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## urrent omment.

THE time of effective legislation
against trusts is at hand. It is signifieant of the temper of public opinion on tho subject that the first bill
introduced in the Senate of the present Congress is a bill against trusts. The bill referred to is the same that was offered last year by Senator Sherman, and published in these columns. To be complete anti-trust legislation must le both state and national. As a model of state legislation we give below, at the request of subs river, the Missouri anti-trust law:
SECTION 1. If any corporatlon organized country, for transactlng or conductlng any kind of buslucss in this state, or any partner ship or ludividual, or other association of per sons whosoever, shall create, enter into. betrust, agreement, combination, confederation, or understanding with any other corporation, partnershlp, individual, or auy other person prlce of any article of merchandise or com modlty, or shall enter lnto or become a mem ber of or a party to any pool, agreement, or limit the amount or quantity of any article commodity; or merchandlse to be manufac tured, mined, prodnced or sold in this state shall be dcemed and adjudged guilty of a con spiracy to defrand, and be subject to Indict ment and punishment, as provided in this act. SEc. 2. It shall not be lawfil for ans corpo for auy cornoratiou, agent, officer, or em ploses, or the directors or stockholders of any corporation, to enter into any combination contract or agreement with any person or ans storkholder or director thereof, the pur pose and effect of which combination, con agemeut or control of sucl combination o comblnatlons, or the mauufactured produc thereof, In the hands of any trustee or trustees, with the intent to limit or fix the price or lessen the production and sale of any artlcle vent, restrict or diminish the manufacture or output of any such article.
SEC. 3. If a corporation or a company, firm thon of this shall be found guilty of a violaof not less thau one per cent of the caplta stock of such corporation or amount invested to exceed twents per or association, and no amount Invested. Any president, manager director or other officer or agent or receive tion, or any individual, found gnilty of rlolation of the first section of thls act, shal be punished by a fine of not less than five dollars, and in addition thereto may be 1 m prisoned in the connty jail not to exceed on

SEc. 4. Any centract or agreement ln violaof thls act shall be absolutely yoid.

Sec. 5. Any purchaser of any article or
ommodlty from any individual, company or commodity from any individual, company corporation transacting business contrary to
any provlsion of the preceding sections of this act, shall not be liable for the price or paymen such article or commodily, and may plead price or payment
Sec. 6. Any corporation created or organized or under the laws of thls slate which slial of this act shall thereby forfeit its corporat right and franchises, and its corporate exist ence shall thereupon cease and determine and it shall be the duty of the secretary state, after the passage of this act, to address to the president, secretary or treasurer of each ncorporated company doing business in thi state, a letter of inquiry as to whether the said corporation had merged all or any part o its business interests in or with any trust, combination or associatiou of persons or stockholders as named in the precedlng provislons of this act, and to require au answer under or any director of said company; a form of affidavit prescribed by the secretary of state shall be enclosed in said letter of inquiry; and on refusal to make oath in ansiver to said inquiry, the secretary of state shall in mediately revoke the charter of said company, and make publicatlou of such revocation in four news papers of general circul
largest cities of the state.
argest cities of the state.
SEC. 7. It shall be the duty of the secretary of state, upon satisfactory evidence that aby company or association of persons duly incorporated and operating under the laws of thls state lave entered iuto any trust, combi atlon or associatiou as provided in the pre such corporation, that unless they withdraw from and sever all business connection with roid tust combluation or association, whith harter will be revoled or association, the thlrty days from date of such notice
SEC. 8. It shall be the duty of the
SE. 8. It in be the respect ing attorneys in their respective jurisdictions, going provisions of this act, and any prosecut lng at torney, or the attorney-general, securing a conviction under the provisious of this act shall be entitled, in addition to such fee ol salary as by law he is allowed for such prosecution, to one fifth of the fine recovered. When the attorney-gencral and prosecuting attorne act in conjunction in the prosecution of any case, under the provisions of this act, they shall be entitled to one fourth of the fine re between them, where there is no agreement the contrary.

