


## "Big Four"

World's Fair Route From the
Leading Cities of
Ohio, Indiana and Illinois St. Louis

Write for Folders
Warren J. Lynch



## Some Effects of the Great Kansas Flood

HONDREDS of accounts have been written of the great flood which swept down the broad valley
of thic Kaw (or Kansas) River during the last lays of May, 1903, and yet there seems to be good reason for another presentation of the subjectthis time from the viewpoint of an observer reasonably familiar with the valley for many years, and especially interested in it as ant agricultural region.
On the morning of the first of July I rode from Kansas City to Topeka on a local train, noting the effects of the flood on the valley lands and crops. It was a pathetic sight. Drowned-out fields of wheat,
corn and alfalfa; orchards broken down, torn up by corn and alfalfa; orchards broken down, torn up by the roots or entirely carried away; houses and barns
wrecked by the force of the rushing water; fences gone or weighted to the ground by accumulations of trash which the posts and wires had caught; fields and meadows replaced by washouts or wastes of drifting sand-the heaped-up evidence of the great losses which the farmers of the valley had suffered, and from which some of them will hardly recover in a lifetime, was enough to make the heart sink. Therc is no guessing the anount of the loss.
But floods are
But floods are not mere engines of destruction rushing with resistless fury down fat valleys, leaving them lean and bare and unproductive. The flood robs Peter without compunction; but it pays Paul with a orchards that were orchards that were
destroyed are so much waste, but the soil washed from thousands of hillsides and from other thousands of rich valley farms was not all lost. Much of it was deposited where it will be of great benefit. Thousands of farms are richer, and will be richer for a generation to
come, because of the come, because of the
great flood of 1903 . Who would gladly suffer the destroying flood would insure a score of more profitable crops in the years to follow? The deposit of silt which the receding waters left has doubled the value of many a
farm. The farm. The desolarush of water is not to be overlookicd, benefits should not be left undiscovered What was visible along the railroad from Kansas City to Topeka-a distance
of sixty-five miles
-was hardly different from. that which was to be seen the same day between Topeka and Manhattan, the latter place fifty miles further west. From Manhattan, where the Blue joins the Kaw, the flood was at its maximum, although the Kaw is formed some twenty miles further west by the union of the Smoky Hill and Republican Rivers, both of which rise in the of the many streams which unite to form the Kaw of the many streams which unite to form the Kaw
were destructive enough, for it seemed that every tributary was swollen to an extraordinary size during the memorable last week of May. The "pocketing" of a great storm area over Kansas and southern Nebraska was an event of a lifetime. Heavy and continuous rains over a vast area already soaked with water could not but result in a great flood; and as
the storm area moved eastward hardly faster than the
flow of the rivers, it was inevitable that the flood should be one that would attain extraordinary proportions. A few facts concerning the dramage area of the Kaw and its principal confluents in relation to the drainage areas of other well-known rivers will help the reader to understand the destructive possibilities of the Kaw when once in lalf a century its tributaries time their risings to reach the junction-point on the same date. The Susquehanna-measured at Harrisburg, below the mouths of all its principal branclieshas a catchment-basin of 24.930 square miles; the Smoky Hill at Junction City has a dramage arca of 20,423 square miles, and the Republican at the same point drains 25.837 square miles. Here, then, we have two streams uniting one hundred and fifty mnles west
of Kansas City after draining an area nearly twice of Kansas City after draining an area nearly twice
the size of the watershed of the Susquehanna. The Connecticut at Hartford has a dramage-basin of 10,234 square miles; the Blue, which joins the Kaw at Manhattan, drains 9,490 square miles of Nebraska and Kansas land. Measured at Lawrence, about fifty miles above its mouth, the drainage-basin of the Kaw River amounts to 59,841 square miles-an extent of country greatcr than Pennsylvania and Maryland combincd, The Kaw drains more territory than the Connecticut, Merrimac, Potomac and Susquehanna Rivers taken the whole of New Fingland could be included in the the whole of New England could be included in the


VIEW OF THE FLOOD FROM BLUEMONT
catchment-basin of the Kaw. So it is liardly to be wondered at that there should occasionally be a flood
to remind the people of Kansas that the "flood plain" to remind the people of Kansas that the "flood plain"
of the Kaw really belongs to that ancient river when of the Kaw really belongs to that ancient river when The illustration on this
The illustration on this page shows the flood from Bluemont, a hill which rises two hundred and tell feet
above the Blue River at Manhattan. In the fore above the Blue River at Manhattan. In the fore-
ground may be seen the pumping-station of the Manground may be seen the pumping-station of the Man-
hattan Waterworks, the Blue Valley Railroad and the Blue River itself; then a belt of timber, beyond which is shown an area of about seven thousand acres of rich is shown an area of about seventhousand acres of rich submerged hedge running toward the upper left-hand corner of the picture shows where the main road runs east from Manhattan. This road and the adjacent
fields were much damaged by the water of the Blue,
which made the beginning of a new channel about four miles east of the present bed of the stream. In bluffs beyond
The illustrations which appear on page 3 were de-
scribed as follows in a letter from Mr. S. C. Orr, who scribed as follows in a letter from Mr. S. C. Orr, who made the photographs:
"A washout on the farm of William Allingham, two and one half miles soutli of Manhattan, in the country known as Allingham Bend. This particular washout is about seventy-five yards wide, four hundred yards long and twenty feet deep, and is only one of a great number-some larger, some smaller-covering an arca
of about sixty acres and rendering it practically worthof about sixty acres and rendering it practically worth-
less as farining-land. Where the water has dried up in these places vegetation is springing up, most prominent of which is a growth of young cottonwoods from seed deposited there by the floods. Along the west boundary of these washed lands is the new channel of the river cut during the flood across the farms of William Allingham, J. J. Harshaw, Mrs. Martha Findley and Mrs. Emily Bowen. This channel is from forty to one hundred and thirty rods wide, and covers in all abont one hundred and thirty acres of ground.
Gus. Carlson, three mandest sixty acres on the farm of Gus. Carlson, three miles southwest of Manhattan, in doep, and Bottom. The sand is from one to six feet the wind. In some places it is mixed wegetation is springyegetation is springit is a barren waste
of sand Hundreds of sand. Hundreds beautiful and fertile valley are thus rendered worthless.
Even where the soil Even where the soil is not covered with sand it is covered over with a deposit
of mud that has to of mud that has to
lie for a year and lie for a year and
go through a freezgo through a freez-
ing process before it can be made to While at Manhattan on July $2 d$ and 3 d I made arrangements with
Prof. A. M.Ten Eyck to secure the photographs referred to July I7th Professor Tell Eyck wrote as follows: "Yesterday and to-day I have
been out with Mr .
 fixdir in turis good view of the
sanded area, and also of the washed ficlds, for you, and
these pictures you will doubtless be able to use, that I can give you any pointers more than you were able to observe. It is my opinion that the permanent damage by the flood to the farming country has been largely overestimated so far as the destruction of the
land is concerned. The washed areas are small, and the sanded districts are limited in extent and mall, and less local. A large part of the flooded land has been less local. A large part of the flooded land has been
left with deposits of mud from one to twelve inches deep. This is especially noticeable in alfalfa-fields, grain-fields and meadows. There will be no permanent harm from this deposit of mud, but more likely a benefit, as the soil will be made more fertile. To be sure, this year's crops were largely destroyed, but the lands have been very largely replanted, and crops (especially [CONCLUDED ON PAGE 3]

FARM AND FIRESIDE
THE CROWELL PUBLISHING CO.

| 147 Nassau St. NEW YORK CITY | SPRINGFIELD оніO | 204 Dearborn St CHICAGO |
| :---: | :---: | :---: |
| ices: letters for | business Ietter at either one bould be | be addressed to above-mentioned and "Editor.' |

entered at the post-office at springalide, ohio
as second-class mal matter
TERMS OF SUBSCRIPTION
TERMS OF
One Year (24 Numbers)
In Clubs, if Paid in Advance 35 Cents $\begin{array}{r}50 \text { Cents } \\ \text { Per } \\ \text { Year }\end{array}$ The above rates include the payment of postage by us. All
subscriptions commence witb tbe issue on press when the order is received.
oftenseribers receive this paper twiee a month, wblch is twice as
often as most otber arma and poultry iournals are issued.

| Parment, when sent by mail, should be made in Express or Post-office of these can be procurered, send the money in a registered letter. All postmasters are required to register letters whenever requested to do so. Do not send checkis on banks in small torcns. |
| :---: |
| Silver, when sent turough the mail, shonld be carefully wrapped <br>  envelope and get lost. |
| Postage-stamps will be recelved in payment for subscriptions in sums less than one dollar, if for every 25 cents in stamps you add one one-cent stamp extra, as we must sell postage-stamps at a loss. |
| The date on the "yellow label" shows the time to which each subscriber has paid. Thus: Oct1903 means that the subscription is paid up to october, 1903; Nov 1903, to November, 1903 , and so on. |
| When moues is received, the date will be changed with four weeks, so that the label will answer for a receipt. |
| When renowing your subscription din not fail to stiay is at <br>  <br>  |
| Discontinnances--Subscribers wishing their paper discontinued slould write us to that effect and pay up all arrearages. If this should write us to that effect and pay up all arrearages. If this is not done, it is assumed that the subscriber wishes the paper continued and intends to pay when convenient. Aluays name your post-ofice. |

## Mr. Greiner Says

Ihas Matter of the Belgian Hare, the bubble to a ple since busted. Yet the business, reduced people in the country grow Belgians for pets and cheap-meat stock, and find them moderately profitable.
Black Belgian Hares.- I see it reported that the Rhode Island Experiment Station has "developed" a
new strain of Belgian hares, which is of a pure, glossy new strain of Belgian hares, which is of a pure, glossy
black. There was no particular need of any new development of this kind. I had the pure black Belgians
when a boy, nearly fifty years ago, in Germany. They when a boy, nearly fifty years ago, in
were not a great rarity there, either

Keeping Potatoes from Sprouting.-Mrs. J. B. a reader in Boscobel, Wis., says she has kept potatoes from sprouting simply by sprinkling them with dry get damp, and the salt should be quite dry, so as to
sift all through the potatoes in the bin or barrel This method may be very easily trie

Preserving Fruits and Vegetables in Lime.-I Wonder if any of our readers have tried the plan of
keeping fresh fruits and vegetables for the winter, or aked lime? If so, I wish they would report. The process was highly recom
mended, but ny success, and that of others from mended, but nyy success, and that of others from
whom I have heard, has been none too striking. To-
matoes packed in ir-slacked lime have rotted just the matoes packed in air-slacked lime have rotted same. Grapes have kept longer in fair condition. Let me hear from our readers on this subject.

Wheat Varieties.-The Ohio Experiment Station reports having obtained seed-wheat under different
names and from five different sources, all of which showed striking similarity in appearance and yield; namely, American Bronze, No. 8 Huron County, No. vet Chaff, however, which is a wheat of only medium
productiveness, exceeded them all in yield. There canproductiveness, exceeded them all in yield. There can-
not be much "prosperity" in buying seed-wheat at
three dollars and fifty cents a bushel when Velvet Chaff three dollars and fifty cents a bushel when Velvet Chaff
at less than one dollar a bushiel will give a greater yield.
Enriching Soil with Hunus.-In most cases the
ddition of humus, with the nitrogen that usually goe with it, will alone serve to make an unproductive soi yield profitable crops. The cheapest plan to get the
humus is to grow it on the spot, and of course the nitrogen. too. But it may take light applications of
mineral plant-foods to produce the humus. A well
known central New York farmer known central New York farmer and farin teacher
says: "An application of mineral fertilizers will pus along plant-growth sufficiently to produce an increased
root and stubble growth that is bound in a short time root and stubble growth that is bound in a short time
to furnish large quantities of humulus. Farmers do not
usually believe that humus can thus be obtained, but usually believe that humus can thus be obtained, but
it certainly can, and inay, where the crop is needed for
stock-food, be , as profitable as to lose a crop for
plowing under." Among crops to be grown for hum plowing under." Among crops to be grown for humus
we have turnip, rye, Crimson clover, Mammoth Red
clover, vetches, cow-peas, soy-beans, etc. Where clover, vetches, cow-peas, soy-beans, etc. Where
Crimson clover succeeds (and I have had large crops in porous, gravelly loam, even here in western New
in pork) the task of furnishing humus is very simple.
York)
But a light dressing of acid phosphate, and perhaps
muriate of potash, also, is good in almost any case.

Thie Farmer's Privileges.-Governor Odell of the
Empire State, with considerable skill and success, has been trying to shift the heft of taxation from the country upon city people and property. Farmers thus
far have shown no particular inclination to resent this treatment, whether right or wrong. On the occasion of commenting on his excellency's efforts, the New
York "World" sarcastically gives the following picture of the "much-abused farmer

The poor farmer! He lives upon the broad acres of his private park, for which he pays no rent; he
drives his own horses, and so pays no car-fare; he has drives his own horses, and so pays no car-fare; he has mill, butter andvegetables; he cuts his own ice from the pond, and stores it in his own ice-house; he puts maplesyrup from his own trees or honey from his own hives his cooking and heating are done with wood of his own cutting. When he wants more cash, he gets it by taking those city people as summer boarders." farmer should be the happiest man in the American Yet the drift is toward the city rather than the country.

Desirable Mail-service Reforms.-The Society of American Authors is at present making some determined efforts to have the postage on manuscripts when going to the publisher reduced from the regto one fourth that amount, or to the same rate as now to one fourth that amount, or to the same rate as now
enjoyed by manuscript accompanied by the proofenjoyed by manuscript accompanied by the proof-
sheets, when going from the printer to the author for correction or revision. A large percentage of the readers of farm papers are authors and contributors. and interested in this move, which seems to embody a reasonable demand. The reduced rate is now in force in almost all civilized countries. The United States is also far behind all other civilized countries in the matter of the parcels post. We have to pay sixteen cents a pound to mail a pgckage to any part of this
country, and the weight must not exceed four pounds. country, and the weight must not exceed four pounds.
But we may mail three times as big a parcel to New But we may mail three times as big a parcel to New
Zealand, Germany, Italy, etc., and at one fourth less a pound than we can mail the smaller package to the next town here. How long will the people of this great and enlightened republic allow the express com-
panies to continue their extortions? We are hungry panies to continue their extortions? We are hungry
for the conveniences enljoyed by the people in other countries. Such reforms must come.

To Die in Peace.-There is one practice of eminent physicians which should call for a vigorous protest by all intelligent people; namely, that of uselessly prolonging the death-struggles of patients in exalted positions by artificial means. As an instance take the given up by his physicians, Doctor Lapponi told the
correspondent of the Associated Press that the venercorrespondent of the Associated Press that the venerable old gentleman was in a torpor and stupor, from
which he could be roused only by sharp sounds, showing symptoms of incipient cerebral anemia and general exhaustion. "He can no longer turn in his bed without assistance, said Doctor Lapponi. "and is being whom phorated oil, three of caffeine, and two hypodermics of
salt-water, besides drinking stimulants." Just think of this. The patient is known to be dying. There is no hope of saving his life, nor any pretension that this be possible by the administration of any medicine. The end is only a matter of hours, or very few days at most. There is no suffering. The end comes grad-
ually, peacefully. And now the coarse liand of the physician interferes. The patient is called from his torpor and beneficial stupor with sharp words and sounds, so as to be brought, if possible, to a realization of his condition, and possibly of suffering. He is tortured with injections; the hypodermic needle is jammed into his flesh, and nasty solutions squirted in. Why in
the name of common sense is all this necessary? Why the name of common sense is all this necessary? Why
has it ever been allowed? The same absurd treatment had been given to Presidents Garfield and McKinley. Why has humanity not protested? Fortunately doctors do not usually take such liberties with the ordi-
nary run of mortals. The hypodermic may be useful to bring on sleep, forgetfulness, oblivion and freedom from pain and suffering but not to prolong the final struggle and agony. I want to die in peace.

When Doctors Disagree.-A German scientist, Doctor Ehrlich of the University of Strassburg, reports having found millions of bacteria, microscopically small creatures which may injuriously affect the health, on the skin of all common fruits as found in the market. It has been proven, he says, that in certain
cases cholera, typhus and tuberculosis have been transcases cholera, typhus and tuberculosis have been transreject the skin of all iruits for this reason. Yet another hygienic expert claims great health-promoting
or curative properties for the skins of grapes and other ruits. Now, what shall we do. Shall we eat the us out of our fruit-eating habits entirely? The fact is that we cannot eat any raw food, no fruit, no vegetable, nor even take a drink of spring or well water, without swallowing a few thousand or hundred thousand of living microscopic organisms-bacteria, infusoria. or whatever you nay call them. And what of that? Un-
doubtedly most of them are harmless. The really dangerous bacteria, those which spread diseases of the
hind mentioned, come to the exterior of fruits and hind mentioned, come to the exterior of fruits and vegetables from outside-by unclean handling in the confess that I abhor fruits of all kinds after they have
been thus exposed. If I had to eat fruits and vegbeen thus exposed. If I had to eat fruits and vegsubject them to a thorough cleansing process before
eating them, and then prefer to eat them cooked. As a rule I reject the skins of all fruits, even when gathered freshly in my own garden. On the other hand, germ-killing properties, and am never afraid to eat germ-killing properties, and an whe when you buy fruits in city markets. by all means use fresh or running
water freely. Carefully wash off the few millions of bacteria that may be on the fruit before it is eaten raw It will be much safer if this is done.

## Mr. Grundy Says

THe Corn Crop.-In almost the entire "corn belt" the soil was full of water, and cold up to plant ing-time.
unseasonably cold weather. After the plants came up,
they made slow growth until summer was well adthey made slow growth until summer was well ad
vanced. To mature the bulk of the crop we must have a late fall. The crop all over the "corn belt" looks toward if it were three or four weeks further along the ground was so water-logged at planting-time, advised farmers to plant largely of early maturing varieties. Those who did so will have a good cro
of sound corn. Those who stuck to the large varieties will have sound corn if frost keeps off about t weeks later than hope for a late fall. When planting can be done early,
the late, large kinds do the best, and yield heaviest.

Plant Trees.-A few days ago I went to our lum ber-dealer for the purpose of purchasing an oak plank comes a little high now, and the price is steadily ris ing." This oak lumber is shipped in from a distan great bodies of the finest oak timber along all the rivers and creeks in this section. People came in, and wanted the land to grow corn, wheat and hay on, and could not sell for almost a song they gave a way for the cutting or burned. Now they are paying four cent a foot for bridge-plank and all other oak stuff, and the price is still going up. It costs a goodly sum to plank a bridge now. The old bridges built of native oak are about gone, and iron is taking the place of the fellows who burned the fine be plank, aud the old gullied hillsides have to help pay four cents a foot for
t. Their hillsides will scarcely grow grass now, and they are so seamed with gullies that cultivation is almost out of the question. If they had cut the timber
that they found there in a sensible way-taking only the mature trees, and giving the younger ones room to derelop-they would now be selling lumber at fou cents a foot instead of paying that for
he men who helped to clear them live. "Had to while the men "had too hard with trees again." He said he got some good crops off those hillsides after they were cleared-got six o he could find they gulied frass that will grow wished land, and keep the soil from washing, as he would like to sow it on those hillsides and make pasture of them. the farm, I asked him what he would do for post when those in his fences were gone. He said he thought they would last as long as he did, and then
others could work out that problem. Almost all of these men are of the same mind, so it is a waste of time to talk forestry to them. A few men are beagainst planting receives the most attention. I am of against planting receives the most attention. I am the boys are educated to plant wisely these wide-ope sections will again be dotted with groves of forest rce and high, I saw a Last winter, when coal was scarce and high,
that ran through his farm, and making fire-wood of thèm. They averaged about eight inches in dianeter He got about thirty loads of wood. I not think other trees that would supply him with both fire-wood and posts when he needed them. He said he rather thought i cottonwoods, and that was all the planting he did. A farmer in Iowa writes me that he likes my idea of planting trees on rough land, but he says he needs
his rough land for pasture. He would like to know i his rough land for pasture. He would like to know grass, also what if he will plant the trees far enough apart, he can have both grass and timber. I have seen locust and catalpa growing in pastures, and neither were injured by the stock, while white and green ash were eaten almost to the ground. In planting forest trees in pasture I would set none less than six fee in height, and they should be about twenty feet apart and carefully pruned every year. When young trees are set so far apart, I have found it a good plan to go over them several times during the growing-season, and nip off the tips of all side-branches. This send the tree straight up. It is not advisable to take of more than the tip-end of side-branches, for if they are should do this as long as lie can reach these branches. When they come out too Thigh to reach, he should use be to get these widely planted trees w

After an experience extending over twenty years, my advice to all tree-planters is to buy your trees the fall, and plant in the spring. One should have the trees shipped to him about the first of November, heel them in at once, covering at least three fourths of the tree, and plant them as early in the spring as the all side-roots to about four inches in length, and to send as much tap-root as he can conveniently get. It is about time to be learning where trees can be oborders will invariably bring better trees than spring orders, while the trees are sure to reach their destiin the fall than if shipped in the spring.