SEcretary Windom's solntion of the silver problem proposed in the annual report of the treasury depart nent is attracting a great deal of attention and finds strong opponents and warm adrocates. The final and satisfactory so ution of the silver problem is to be found in an international agreement fixing a ratio between silver and gold, and the free coinage of both metals in the mints of all the leading nations of the world. But some of the leading nations are not ready yet for this concerted action, and thu each one is left to work at the problem in its own way. As the best solution of the problem for this country under existing conditions, Secretary Windom
mends to Congress the following measure: Issue treasury notes against cleposits of ilver bullion at the market price of silver when deposited, payable on demand in such quantities as will equal in value, at the date of presentation, the number of dollars expressed on the face of the note at the market price of silver, or in gold,
silver dollars, at the option of the holder The problem is to utilize both gold and siver as money, and keep both in circula tion on the same basis; and the secretar has proposed a bold and novel way of solving it. Whatever may be said about the financial wisdom of the plan, it has about it the clear, honest ring of genuine coin. It means dollar for dollar. It is no scheme for paying a debt of one dollar with seventy-five cents. Financial legislation that results in making a man pay a dollar to settle a debt of seventr-five cents is a most grievous wrong; legislation that compels a creditor to accept seventy-five cents for the dollar due him is also wrong. Both are wrong, and one does not right the other, although some of the extremists advocating the unlimited free coinage of silver at its present ratio to gold seem to think so.
For money, the majority of our people vant both gold and silver. They do not care to handle the coin itself. They prefer
to handle the gold and silver certificates that represent the coin. For every dollar of silver coin now in circulation there are nearly five dollars in silver certificates, and the people want an honest dollar They don't want a dear dollar or a cheap dollar. Since the people prefer to use the gold and silver certificates instead of the
coin itself, the United States treasury is practically a great bank of deposit. There are over $\$ 277,000,000^{\circ}$ of silver deposited there, that are represented in circulation by silver certificates. It is the opinion of the secretary that it would be better to store up silver bullion instead of silver coin in the vaults. The silver question will be
before Congress, and his measure will be thoroughly discussed.

1Task, phosphoric acid and nitrogen are the three principal fertilizing elements, and of these the costliest is nitrogen. This is not on accounto scarcity, for there is an abundant supply of it; four fifths in weight of the air are nitrogen, and many thousand tons of it rest on every acre. It is costly because it is not well known how to make use of at
mospheric nitrogen as plant food. This is one of the important problems now before the chemist and the farmer. The Storrs experiment station, of Connecticut, recently issued a bulletin giving an account of some interesting experiments made to find out whether growing plants can make any use of the free nitrogen of
the air. Plants of different kinds were grown in jars of clean, pure sand. They were watered with nutritive solutions containing known amounts of nitrogen. A comparison between the quantity of nitrogen added and the quantity found by analyses in the soil and in the plants at the end of their period of growth,
showerd the gain or loss of nitrogen. It was found that some plants contained more nitrogen than had been added in the nutritire solutions, while others contained no more, or eren less. The only source of gain was from the atmosphere. From a large number of experinents it was con-
cluded that peas, clover, and, probably, al. other leguminous plants, are able to acquire large quantities of free nitrogen from the air during their period of grow th.

Oats, barley and other ecreals did not
manifest this power of acquiring nitrocen froin the air. This explains why the lattez are exhaustive and the former renovating rops. Prof. Atwater gives the following perfinents: The ability of legumes to gathe hitrogen from the air helps to explain this usefulness of clover, alfalfa, peas, beans, etches and cow-peas as reuovating crops, and enforces the importance of using these crops to restore fertility to exliausted soils. The judicious use of mincral fertilizers (containing phosphoric acid, potash and lime) will enable the farmer to grow crops of legumes, which, after being fed to his stock, will, with proper care to collect and preserve all manure, turn a "complete fertilizer" in the shape of barn-yard manure to his land. A further advantage of growing these crops is that the nitrogenous material, protein, which they contain in such great abun dance, is especially valuable for fodder.