Cean Fairs.-It is easy
to criticize. The critic has an easy task in this world. He can let others do the things that are to be done, and all he has to
do is to stand around and find fault; and just so long as the
ord and just so long as
County fairs anmot run ver, his job is sure to last. Cos. There must be sufficient receipts to meet expenses, or the backers will grow weary, and to secure receipts there must be money from people in attenance and money from privileges. To secure attendance here mast be some attraction-some motive for going o the fair-and money for "privileges" is paid to secure the right to do something that will bring money or pay in some form.
good, and the amount of can be made to do a lot of good, and the amount of good is not wholly dependent upon its educational value, though many try to teach themselves that the educational feature of a fair is the attendance. The social feature is important. Farmers, with their families, should have the enjoyment of putting farm cares aside and meeting old friends and neighbors during fair-week For educational, business ricultural fair has justified its existence as a fair.
But the very fact that the fair is needed has given managers a license to do things they would not dare to do in their private business enterprises. Having taken it for granted that the receipts must be secured receipts must be secured,
some of them have added to their list of so-called at tractions in such indiscrim inate fashion that more harm than good is done When a fair does that, it needs to die. Its management has no right to defend its acts upon the ground of necessity, because there is no necessity for a fair if it is doing harm and not good notice some forms air at by the public time. The purveyors of amusement in prior to that stand that purveyors of amusement in cities understand that there are various classes to which they may
cater. There are clean shows, and there is cvery grade of vicionsness down to that which is inconceivable to a healthy mind. The World's Fair catered to all classes; but when the agricultural fair begins to bank upon immorality and indecency as drawing-cards to itself, the justification for its existence has ceased. A fair that depends upon family patronage has no right to admit upon its grounds any "attraction" that draws by reason of the slightest color of immorality or indecency. When it does so, it is selling for cash the right to harm cotntry boys who should find a safe place of enjoyment. The fair that must have receipts from any gambling or lewd enterprisc, or from any attraction" that gets its pay on the pretense of being We do not need agricultural fairs that are not clean. I do not condemin onc because it is given clean. I do not condemin onc because it is given
greatly to amusement. The people should support an greatly to amusement. The people should support an could have annusement with it; but all inen should unite in demanding that when a fair cannot be run successfully without receipts
from gambling and from from gambling and from
lewd shows, it must cease lewd shows, it must cease
to exist under the name of to exist under the name of take its chances under the law with other disreputable
purveyors to the vicious inpurveyors to the vicious in-

Harvesting Cow-peas -A dairyman said recently cow-pea hay he would not buy much bran or middlings. I know the hay is all right, and it is less difficult to make than many think. Probably the dairyman would do well if he put a considerable part of his crop of peas into the
silo. Professor Voorliees, of silo. Professor Voorlhees, of
New Jersey, has been sucNew Jersey, has been suc-
cessful in making cessful in making pea sí-
lage, but some have failed
when using the pea by it
self. I think its usc in the silo will increase, but conafter using this lay, are willing to be without it.
There are as many ways of curing pea-vines as there are of curing clover hay. I amnot sure that my
method is the best, but it is safe and inexpensive, and method is the best, but it is safe and inexpensive, and the hay is eaten readily by live stock. I should prefer
to have the vines chiefly mow-cured, and some growers to have the vines chiefly mow-cured, and some growers
affirm that the vines need comparatively little curing in the field if the mow is deep and tight, just as some affirm about clover; but the pea-vines are so full of sap that I an very surc that they would spoil for me if I mended. I prefer to cure quite thoroughly in the field, taking at least six days of good weather. Rain injures quality somewhat-must do so-but not seriously, because the hay wili keep idle horses in good condition
throughout winter without anv nther orain.


A WASHOUT AT ALLINGHAM BEND
tection from the weather, the life of a machine will ften be more than doubled, besides being much more In and agreeable for the operator's use
In one respect riding-machinery has an advantage more convenient to take since with the former it is house after each day's using, thus avoiding the weathering which sudden or prolonged storms often effect on machinery left in the field even when intended to be put into use the following day. Machinery when thus brought to cover after each day's use is much more apt to be kept in ship-shape condition; stormy days
being available for this purpose, when if in the field they would be neglected.
The best care and repair of machinery calls for hood and convenient storage facilities. An ideal toollighted and made comfortable for working in during

Ordinarily I let the peas lie in swath two days. The September sun then begins to crisp the top lcaves, and I windrow with the sulky-rake, that brings new leaves days, surface, making the windrows small. After two inte a pile widths of the rake in the windrow are follows. If a rain comes, the piles are inverted after a day's drying. This hay retains the most of the leaves, heats in the mow, and is relished by stock. The piles are easily loaded on wagons, and the unloading is done with a horse-fork. DAVID.

## CARE AND REPAIR OF FARM-MACHINERY

The amount spent every year for farm-machinery throughout the length and breadth of our broad doThough necessarily large, its present impressive total


## SANDED AREA IN MOEHLMAN BOTTOM

is unnecessarily increased by the common use of expensive, complicated machinery in the hands of careless, inexperienced operators. It is not an extravagant ssertion to make that farm-machinery to the value of millions of dollars is annually going to the scrap-
heap and junk-yards, which sum by proper care and heap and junk-yards, which sum by proper care The life of a machine is nockets of the farmers. and most delicate parts. If these are allowed to beand most delicate parts. If these are allowed to be-
come worn, or weakened by improper adjustment, through ignorance or carelessness of the operator, the life of the machine will be shortened in accordancc. Replacement of parts, as the buyer of repair fittings ell knows, soon equals the price of new machines.
Complicated machines with delicate parts, such as grain harvesters, threshers, drills, planters and the like, cannot long survive negligent usage, while even the ordinary implements in common use are too often allowed to become weather-worn and loose-jointed intil a heavy strain cuts short their usefulness.

A machine or implement, anywhere from a comneeds frequent overhauling to kecp all burs tight and adjustments and bearings in perfect condition. When adjustments and bearings in perfect condition. When
my crops of corn, wheat, rye, potatoes, catch-crops and hay, I easily keep the upper hand of the weeds. Even there they have often reminded me that it was
time to start the harrow.
$l$

## CURRENT NOTES

Reliable reports indicate that there are thirty-four counties in Kansas which have each produced this season over one million. bushels of wheat.

In scientific forestry the young trees are thinned out, the underbrush removed, and every means possible taken to give air and sunlight to the growing tree.

Macaroni wheat, of the variety known as the Wild Goose and imported varieties, has this year produced well, since the imports of macaroni, vermicelli, etc well, since the imports of macaroni, vermicelli, etc.,
during the twelve months ending with June, 1903, were during the tweive months ending with June, I
valued at the respectable figure of $\$ \mathrm{I}, \mathrm{I} 7 \mathrm{I}, 922$.

The variotts leading varieties of wheat are being properly classified and named in the United States Department of Agriculture. Each experiment station in the wheat-growing states
should supplement the work, and spare no effor to keep the varieties true to name, so that farmers can secure enough pure seed to
get a start. The celebrated get a start. The celebrated
Fultz wheat was bred from a single head. $\qquad$ * * *

## SOME EFFECTS OF THE

 GREAT KANSAS FLOOD [CONTINUED FROM PAGE I] corn) are looking well at this date. I think that in many cases the sanded areas will not be a total loss, Where the sand is not more than s1x or eight sible to plow down the sand and bring enough soil to the surface to establish the growth of some grasses,and perhaps alfalfa." The damage done by the flood, while very great, rather than to the state as an agricultural community As an illustration of particular effects I may mention thousand dollars a short time before the food eigh the flood the pricc was five thousand dollars. In a strip of country varying in width from one to sepen miles and about two hundred miles long there must be thousands of farms that suffered similarly. Of course great damage was done to bridges, railroads and towns and cities, but that is not part of this story.
Kansas is a great state agriculturally. As I passed through the western portion early in July, while the headers and binders were busy in fields of wheat where twenty years ago it was generally believed that wheat would succeed only occasionally, I gained a adapt himself and his crops to the soil and climate of a cectinn of conntrv nerilously near to the arid region

## Gardening

## By t. Grelner

THE Pan-Anierican Strawberry is fruiting freely at this writing (the end of Ausust). I shall very
likely have more remarks to make about this likely have nore remarks
strawberry a little later on.
SUMMER WEATHER Cones Late this year, but nevertheless welcome to our unusually late crops of
cosn, melons, tomatoes, Lima beans, ega-plants etc. corn, melons, tomatoes, Lima beans, egg-plants, etc.
So, after all, we may get the usual abundant supply.
SWEET Cord Hardir Ever Fails to pay well. Up
this time it has sold readily in reail to this stime it has sold readily in resaii a f fifteen cernts
a dozen ears. It still brings twelve cents, tand what lot any one can produre on a piece of ovell-manared
land! My Metropoitan was planted so thickly that land! My Metropoiitan was planted so thickly that
one has to force his way through the rows. Yet a one ias to force his way through the rows. Yet a
large number of the stalk bear two ears, and most
of the ears are large. The quality is very good.
Ashes and Lime for Vine Enemies.-M. D. R.. of Delaware, Ohio, says that for forty years he has
saved his vines completely by putting ashes around and saved his vines completely by putting ashes around and
orer the plants, whil he las found that potato-bugs
are repelled by dusting lime over the potato-vines while
and are repelled by dusting lime over the potato-vines while
wet with dew. It is true that fine, dry wood-ashes have a tendency to keep buys off the vines, and that
they can be used freely without feat of harming plants. they cal be used freely without fear of harming plants.
Freshly slaked dry lime when dusted freely over poFreshy slaked dry lime when dusted freely over po-
tato-vines will orten rid then of the slugs, especially
when the latter are yet quite youns In will have but when the latter are yet quite young. It will have but
very little effect on the old hard-sheils.

The Abundance of Fruits and Vegetables with which my home is blessed just at this time, and will
be until snow flies, puts a good deal of responsibility be until snow flies, puts a good deal of responsibility
and hard work on the women of the household. Yet most women just enjoy the labors of the canning-
season, and take just pride in their well-stocked larder, season, and take just pride in their well-stocked larder,
with hundreds of cans of clioice fruits, bottles and crocks of pickles, and mysterious compounds of all sorts of vegetables and spices, etc. As friend Colling-
wood says ("Rural New-Yorker"). "Farm life is often wood says ("Rural New-Yorker"). "Farm life is often hard for the women-harder than or the men. I cannot deny that; yet, on the other hand, there are chance
for happiness there which are unheard of in town."

City or Country?-"As for me," says Editor Collingwood, "after living under many varied conditions,
I will put myself on record as saying that if I were offered the finest palace in New York, with money to run it, on condition that, I must live in it all the time, I
would reject the offer!" I think I have put myself on would reject the offer!" I think I have put myself, on
record as expressing similar sentiments on many ocrecord as expressing similar sentiments on many oc-
casions. And just at this time, when we can impress
our city visitors with all the possibilities of country our city visitors with all the possibilities of country life and country advantages. 1 am particularly in synl-
pathy with the sentiment. Brother Collingwood questions whether his madame would say "amen" to that.
I know my madame would dislike to leave the country.
Large Potato-Tops.-A lady reader in Wolf Creek,
Mont., reports that her potato-vines grow excessively Mont., reports that her potato-rines grow excessively
large every year, so that she has thought of cutting very rich. especially in nitrogen, in which case the only very rich, especially in nitrogen, in which case the only
manure that would be admissible for the crop would phosphate and muriate or sulphate of potash), all in moderate doses only, or nothing, for some seasons at least. I like to see large potatotorops. It indicates a
good yield of tubers. In fact, a big yield cannot be expected unless the vines are large and thrifty. On
such rich soil, however, the proper way to manage, such rich soil, however, the proper way to manage,
perhaps, includes the use of small (single-eye) seedpieces and the allowance of proper space. Close plant-
ing, as we often indulge in here, will not do under such fluenced by. The sizditions the laps is laty influenced by weather conditions, the same as the yield
of tubers. In some years the tops grow excessively of tubers. In some years the tops grow excessively
large. My Early Ohios this year have made more top
(although they are of a rather drarfish habit of growth) than is ustally produced on Carmans or other large tops, because it means I will get the tubers.

Oniov-anagoot-A reader in Crown Point, N. Y.,
ks me to give a "preventive of the small white worms asks mc to give a "preventive of the small white worms
that infest his onion-beds, working at the roots of the
plants." He has plants." He has found as many as six worms in one
onion. That seems really like an extreme case, and as onion. That seems really like an extreme case, and as bad as maggots sometimes infest cabbages and rad-
ishes. Frequently I have had so many maggots on my radishes that almost every one was worthless, and
often I have had a large proportion of my cabbageoften I have had a large proportion of my cabbage-
plants die, and yet my onions have remained entirely plants from the pest, or at least suffered but little. so that
frow and then a maggot may have been found on an now and then a maggot may have been found on an onion. For that reason, and beliering that the same
species of onion-fiy attacks all these plants, but pre-
fers cabbages and radishes to onions, I have usually fers cabbages and radishes to onions, I have usually
planted a row of radishes here and there in or near
the onion-patch, or early cabbages close by, so as to attract the fly to the other plants, and leave the onions
free. The free application of calutic (fresh-slaked
lime) in powder or as lime-water seems to have a fime) in powder or as lime-swater seems to have a
tendency to kill the maggots. But really I know of no sure remedy or prevcntive. Some of our market-
gardeners apply heary doses of salt to their radish-
beds, and I have often used such doses of muriate of beds, and I have often used such doses of muriate of
potash for the same purpose myself.
VINE-DISEASES.-Mrs. R. sends me a cucumber-leaf
that seemed badly spotted with some disease. This that seemed badly spotted with some disease. This
may be the bacterial blight, which annually takes a por-
tion of our plants. and for which we have not yet tion of our plants. and for which we have not yet
found a remedy. The fact reported by my correspon-,
dent. that "some vines in the same hill arc all right," indicating that a plant here and there is suddenly taken
and gradually dies, seems to point to the bacterial
blight as a cause rather than to a mere leaf-disease Dhight as a cause rather than to a mere leaf-disease
The leaf-diseases (leaf-spot, mildew) may be fought
with some success by means with some success by means of thorough spraying. I
have never been able to prevent the occurrence of the bacterial blight in my cucumber, melon and squash patches by even the most thorough and oft-repated spraying. I find a vine here and a vine there, often in
a hill that has three or four apparently healthy ones. all at once showing a wilted condition, the wilt some-
times affecting only an entire branch, more generally times affecting only an entire branch, more generally
the whole plant through its entire length, and the only thing that can be done is to pull up the plant and destroy it. No treatment known to me will revive it or restore it to health. I usually try to make up for the
loss of an occasional plant by leaving a larger number loss of an occasional plant by leaving a larger number
of vines, and even the hills, closer togethcr than I of vines, and even the hills, closer togethicr
would otherwise or the books recommend. At times, however, the loss is so large that eves where the sufficient, and I have even seen instances where the entire
patch was cleaned out entirely by the disease.
Melon-lice.-The same correspondent asks, "what will keep bugs off the tunder side of the leaves." The
"bugs" are probably plant-lice, that in some cases do a great deal of damage, and being clustered on the a great dea of damage, and being clustered on the
under side of the leaves are not easily reached. If I
had but a few rines in the home garden, I would take had but a few vines in the home garden, I would take dust. A more expeditious way, of course, is spraying with a strong tobacco-tea. kerosene emulsion, or even
a plain, strong suds made from pure soap and hot a plain, strong suds made from pure soap and hot
water, applied liot. The nozzle should be turned up at right angle, so the spraying can be done from below.
Second-crop Potatoes.- I have sometimes grown potatoes for seed by planting old tubers (that had been light) during the latter part of July or early in August. planting potatoes also tried to grow a second crop by planting potatoes of the hrst crop of real early ones, tially exposed to tlie light. It is not easy in the climate here to get the new potatoes to start into strong growth, even when already supplied with new sprouts or leaves. A Tennessee reader who has a lot of Bliss'
Triumph asks me how he should manage them in order to grow a second crop for next season's planting. It is quite sure that the tubers cannot be planted and made to grow immediately after being dug. At
least, I know of no way to do it. Southern planters least, I know of no way to do it. Southern planters
who have time enough for the manipulation, however, may place the freshly dug potatoes out in the open, under a tree, where they have plenty of light,
and will lie in a moist position all the time for several weeks, when they may be planted with some expectaweeks, when they may be planted with some expecta-
tion of their starting into growth at once, and making a tion of their starting int growth at once, and making a
small crop. The seed will be good even if the tubers are but partially developed. If tubers can be selected that have already been "greened" by growing partially for growing potatoes to be planted again for a second very little. One grower places the tubers on sod in an orchard, and covers them with straw, then keeps this straw quite wet. In this latitude we will have to rely on late planting of old potatoes to get superior seedpotatoes. Two years ago I planted some old Carmans in early August, and grew as good seed (although
tubers were only medium-sized) as I ever planted.

## Fruit-Growing By S. b. GREEN

Coreopis.-D. C. H., Rochester, Minn. The sample flower which you inclosed is what is
known as "annual coreopsis." It is quite a pop-
ular annual, and grows easily from seed known as "annual coreopsis." It is quite
ular annual, and grows easily from seed.
Mouxtain Ash.- J. B., High Willow Grove, N. J. The specimen which you inclosed looks nothing like the American chestnut, and am very positive it is a
Mountain ash. I think you had better notify the nur-
sery people from whom you received it that they have sery people from whom you received it that they have
made a mistake, and if they are reliable persons they will undoubtedly replace it with what you ordered.

Plantains.-IW. M. L., Junction City, Ohio. The plant which you sent is onle of the plantains, known
as Plantago aristata. This is an annual plant, and the only way to keep it from spreading is to prevent its
going to seed. If your lawn is badly infested with it, going to seed. If your lawn is badiy infested with it, tivated one season, then seed down early the following
spring. If it makes its appearance in only small quanspring. If it makes its appearance in
tities, it may be dug out with a knife.
Grape Flea-beetle.-J. G. B., North Rochester, Mass. The grape-leaves which you sent have been in-
fested with the larva of the grape-vine flea-beetle. This is the typical flea-beetle, and is very difficult to capture. It is steel-blue to metallic-green in color.
The beetles live over winter under any shelter, such as loqse bark, leaves, etc. They become active in early
spring, and do their greatest damage by boring into spring, and do their greatest damage by boring into
and scooping out the unopened buds. The young and scooping out the unopened buds. The young
hatcl in June or July, and soon riddle the leaves with holes. The best remedy is probably spraying with
Bordeaux minixture, to which has been added a small amount of Paris green. This should be done just as soon as any injury from it is discovered.

Grape-rot-Soil for Currants.-G. L., New Madrid, Mo. Grape-rot is very common throughout The only way it can be prevented in some sections is to spray the grapes with some good fungicide, as the this will depend somewhat upon circumstances. Most
growers are agreed that the grape, as soon as the fruit
is set, should be sprayed with Bordeaux mixture made irom a formula of five pounds of lime, five pounds of
copper and fifty gallons of water. This should be repeated three or four times, at intervals of about three no further application should be applied. If it is necessary then, ammoniacal carbonate of copper should be used. The use of these materials to prevent graperot is very common, and gives decided satisfaction.will do well in any good corn-soil. They should be planted at least five feet apart each way, and in commeet with planting I prefer to make the distance six feet with all the strong-growing kinds.
Apple-blight-Currant-worms-Rose-slug-Cab apple-trees is undoubtedly due to what is known as apple-tree blight. This is a very common disease in the Western states on apple-trees, and in the Eastern ceptible that they are easily kiiled from its injury The best treatment is to gather and burn the dead stopped. I am inclined to think that persistence in this Will very materially lessen the blight. Of course, this
is in case your neighbors do not allow similar material to stand in their orchards.- The currant-worm is quite easily destroyed by hellebore. In my experience is often adulterated, and Paris green usually comes in a good quality, I generally prefer to use Paris green green to thirty pounds of flour. It is important that the insecticide for the currant-worm be applied early in the season. The fly, which is the mature form of this worm, lays its eggs on the under side of the lcaves in the center of the bushes, and seems to prefer out, they eat holes through the leaves. In watching or them, one should look out for these leaves, as the are very inconspicuous, but by a little practice you would soon be able to pick them out.- Your roses
have had the foliage eaten by what is known as the rose-slug, which is a little sticky worm that eats off rose-slug, which is a little sticky worm that eats of The best remedy for this is Paris green applied as for he currant-worm.-You will find that Paris green best way to with water it will run off, but if applied with flour it will destroy the worms completely, and give you the best of satisfaction. You need not be afraid that the Paris green will poison the cabbage and make it dangerous to eat, ior the cabbage grows from the inside, no Paris green left on the leaves after one or two good rains, and a year or two ago it was shown by one of the experiment stations way one would have to pat about thirty cabbages, out way one would have to eat about
side leaves and all, at one sitting.

## THE SITE FOR AN ORCHARD

In selecting a site for an apple orchard it is well to areas secures air and soil-drainage and corrounding areas secures air and soil-drainage and comparative elevation counted for more in securing fair fruit than it does now. Air-drainage is often secured by ravines running through or near the orchard. Many good orchards are on level land. This does not disprove the rule,
disastrous.
A fairly fertile clay loam is about the best for an on many differcnt kinds of soil shows that it is not best to emphasize too strongly the importance of choosing any particular kind of soil.
If the soil is too poor to secure a good growth,
fertility may be supplied, but to check too rampant a growth and to induce fruitfulness is not so simple
a matter; hence, a rather infertile soil is to be prea matter; hence, a rather infertile soil is to be pre-
ferred to one having too abundant a supply of plant food elements.

Exposure, or the direction in which the land slopes,
usually a matter of considerable importance. For winter apples a northern slope is better than a southern. The drying effect of the sun on a southern slope may be somewhat lessened by mulching, but it is easier to manage a northern slope, and the results are much more certain to be satisfactory. For early varieties a but littl slope may be preferable. There is usually except that the former is usually more fertile.

There are good orchard-sites in nearly all parts of the state, but they are more numerous in the hilly portions. One is less liable to make a mistake in choosing an orchard-site where the la
hilly or rolling than where it is level.
Sugar-tree, and sometimes beech, oak and chestnut ands are surtable for apple orchards. Elm-land is of wheat without lodging, if the elevation is sufficient, of wheat without lodging, if the elevation is sufficient ally a safe guide, but the corn crop is less so.
The Trees for Planting.- Opinions differ regarding the proper size of trees for planting and the age they should bear old at planting will come into bearing at about the same time as an older tree. For various reasons, however, many prefer larger and older trees, mostly because they are more easily seen and less liable to injury. A tree which is four years old or more is more liable to die in transplanting and more
difficult to get into shape than a younger tree. One difficult to get. into shape than a younger tree. One is not likely to make a second attempt at starting an
orchard with large-sized trees. If one-year-old trees re aken. A well-grown one-year-old is a great deal bet suitable in any case. It is better to buy trees by age than by size but one should understand in doing so that trees of some varieties will be larger than others. -W. J. Green, in Bulletin No. 187 of the Ohio Agricultural Experiment Station.






60 Different Bulbs all for 30c.


STEEL ROOFING.






 TEN DAYS FREE TRIAL.

 SJARK TREES Emy hew ive GINSENG
itable. One fourth acre worth \$10,000.00. Particiluars a prenty,
T. H. SUTTON, "H" 1820 W . Chestrut St., Louisville, Ky,


GENTS



LATE-MOLTING HENS

TE hens should have finished molt ing betore now, for whin
don
thr

in January. They will, however, begin
laying when spring opens, and they will

that when the hens are fat, and food
then twithheld, they will begin to molt
and molt rapidly, if fed on nitrogeno foods, such as meat, dried blood,

## the hens finish molting before winte they will lay through the winter months

SITTING HENS
It is now rather late for hens to sit, and
in endeavoring to prevent them from in-

methods. It is not out of place
mention the easiest and best plan.
a hen sits she must feel the sensation of warmth under her body when she is on
the nest, otherwise she will abandon the work. Simply prevent her from impart porcelain
warm, but when she finds that she can create no heat with her body she wil
desist from sitting. Make a small coop
with lath or strips, and have the floor of lath, also, the coop to be raised a few
inchcs from the ground. The air under the hen being cool, due to the open
spaces between the lath, will soon cause her to become disgusted

LINSEED-MEAL FOR POULTRY
Linseed-meal is an excellent addition try, as it is highly nitrogenous, and it is
mucll superior to cotton-seed meal, as the matured, which is not is made are fase witly ground cotton-seed. Linseed-meal may be fed at all seasons. Even when grain
is allowed it will pay to feed linseed-meal, will lay more eggs. It is richer in the essential elements of growth and produc-
tion than many other concentrated foods, and greatly enriches the manure. About
one gill of linseed-meal may be added to every quart of ground grain used. The
linseed-meal is rich in mineral and nitrogenous matcrials, and serves to balance the grain, the mixture with half a pound
of ground meat making one of the best of ground meat making one of the best
egg-producing foods. It should not be egg-producing foods. It shou,
uscd oftencr than once a day.

## LIMED EGGS

Readers of the Farm and Firestide frequently request methods of preserving In this era of cold storage the limed egg has no standing not bring enough to pay or the eggs before they were limed; in


However, to obligc readers, it may be
stated that the following is one of the methods: Use one pint of salt, one pint
of fresh lime and four gallons of boil-
ing water. When cold, put it in stone jars; then with a dish let the fresh eggs
down into it, tipping the dish after it fills with the fluid, so that they will roll out without cracking the shells, for if a shell
is cracked the egg will spoil. Put the eggs in whenever you have them fresh.
Keep covered and in a cool place. Such eggs are largely used by bakcrs and in
the arts. Albumen is made from the
white, and egg-oil from the yolks.
egg-oil is used for oiling leather and wool
int the woolen-mills. Then there are egg-
pomades, desiccated eggs, and preserved
pomades, desiccated eggs, and preserved
eggs (for tanners use.). Limed eggs can
not compete at all with eggs intended for

## WORK ON THE POULTRY-HOUSE

The fall season of the year is the time when prcparations should be made for
winter, the most important matter being the construction of the poultry-house, with Shed, which will bc useful both in sumn-
mer and winter. The shed can be added to the poulltry-house with but little cost,
as it should be open in front, facing the stun, the opening to be covered with wire,
to protect against enemies. The advanshelter in the open air. There is nothing to which the fowls object more than remaining
go into the roosting-compartment. When
the space at the disposal of the fowls in the space at the disposal of the very limited, the
the poultry-house is
floor may be raised about two feet abov
the ground, thus forming a shelter the ground, thus forming a shelter tul
derneath, instead of the open shed, preferred, into which the fowls can go on
stormy diys. When, however, it can be
arranged, it is much better to have an open shed, separate or adjoining the
house, for when the floor is raiscd it makes the interior of thc. housc much
colder. When the ground forms the floor the cold air does not get so easily to the
fowls from the bottom When it anno be avoided. and the adopted, it should be made of stout wood
and the interior slould be covered with and the interior should be covered wuch
a layer of litter, dry earth, or some such
subst substance, two or three inch
and this will assist in making much warmer, as well as affording the
fowls an opportunity to exercise. SUMMER FEEDING OF DUCKS AND GEESE Thosc who feed ducks and geese when
grass and insects are abundant should grass and insects are abundant should
learn that more harm is done than may
Deeds and all liky wis of consume youns, and fin
wore
more food on the ground than they cain consume. To feed them on grain at thi season is to make them excessively fat
Both geese and ducks will consume grain a more bulky character are preferred.
Their livers are large proportionately, and they have great digestive capacity
and They prefer grass, especially clover, and
some weeds, such as purslane, as del milk is excellent in the early part of the year, at which period they are beginning to lay, and a little ground meat adde
will always be of advantage. This groun grain may bc oats, corn, bran or mid
dlings. In summer, if young ducks can get grass, they need only one meal a day
composed of cooked potatoes or turnip composed of cooked potatoes or
thickened with bran. They prefer soit
food When winter comes they may b ice a day, adding animal-meal o
d meat at night. Their runs, if the

FATTENING GROWING BIRDS A matured animal or bird fattens more
readily than one that is growing, because
its requirements its requirements are
times very difficult
hick fat, as the food goes to form bon and muscle rather than fat, the carbona-
ceous material serving to heat the body Such chicks seem to grow rapidly, and Such chicks seem to grow rapidy, an
really attain good weights in a short pe order to fatten them properly, the work must be done quickly. They should b cooped up, and given plenty of corn-mea
and ground grain moistened -with milk
with whent with wheat and ground corn at night
One week is long enough, as they will begin to lose flesh or become sick if kep can subsist but a short time on a car
bonaceous diet. The necessity for nintro
gen, due to the formation of feathers, a
gen, due to the formation of feathers, as
well as lack of the elements of bone, will
cause chicks to droop. The chicks may be made to gain one fourth their weight
in ten days; that is, a two-pound chick in ten days should weigh two and one hal
pounds. But in such cases the weight is not so desirable as the fat, as they will
gain very rapidly if highly fed, even when running at large, though they do no
fatten readily on account of all the food going to flesh and bone. As soon as they
mature they fatten very quickly, and with pullets the difficulty will then be to pre
vent them from becoming too fat. INQUIRIES ANSWERED Maturity of Pullets.-E. B B
Washington C. H., Ohio, wishes to

## in which Lcghorn pullets laid before the

## is about five months. They reach ma

## Worms.-L. V., Emporia, Kan., desires

 a remedy for worms in chicks." Giveno food for twenty-four hours, and the
feed on moistened corn-meal three tind day, as much as the chicks will eat, for
two or three days, adding a teasponful fuls of sulphur to each pint of meal
TURKys.- E. S., Rochester. Pa. some fine young turkeys, and as
he best of the gobblers should thined." The best results cannot One at least two years old should be

to 26 feet in Diameter GRIND FEED OR STOCK

 Galvanized Steel Towers inzed steel font height
of and and "Fast Mail"

Hydraulic Well Machinery TANKS ${ }^{- \text {Cyapress, Pine or }}$ Gavanized steel. Estimates and addice
Inriuneo and appication.
Inauries are respeetruly

FLINTI\& WALLING
MFG. CO. 549 Oak Street
ENDALVILLE, NDIANA
More Heat - Less Fuel TheNEW ERA RADIATOR
will save hall your coal bill and give you a warmer,
more evenly heated house Heat that is now entirely Heat that is now entirely
ost up the chimney can be ust up the chimney can be om the stove or furnace. Can be attached to furnace foure rooms or hallway (Ă new feature.)
Made in many styles, sizes nd prices, using successfally hard or soft coal,

Write for illustrated booket "E," also send name and ddress of your dealer.
WILMOT CASTLE CO., Rochester, N. Y.
GRAIN DRLL


## andelaples <br> GOODELL APPLE PARERS

Hand or power. Write for Booklet
coodell Co., $\%$ Main St., Antrim, N.H.


SAVE $\frac{1}{2}$ YOUR FUEL

Hochesier Radiator Co


MIXED PAINTS AT WHOLESALIE PREICIES, Dillvered FREEE
Oor Houses, Barns, Roofs, all colors, and SAVE Dealers
profits. In use GI vears. Officially Endorsed by the

BUGGIES





 For every disease and condition for which Dr.
Hess Stok Food is not recominended the little
yellow card in every package entites you to a
letter of advice and special prestrition from Hess.
Dr. Hess has written a book on the diseases of
stock and poultry. It is consulted and commended by many leading veterinarians.
Write Dr. Hess \& Clark,


Prepared Roofing Felts



HEAVES CAN BE CURED
 ABORTION Retention or Placent


| Live Stock and Dairy |
| :--- |

THE WORLD'S BEST JERSEYS BEST OF COWS ASSEMBLED IN ILLINOIS I anewate ear legs, preventing her from stepping center.

## ery, and many other conveniences, all of which will be duplicated or improved upon when the World's Fair stables are

 In all former dairy tests at international expositions the stables have not beenopen to the public. At St. Louis a fifteenfoot promenade extends around the barn and the visitor may see every cow and
may observe the feeding and milking. screen protects the animals, behind Which no one save the attendants can go.
Every ounce of food and water given A huge silo will be built adjoining the field or twenty acres of corn will be stored in the great silo for food
next summer. Alfalfa will also be brought from Colorado.
All feeding and milking will be don in the stables. The mikn over to the Dairy Department, and in a
model dairy in the Palace of Agriculture it will be converted into butter and participation in the test will be With the herd will be Flying Fox, the Lawscn. of Boston. Mr. Lawson re sand doliars for the bull

## Among the prominent

Hood, of Lowell, Mass..
the calf that had a bad habit "There is Betsey with her head stuck
through the board fence, father, and the through the board fence, father, and the That was the way the little chap put
the matter as he came bounding down toward the milking-yard, his eyes stick
ing out with excitement. We all started "I would not have had that happen for
five dollars!" father declared. He had vivid recollections of another calf that had been spoiled by getting that habit.
But there was the situation-the cow been trying to get a nip of grass on the been trying to get a nip of grass on the
other side of the fence (and it is a won der how much sweeter the grass always away for dear life to get what milk he
could from her. Fortunately she had
been milked. so there was little to be been milked. so there was little
gained except a very bad habit.
The young man of the farm picked up tragedy was being enacted, and laid it vigorously along the side of the calf
which gave a bound toward the barway
The heifer pulled her head out, bringing The heifer pulled her head out, bringing
board with it, and away, she went, too
"That does no good," father said "That does no good". father said.
"It only makes us all a little more out
of patience. Something else must be But what was the something else?
"Maybe he won't do it again," some "Maybe he won't do it again," some
one said. "The heifer may not stand fo
the calf when she has her liberty." But she did stand, and the calf did try
over again. Then indeed something They thought of all the mist be done. They thought of all the
remedies they had heard of. The young

lectric implog.
ELECTRIC WHEEL CO

## SHARPLES TUBULAR FARM SEPARATOR <br> 

 onig one of the will Tubutar patents. . fr you wean around the
Improved Tubular Separator
 The Sharples Go., P. .

Five Gases of
 price si; sir for
ithas no equal,
SpAVIN CURE,
the book Iree, DR. B. J KENDALL CO., ENOSBURG FALLS, VT.


KEEPS FRESH MEAT FRESH


HENS


EHENTRES
ength, and keep her rear hoofs on the

## Live Stock and Dairy

the best way out of a bad job. But the upshot of it all was that the father made a cast-iron resolution with himself that. come what might, hereafter he would allow no calves to be turned into the same so old that they would not be likely to suck the cows.
Still more, determined that his calves should be fed while young in
stanchions. This plan would have two or three advantages. In the first place, each calf would be sure of getting its
share of the milk or other ration. Many share of the milk or other ration. Many
farmers have a way of feeding their calves all from one common troulgh. This is a dccidedly bad method. Some
calves eat much faster than others, and the slow-eating calves are consequently get filthy. It is much better to liave separate pail for each calf. These may be washed, and so kept clean. Then, by
holding the calves in their stanchions until they are all clone eating, they will not contract the habit of sucking each other. or the simple reason that they cannot, and so will not think of sucking the cows
when they go out to pasture. The best way to cure a bad habit is to stop it be
fore it begins.

## A DAIRYMAN'S GOOD INCOME

Dairying in the Northwest has made wonderful progrcss during the past enterprising set of farmers than those who attended the meeting of the GuernWis, would be hard to find anywhere, What was apparently a typical experiwas related on that occasion by H. D Griswold, of West Salem, Wis. and a grandmother and as many more relations as possible that werc good
milk and butter producers," advised Mr. Griswold. "Get the very best youl can. Then get a scale and a Babcock tester and know what each cow is doing. Cull out the poor ones. and keep the best. Keep. up that practice with your heifers Yout cannot buy good cows; there is only
have never been off the place. Six of the twenty-five are two-year-old heiters
"I tell yout this not to boast, but to le you know what I am doing to-day in I have the same little fifty-acre farm that I have the same little fifty-acre farm that
I had in 1889 . but I have built onto th I harn four times, have built two silos, and barn four times, have built two silos, and But you will say it has taken a long time over ten years. True, but you have to work at something, and dairying is no liarder than other work. The land mu be kept up with some kind of stock, and what can you do better? Did you ever think that an income of two thousan dollars on a little farm in the country is better than twice that in the city? An the boys are interested in good stock, a
they cannot be in scrub stock. This daily association with these dumb andanals makes a man better. He has to anticipate their wants; he has to take lots of steps and do countless little.things for their welfare and comfort, and these daily duties have a tendency to make him more thoughtful of others, and he will become ,a better husband and father and citizen."一American Cultivator.

## THE BULL

Good bulls of any breed of cattle, es pecially of the dairy breeds, are scarce that they should not be held too lightly nor disposed of too soon. By
good bulls I mean those so rich in pregood bulls I mean those so rich in pre-
potency and breed-value that when used with even good cows they have the power to improve in the ofsspring the
good points of the dam. Such a bull, as practical breeders know, is almost invalprable, and should be retained as long as his vigor is unimpaircd.
Certainly no breeder will expect to
systematically improve his herd by such frequent changes of sire as is practised by many dairymen. One has no positive assurance what a young bull may develop into, notwithstanding in his pedigree he may be royally entitled to the transmitted good of many superb ancestors. Therefore, in selecting the young bull, his pedigree should be studied, and his representation of his type or family, be


A PAIR OF TWO-YEAR-OLD VICTORIAS
them. Then comes good reed, and plenty constant, careftul care
"Now, to illustrate along this line, I will give you a little of my own experi-
ence. In 1889 I bought my first Guernsey sire. I had then one Holstein cow, one Jersey and three or four Shorthorns. I find by my books that my total receipt for butter that year were $\$ 138.86$. In
I89I I got a Babcock tester-the first one that ha
found that
ing three hundred and sixty-five pounds of butter each; I then had nine. I increased the number until in 1902 I had twenty-one cows. I have increased the average production of each cow to four hundred and twenty-four pounds. I have increased my receipts from $\$ 138.86$ in I 889 to $\$ \mathrm{I}, 937.43$ in 1902 . I now have
twenty-five cows, and in the montl May just passed I got fifty-seven hundred pounds of cream testing twenty per grass and a little ensilage. These twen-ty-five cows are all grade Guernseys but five. I have three Jerseys and two full-
blood Guernsey heifers. All but three were raised by myself on the farm, and
given due consideration. His character, or as that quality has come to be called, his temperament; can only be vaguely guessed at in his immaturity. His mature life must ripen it. We farmers are merely in partnership with Nature. By wisdom and care we may direct many of her operations and bring together influences otherwise alienated, and somewhat hasten results, but she performs
her labors in her own deliberate way her labors in her own deliberate way.
No man, if he be honest will claim to make heavy with harvests will claim to make heavy with harvests worked down to the poverty-line. No breeder, if true, will clainn to lift a scrub lierd to honorable mention by one or
two infusions of pure blood. We are told that Time and his blood. We are on the sluggard, but just as truly they Getting a great bull is therefore not a quick operation. When he is acquired, morals and temper of such an animal morals and temper of such an animal judicious owner will never cease to reand stable and handle him accordingly. and stable and handie him accordingly.

## A Good Pointer on CREAM SEPARATORS

From the "Nebraska Dairyman," Lincoln, Neb A Valuable Token of Esteem from a Son to Father and Mother, and a Display of Good Judgment.
Our friend J. M. Betts, of Broken Bow, Nebraska, sends us the following:-

Our esteemed citizen, Frank Norton, and his wife are the ecipients of a very fine present from their son, Frank Lee Norton, OACHINE COMPANY. The father and mother, being armers and have many milch cows, wrote the son that 'as all the neighbors were getting creauld purchas of the letter, immediately purchased a DE LAVAL SEPARATOR and shipped it to them, writing to them as follows: My Dear
Father and Mother-l have examined the different makes of cream Father and Mother-l have examined the different makes of cream costs a little more than some others, but the difference in price is more than made up in quality. $\qquad$ but

A De Laval catalogue may be had for the asking.

## The De Laval Separator Co.

CHICAGO
P13 FLLBERT STREET
SAN FRANCISCO
General Offices:
CORTLANDT STREET,
NEW YORK
MONTREAL $\&$ F77 YORE STREET
TORONTO McDERMOT AVENUE

4

```
                                **4* %
```

Make an Early Season


## This Watch FREE



MOVEMENT Regular sixtens.ize and only three $===-=2=$ $=5=2=2$ THE GUARANTEE $\begin{aligned} & \text { In every watch will be } \\ & \text { found a primed guar- }\end{aligned}$

 BOYS
Do you want to get this watch?

## 上iswemex

 Mawawa six receipts, each one of which is is conoo for angyear's subscription to the FARM AND FTRESTDE America. We will also send a sample copy of the paper, so you can judge of its merit for yourself get a good paper one year for 35 cents. When the receipts are sold, you send the money to us, and we will send you the watch. Hundreds have earned watches by our plan,
and you can do it in one day's time. Write to=cay. Be sure to ask for a book of six coupons. Address FARM AND FIRESIDE, Dept. N, Springfield, Ohio

## High-Girade PocketKniife

Illustration Exact

The blades are of the very best cutlery-steel, tempered by experts, ground to a keen edge and then highly polished.
The knife is brass-lined and hand-forged. Buffalo-horn handie,
We will send the Farm and Fireside one year and
this splendid Knife for only 80 Cents.
Or we will send the Knife FREE to any one sending FOUR yearly subscriptions to the Farm and Fireside. In this cas cept any of the offers in this paper imeluding the

AdDRESS

## Agents and General Agents

## 

## The Greatest Cash Commission

 YREE. The preant month is aparticuant Eroa time for startigs


This wagon is made of the hest material through-
out, and really costs but a trifie more than a set of out, and really costs but a trife more than a set of
new wheels, and fully guaranteed for one year.
Catalogue giving a full description will be mailed Catalogue giving a full description will be mailed
upon application by the Empire Manfacturing
Company. Quincy, Ill,. who also will furnish metal

AbSolute Range Perfection


EPILEPSY OR FITS


Auto=Sparker




 Water Hheels, Lath
Slins. etc. $\begin{aligned} & \text { Send for } \\ & \text { large Catalogue. Freight } \\ & \text { dontt count }\end{aligned}$


## Can Sell Your Farm

 PAIET S SEURED :

TELEGRAPHY






The Grange
Some Tumcs ine derace mas oone READ BY F. A. AKINS BEFORE THE ER
COUNTY, OHIO, POMONA GRANGE

WHEN a certain line of action ha been followed long enough to and to vindicate the judgment and foresight of the men who first indi-
cated that line as the true one to follow, cated that line as the true one to follow,
then any attempt to enumerate what has then any attempt to enumerate what has
been done in that line nay well fail to place the results in the order of their
This failure will seem to occur, to some at least, under any arrangement
because what may be an important sult to one person would not seem so important to another, and the achieve would perhaps be placed much lower by governed by other rules.
We therefore name some of the re sults accomplished by the grange, with-
out presuming that the order of such out presuming that the order of such
ennmeration is the best or most logical that could be followed. First, the grange has organized the
farmers of the United States as the, farmers of no other country in the world were ever organized; it has taught the farmer to respect himself, and by the
same token others have learned the same lesson. Among the first were the great
railroads. Their lesson was headed "In terstate Commerce Law." The corporations insisted that such teaching was not never should be. and to-day they lare learned that the creature is not greater
than the creator, that "governments still than the creator, that "governments still
derive their just powers from the consent of the governed," and that organ-
ized farmers have as much influence as organizations of other men. next submitted the proposition that the
class that paid sixty-five per cent of the taxes. furnished seventy-four per cent o the exports and raised one hundred per
cent of the food-supply of the country were by right entitled to a representa-
tise in the Cabinet of the President, and there came a time when, had the then where but in Ohio, he would no doubt Although he failed of the highicust tosi-
tion there hes not tee tion, there has not theen a day since that
the infuence of the Assistant Secretary the influence of the Assistant secretary
has not been felt in the Department. Is it not a thing to be proud of that we are
the first people in the world to have our occupation so honored? Did not this in-
deed "add dignity to labor," and teach us. deed "add dignity to labor," and teach us What else could have been done that
would have had the effect and influence that this had? Is it not cause for con-
gratulation that the men called from the farm to the Cabinet have made so few, cause for congratulation that the busi seeing. level-headed fellows who have
not always held that what farmers di was worth copying, now pay us the very
sincere tribute of imitation, and have a
And why should they not be so rep with any class of men who ask only what is just and right; but he found some
things that were neither just nor right. He found that both producer and con-
sumer were being shamefully, and often criminally, defrauded in the preparation and sale of tood products; here again
was work for the grange. Powerful corporations, backed by unlimited capital,
and led by unscrupulous men, smiled serenely, and asked in effect. if not in it?" Adulteration everywhere. and even
the adulterants adulterated! Food and the adulterants adulterated! Food and
drink and clothing cheapened with intent "While chalk and alum and plaster ar And the soid to the poor for bread, Nuy wem o ine

Chicory and clay in the coffee: copperas in tea; cheap flour in sugar; brick
dust and buckwheat-hulls in pepper; oleo for butter, and cream of tartar that
showed by actual analysis seventy-six per cent of land-plaster, were some of
the evils that needed correction, and were ample indication of others of the
same kind. The grange took up the
work of correction. The manufacturers work of correction. The manufacturers
and dealers laughed at us; their ridicule and dealers laughed at us; their ridicule
was met by indifference, their theories
and criminal practices were put under the ban of the law, and those who vi-
olated the law were fined or imprisoned or both, and so were taught to respect
the law. The lesson may have to be repeatcd; we are even now only just out of the fight with the oleo men-a fight that was by the grange and the National Dairy Union, and both these
organizations came out of it with greater confidence in themselves and greater respect from their opponents. The history known to every laws in our state is well that has been reached in Ohio is due to the work of the grange, and the best
men who have held the office of Dairy and Food Commissioner have been Pa trons. The Rawlings Law is another example of grange-work in Ohio.
In I8gr the National Grange took up the delivery of rural mail as one of the this action was in line with was entitled cussion and resolutions, and was aske as a matter of justice and right after years of effort the Legislative Committee
of the National Grant. After of the National Grange secured the first appropriation, thirty-five hundred dollars the predictions of the men who had urged the measure, that the appropri-
ation was increased from time to time until we now use millions of dollars each year, and there is room for more. It is estimated that when fully developed the system will require about twenty-four thousand carriers, and cost forty million dollars per annum.
Every mail-box at the farmer's door
tells what the grange has don tells what the grange has done "to en hance the comforts and attractions o our homes;" every carrier's wagon is a tience and ability, of the leaders of the order; every new route means homes made brighter by being in closer touch with other homes.
There are, then, these four stars in the grange diadem-the correction of railculture, the Pure-Food Laws, and the delivery of rural mail-a quartet o achievements that are the result of years
of hard. earnest. persistent work. years of hard. earnest. persistent work, years
in which self was not considered, ease was inot consulted, and failure was not thought of. by the men in whom the grange reposed a trust that was never men! It is a pleasure to enjoy the results of their labor!
A recent issue of "The Ohio Farmer" grange not only coöperates with legit imate progressive enterprises, but it has pioneered and succeeded in more good work for the American farmer than al of its contemporaries put together. It popular. The secretes unpopular ideas is that it has learned in the long year schemes to judge what is best to do what is possible and reasonable, and then to go after it with steady, determined, level-headed persistence, that gradually, melts away opposition, and at last wins."
Its motto is a prophecy; it will endure.

## LECTURERS' INQUIRIES

From lecturers everywhere come inquiries as to making the programs useful and interesting. There is not manifest spirit of complaint because of the un-
willingness of members to perform their duties. but rather that so little materia worth and interest. The grange that expects a lecturer to evolve bright, snappy
interesting programs from a few dogeared school-books from a few dog is imposing an impossible task. Books of general interest there must be, wherein the essayist may find attractive and also be available for those who wish to discuss the subject or gain more extensive information. We would quickly dis charge the painter who confined his
brush to one spot, and neglected other brush to one spot, and neglected other
parts of the house. Do we not, by conparts of the house. Do we not, by con-
fining ourselves too closely to the same worn topics, unconsciously imitate the painter? Were books scarce and high, or the desire for wider knowledge lack
ing, then would the task be hard. ing, then would the task be hard. But is a consuming desire to know. A number of lecturers have asked that pro-
grams be prepared, and references cited grams be prepared, and references cited
saying that their granges were willing to purchase books. Such a plan is under headway. We sincerely hope, whether these or other topics are used. that the grange will not be so short-sighted as to or adding to the old one.

## 6 Silver-Plated Teaspoons

and Farm and Fireside one year, for only


Nickel-Silver Base $\begin{gathered}\text { The base of this } \\ \text { ware is solid }\end{gathered}$ nickel-silver, which is white all the way
through, positively will not change color through, positively will not change color It is the highest grade known, being full

Coin-Silver Plate On top of this is plated the full STANDARD amount
of pure coin-silver. This combination of pure coin-silver. This combination
makes a ware which we guafantee to give satisfaction. Test it, and if not found exactly as described, return it Initial Letter Each spoon is engraved initial letter in Old English. Only one letter on a piece. Be sure to name the nitial desired
Pattern We have the spoons in two No. 4. You can make your choice of
pattern. Where no choice is named we pattern. Where no choice is named We
will fill orders with our selection. We also reserve the privilege of substituting any particular initial is exhausted We can thus fill all orders the same day they reach us. It is impossible to describe the beauty of these spoons, and the illusration falls far short of conveying a full they are perfect, and will render complete satisfaction.

## GUARANTEE

We absolutely guarantee every piece of this ware to be exactly as it is de scribed and to give entire satisfaction or our money will be cheerfully refunded. will please you.
When this offer is accepted no cash commission
can be alloued, and the name camnot count
postage paid by us in each case

## The Family Lawyer

By JUDGE WM. M. ROCKEL

Legal inquiries of general interest from our regular subscribers will be answered in this department
free of charge. Querists desiring an immediate answer by mail should remit one dollar, addressed free of charge. Querists desir
"Law Department," this office.

## DRAINAGE LAWS

C. L., Michigan, makes inquiry in reference to the drainage laws of that state. ney at his home, as the answer would not be of general interest.

## ANSWER TOO LONG

G. W. L., Bridgewater, Mass. Your inquiry is too long, and would require be had in a department of this kind. ANONYMOUS LETTERS
G. E. M., Pennsylvania, asks: "What is the law in regard to anonymous letters, and what is the penalty for writing one?
I know of no law relating to anony mous letters, neither is there any penalty
for writing one. It is generally considered a cowardly act, but the law makes no provision for, the same.

## ENFORCEMENT OF CONTRACT

D. K. submits the following: and C. had a sister who was demented They all agreed to keep her for a year B. and C., so A. had to keep her all the B.ine. Could A. come in for pay?" The contract between $A$., $B$. and $C$ the keeping of their demented sister, but merely provided that they would keep her for a year each in turn; therefore, without B. and C. consenting or agree ing to pay A., A. could not

STOCK BOUGHT AT PUBLIC SALE
. R. J. inquires: "If A. bids in number of cattle or hogs at a public sale, and they are struck of to him, and he
comes after them the next morning and the loser $A$ or $B$ it being the custom to go after them the next morning? Can a person shipping a car of hogs to Chicago sell them himself, or will he be sell then1 for him?"
It seems to me that when the hogs or that the title passes to the purchaser, and the seller becomes merely an agent of the purchaser to take reasonable care of the stock until he calls for it, and if the stock is stolen or goes away without B.'s neg-
ligence, A. would be the loser.-I know of no reason why a person could not sell his hogs himself without putting them There might be some rules in reference There might be some rules in reference
to the stock-yards at Chicago and the railroads rumning into them that would railroads running into them that would a first-class commission-merchant to sell.

LIEN OF FOREIGN JUDGMENT
C. E. J. gives this query: "In an ac-
tion for debt, both parties being residents tion for debt, both parties being residents
of Maryland, if the plaintiff obtains judg-
ment, and records it in Washington, D C., where the defendant's property is, do it become a lien on his real estate there On appeal, when should the case be trie in the county court, when the defendant
resides in Washington. If the defendant fails to appeal within sixty days, is the fails to appeal within sixty days, is the case a closed incident so far as he is concerned? Has he no further redress? before the cont??"
As I understand it, the District of Columbia is in the same relation to Maryland as any other state would be, and made acquired realty in another state by merely filing it, etc. Of course, on appeal the case would have to be tried in Maryland. If the party wishes to en-
force judgment upon property in the Disorce judgment upon property in the Dis-
trict of Columbia, an action must be brought in the courts of that place. Usu lly, if a person docs not appeal a case his right in that direction.
BUILDING AND LOAN ASSOCIATIONS
Q. W., Akron, Ohio, wants to know: Are building and loan associations safe places in which to invest money
Yes. Generally speaking, there are but ew societies or corporations that offer as safe a place for investment as building and loan associations. The reason for this is that all funds of the associ-
ations are invested in first-mortgage ations are invested in first-mortgage
securities. I cannot agree with Mr. securities. I cannot agree with Mr.
Greiner, in the issue of July isth, when Greiner, in the issue of July 15th, when he says he cannot recommestments. Of course, like every other institution, their safety depends somewhat upon the people in the organization. It must not be forgotten that
there are, at least in Ohio, two kinds of these associations. One is the local, home, associations, and the other national, or foreign. What Mr. Greiner says in reference to such institutions being usually organized for the interest of of-
ficers, etc., applies almost exclusively, ficers, etc., applies almost exclusively,
if not exclusively, to the latter class Almost twenty years' experience with home association convinces me that they are honestly managed, and are an exceedingly safe place for investment. Of
course, whenever any one promises an course, whenever any one promises an an institution to fight shy of, it makes an institution to fight shy of, it makes
no difference whether it is a building and loan association or any other kind of corporation or business. In Ohio and some other states building and loan associations safety and solidity of each association must depend very largely upon the men who are in charge of it. A great many associations have contingent funds large enough to meet ordinary losses, and this would necessarily be absorbed before the In Ohds of any depositor could be affected. In Ohio five per cent of the net ear
ings must be set aside for this purpose.

## The Family Physician

By ROBERT B. HOUSE, M.D.
an overlooked cause of pulmonary DISEASE
The medical press, and even the secexlaustive essays on the causes, prevention and rational treatment of the various and profoundly scientific quarterly dis strictly devoted to a study of this important subject. The extiological factors, or
causes, and prevention are the prominent topics of discussion, and yet none of the writers seems to give more than a passing thought to one of the foundational
and most prolific causes of tlisis dreaded and most prolific causes of this dreade
scourge. This cause is, in a word nonventilation of the lung-tissue. Babies cry. It is their primal source of seff-
defense, their one birthright and physical salvation. Crying aërates the lungs, and circulates the oxidized blood. Soothingsyrups kill because they prevent Nature's
vital resource-crying. Every child should be systematically indulged, and even encouraged, in crying; not in the convulsive
shrieks of actual pain, spasm of colic or tantrum of temper, but in that wholesome and hygienic, but at the same time vigorous. effort which thorouggly and repeat
edly expands its little lungs to their full extent. The quiet, "passive, non-crying
half-developed, lungs. All the effeminate
and "goody-goody" children live colorand "goody-goody" children live color-
less and washed-out lives, usually dying yous and washed-ont lives, usually dying young of some form of wasting disease, Personal ventilation is far more essential, although much less talked of, than ven-
tilation of the room or dwelling. Nature will tolerate and successfully antagonize a pretty bad specimen of air if there is only plenty of it utilized.
Unused air-cells collapse, then they slowly degenerate. In a short time they furnish a favorable culture-field for the loses no time in "catching on." Everybody inhales the germs every week, and at times every day, of thelin lives. Healthy jects and ejects them. But unused cells furnish them the very enjoyment they are seeking, and when they find nooks, nests and corners to which little or no oxygen
finds access, they lose no time in starting a colony. The athlete and those who are accustomed to robust exercise out of
doors develop sound and roomy breath-ing-apparatus. Confine such a person to the house, and make him sedentary in his habits-result, unused lung-tissue, and alwhich ends in tuberculosis and death.

## A Trust Builder in Knee Trousers

## ROY DUDLEY is the "Promoter" of a "Trust"

Composed of school boys in a Virginia city. In organizing his "combine" he
displayed the energy and ingenuity of a Morgan. His dividends amounted to $\$ 38.20$ the first month
A few months ago young Dudley started to sell The Saturday Evening Post. 45 of them secured orders to deliver the magazine. The next day he secured 30 more orders from business men. His
chum, "Taffy" Wood, became a little envious and wanted to do the same
thing, but young Dudley convinced thing, but young Dudiey convinced
him that to do so would mean "ruin-
ous competition." Instead, he offered him competition." Instead, he offered to re-sell copies to "Taffy" and to
turn over to him a part of the customturn over to him a part of the custom-
ers already secured, with the understanding that he would get a certain number of newe customers. Then he made the same sort of a bargain with Taffy's younger brother.
Three other boys had sell The Post before the " started to was organized. He asked them to join his combination, but they refused
his terms and serious trouble was his terms and serious trouble was
threatened. Next week Master Roy threatened. Next week Master Roy
secured I4 new customers in the ter ritory in which his rival was working.
Then he offered to " Then he offered to "absorb" his competitor by giving him these new
customers, provided he would get customers, provided he would get
some more new ones and thereafter buy his copies from the "monopoly. The remaining two boys "compromised" and started work under Roy's
direction the following week. direction the following week.
Then Dudley wrote to Then Dudley wrote to the pub-
lishers explaining what he had done, and offered to place a standing weekly order for three months, provided no new boys were appointed during that
time. Within two months he was selling 350 copies a week. One week
he sold a thousand copies. This is he record of a boy in knee trousers,
ten years old.

> IF You WIL TRY IT we will send the copies and everything neeessary, including ADaindy Little Bookleztin which twenty five out of more than six thoussnd bright boys tell in their own way jus how they have tell in their own way just how they ha
made a success of selling THE SAURDAY
EvENING Post outside of school hours.


Some of these boys are making $\$$ xo to $\$ x 5$ a week. You can do the same. NO MONEY REQUIRED TO START. We will furnish ten copies the first week free of charge, to be sold at five cents a copy. You can then send us the wholesale price for as many as you find you can sell the next week.
$\$ 225$ IN EXTRA CASH PRIZES

THE CURTIS PUBLISHING COMPANY

## The Western College for Women OXFORD, OHIO

## Delightful location in the beautiful Miami Valley of southwestern Ohio, one hour from Cincinnati, on Monon and Vandalia Express routes. Full classical courses and many electives.

 Superior advantages in Art, Piano, Voice and Violin. Campus of sixty-five acres. Specialattention to physical culture. Forty-11inth year begins Sept. 9, 1903. Number limited to 200 .
 inusic become part of a
complete and symmet-
rical education?
B.A. degre

1. A four-years' Classical course for the B.A. degree. 5. A healthful location, a beautiful campus, comA three-years' Literary course for a Diploma.
2. A standard equal to that of the best colleges.
3. A wide range of elective studies.
modious buildings, scientific physical training, A wide range of elective studies.
Terms, $\$ 300.00$ a year, with an extra charge of $\$ 90.00$ for private lessons in music and art.
Visit The Western before you decide, or send for cony of "Undergraduate LEILA S. MCKEE, Ph.D., President


# $\sqrt{49} 2176$ <br> <br> Around the Fireside 

 <br> <br> Around the Fireside}

## THE DAFFODILS

Ah, sweet was the air on that fair, tranquil eve (E'en now at the memery my ry lely heart thrills!
When I walked with my beautiful love, Genevieve When I walked with my beautiful lore, Genevieve,
Down the old garden path twwixt the bright daffodils!

Ah, the long years have come, and the long years have flown,
and ills, with them sorrows and pleasures But néer has mill
But ne'er has my spirit outlived or outgrown
The love that I learned 'mid the dear daffodils.

Dear blossoms so full of the breath of the spring, Suggestive of meadows and murmuring rills, There's one heart that loves you, one friend that A song in the pr
And oh, thou soul-blossom in maidenly guise, In mem'ry my heart in thy dear presence thrills The love that I lost 'mid the dead daffodils
-Lida M. Keck.

FORTUNES ON FINGER-ENDS The costliest thimble in one possessed by the Queen of Siam. It was presented king, who had it made at fifteen thousand pounds This thimble is an exquisite pure of art. It is made of shape of a half-opened lotus he Royal House of Siam it is thickly studded with he most beautiful diamonds and other precious stones, form the name of the queen, ogether with the date queen, marriage. She regards thi thimble as one of her most Not long ago a Paris jeweler made a most elabof a certain well-known American millionaire. It as somewhat larger than arnary size of thimbles, and the agreed price was
five thousand pounds. The gold setting was scarcely
visible, so completely was it et with diamonds, rubies and pearls in artistic designs, the rubies showing the initials of the intended recipient. This thimble was the millionaire's dorer,

## TO POULTICE A FINGER

It would seem that any person might poultice finger if only sure what kind of a poultice to use. Observation shows that very few housekeepers know "just how" to put on a poultice so it will stay in place. A piece of coarse cheese-cloth, a package,
of absorbent cotton and a roll of inch-wide surgeons' of absorbent cotton and a roll of inch-wide surgeons the dressing for the finger is to be, the method of the dressing for the finger is to be, the method of
keeping it in place is always the same, unless the injury is serious and the hand is not to be used.

If a powder is to be used on the finger, sprinkle it on, cover with a small piece of cheese-cloth, and over this put a plece of the cotton, putting it on so it
will cover the top of the finger, and from there fold it closely about the injured spot. Take one end of the bandage, and place it where the finger meets the palm of the hand; carry it up over the top of the finge and down the back to the hand, then turning there carry it back over the top of the finger to the starting point. Now carry the bandage to the top of the finger and from there begin winding it smoothly about the finger until the palm is reached. Do not hesitate to use the bandage liberally. Leave several inches of the bandage, and cut it through the center with the scis A poultice this adjusted will not slip around uncom fortably or come off easily.
If it is to be a wet poultice, put on the cheese-cloth, then a piece of the cotton dipped in the solution to be used, with a dry piece of cotton over it. Such a poultice, if a liberal supply of cotton is used, will hold the moisture for a long time. If any material such as crackers or flaxseed is to be used, first put on the cheese-cloth, to keep this from adhering to the wound, then the poultice, and cover with dry cotton. The cotton will ward off many a little knock which would
make the flesh smart. If the wound should throb, the make the flesh smart. If the wound should throb, the
bandage should be loosened. Bandages may be made bandage should be loosened. Bandages may be made from old iinen handkerchiefs. INEz Redding.

## NUTMEG-MELON MANGOES

Remove a natural section from each melon, and pare away the rind from the entire surface. With a en plan take out the seeds. Fasten the sections again in place, each to the melon to which it belongs, with a


## NUTMEG-MELON MANGOES

cach four or five melons pare a dozen peaches, and cut the pulp in slices. Add a few cherries, if at hand one fourth of a cupful each of preserved ginger and orange-peel cut finc, and mix with one teaspoonful o ground cinnamon. one half teaspoonful of mace and one lalf teaspoonful of coriander-seed. Fill the removed For seven pounds of the prepared melons removed. For seven pounds of the prepared melons make a syrup of one pint of vinegar and four pound or one half cupful of cinnamon-bark, blades of spices, cardamom-secds, celery-seeds, cloves, tiny red-pepper pods and bay-leaves mixed. Let the fruit. covered ar until morning, the drain off the syrup, heat to the boiling-point, and re turn to the melons. Repeat twice. then reduce the syrup so that it just covers the pickle, and set aside.
Boston Cooking-School Magazine.
who can now boast the possession of the second most valuable thimble in the world. Her father was so pleased with the fine workmanship it showed that e made for presentation to his daughter's school companion and bosom friend.
Five or six years ago a jeweler in the west end of London was paid a sum of nearly three thousand pounds for a thimble which the pampered wife of a South American Crcesus insisted on having made for her. This was one mass of precious gems, diamonds and rubies, which as thimble adornments seem to almost monopolize feminine taste, largely predominating.
That eccentric prince, the late Maharajah Dhuleep Singh, never did things by halves, and one of the most beautiful and costly thimbles ever made was that which in Russia. The price of this ran well into four figures and the gems set in it were all pearls of great value and no less beauty
So were those in a highly treasured thimble which on the occasion of one of his visits to Europe the late Shah of Persia presented to a lady whose guest he was for a few hours. In the words of the delighted which in reality it was, save for the gold in which they vere set. An expert in precious stones valued this thimble at fifteen hundred pounds.

There are thimbles of no intrinsic value, but which, on account of the famous women to whom they have belonged, would command very high prices if submitted to public auction. In the possession of the wealthy Mrs. Vanderbilt there is a thimble which was formerly used by Queen Alexandra. It is an extremely dainty But made of gold and enamel.
But apart from its associations, it is not of much
eater value than another thimble owned by the same greater value than another thimble owned by the same American lady. This is a very serviceable-looking
article, in solid silver, but very small. Its value lies in the fact that it was the property of the late Queen Victoria in the days when she was only a girl of foureen. From its appearance the late sovereion knew how to ply her needle in her youthful days.

The first thimble ever made was the one presented in the year I684 to Anna van Wedy, the second wife of Dutch invention giver, Van Bensci In making the presentation, the new covering for the protection of her diligent fingers -The Queen- (London, England).

## EBEN HOLDEN REDIVIVUS AND A PIE

"I remember once," said Uncle Eb, "I praised a woman's pie. We were over in Canada buyin' cattle. to hev fer my dimer. I told her thet I was very fond a pan. I didn't know what 'twas, er mebbe I could hev made an excusc an' got away. Suddenly the woman began to cut it.
took me a long time but here 'tis, an' I hope you'll like it only jest a leetle streak o red stain through the middle o' it where the berries oughter be.'
"The old man paused a moment.
to eat thet pie. It was the greatest "o' course I hed to eat thet pie. It was the greatest obstacle I ever encountered. Fer a minnit I felt as if I was ketched in a bear-trap. But I looked as pleasant as possible, an' through than it went to work on me. There wa'n through than it went to work on me. There the good woman she brought up another pie Sh whe good woman she brought up another ple. She what I thought o' her bakin', but she pressed it on me "
"'I thought you said it was good,' says she, with a look o' disappointment

Madam. says I. the pie is good. but I ain't good enough to eat it. I aint even joined the church yit. Give me a leetle more time f
Bacheller, in Leslie's Monthly

The Farm and Fireside for September 15, 1903


## THE ONE-TALENT MAN

## While some with talents ten begun

 "We started out with only one. "With this," he said, "I'll do my best And trust the Lord to do the rfleyeHis trembling hand and tearful eye His trembling hand and tearful ey
Gave forth a world of sympathy Gave forth a world of sympathy.
He whispered words that calmed the And little children learned to know, When grieved and troubled, where to go.
He loved the birds, the flowers, the trees, And loving him, his friends loved these His homely features lost each trace Of homeliness, and in his face
There beamed a kind and tender light That made surrounding features bright. When illness came, he smiled at fears, He said "Good-by", and all confess He said, "Good-by, and all cons.
fe a grand success.
-Presbyterian Journal.

## THE FOUR-O'CLOCK

Tirs plant was first discovered by Europeans in Peru, and hence is
sometimes called "the marvel of sometimes called "the marvel of
Peru." It is also called "the after"10on lady," It belongs to the genus Mirabilis - that is. wonderfur. Its fow ers are usually white, but sometimes yel-
low or red. They are star-shaped, and grow upon a branching, treelike shrub. grow upon a branching, treelike shrub. closed nearly all day, no matter how brightly the sun shines, and then open
suddenly noon. If the day has been unusually warm. they wait until five, or even six, o'clock.
Now, some flowers bloom only in the dark, as the "cereus grandiflorus," pop-
ularly known as "the night-blooming ularly . known as "the night-blooming
cereus." Some close at night, and open again when the sun begins, to shine. But this wonderful plant waits until the sun is mometer marking the degree of light and heat to which it was made to respond, heat to which
opens its petals.
This plant, which is peculiar to the Pacific coast, we found growing wild in the foot-hills of the Santa Clara Valley, California We transplanted it into our in watching its prompt coming to time from day to day. "Is it four o'clock?" some one asks, and the answer is, "Look
at 'the afternoon lady.' If she has come at 'the afternoon lady.' If she has come out from her seclusion, and is arrayed in all her glory, like the lilies of the field, ive know the time as
heard the clock strike.
I have not been able to find any explanation of the peculiarity of this wonto certain conditions of temperature, and to be prompt in its response. It resists the wooing of the midday sun, but yields to his attraction when he is near his setting. It has, however, suggested to me two practical thoughts:
First, how faithful what
First, how faithful what we call nature,
as distinguished from man, is to the laws as distinguished from man, is to the laws of its being. When God made the four-
o'clock thousands of years aco, he said o clock, thousands of years ago, he sark,
to it, "You are not to bloom in the dark, like the cereus, or to open your petals to the sun as soon as he rises, like the
morning-glory. You are to wait all morngh the shining hours-wait until late in the afternoon, when many flowers that have been open all day will begin to, close, and then you are to expand."
Though that would have seemed a strange command if this marvel of Peru had been able to think and reason, it did just what it was told to do, and so have its descendants ever since, even unto this
day. There has been no disobedience day. There has been no disobedience, and hence no degradation, in the material
universe. Man alone has rebelled, and universe, Man alone has rebelled, and created.
Second, we learn that the fullest development of tife does not always come able. We would expect this marvel of Peru to appear in all its glory at noonday, when sunshine is fairest and brightest. And so we think of middle-life, when body and mind are in their fullest vigor, as its most glorious and joyous period. But often-always, indeed, when
the heart is in harmony with God-its the heart is in harmony with God-its
graces expand when the sun is near its graces expand when the sun is near its
setting. Yes, the brightest hours of a setting. Yes, the brightest hho has not
true life are near its close. Who has true lie are near its close. Who gho the light which glows in the
wondered at the
face of many an octogenarian? He is face of many an nctogenarian? He is
the four-o'clock of the plants of righteousness. Such a four-oclock was the eousness. Pauch a four-o clock was the
of his life a prisoner in Rome, but they were evidently his happiest years. He
was visited there by Christians from all parts of the world, many of whom had been converted under his ministry. He
wrote letters to the saints in Asia Minor and western Europe. He had access to the innermost life of the imperial city. and won converts in the household of
the most degraded of the Roman emperors. No wonder, then, that he wrote perors. No wonder, then, that he wrote
to Timothy, "I have finished my course." And such a blessed consummation may we all have who believe in Jesu
diah Oldschool, in The Interior.

## CUTTING TROUBLES SHORT

A little boy gave a much-prized toy to moments visitor to play with. In a few pieces. The tears rushed into his eyes, and for a moment there were signs of a tempest brewing.
show of courage. he quickly thrust the pieces out of sight behind an old chest, saying, "Well, I dess it tan be patched," and went on playing.
We do not all take our troubles so philosophically, nor cut them so short. And a blessing , woun be did! And why shouldn't we? It is largely a fondling our aches and pains, of hugging our troubles, and making much of every disquieting trifle. Our lives are too mort; we cannot afford to devote so Let us accustom ourselves to cutting short whatever hurts-to stopping quickly when we are prone to mope and fret. It is only stretching the troubles-lengthening, widening, deepening them-to coddle them so. We cannot get entirely away it is best so, for we would not appreciate the life and brightness of summer if it were not for the dull, dismal minter-time-but curb can shake oustless, complaining tongue; in truth, we can cut aur troubles short if we go about it determinedly.
If you are afflicted, do not go around with sad resignation stamped upon your countenance, grasping the first opportunity to pour your troublous story into the ears of an unwilling listener. Rest assured there will be no willing listener. For the sake of courtesy, and from inpatient ear to your recital but while they patient ear to your recital, but while they purn away gladly to some brighter face Just decide quickly to lay your troubles aside and see if they, too cannot be "patched." Shut your doors to useless worry and regret. If your toys are broken, your plans. upset, forget it before
the frowns have left a furrow. Let us all the frowns have left a furrow. Let us all cultivate a spirit of light-heartedness, a
faculty for getting down to the bottom of things and sorting out the unnecessary burdens. Let us be
"A happy-tempered bringer of the best Out of the worst;
past cure,
And puts so goo Where action's foolish, while he remedies In silence what the foolish rail against.
We are all frail, all human, and have much in our lives to regret; but nursing a bitter memory never fails to strengthen and embolden it. Just put the dark spots, the dull heartaches, a way in some shadowed corner out of sight, and take up a gladsome, joy-bringing hope to
cherish and dream over. Hope helps us through every difficulty, It helps us through every difficulty. It makes a bridge across the widest, deepest chasm.
Then why not use it as a weapon against the stinging grievances, regrets and worries, and just cut them short with its ries, and just cut them short with its
shining blade? We will not get old and wrinkled half so soon, not be "laid on the shelf', because our backs are overloaded with worthless baggage, but will
awake some fine morning with a strong awake some fine morning with a strong realization of what true living means; of
the splendid opportunities, the sweet the splendid opportunities, the sweet
friendships and glowing expectations Iriendships and glowing expectations
which fill it so full that there is no room for miseries to intrude their gloomy features, and stopping them short at the doorway will become a fixture-a habit
with content and happiness in its wake.

THE LACK OF 1T"
It is not the Christianity in church lack of it in individuals who are self labeled "Christians."
L. M. K.
 EARLY MADE
 ISTMAS GIFTS in photog-
in aphy can
rap do wonders in the making o Christmas gifts
that cost but little. ts
ts
le. white does not care for blue, use black-and-
prints, mounted them on white cards strung with ribbon to match the prints, leaving the fourth card at the bottom for the calendar. The ribbon was tied at the top in a pretty bow. If preferred, cord and tassels could be used. If one


If one can use a these are well printed they look like camera, go around very pretty little etchings.
NeEL A. Turner.
he favorite walks or roads of your
town, select spots,
and get views that will serve to remind an absent friend of some long, perfect

A CLUSTER OF SMILES days that may have been spent together.
Be careful that all prints are toned to
"A penny and a prayer" was the in "A penny and a prayer" was the inold Mary by her Sunday-school teacher The little girl took it home, and a few days
 later, when a friend
called to see her mother, she immediately presented her mite-
box. When the lady responded with a penny, she dropped on her knees, and began her childish prayer "Now I lay me down to sleep." an inquisitive little

## GIRL

Upon seeing the colored servant leave for church, the little girl of the household was heard asking, "William, is the church you, heavenly transportation
At a revival in a Western church a good rise during the meeting, and solemnly dethe same shade. Mount them separately clare, "When I die I expect ,to go to on gray cards, and tie with pretty ribbon heaven as straight as a shingle.
in booklet form
If the gift is for brother or sister, take
a view of the house for the first card, and of different rooms for the succeeding cards, until the home is all there,
That the gift may serve as a daily, re That the gift may serv
minder of home, select a card fourteen by eight inches. Mount a two-inch calendar in one corner,
then group each view arthen group eachome, the listicary, the favorite cat, horse or dog, a bit of the garden or grape-arbor with the old father figure-and print under Home." Puncl holes in the card two inches from the end, and run in a cord with tassels,
which to hang it up. which to hang it up. of The I made for a young girl to give to a dear fits siting by the rivof her sitting by the riv-
er, another in which she was dressed in quaint, was dressed in quaint, old-time costume, and
still another of her in her favorite room, These
I finished in deep blue


Page 12
less "HOG AND HOMINY"

A

 her home in SufThth an article,
Take Tea in the
Open, by 'A. M. S.' in your issue
f July Isth. Wiill
A. M. S. kindly tell us how her
dishes a Ie p re-
pared? What kind of nuts did you


## The Housewife

"STRAW MEN"
use, and what quantity to a good-sized head of lettuce? How are salted wafers prepared? May we have the
seed-cake recipe? I am my own cook, and would be glad to know how to prepare light dishes. I think that in this section of the country we eat more hog and hominy than is good for us."
NUT-AND-LETTUCE SANDUICHES.- Forestall for these by having bread old enough to be sliced very thin and butter soft enough to spread very easily. (Some peonicely.) Always use butter sparingly in this dainty. Spread your first slice hefore cutting the bread. Cut the second slice, and spread on the lower side. The
secret of this little trick is that the two slices will then ie edge to edge, daintily, curve conforming to curve. Mince in your chopping-bowl a handful (measured after shelling and blanching) of peanuts, English wal-
nuts, almonds, or any other nuts you have handy. If

knot-stitch scallop lace
you like bland flavors, mix the nuts with a little rich cream seasoned with salt and pepper; otherwise, use salad dressing. Your may shred your lettuce fine, or lettuce-leaf on each slice, spread with your prepared nuts, put on another covering of lettuce, squeeze a econd slice of bread and butter, pat lightly together, and it is ready to eat.
Tme Salad Dressi
Time Salad Dressing.-The following dressing will keep for a week or more, and suits nearly every palate: The yolks of two eggs well beaten, one level teaspoonful each of salt and pepper, two teaspoonfuls of white of prepared mustard. Mix these until perfectly smooth one tablespoonful of butter-never mind if it is in a chanufacture Put all into a small double kette (o larger one), and heat, stirring rapidly and steadily until the dressing is of the consistency of cream. When you
have learned low to make this you will be able to make it more or less peppery, salty, sweet or sour, just as yoll may preier it. narrow crackers, salted. Your grocer can supply them. They cost from ten to fifteen cents a package.
SEED-CAKE.-This is the very old recipe, brought from England, and now copied from a yellowed man uscript book: One quart of flour, four eggs, two cupiuls of sugar, one half pound of butter, caraway-seeds of baking-powder. Get the seeds of a grocer or drug-

WHEN A CHILD SWALLOWS A TACK
A friend recently wrote of the death of a child from child castor-oil at once, and just here was the fatal error, ior the oil brought on such violent movement of not removed. Some years were forced into them and not removed. Some years ago the writer swallowed three carpet-tacks, and old "Auntie" advised chewing
slippery-elm bark into a pulp, and swallowing it. The treatment was kept up continuously for three hours and then every little while until the tacks passed the
bowels. Where a child is too young to chew the bark stir the ground bark into a mush with warm water, and ping, or within an hour. Keep a cupful before stopping, or within an hour. Keep giving this every two The slippery-elm forms a coating around the object,
and if it is tacks, glass or other sharp articles, prevents cutting or puncturing; if lead or copper, it pre
vents poison.
May Lonard.

It's only the people of straw we fight,
And joys that we hope to get,
And make of our living the wrong or right And cause us to smile or fret.

It's ever the love that we cannot gain
That seems to our hearts the best;
And it's always the kiss that we miss, my dears,
The present is all that is ours, you know, To-morrow can ne'er be sure;
t's mostly the pain that we fear will come
That medicine caniot cure
So live but a day at a time, my dears,
Nor chafe at the old world's law;
Fight only the foes that are flesh, my dears,
Away with the men of straw! $\quad$-L. M. K.

## GOOD THINGS TO EAT

Elegant Rolls.-Take two quarts of flour, one hal cupful of sugar and a piece of butter the size of an egg Scald one pint of sweet milk, and let it cool, then mak one lialf cupful of yeast and a teaspoonful of salt, and set to rise in a warm place over night or until light then knead it, and let it rise again. When well risen cut the rolls half an inch thick, shape round, spread over each round a little melted butter, double over so the roll is a half-circle, then let rise very light, and them in the baking-pan, in close contact when putting hem in the baking heir proper shape.

East.-Take a double-handful of hops and one halt dozen large potatces, and boil together in one half gallon of water until done; strain, then mash, add one hal cupful of ginger, a small cupful of flour, one cupful cool, then add one cupful of good yeast. The next day cork up tight in a jug.

Tegetable Hash.-Chop not very fine the veg etables left from a boiled dinner, and season them with salt and pepper. To each quart of the chopped veg etables add one half cupful of stock and one table spoonful of butter; heat slowly in a frying-pan, and add two tablespoonfuls of vinegar. When done turn into a hot dish, and serve immediately.

Tomato Salad.-Take three large, ripe tomatoes, one medium-sized cucumber and one white onion, peel and slice them, and lay them in a dish alternately. Use tablespoonful of vinegar, then garnish the dish with parsley, and set on ice until ready for use. This makes parsley, and set on ice until ready for use. This $m$

Iced TEA.-Make in the usual way. Do not let it get cold on the leaves, but strain it off at the end of ten minutes after the boiling water is poured on. Set on ice to cool. When ready to serve, put two lumps of sugar in each glass, half fill with crushed ice, pour in
the tea, and stir until the sugar melts. To each glass the tea, and stir until the sugar melts. To each glass
add two thin slices of peeled lemon. This adds greatly add two thin slices of pee
to the flavor of the tea.

Batarian Cream.-Sweeten and churn a pint o sweet cream to a froth, dissolve two tablespoonfuls o gelatine in warm water, and stir into the cream. Se
on ice until it is ready for use.

## A NEW USE FOR BLACK STOCKINGS

"Will yout please tell me what your boy is wearing?" I said to a friend whose three-year-old son was performing all sorts of antics in the hammock, and
whose every movement revealed what looked to be black tights.
She laughed, and answered, "Black stocking-legs," and then. seeing my look of astonishment, she showed me how they were made, and they have saved me a
great deal of washing, besides always giving the child such a trim appearance that I would like other mothers to try the scheme.

Take the legs of black stockings, cut them sufficiently long to reach from the waist down into the stocking. From the top cut down along the seam for about two finger-lengths. Then cut a gusset the shape of a narrow oval, and join one side to one of the stocking-leg where you cut it along the seam, and join the other side of the gusset to the other stocking-leg in the same way. Ans-legs are joined or so at the top where the form the band. and may be strengthened by a piece of firm muslin, in which the buttonholes are worked The bottoms, of course, are hemmed.

The same idea may be carried out in making under drawers from the sleeves of shirts and lower parts of
the legs of underdrawers.
I. B. H.

## KNOT-STITCH SCALLOP LACE

## Abbreviations-st, stit in; $d$ c, double crochet.

## hain; d c, double crochet.

 First row--D c in fifth $\mathrm{ch}, \mathrm{ch} 2, \mathrm{~d} \mathrm{c}$ in third st from last, 3 d c in following 3 st, ch 2, Skip 2, 4 d c innext $4 \mathrm{st}, 2 \mathrm{k}$ st, skip $10,4 \mathrm{~d} \mathrm{c}$ in next 4 st ch 2 , skip 2. 4 d c in next 4 st , ch 2, skip $2, \mathrm{~d} \mathrm{c}$ in third st, ch 2 , skip $2, \mathrm{~d} \mathrm{c}$ in third st. ch 6 . $4 \mathrm{dc}, \operatorname{ch} 2, \mathrm{dc}$ in last of 4 dc .2 dc in hole, dc in first of $4 \mathrm{~d} \mathrm{c}, \mathrm{ch} 2, \mathrm{dc}$ in last of $4 \mathrm{~d} \mathrm{c} .\mathrm{I} \mathrm{kst}$, knot of last row, I kst, d c on first of $4 \mathrm{~d} \mathrm{c}, \mathrm{ch} 2, \mathrm{~d} \mathrm{c}$ in last of $4 \mathrm{dc}, 2 \mathrm{dc}$ in hole, d c on first of $4 \mathrm{~d} \mathrm{c}, \mathrm{ch} 2, \mathrm{dc}$ on last, $\mathrm{ch} 2, \mathrm{~d} \mathrm{c}$ on first d c of last row, d c in hole at end.
These two rows are repeated indefinitelv for head-

Fifth row-Heading, i k st, row, ch 2 , heading. 3 ch at end of third row, ch 3 turn
Sixth row- 3 d c in last d c of $3 \mathrm{~d} \mathrm{c}, 2 \mathrm{k} \mathrm{st}$, heading Seventl row-Heading, I k st, catch into knot, 2 k 3 d c in hole at end, ch 3, turn.
Eighth row- 3 d c in last d c of group, k st, catch 2 kst , heading.

Ninth row-Heading, 1 k st, catch, 2 k st, catcl into first dc of 3 dc, I $\mathrm{kst}, 3 \mathrm{~d} \mathrm{c}$ in hole at end, turn Tenth row- 3 d c in last $\mathrm{d} \mathrm{c}, 2 \mathrm{k}$ st, catch in knot st, heading.
Eleventh row-Heading, I kst , catch, 2 kst , catch, 2 k st, 3 d c c at end, ch 3 . turn.

Twelfth row- 3 dc in last $\mathrm{d} \mathrm{c}, 1 \mathrm{k}$ st, catch, 2 ks s, catch, 2 k st, heading.

Thirteenth row-Heading, 1 k st, catch, 2 k st, catch, 2 kst , catch to first of $3 \mathrm{~d} \mathrm{c}, \mathrm{Ikst} 3 \mathrm{~d} \mathrm{c}$ in hole
at end, ch 3 , turn. Fourteenth ro

## k st, catclı, 2 k st, heading.

Fifteenth row-Heading. 1 k st , catch, 2 k st , catch,
2 k st, catch, $2 \mathrm{k} \mathrm{st}, 3 \mathrm{~d} \mathrm{c}$ in hole, ch 3 , turn.
Sixteentl row- 3 d c on last d c , * ch $2,3 \mathrm{~d} \mathrm{c}$ on first knot. ch $2,3 \mathrm{~d} \mathrm{c}$ where knot was caught in last
row. $*$ Repeat down scallop, ending with 3 d c on first d c of heading, heading.

Seventeenth row-Heading, ch I, and put a shell (2 d c. ch 3. 2 d c ) into each hole around entire scallop, with I ch between each shell, fasten down to heading, and turn.

Eighteenth row- $2 k$ st, catch into second shell, * 2 k st, catch into next shell. * Repeat around, ending Nineteenth row-

* Repeat all around, ending with r , catch into knot. heading.

Twentieth row- 2 k st, fasten into knot, and so on around, ending with $\mathrm{I} k$ st and heading.

Begin again at first row. Care must be taken not to make the knot-stitches in the center of the scallop too long. In putting the knot-stitches around scallop, make the knot-stitches of each row a trifle longer than those of preceding row

The heading by itself forms an insertion to match lace, and may be made as wide as desired.

## DECORATION NOTES

Some of the newest furniture is made with Circas-sian-walnut frames of lusterless finish, ornamented in certain parts of the carving with dull powdered gold

An ingenious lamp-shade showed seven panels of pink silk overlaid with an all-over lace of pretty de-
sign. The lace was gilded, and the result was very rich.

A ruffle of soft-toned China silk, wired to keep a circular form, is a great addition to the dome-shaped shade of a hanging-lamp, as it modifies the light and makes it pleasant to the eyes.

Appliqués of leather on velvet are very rich. Kid is also used in this way with fine decorative effect. "Firepainting in water or oil colors on velvet.

With the rage for Colonial entrances, the big brass knocker is once more in evidence. These knockers are the designs are very quaint and suggestive. If the big
 NEEDLE-POINT LACE HANDKERCHIEF
brass door-knobs and escutcheons and knocker are ept well polished, the cffect is very handsome, espec-
ally on a dark or a cream-white door.

In recent olden times, let us say forty or fifty years ago, a harp was a favorite bit of picturesque furnishing avor in elegant homes, where as oiten as otherwise there is no one to play on it, it being now a part of he scheme of decoration. A harp is poetic in suggestion as compared to a piano. Just in the same way that a ship appeals to an artist who is not inspired to paint


## Skin Diseases

Eczema, Salt Rheum, Pimples, Ringworm, Itch, Ivy Poison, Acne
or other skin troubles, can be promptly cured by

## Hydrozone

Hydrozone is endorsed by leading
physicians. It is absolutely harmless, yet most powerful healing Take no substitute and see that every bottle bears my signature.

Trial Size, 25 Cents.
At Druggists or by mail, from
Qfoct
FREE $\left\{\begin{array}{l}\text { Booklet on the rational treat. } \\ \text { ment or diseases sent free. }\end{array}\right.$

## $\$ 125$ to $\$ 250$ a Month and Expenses



TELEPHONES
For Farmers' Lines Organize au exchange in your com.
munity. Full particulars gladly
furnished. Catalog free.
THE Catalog free THE NORTH RLECTRIC CO.
St. Clair Street,
Cleveland, Ohio



How to Dress

## EVELYN SHIRT-WAIST SUIT

Tchine ribbons, which are tied around the model shirt-waist will be a good throat and hang down the back. fashionable tight-fitting coats. It frocks worn at a recent Paris function
 dabrics would be a good ma-
ferial to choose for this shirt-
sheer stuff, cut-out cloth
waist. The Bayard skirt is one of the is applied to chiffon, and cloth perwast. The Bayar skirts a woman can own. It forated in the "broderie Anglaise" fash-
most useful skin
is a full circular skirt cut instep-length. ion, and with the design outlined in It is made with a narrow panel both front
and back, with two deep plaits at each side of the
panels. Stitched bands simulate a yoke effect over the hips, and
pointed, button-trimmed tabs decorate both the
front and the back panel. front and the back panel.
Plain or fancy zibeline may be used for this
skirt, also Scotch tweed, cheviot, serge or a light
weight covert cloth.
DE FOREST COAT Either covert cloth or
rough serge may be used rough serge may be used
for this useful coat. It is demi-fitting both back and front, and is made with strapped seams. At the waist-line the coat is confined with a
black patent-leather belt. The mannish lapels, collar and cuffs are of velvet. If serge is used for the coat, the strapped
seams should be of plain cloth the same
color as the serge.


Any of these patterns will be
sent from this office for ten cents sent from this office for ten cents Evelyn Shirt-waist Suit.The Waist Pattern No. ${ }^{152}$ is
cut in sizes 34 and 38. The Skirt clit in sizes 34 and istern No. I53 is cut medium. De Forest Coat.-The pattern for the De Forest Coat is
cut in 12 , 14 and 16 year old sizes.

Page 14

DNALD FRaSER, sitting by the low, four-paned window of his new
house, was playing old Scotcll
airs on his fiddle to beguile dull time away on a cold winter afternoon place was a remote settlement in a nas-
tlers were engaged in the arduous task
of carving out homes for themselves in the wilderness.
Donald's new house had only four small rooms. but it was considered quite a pretentious edifice in those primitive days. Before it the cleared fields of his farm
sloped down to the ice-bound bay: behind it great sloped down to the ice-bound bay; behind it great
woods stretched inland, intersected liere and there by rails and wood-roads. In1 winter the ice was the great highway of traffic, and people from far and wide passed
Donald's door, often calling to warin themselves be
fore his fire and exchange news of the various scat ered settlements
This day was bitter cold, and a storm threatened Few travelers were abroad, and Donald had no callers
He felt lonely, and got his fiddle down for company It was too early yet to go across the bay to SherLaurie," and thought of Nancy Sherm
ful "han the heroine of the old ballad;
'Her face it is the fairest that e'er the sun shone on, "hummed the young Scotch-Canadian, softly. little colony, which was as yet so thinly populated that ser, Donald's father, had been one of the earliest immigrants from Scotiand. He was a man liked and respected by all, and had taken a prominent part in
slaping the a flairs of the colony. From him Donald, his first-born, inherited his braad shoulders, sandy hair, deep-set gray eyes and resolute jaw. But it was
from his Irish mother that Donald got the qualities which made him a favorite with all who knew him.
The merry curve of his mobile mouth, the twinkle in his The merry curve of his mobile mouth, the twinkle in his
gray eyes, the gay smile, the flashing wit, the irrepress-
ible good-comradeship that distinguished him from the ble good-comradeship that distinguished him from the more reserved pure-bred Scotch folk, even the faint
suggestion of "brogue" in his ringing tones, all con-
tributed to form a personality which was destined to stamp its influence on those rude early days. Many a
blue-eyed Scotcl and English lassie would have been glad and willing to listen had Donald Fraser come a-wooing, and many a girlish heart of a hundred years
ago beat quicker at his step or voice. But Donald cared only for one whom nany others wooed likewise. He was not openly favored above his rivals. He did not
know whether Nancy Sherman cared for him or not, know whether Nancy Sherman cared for him or not,
but he knew that if she would not come to be the mistress of his new house none other ever should. So he dreamed of her as he drew the bow over the strings
and filled the low room with the sweetness of old and filled the low room with the sweetness of old strathspeys, and the rollicking abandon of Irish jigs. overflowed himed, drowning out the Scottish romance, and he wished that somebody would drop in and crack joke with him.
because it looked out north window, which he liked best went to the south one, looking out over a dreary expanse of stumps and hali-cleared land, he saw a sleigh
emerge from the woods. He knew the driver at a glance, and rushing to the door, threw it open with
hearty hospitality. Any one would have beèn welcome, but this visitor was Neil Campbell. who was Donald's especial crony. Friends they had always been, and
friends they were yet-and they were also rivals. People had expected to see their friendship blotted out by Naincy Sherman, and each knew the test. Each lowed
Nather knew it; each was determined to win her, and neither would advantage. Buit no ill-feeling found place between adrantage. Blit no ill-feeling found place between
them, and when Neil came from Berwick he always
called to see Donald before he crossed the bay: nd sometimes, so free from bitterness was their rivalry, He got out at the door, and shook Donald's prof-
ered hand heartily. Then lie tied his restive young mare to a post. threw the butfalo-robe over her, and
followed Donald into the kitchen. Neither in appearance nor character was there the
slightest resemblance between the two men. In point
of looks, Neil Campbell could not for an instant of looks, Neil Campbell could not for an instant com-
pare with Donald Fraser. He was smaller and slighter,
with a dark, melancholy with a dark, melancholy face and intensely blue eyes-
the vivid blue of the St. Lawrence water on a windy autumn day when the sun breakk out after a storm. In
parentage he was pure Highland, with all the Highlander's mystic, poetic temperament. He was not so widery popular as the gay and dashing Donald, and he
was not a farorite with women but his few friends loved him rarely, and it was said by some that if a
woman once loved him she would do and dare all things to win hin.
Neil threw himself down before the roaring fire
with a sigh of satisfaction. It was ten miles from with a sigh of satisfaction. It was ten miles from
Berwick to the bay-shore. and thouglh a lover thought
little of that when his lass waited for him at the end, a
lin little of that when his lass waited for him at the end, a
blazing back log and a "taste" of good Scotch whisky
were not to be despised at the hali-way station. "It's "Yorill be going over the bay, I'm thinking," said
Donald. good-humoredly. A slight tinge of color showed itself on Campbell's
dark face. While he bore Donald no grude for their
rivalry, he could not refer to it in the unreserved way of his friend. To him Donald's offhand way of look-
ing at the situation savored of greater confidence than
he posse he possessed, and this stung hime. He only nodded in
reply to Donald's remark.
The latter had meanwhile ber The latter had meanwhile been rummaging in his
untidy bachelor cupboard, and now he emerged with a
bottle of whisky and a couple of tumblers. This was a
matter of course a hundred years a go. A woman bottle of whisky and a couple of tumblers. This was a
matter of course a hundred years ago. A woman
might offer her womnen friends a cup of hot tea, but a
man treated his callers to a "taste" of the best whisky might offer her women friends a cup of hot tea, but a
man treated his callers to a "taste" of the best whiksy
obtainable. If he failed to do so, he was looked upon
as seriously lacking in what were then considered the as seriously lacking in what were then co
most rudimentary elements of hospitality
".You look cold," said Donald. "Set

## A Pioneer Wooing

fire. man. and let this put a bit of warmth in your veins 1oull need it before you get over the bay. It's bitter
cold onn the ice to-dy. Now for the Berwick news cold on the ice to-day. Now for the Berwick news!
Has Jean Macleann made up with her man yet? And is , Twaill bandy Macdonald is to marry Kate Fergulair. Sandy will not be like to lose his bride past finding."

Berwick was Donald's boyhood home, and Neil had plenty of news for him concerning friends and kin. At first he talked little and cautiously, as was his wont, while Donald bantered and joked, but presently the whisky, which neither spared, began to tell on the dif-
ferent temperaments. Donald's volatile spirits evapferent temperaments. Donald's volatile spirits evap-
orated, and the Scotch element of his nature came orated, and the Scotch element of his nature came
uppermost. He grew cautious and watchful. talked uppermost. He grew cautious and watchfil. taiked
less, but made slinewder remarks. The Highlander, on
the the contrary, lost his reserve, and became more and more confidential. At last, after being shrewdly
manipulated by Donald. Neil Campbell confessed that he meant to put his fate to the test that very night he meant to put his fate to the test that very might.
He was going over the bay to ask Nancy Sherman to He was going over the bay to ask Nancy Sherman to rest should see a wedding such as the colony had never t seen.
leaving 'Neil to abruptly, and went to the window, the fire with the air his grog and gaze smilingly into himself. As for Donald, he was for the moment nonplussed. This was worse than he had expected. He had never dreamed that Neil would dare bring matters
to a crisis yet. But there was no time to be lost if he to a crisis yet. But there was no time to be lost if he
meant to get ahead of his rival. In lis heart Donald meant to get ahead of his rival. In his heart Donald
hoped that Nancy Sherman cared for himn. What else could those modestly bestowed favors and shy looks. such as she gave to no other, mean? Yet he might be whether or might like Neil best, after all; and chance. Donald knew very well that Nancy's father avored Neil Campbell. as being the richer man in
worldly goods. If Neil asked Nancy to marry him when he, Donald, had not yet spoken, Elias Sherman would have the most to say in the matter, and Nancy would never dream of disputing her father's comnnand.
Donald looked far out over the bay, and realized that Donald looked far out over the bay, and realized that
his chance of winning Nancy depended on his crossing hris chance of winning Nancy depended on his crossing
that white expanse before Neil did. How could it be that white expanse before Neil did. How could it be
managed? A twinkle came into Donald's eye. All was managed? A twinkle came into Donald's eye. Alt was
fair in love and war, and Nancy was well wortld the trial. He went back to the table, and sat down.
"Have some more. man, have some more." lie said, persuasively. "'Twill keep the life in you in the teeth of that wind. Help yourself. There s a plenty more "Is it going over the bay the night that yourself Donald shook his head. "I had thought of it," he owned, "but it looks a wee like a storm, and my
sleigh is at the blacksmith's to be shod. If 1 went, it must be on Black Dan's back, and hed like a canter over the ice in a snow-storm as little as I. His own
fireside is by far the best place for a man to be tonight, Campbell.
Neil nodded drowsily. His potations. after his
long, cold drive, were beginning to have their Dong, cold Donald, Donald, with la lighter in his deep-set eyes, watched
his friend, and persuaded him a gain and again to have yet another "'tasting." When Neil's head at last fell heavily on his arm, Donald arose with the smile of a man who has won in a doubtiul game. Neil Camp
bell was sound asleep, and would remain so for some time. How long? was the question. It might be for half an hour's start would be enough. For the rest, it would depend on Nancy. But there was no time to lose. pulled his fur ap on hirmly stout homespun overcoat a knitted muffler of hand-spun yarn around hris neck Then he caught his mits and riding-whip from the a parting glance at the reclining figure of his unconman," he laughed, soffly., "As for the waking, 'twill
be betwixt you and me," With an amsed smile, he untied Neil's horse, climbed into Neil's sleigh, and tucked Neil's buffalo-robe comfortably around him. "When he wakes, Black Dan will carry him as well as he would have carried me," thought the schemer;
"but if the snow comes after sunset it's little we'll see of either over the bay to-1night. Now, Bess. old
girl, do your bonniest. There's more than you know girl, do your bonniest. There's more than you know soon, Black Dan could show you a pair of clean heels for all of your good start. On, my girl!
sprang forward over the ice like a deer. The sun was nearing its setting. The gleaming white expanse of the bay, gemmed here and there with wooded,
purple islets, and rimmed in by dark violet coasts, glittered like the breast of a fair woman decked with jewels. Above, the curdled gray rolls of cloud flushed faintly. pink, but the north and east were gray with
Donald thought of none of these things, nor of the rare spiritual beauty of the wastes about him.
As he urged Brown Bess forward. with now and then a glance behind to see if Black Dan were yet follow-
ing, he thought only of what he should say to Noncy ing. le thought only of what he should say to Nancy
Sherman, and of what her answer would be. Sherman, and of what her answer would be.
The Shermans were a family of Unite
Loyalists who had come to Canada at the Empire Loyalists who had cone to Canada at the close of
the American War of Independence. They never
spoke of their former fortunes, but it spoke of their former fortunes, but it was the general
opinion that they had once been wealthy. However that might be, they were poor enough now, and life
was even a harder struggle for them than the Scotch immigrants who had already obtained footing on the Canadian soil.
out into young womanhood they were they blossomed for their beauty, and lovers from the best and famed iest of the colonial families came a-wooing to the little cotchag on the bay-shore, and thought themselves the "beautiful Sherman girls." Beautiful and stately they were, indeed, with a grace and charm of manner that triumphed over mean attire and rough surroundings. A hundred years ago Nancy and Betty Sherman, on a hill th rence Gulf, had the pick of five counties to their hands Englishe of the blue-eyed, fresh-faced Scotch and English lassies. the Jeans and Kates and Margarets,
could for a moment compare with them. They were envied bitterly enough, no doubt, and caused many a long-forgotten heartache. Yet the fault was not theirs offere made no effort to win or retain the homage favors received. A kindly word or a gracious smile was all that any ever won, and was esteemed enough. Even Donald Fraser could but "own to himself that. Aancy was as likely to say "no" as "yes." She had
said it calmly and sweetly to better mien. Well, he would face the question bravely-and if he were re-
fused- iNeil will have the laugh on me then. Sure. and he's sleeping well. And the snow is coming soon. There 11 be a bonny swirl on the bay ere long. I hope no harm will come to the lad if he starts to cross.
When he wakes he'll be in such a fine Highland temper that he'll never stop to think of danger. Well, Bess, iny girl, here we are at last. Now, Donald
Fraser, pluck up heart, and play the man Remember yraser, pluck up heart, and play the man. Remember boot, and never finch because a slip of a lass looks scornful at you out of the bonniest dark blue eyes on earth.'

In spite of his bold words, however, Donald's hear yard. Nancy was there, milking a cow by the stabledoor, but she stood up when she saw him coming, grasping her pail with one hand, and holding the other
out to him in the gracious, untroubled way for which out to him in the gracious, untroubled way for which
she was noted. Haloed by the sunset light that was flinging its rosy splendors over all the wide white wastes around them, the girl was so beautitul that
Donald's courage failed lim alnost completely. Was it not the wildest presumption to hope that this exbe the mistress of his little house-she who was fit for a king's halls? In all the humility of a true lover he stood before her. and Nancy. looking into his bonny
face, understood with woinan's instinct why he had come. A color and light that was not of the sunset her hand from his grasp, but she turned her face aside and bent her head.

Donald knew that he must make the most of this unexpected chance. He might not see Nancy alone again before Neil came. Clasping both of his hands
over the slender one he held, he said, breathlessly, "Nan, lass, I love you. You may think 'tis a hasty wooing, but that's a story I can tell you later, maybe. could make a man worthy there d be none before me. Will you have me, Nan?"
Nancy's head in its crimson shawl drooped lower pense. Then he heard her answer-oh, such a low sweet answer-and he knew that she was won!
The snow was beginning to fall when they walked together to the house. Donald looked over the bay,
misty white in the gathering gloom, and laughed lightheartedly. "I must tell yout that story, iny lass," he said, catching Nancy's look of wonder. "and you'll see what a trick I played on my best friend to win you." And tell it he did, with such inimitable drollery and such emphasized brogue that Nancy could but laugh humor of
When morning broke, the storm was over, and Donald knew that vengeance must be on his track. Not wishing to make the Sherman house the scene of and he persuaded Nancy to drive with lim to the he brought Neil's sleigh up to the door, he saw a black speck far out on the bay, and laughed. "Black
Dan goes well, but he'll not be quick enough," he said, as he helped Nancy in
Half an hour later Neil Campbell, with a blackly bent brow and a fire in his blue eyes that was woe to see, dismounted from door, and strode into the kitchen. Had Donald Fraser been there the comedy might shortly have been turned into a tragedy, for there was blood-fury in Campbell's heart and eyes. But the wily rival was far away, and the kitchen was einpty. Neil stood and chafed at the door until Mrs. Sherman came down the rude stairs from the loft above. At sight of Campbell she started in surprise, for though many a wooer came to her house they did not usually come so early in the day, but
"Good-morning, Mr. Campbell. 'Tis a fair day, after the storm, but a cold. Come nearer to the fire," Neil felt his blind fury ebbing away before this ace, so little in leeping with the rude, low room, face, so little in keeping with the rude, low room. upon the person to whom she spoke. Neil could not bring himself to demand of her where Donald Fraser or Nancy was. Yet he must say something,

Betty the morning?
On being told that she had gone to the well for pail of water, he went out, vowing that he would

Betty Sherman saw him coming across
the snow, and stood up erectly beside the the snow, and stood up erectly beside the
well with a smile on her face. Her lips parted, and her breath fluttered over them
quickly. She put up her slender brown quickly. She put up her slender brown hands, and nervously caught the crimson fringes of her knitted shawl together under her chin, while into her eyes leaped
a strange light of fear and passion, and some undefined emotion that strove to as far other two.
As far as feature and bearing went, velously alike. Yet so different were they in coloring, and more than all, in expression, that thcy were scarcely held to resemble each other. The hair that lay in skeins of silken fairness on Nan-
cy's white forehead rippled off from Betty's in locks as richly brown as October mas. The misty purple of Nan's eyes be almost black; and while Nancy was oftener pale than, not, a dusky red always glowed in Betty's cheeks, and deepened to scarlet in the curves of a very sweet, pression, Nancy's was always gracious and charming, while Betty's was mocking and maddening.
Though Betty had many lovers, they sliarp and unsparing one, and she satirized them to their faces. Woe betide the rash youth with a squint or a stutter who came courting Betty Sherman! And even those who had no defect of person or manner fared little better. Yet come girl that held a man though she treated him as the dust under her feet.
When Neil Campbell had first come to the cottage on the bay-shore it had been Betty whom he came to see. In
those days he had thought Nan by far those gays he had thought Nan by far
the less bonny. But Betty, always cruel to her suitors, was doubly so to Neil.
She mimicked his Highland accent mocked at his Highland ways, and laughed at his shyness as "Highland pride. Neinful the scornful maid to her own devices, and was gradually drawn into the train of Nancy's lovers, soon to become the most devoted of them. Thenceforth Betty had treated him with unvarying indifference, although generally she was as merciless to Nancy's lovers as to her own. Neil
felt that his humiliation would be doubly bitter from Betty's probable railing, but in his passionate anger-an anger that
quite overmastered the sting of baffled quite overmastered the sting of baffled "Good-morning, Mr. Campbell," said Betty's silver-clear voice as he came up on Black Dan, no less! Was I mistaken in thinking that Donald Fraser said that his favorite horse should never be backed
by any man but him? But doubtless a fair exchange is no robbery, and Brown Bess goes well and fleetly
thickly. "It is nim I Fraser?" said Neil, is. him I will be finding. Where is he,
Betty Seeking, and it
, Betty Sherman?"
"Donald Fraser is far enough away by this," said Betty, lightly. "He is a prudent fellow, that Donald, and has
some quickness of wit under that sandy some quickness of wit under that sandy
thatch of his. He came here last night at sunset with a horse and sleigh not his own or lately gotten, and he asked Nan in the stable-yard to marry him. Did a
man ask me to marry him while I was at the cow's side with my milking-pail in my hand, 'tis a cold answer hed get
for his pains. But Nan was ever o'erfond of Donald, and 'tis kindly she must have answered him, for they sat late together last night, and 'twas a bonny story that Nan wakened me to hear when she
came to bed-the story of a braw lover came to bed-the story of a braw lover
who let his secret out when the whisky was abune the wit, and then fell asleep while his rival was away to woo and win Mr. Campbell?
Neil clenched his fists. "Oh, yes," he said, fercely, it is laughing at me over
the country-side that Donald Fraser will the country-side that Donald Fraser will when I meet him it is not laughing he another story to tell!
ty, in al will you do to him?" cried Bet man. Now, what a state meddle with the a slip of a good-looking lass because sandy hair and gray eyes to Highland black and blue! You have not the spirit of a wren, Neil Campbell. Were I you,
I would show Donald Fraser that I could I would show Donald Fraser that I could woo and win a maid as speedily as any
Lowlander of them all, that would I! Lowlander of them all, ly for your asking. I know one myself as bonny as Nan if folks say true, who
would think herself a proud and happy woman if you looked kindly on her, and would love you as well as Nan loves her Donald-aye, and ten times better!" Betty's face went crimson, and her eyes faltered down to the pail at her feet.
"And who may it be, Betty?" asked

Betty did not answer in words. She on Neil's shoulder, with her head still drooping, but looking up at him with her eyes, and an expression, half defiant, half yielding, wholly captivating, that an swered as plainly as words.

Neil took the two cold hands in his. "I this be so, lass," he said, gently, "why did
your, mock at me so when I came first?" "What simpletons men are," pouted Betty. "Why, 'twas because I liked you Betty. "Why, to be sure!"
Then she suddenly sprang away from him with flushing cheeks and clouded eyes. "Oh, what must you think of me?" she cried. "Bold-mmmaidenly-that is what you will call me, and truly. But you so long! 'What,' thought I, to lose all for want of one little bold word! 'Twas hard to speak, but I have spoken it and now you will despise me.
She clasped her hands, and stood meekly before him with her face hang-
ing on her breast. Neil came nearer ing on her breast. Neil came nearer,
Thank you for that word," he said,
simply. "Betty, it was you that I liked simply. "Betty, it was you that I liked is a good husband I will try to make you, and a proud and happy man I'll be.
Betty looked up at him with eyes where tenderness and mischief were mingled. "Then maybe Donald Fraser will not do so much laughing, after all," slic said. this. When Nan comes back I'll say to Neil Nan, is Donald so very sure that Neil Campbell said your name when he
told of his errand? 'Tis a mistake your Lowlander has made, sister.' And then ing will tell her how you came this morning and asked me to marry you, though But I'll not tell her that."

NOT ON THE PROGRAM
The elder Wallack once played in a romantic drama in which, after taking an leaped on a horse which stood just in the leaped on a horse which stood just in the
wings. and dashed across the stage. Wallack objccted to this nightly gallop, and it was therefore arranged that one of the supers, who closely resembled the actor, should make the ride. He was and sent to rehearse. He carried off his part well, and the stage-manager, satisfied with his performance, departed.
But the super was not satisfied, and complained to a young member of the "Wmpany who happened to be prescnt. too dead easy. A man with a wooden leg could do it with his eyes shut. I used to be in a circus. Couldn't I stand up, on this here equine and do a few stunts?" "Certainly." exclaimed the oth
would be all right. Go ahead" "You think the old party wouldn"t object?" said the super, doubtfully. "Object!" returned the player; "Why, he'd be tickled to death. Do it." That evening when the critical point was reached, Wallack was gratified to see his counterpart standing ready beside the horse.
the Love, good-night-good-night," cried the hero, preparing to drop over the
edge of the balcony. round !" cried the heroine, clinging round , his neck. "You ride perhaps to "Nay, sweet, say not so; I ride to heart, no harm can come! Good-night-good-night!'
He tore himself from her frantic embrace, and dropped out of sight of the audience. "Go!" he hissed to the man.
As the horse leaped forward on to the stage, the fellow gave a mighty vault, and
alighted standing on it back ap onghted standing on it back. He threw up one foot gracefully, and danced easily on the other, and just before it was too sault, landed on the horse's back, and bounded lightly to the stage. It is recorded that the audience apmarks are, unfortunately, lost.-Harper's.

SLEEP
Weep ye no more, sad fountains! What need you flow so fast? Look how the snowy mountains
Heaven's sun doth gently waste Heaven's sun doth gently was
But my sun's heavenly eyes
But my sun's heavenly eyes
View not your weeping, View not your weeping, That now lies sleeping

Sleeping.

## Sleep is a reconciling-

 Doth not the sun rise smiling When fair at even he sets? Rest you, then, rest, sad eyesMelt not in weeping, While she lies sleepingSoftly, now softly lies
Sleeping

## NEW PREMIUMS

## Boys' and Girls' New Plan

Do You Want to Get These Premiums Free?

Send us your name and address on a postal-card to-day, and ask for the number of coupon-receipts required to get the premium, and we will send you by return mail complete outfit free. Sell the coupons at 35 cents each, who bought the coupons from you, and we will forward the premium. Full instructions sent with your outfit, so you can't make a mistake. If you can't sell all the coupons, or enough to get the premium, we pay you cash for what you do sell. That's fair. Write to-day

## Daisy Printing=Press

A COMPLETE OUTFIT

This is one of the most useful and interesting and practical premiums for boys that
we have ever offered. Any boy can learn to set type and print on this press. It is a
source of pleasure as well as being in-


This Complete PrintingoPress given free and sent post=paid for selling only SEVEN coupons at 35 cents each

## New Chain=Knife



This is no cheap knife, but one that is guaranteed by the manufacturer to be as
represented in every particular. Good steel, finely tempered blades, good solid handles nicely trimmed. THE CHAIN is finely polished, and has twisted links. It fastens to
the belt or suspenders, and the knife can't be lost. It is the knife for boys, and the the belt or suspenders, and the knife can't be lost. It is the knife for boys, and the
latest thing out. Order as No. 495 . This elegant Chain=Knife given free and sent post=paid for selling only
THREE coupons at 35 cents each.

## New Picture=Machine



FUN, ENTERTAINMENT, DELIGHT FOR ALL
Sixty Pictures FREE
This magic-lantern outfit has
been proved to be one of the most
popular premiuns ever offered. This popular premiunsever offered. . his
maclinis is is inches sligh, finished
in black, blue and nickel, and fitted in black, blue and nickel, and itted which are fastened three round
slides and six long slides, making slides and six long slides, making
in all about 60 different pictures in all about 60 different pictures
that can be reproduced. Full di-
rections for carefully nachine. Sent by express at re-
ceiver's expense. Order as No. 494.

This fine Picture=Machine given free for selling EIGHT
coupons at 35 cents each. coupons at 35 cents each.

The Laughing=Camera
the best novelty ever invented


SEE THE PASSING SHOW
Your friends, grotesquely photographed; stout
people Iook thin; thin people look stout. For people fook thin; thin people look stout. For
years the funniest attraction in every museum the
world over have been the convee mirrors. Everyyoars over have been the convex mirrors. Every-
bordy has found amusement in contemplating his
own personality in a long-drawn-out or a shortown personality in a long-drawn-out or a short-
and fat aspect.
The Laughing Camera furnishes all this The Laughing-Camera furnishes all this
amusement, and more! By getting a focus on
passing pedestrians, horses, wagous, cars, etc.,
the passing pedestrians, horses, wagons, cars, etc.,
the most grotesque and ludicrous pictures are
witnessed. The passer-by takes on the swing
and witnessed. The passer-by takes on the swing
and stride of a dady-logg-legs, horses look
like girafees, and altogether there is more gen-
uine hearty fun crowded into the four cubic
ine uine hearty fun crowded into the four cubic
inches of this little instrument than ould be
inche Each packed in a neat box. Order as No. 493 . We will send the Laughing - Camera, and the FARM AND FIRESIDE one year, post=paid, for only 40 cents
The Laughing= Camera given free and sent post=paid to a Club=Raiser
for only ONE NEW yearly subscription to the FARM AND FIRESIDE at for only ONE. NEW yearly subscription to the FARM AND FIRESIDE at
the clubbing price of 35 cents. (Don't ask for coupon,) the clubbing price of 35 cents. (Don't ask for coupon.)

Address FARM AND FIRESIDE, Springfield, Ohio

## Consumption Can Be Cured

Marvelous Discovery by the Famons Dr
Yonkerman, of Kalamazoo, Mich.-State Yonkerman, of Kalamazoo, Mich.- State
Officials and Great Medical Men Pronounce it the only Cure for Con-
sumption and All Throat sumption and All Throa
and Inng Troubles

Consumptives Given up to Die and Sen Back from California Hopeless and Helpless are Now Alive and W Cure for Consumption

A Free Package, Containing Sufficient to Con-
Consumption can at last be cured. Marvelous as it may seem after the many failures, a
sure, positive and certain cure for the deadly


DR. D. P. FONKERMAN, the Discoverer of Tuberculozsne, the Only Cure for Consumption
consumption has at last been discovered by Dr. Derk P. Yonkerman, a great Michigan
doctor, who has-made a life-study of this fatal doctor, who has made a life-study of this fatal
disease. His wonderful remedy has been fully tested and rigidly proven a sure cure by state officials, and noted medical men all over the
world testify to its power to kill the dread world testify to its power to kill the dread
germ that causes consuinption. The doctor germ that causes consuinption. The doctor derful cure, believing that the people are entitled to such a production of science, and ringing jeng free treatment alo certain rescue from this awful fatal disease. Such eminent scientists as Koch, Luton, Pasteur and all the great medical andgermspecialists and chemists have already repeatedly declared that the consumptive germ cannot live a minute in the
presence of the ingredients of this wonderful presence of the ingredients of this wonderful
remedy that has already revolutionized the treatinent of consumption and has taken it from the catalogue of deadly, fatal diseases packages and letters from grateful peoplejaws of death-are sent free to all who write to Dr. Derk P. Yonkerman, 2964 Shakespeare wants every consumptive sufferer on the face of the earth to have this marvelous and only genuine cure for consumption. Write to-day. It is a sure cure, and the free trial package sent
you will do you more good than all the medicines, cod-liver oils, stimulants or changes of
climate, and it will convince you that at last there has been discovered the true cure for consumption. Don't delay-there is not an hour lung trouble. Send to day for free package.

## Wit and Humor

## SEVEN AGES OF GRAFT

All the world is graft,
the men and women merely They have their
They have their sure things and their And one man in his time works many grafts,
His bluffs being seven ages. At first the Conning his dad until he walks the floor: And then the whining school-boy, poring Jollying his teacher into marking him A goodly grade. And then the lover
Making each maiden think that she Making each maiden think that she Is but the only one. And then the soldier Fill of strange words and bearded like a Seeking the zubble reputation, Even in the magazines. And then the Handing out the bull con to the bench And jollying the jury till it thinks To lean and slippered With spectacles on nose-his is For he is then the old inhabitant, And all must hear him talk. Last scene That ends this strange, eventful history Is second childishness and mere oblivion, Sans graft, sans pull, sans cinch, sans everything. -Chicago Tribune.
A VILLAGER'S COMPOSITION ON THE HEIFER

OTHOU gentle heifer, daughter of thy mother and despoiler of our choicest garden-truck, thou bringest grief to our hearts, and bluejohn to our coffee. We hail thee with a fence-board and things like that. Thou
goest forth in the night and seeketh the goest forth in the night and seeketh the open gate. Thou wanderest in by and ber. Thou smelleth of the blushing beets ber. Thou smelleth of the blushing beets and trampeth on the lettuce. Moreover, drinkest thereof The ran, neither the woman, wottest not of thy goings or thy woman, wottest not of thy goings or thy
comings. Thou spiest out the onion-bed, and lieth down thereon while thou chewest the cud like a summer girl. Bimeby thou liftest up thy voice and bawleth. Then trouble suddenly o'ertaketh thee The man riseth up in anger and a balbriggan suit. He hiketh out and setteth up an old hoe-handle and smiteth thee sore on thy porter-house. 'Tis then thou histeth thy tail and getteth thee out. Thou scootest up a darksome alley and maketh thy getaway. The man seeketh after and desireth thy post-office address, but
findeth it not. Tis well. Hadst he disfindeth it not. 'Tis well. Hadst he discovered thy abiding-place he wouldst
have chewed the rag with inhabitants have chewed the rag with inhabitants
thereof, and gone home with his nose thereof, and gone home with his nose -Field and Farm.

## LOOKING FOR FLAWS

Charles Lamb tells of a chronic grumbler who always complained at whist beartifice his companions managed to deal him the entire thirteen, hoping to extract some expression of satisfaction, but he only looked more wretched than before. "Well, Tom," said Lamb, "haven't you trumps enough?"
"Yes." grunted T m, "but I've no other
This chronic grumbler of Lamb's is found in endless variety. Perhaps the most numerous of the species is represented by the man who is always looking
for flaws-one of those blue-spectacled for flaws-one of those blue-spectacled people who see nothing but mud when
they look on the ground and only clouds they look on the ground and only clouds
when they look at the sky. One of those when they look at the sky. One of those
gentlemen was once asked to look at the sun through a powerful telescope and describe what he saw.
"Why," he said, after a few moment's study, "I see nothing but a few black

## AGE BEFORE BEAUTY

"Yes," said the old man, addressing his young visitor," 1 am proud of my girls, married: and as I have a little money they will not as I have a hittle money, less. There's Mary, twenty-five years old and a real good girl. I shall years old. five thousand dollars when she marries. Then comes Bet, who won't see thirtyfand dollars, and the man the tho Eliza, who is forty, will have fifteen thoul Eliza, who is forty, will have fifteen thoulThe young man ref
so, and then man reffected a moment or about fifty, have you?" -The Mystic Tie.

## TO KEEP HEALTHY

Drink water, and get typhoid. Drink and get get tuberculosis. Drink whisky. Bright's disease. Eat meat, and encourage apoplexy. Eat oysters, and acquire taxemia. Eat vegetables, and weaken the system. Eat dessert, and take to paresis. Smoke cigarettes, and die early. Smoke cigars, and get catarrl. Drink coffee, and obtain nervous prostration. Drink winc, and get the gout. In order to be entirely healthy one must eat nothing. drink nothing. sunoke nothing, and even before breathing one should see that the air is sterilized.-South-Wcstern World.


Tom-"My brother took part in that guessing--Theresa-"How is he a professional?"
Thent

## HARD ON MR. PHILLIPS

Wendell Phillips was in a hotel at Charleston, had breakfast in his room, and was served by a slave. Mr. Phillips spoke to him as an abolitionist. but the other seemed to be more concerned about The breakfast than about himself. Finally Mr. Phillips told him to go away, saying he could not bear to be waited upon by a slave. The other remonstrated, "Scuse me, massa, but Ise 'cause Ise 'sponsible fo' de silverware,"Western Christian Advocate.
G. Washington was encamped at Val "The Forge is all right," said the faith ul soldiers, "but where is the black smith?"
ent know, exclaimed the irate General, that he is under the spreading Perceiving that they had a sagacious leader, they resumed hammering the British.-New York Sun.

## BALAAM WAS AN IRISHMAN

Matthew J. Donohue, a Tammany-district leader, tells the following story of an Englishman and an Irishman who ere discussing the old race question: "Whin Engla-and wants a railly good man, she's got to go to Ireland to git lim," said the Irishman. "Look at Roberts. Look at Kitchener. Both "I suppose you think Wellington was han Irishman," said the Englishman.
"Hand Nelson."
"I guess you'd claim Cæsar if you 'ad a chance." All good fightin' min are "Shure. "Well", said the Englishman, as a
clincher, "to go back further, w'at would clincher, "to go back further, w'at would you do with Balaam?
"Oh, thot's all r-right," retorted the Irishman. "Balaam wa-as Irish, but th"

## HIS LUCKY STRIKE

"How did Biggleson happen to strike it so rich?"
"That wasn't the way it happened. The striking was done by the other thing. I anderstand he got ten thousand dollars mobile that hit him because every member of the jury happened to have been hurt in some way by a puff-wagon himself." -Record-Herald a puff-wagon him-

## A FISH STORY

"Just throw me half a dozen of your biggest trout," said the man with the costly angler's outfit. "Throw'
"That's what I said" of the first part. "Then I'll go home and ell my wife I caught them. I may be a poor fisherman, but I'm no liar."-Chi-

## ONE

Nugent-"I think I'll cultivate her acquaintance. Worth a quarter of a million in reai estate,
Olgent-"You'll think there is when your get acquainted with her little toryou get acquainted with her hittle to


## TRADITIONS RECTIFIED

King Arthur had established the Round Table.
"Just to have the knights take pot-luck ith me," he explained, glibly.
Later, however, Guinevere was disturbed by finding some red, white and blue chips in the royal pocket.
William Tell had just shot
from his son's head shot the apple from his son's head.
It was green." he explained, nervously, "and I had to do something quick
before the boy ate it."
Subsequently a more artistic version was given to the newspapers, but truth, crushed to earth, will rise again.

## THE MAIN OBJECTION

Poet-"Tell me frankly what are your objections to my poetry. Perhaps I can emedy the trouble.
Editor (blandly) -"Perhaps you canperhaps you can. Well, my main objec-
tion is that it keeps coming. Fix that for ine and I'll waive the others."-Kansas City Journal.

## A DELICATE SUBJECT

Madge-_" Miss Autumn's name was printed in th
Marjorie-"Of course not. That girl's age is unfit for publication."-Life.

# Get Rich Growing Ginseng 

Read this Editorial from "The Saturday Evening Post," the conservative Philadelphia publication, issue of August 22, 1903, telling of the enormous profits of Ginseng:

There are a few peopıe in the United States now making fortunes for themselves by growing Ginseng.
There will be a great many people of enough shrewdness and enterprise to acquire riches from Ginseng gardens in the next few years. Whether you will be one of them or not depends upon you alone. It is the most profitable business known.
Ginseng root brings from $\$ 6$ to $\$ 10$ per pound in American markets. Seedśs and young plants bring splendid profits from American growers. A Missouri man sold $\$ 25,000$ worth from one half acre one year, being the accumulation of marketable roots, seeds and young plants for several years.
If you sell your harvest of seeds and young plants each year, instead of replanting and enlarging your own patch, a \$1o or \$25 garden will pay you a handsome profit annually, beginning with the first year. Requires little more care than a turnip patch.

We sell stratified seeds and cultivated plants. Our copyrighted directions, fully covering every point of cultivation, sent free with each order. We guarantee safe delivery and prepay express.

If you will send two two $=$ cent stamps to help pay postage, we will mail you immediately our 55 =page book telling all about the enormous, easily earned profit in this wonderful plant, Ginseng, which has been marketed from its wild state for 175 years; cultivation in the United States just begin= ning; also copy of the current issue of our magazine, "The Ginseng Garden.'

Remember that Ginseng must be planted in the fall. Now is the time to buy seeds and young plants.

## GINSIENG FARMING

## Little Gardens That Pas Bige Dividends

U
NDER scientific cultivation some unique discoveries have been made in regard to ginseng. In the wild state, as is well known, ginseng roots, struggling in hard soil or against rocks and other impediments, assume curious shapes, many of them closely resembling the hum
the Chinese word jenshen,
and it has been supposed by many people, even including some of the ginseng gatherers and dealers in America, that the Clinese de mand for the root was based on the fancy that the development of the rcots in the similitude of man was nature's indication that they are intended to minister to ailing humanity.
Recent discovery that the plant under cu tivation frequently produces straight roots bearing no 1ikeness to the humani body, and quality than the native kind, are bringing quality than the Chative kind, are in China, have awakened a new inquiry into the secret of the Chinese people's eagerness to possess the plank

It is quite "probable," said a scientist in Washington, "that-we shall discover in gin seng some remarkable element which has hitherto been unknown to occidental science and Japanese who are shrewd mell, and in many ways deeply learned in the mysterie any ways deeply learned in the mysterie continue to use as one of their most highly prized therapeutic and prophylactic agents plant totally without medicinal virtue. From he humblest citizen up through all the grades fociety, including men of the profoundes eastern scholarship, high officials and emperors, the inhabitants of China for ages hav had unlimited faith in the poiver of ginsen o prevent and cure many of the ills of the body."
Thes far, scientific inquiry into the secret of ginseng has been a baffling study in chemistry. European chemists a few years ago that had made it for ages so highly prized b Asiatic nations. These scientists reported hat their reactions failed to show that gil seng had the slightest medicinal value More recently official chemists in Americ examined ginseng roots and found that the contain about 5 per cent. of nitrogen, .80 pe cent. of lime, 50 per cent of phosphoric acid 70 per cent. of potash, the remainder being fore confessed their inability to understand why the Chinese should place such valu pon it, eagerly buying it at ten dollars th pound, and giving for some of its distillations far more than their weight in gold.
As a result of these scientific decisions against ginseng as a medicine, new support was given the theory that the popularity of the roots in China was due to the superstition that their resemblance to the human form was the secret of their supposed power to cure. Celestial Empire strange reference in regard to ginseng was found. It was fearned that o ginseng was found. It was learned tha man living at Shangtang during the reign o Wen Ti , Emperor of the Siu dynasty, who used to hear a voice at night calling. to him rom the field. For years, according to the legend, these mysterious salutations were repeated, but no explanation of their origin could be found until one day there was dug up, six hundred feet from the man's home, a huge ginseng plant that closely resembled a and all who drank of a tea brewed from the roots of that ginseng plant lived without pain to a patriarchal age. In further explanation of the ready Chinese market for ginseng, proof might be had, it was said, that in the contemporaneous thought of Clina is the conviction that nothing save starvation can overcome a man stimulated with ginseng essence. it was even claimed that the more these roots they commanded
But all ingenions explanations of the value of ginseng in China are now in need of revimade this year that cultivated roots, many of
them bearing no resemblance to huinall forms, are selling at a higher rate in China than has ever before been obtained for the wild roots. In the presence of this curious fact, Anlerican scientists have brought 10 light the circum
stance that among the chemists who stance that among the chemists who examinled
ginseng there was one who discovered in the ginseng there was one who discovered in the
root an entirely new substance, the nature and value of which he was unable to determine. The name panaquilon was proposed for this element.
At present, in medical dictionaries in the
United States, ginseng is defined as "little United States, ginseng is defined as "little more than a demulcent." Now that recen experiments show that the Chinese are buying serious inquiry is to be their shapes, more serious inquiry is to be made into possible vious analyses.
So alluring have been the promises of profit in ginseng farming that the subject has been taken up by official agriculturists in various parts of the United States. Many of the dis coveries made will be very valuable to
farmers who contemplate embarking in the farmers who cont
ginseng industry.

## ginseng industry.

As a result of the tests it is officially announced that, if all preparatory conditions b faithfully complied with, the gross returns growth may exceed $\$ 24,000$. Deducting $\$ 9000$-which includes the original payment made for the plants, the amount expended on materials for constructing artificial shade and the cost of labor in planting, cultivating and harvesting - the net profit in five years from one acre is placed at over $\$ 15,000$, or $\$ 3000$ per annum. On this basis a farm of the regulation size, 160 acres, would, if planted to ginseng, yield a net annual income of $\$ 480$,
ooo, provided the market price of the roots should remain as at present. It is pointed should remain as at present. It is pointed
out that though extensive cultivation would out that though extensive cultivation would it in China is constantly increasing. Nearly $\$ 30,000,000$ worth of the plant has been ex ported thus far from the United States and the native supply is being rapidly exhausted. Moreover, the plant in China lias been virtually exterminated, and the few districts in which it is still found have been set apart as Emperor's private reserves.
The inducements, therefore, to embark in ginsellg cultivation, the best roots of which nuw readily bring from six to eight dollars the pound in Anlerica, are very great. Emphasis
should be laid on the inuportance of first gaining a thorough knowledge of the plant's needs for some of its habits of growth are anomalous.
In the first place, the strange and important fact has been demonstrated that ginseng seed, although fully, normally matured, will no germinate until eighteen months have elapse from the time of larvest, and that it will no germinate at all, even after eighteen months, if it is allowed at any time to become dry. During all this period it must be preserved by stratification with woods soil, moist and
finely sifted. Moreover, the soil selected fo planting must be perfectly adapted to th plant, a proper amount of shade must be pro vided, and other essential preliminaries looked into with painstaking care. It has been discovered through official channels tha some individual experimenters throughou dige country liave failed to realize the pro digious sums possible in ginseng cultivation
simply because they were not equipped with simply because they. were not equipped with proper knowledge of the plant's pecularities. Scientiac tests at experimental stations in
several States have been so satisfactory that the officials have no hesitancy in saying that, under proper care, the returns from ginseng farming may equal if not exceed the nost that has been said for it.
Experiments showed that in cultivated plants there was a loss of only i4 per cent. while the loss in the ginseng routs trans planted was 48 per cent.
The roots were planted eight inclies apart were made in the ground to enable the tuberous roots to expand. This was an importan factor in multiplying the yield of the crop.

As "The Saturday Evening Post" states, the roots of an acre of five-year-old Ginseng are worth $\$ 24,000$, In addition to this, the same plants will have yielded 500 pounds of seed; at $\$ 50$ per pound, one half the present market price, theseed would bring an additiona: $\$ 24,000$

A \$10 to $\$ 25$ garden will pay you a dividend the first year; in five years time its annual yield will have ag gregated thousands of dol lars.
You can start a Ginseng garden for from $\$ 5$ up. Our assortments include plants two and three years old that are already seed-bearers.
We have cultivated Ginseng ourselves for years, and give full instructions with all orders.
It is a very certain crop. It is an absolute staple, like cotton, wheat and iron, and, like them, is regularly quoted in the world's markets. It has unlimited market alreadyestablished; the price is advancing steadily, and the supply is rapidly failing-it will take years to even check the annual deficit. It is not perishable, and may be held in store for an indefinite time. The land needed for its cultivation is so very little that even a restricted city lot will hold a bed yielding hundreds of dollars annually.
All plants and seeds purchased of us will be delivered to any address free of charge. Every order is personally inspected by our botanist. Our copyrighted directions, fully covering every point, are sent free with each order

Autumn is the time to set out plants, and sow the seed, and as our stock for sale is limited and the demand strong it is advis= able to place orders at once. We reserve the right to decline all orders after the stock for sale has been engaged.
Remember our offer to mail you immediately our 55-page book telling all about the enor= mous, easily earned profit in this wonderful plant, Ginseng, also copy of the current issue of our magazine, "The Ginseng Garden," for two 2 =cent stamps to help pay postage.

## 3 Books FREE

We will send any THREE of the books listed below (order by number), and the Farm and Fireside one year, to any address for only 40 cents.

In order to introduce the Farm and Fireside quickly into thousands of new homes, and being able to buy at a great bargain a large quantity of these interesting books by

## World=Famous Authors

we offer them to Farm and Fireside readers at LESS THAN POSTAGE. The only condition is that you order at once, and call the attention of your friends to this

## WONDERFUL BOOK BARGAIN

The list contains the best works of the most popular novelists and writers of merit, and the books are bound in neat and attractive style, and have from 150 to 200 pages, full size, and large, plain print. Standard books.

"A Study in Scarlet," by A. Conan Doyle, is one of the cleverest stories ever hritten. The reader of this book cannot help but be edified and mystified at the same the. The principal character in the story surprises you with the easy man-
ner in which he arrives at his conclusions, which from the point of a detective are Which from the point of a detective are
nearly alwars correct. You see clearly nearly always correct. You see clearly
how he works and deduces his truthssometimes like a flash they come to him other more serious cases requiring his time. It is nothing more nor less than his extensive and practical knowledge; of human nature put to work.
"A Case of Identity," another story by the same author, is no less interesting and fascinating, and is a good, clean story somewhat different from "A Study in Sca let," but just as good.

Rudyard Kipling's writings and 'books are world-famous. Thyy are known and
read throughout the length and breadth of the land. Wie have included in the list below some of his most clever novels. "In Black and White" is a charming story, and en tirely different from the every-day, humdrum novel. It is unique, full of characters rare and strange, proverbs that are rare, and better known in India than anywhere sparkling and it is just that sort of story sparking, and it is just that sort os stors delights, the reader from start to finish. The other stories by Kipling in the list are some of his best-known, most fascinating books.


Edgar Allen Poe was the most brilliant of early American writers. Poe is best that he was greater as a writer of stories. His imagination was exceptionally porous was very strong, and his skill in producing somber and uncanny effects was extraordinary: "The Purloined Letter" is considered by many to be a remarkable story; and exciting, weird and fascinating -the kind of which you come to the end all
too soon and unknowingly: "The Woond unknowingly: Haggard, is one of the best-known and nost widely read novels of the day. The most widely read novels of the day. The that we have secured at an exceedingly low price, but they are all interesting and given to you at less than postage


X25 My Hushand and $1 \ldots$ Mo..........Leon Tolstoi X25 My Hushand and 1................ Leon Tolstoi
$\times 26$ Murders in the Rne Morgue...Edgar Allen Poe
$\times 27$ On Her Wedding Morn............. Mi. Braeme 27 On Her Wedding Morn............... M. Breme
25
Panul and Virginis Paul and Virginia ...................Saint Pierre
Princo or Peasatit..........iax Nordau Prince or Peasaat...............Max Nordau
Purloined Letter, Mbe..........dgar Ailen Por
Ragged Edge Rambles.......Dr. M. L. Brm Representative Men $\ldots \ldots \ldots$........... Emerso She's Ail the World to Me............................ Bll Caine She's All the Worid to Me........... Hall Cain
Sow Image, The......Nathaniel Hawthori Sport Royal. ................Anthony Hope
Story of the Weding Rigg. The... . . . . Braen1
Study in Scarlet, A............ Conan Dovt Sweet in True Love. Talisman, The ..........
Thaoksgiving Party, The 42 Three Wisis Men of Gothan
13
$\qquad$
44 Hee Willie मinkie
Woman Aganst Won Xit 6 Wonder Book for Girls and Boys.
Mit World's Desire The x47 World's Desire. The
x 48 Young Gide Hagrard and Andrew Lang Brown..Nathaniel Hawthorne


FREE Any one of these books piven for semidig oniy ONE yearly subscription to the FARM AND FIRESIDE

## 40-Cent Patterns for 10 Cents

or from 25 to 40 cents each, but in order to in- give BUST measure in inches. For SKIRT patter crease the demand for our paper among strangers, give WAIST measure in inches. For misses, boys, and to make it more valuable than ever to our old
friends, we offer them to the lady readers of our paper for the low price of only 10 Cents Each. Full descriptions and directions-as the number of yards of material required, the number and names of the different pieces in the pattern, how to cut and
fit and put the garment together-are sent with ancl pattern, zith a picture of the garment to go by, inches and aren, give both BREAST measure in numbers.
Satisfaction guaranteed or money refunded. To get BUST and BREAST measure, put the pattern, with a pictuce of the garment to go by. Special price of each pattera 10 cents.

ERER We will give any TWO of these patterns for sending ONE yearly subscription, Or we will send the Farm and Fireside One 011 y 35 Cents
Year, new or renewal, and any ONE pattern for Address FARM AND FIRESIDE, Springfield, Ohio


## Prize Puzzles

We Want to be Neighborly, and so Invite All of Our Readers to Use Our Grindstone. It Will Sharpen Your Wits, Quicken the Intellect, Afford Healthful Recreation,
and Give Innocent Amusement and Entertainment
Residents of Springfield, Ohio, are not allowed to enter the contests.

## THE INSECT PUZZLE

Here are Six Pictures, Each Representing the Name of an Insect. Can You Guess Them?

We Offer This Issue, Instead of the Usual Cash Prizes, a Beautifully Bound Copy of Hallie Erminie Rives' Book, Entitled "Hearts Courageous." Book Should be of Interest to Every American. It is a Tale of Old Virginia Just Previous to and During the Revolution. George Washington, Patrick Henry and Other Famous Men of that Day are Among the Prominent Characters. A Beautiful Love.Story Adds Charm and Interest to the Narrative. A Copy of "Hearts Courageous" Will be Given to the First Man, Woman, Boy and Girl Who Sends in a Correct List of Answers to the Puzzle Pictures Given Below

## ALSO A PRIZE FOR EACH STATE AND TERRITORY

As further rewards for our great family of readers, a copy of either Dickens' "Oliver Twist," Cooper's "Pathfinder" or Eliot's "Adam Bede" will be given for the first correct list of book for each of the forty-five states; one for each territory one for the District of Columbia, also one for Canada. The first correct list from each state wins a book, giving an equal
opportunity to all our readers wherever they may be located In the states where the copies of "Hearts Courageous' are awarded, one of the other books will be given to the
person sending the second correct list, so that in no case wil any one person receive two books. Answers must be ad dressed to the "Puzzle Editor," Farm and Fireside, Springfield, Ohio, and should be received not later than October ist


ONE


FOUR

ANSWERS TO PUZZLES OF AUGUST 15th ISSUE The Six Geometrical Figures

$$
\begin{aligned}
& \text { I-Square. } \\
& \text { 2-Polygon. } \\
& \text { 3-Triangle. }
\end{aligned}
$$

4-Decagon.

The cash prizes are awarded as follows: Wan's prize, two dollars-D. G. Kershner, MarIVoman' Virginia.
Woman's prize, two dollars-Mrs. W. C. Steward, Birmingham, Alabama.
Girl's prize, two dollars-M
Mansfield, Georgia.
Boy's prize, two dollars-Wilbur E. Ferguson, New York City
A consolation prize, "Gems from the Poets," the first correct list of answers from their re spective states:
Alabama-Heyward Chisholm, Birmingham.


FIVE

Arkansas-Miss Ona Green, De Queen. Conifornia-Mary B. Albert, Ioamosa. Florida-May Mabbette, Holly Hill. Georgia-Henry F. Thompson, Mansfield. Illinois-Miss L. A. Tietze, West Salem. ndiana-Gladine Williams, Raglesville. ndian Territu-Aaron C. Parrott, Checotah Iowa-Miss Mae Smith, Cedar Rapids
Kansas-Alexander K. Howell, Coats. Kentucky-Mrs. Lillie H. Parker, Vanceburg. Maryland-Arthur Scarborough, Street. Lassachusetts-Samuel Leech, Whitinsville. Michigan-R, L. Taylor, Charlotte.
Minnesota-Sadie G. Neish, Cutler Missouri-Floyd F. Forward, Clifton Hill. Nebraska-Miss Lealh Smith, Fairmont. New Hampshire-Murray V. Wright, Keene. New Jersey-Chas. E. Spier, Watchung. North Dakota-Mrs. H. B. Crinklaw, Bowdon. Ohio-Walter A. Scheid, Monroeville. Oregon-L. L. Woodward, Forest Grove.


SIX

Pennsylvania-Chas. A. Lantz, Belleville. South Dakota-Olive Bartlett, Houghton Vermont-Mrs. Arthur Palmer, North Thetford Virgont-Mr. B. Anthony, West Augusta.
Washington-Gladys M. Beck, Port Blakeley. Washington-Gladys M. Beck, Port Blakeley West Virginia-Alice M. Dyke, Mason.
Wisconsin-Lawrence Plum, Milton. Wysonsin-Lawrence Plum, Milton.
"Look for the beautiful!" I looked down, and saw The road stretched out before me, straight and bleak; Hard ruts, sharp ice and withered leaves there were No beauty. Then a pool I had not marked
Went suddenly bright, and a pure radiance (Like a fine couplet in a somber verse) "Look for the beautiful"-and in the sky I found the glory's source-the setting sun, Dominant over the encroaching clouds of night;
And over in the east the sickle moon And over in the east the sickle moon "Look for the beautiful." Even so my soul.
-Pacific Magazine.

THE VALUE OF CHARCOAL
FEW PEOPLE KNOW HOW USEFUL IT IS I pRESERVING HEALTH AND bEAUTY
Nearly everybody knows that charcoal is the safest and most efficient disinfectant value when taken into the human system for the same cleansing purpose.
Charcoal is a remedy that the more your
take of it the better; it is not a drug at all, but simply absorbs the gases and impurities always present in the stomach and intestines, and carries them out of the system.
. Charcoal sweetens the breath after smoking, drinking, or after eating onions and other odorous vegetables.
the complexion, it whitens and improves further acts as a natural and eminently safe cathartic.
It absorbs the injurious gases which collect in the stomach and bowels; it disinfects the mouth and throat from the poison of catarrh.
All druggists sell charcoal in one form or another, but probably the best charcoal and the most for the money is in Stuart's Absorbent Lozenges; they are composed
of the finest powdered Willow Charcoal and other harmless antiseptics in tablet form, or rather in the form of large, pleas-ant-tasting lozenges, the charcoal being mixed with honey. The daily use of these lozenges will soon tell in a much improved condition of the breath and purer blood, and the beauty of it is that no possible harm can result from their continued use, but, on the contrary, great benefit
A Buffalo physician, in speaking of the benefits of charcoal, says: 'I advise Stuart's Absorbent Lozenges to all patients suffering from gas in stomach and bowels, and to clear the complexion and purify the
breath, mouth and throat; I also believe the liver is greatly benefited by the daily the liver is greatly benefted by the daily
use of them; they cost but twenty-five cents a box at drug-stores, and although in some sense a patent preparation, yet I believe I get more and better charcoal in Stuart's Absorbent Lozenges than, in any of the ordinary charcoal tablets.'
"Big Four"
World's Fair Route From the
Leading Cities of Ohio, Indiana and Illinois

## To

 St. Louis
## Write for Folders

Warren J. Lynch W. P. Deppe
CINCINNATI, OHIO


Hay Fever and Asthma

 PARM AND FIRESIDE, Dept. of Agents, Springfield, Ohio

BED-WETTIMG Cowem. smane fram
$\underset{\substack{\text { Ir } \\ \text { weaficted eree, witt }}}{ }$ Thompson's Eye Water

## Farm Selections

## T



Don't Buy Gasoline EnGines





 ${ }^{\text {memmbance }}$ my horiculurust of A mercic
The North British "AAgriculurist"




 Persons who do not habed their creanin



 labeled regarding the place of their orPresident Roosercerts speech at og.


 STEEL TUBULAR FENCE POSTS.
 piece bollow whese. Costs. Made no more one than




## We want Girls

and boys in every city and town, who are brigh and energetic, and who want to make some money for some particular purpose, or who would like to have a steady income. It is the most pleasant work possible, and will bring you in contact with the finest people. Can he done after school. Write us at once. Circulation Dept. Farm and Fireside, Springfield, Ohio MENTION THIS PAPER WHEN ANSWERINO DVERTISEMENT

## A Regular Cash Income

each month may be secured by you with a little effort. We want a representative-man or woman-in each city, where we do not already have one, to superintend the supplying of our regular customers with copies of the Woman's Home Companion each month. For this work we allow handsome cash commissions and a steady position to the right person. Don't delay, but write at once to the
Circ. Dept. Woman's Home Companion, Springfield, Ohio


[^0]:    The American Home, 525 Temple Court Bldg., New York

[^1]:    LARGE PROFITS $\begin{aligned} & \text { Others are realizing zoodliving incomes with only sro or even NO } \\ & \text { capital } \\ & \text { invested. } \\ & \text { Why not yon } \\ & \text { your } \\ & \text { Your choice of business in sin your }\end{aligned}$
    NO INVESTMENT own town or alsewhere For full paticialars and equipment write

[^2]:    and boys in every city and town, who are bright and energetic, and who want to make some money for some particular purpose, or who most pleasant work possible, and will bring you most, pleasant work possible, and will bring you after school. Write us at once. Circulation Dept. Farm and Fireside, Springfield, Ohio.