Sccess in any co-operativ buying their supplies . itanar depends nearly altogether on whemei dic cash or credit system is followed. The organization of farmers in Michigan,
mentioned in former issues, adopted the mentioned in former issues, adopted the attributed its success. It accomplishes much by doing away with the surplus of middlemen, but it does more by following the strict cash system. It is the keystone f the organization. But this particular organization has no monopoly of the plan. It can be adopted by any farniers' club or neighborhood association. There is a cash market for farm products, and farmers should buy for cash. It is to the mutual advantage of the honest buo for seller. The buyer gets more goods for his money and the merchant runs no risk, and does not try to collect his bad debts from his paying customers. It is the "dead beat" that gets left when the pay-as-you-go plan is strictly followed. Cash enforce. honesty.
annual report of the secretary $o^{\circ}$ the treasury is a table giving thi amount of inoney of all kinds in cir. culation each year from 1878 to 1889 . In 1878 the total amount was $\$ 805,793,807$, ir: 1889 it was $\$ 1,405,018,000$; a net increase of $\$ 599,224,193$. This is an increase in the circulation per capita of about five dol lars. This simple statement of facts completely upsets all the voluminous arguments on the money question, found. ed on the contraction of the currercy alleged to have taken place in the period ot time covered by the table.

THE growing strength of the farmers defensive noremient is evidenced by the large incrase in the mem. bership of their organizations within the past three years. It is estimated that over one million out of four and one half mill. ion farmers in this country are now en. rolled in the various icsanizations. Since the main object of the separate organiza tions are the same, earnest efforts are now being made to unite them all under ons national head.

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## (Gut fitur.

## AGRICULTURAL CHEMISTRY

From the Standpoint of the Practical Fal
BY Jos

## No. 24.

Karisr.-Well, what do the authorities say about this salt and its power over ammonia? The late Prof. Geo. H. Cook,
who, as director of the Jew Tork ExperiWho, as director of the Jew York Experi-
ment Station, has paid much attention to ment Station, has paid much attention to
the subject of fertilizing materials, wrote me that experiments were being made at the station to settle the disputed question as to the comparative ralues of kainit and
other potash salts, but declined to express a decided opinion concerning the power af kainit over ammonia.
Next, I asked G. C. Cald well, professor of agriculture and analy tical chemistry, at Cornell Unirersity, of this state. In a letter dated July 19, 1889, he writes:
"some experinents have been reported "Some experinents have been reported
indicating that kainit is rery much better than plaster for fixing ammonia, but no explanation of the difference was given. Whaterer fixation takes place is, in all probability, effected in the way mentioned
by you; namely, by interchange of acids, yielding the sulphate of ammonia much less rolatile than the carbonate. know of no reasonable way of explaining it. As to the better result which may be
claimed sometimes for kainit as compared with the muriate, it mas be due to the reason suggosted (its chemical action upon plant foods already present in the soil in insoluble combinations); but it remains to be seen how far such a claim is sased Kainit costs more than plaster. I do not think it is yet proved that for equal
amount of money invested, as much if not more fixing power for a m monia would not be secured in plaster as in kainit. only as much, and no more, then I sbould invest in kainit, since it contains a cerlain amoun
not.",
The
This is very good as far as it goes, but is did not fully satisfy my inquisitireness,
and I I asked Prof. C. A. Goessmann, director of the Massachusetts State Agricultural Experiment Station, an eminent
chemist. August $\overline{\text { thth }}, 1889$, he wrote me as follows: "Kainit contains common salt, gypsum, chlloride of potassinm and sulphate of potash, besides chloride of magnesium. Its compound character is apt to supply knownit as well as unknown
wants of the planis raised by its aid. It wants of the plants raised by its aid. It
is a superior absorber of ammionia, as comp pared with gypsum; it diffuses potash and fhosphoric acid, and renders them
more accessible to all kinds of plants, the water-retaining quality of the soil. Its the water-retaining quality of the soil. Its
large percentage of counmon salt renders its use in some cases objectionable, but for grass lands and forage crops in general, its application deserves high recommendation. For most garden crops, where stems, leares and roots are to be used, muriate of potash is safer. For fruits (and sugar and starch-containing plants), carbonate and sulphate of potash are safer potash resources.
One important quality of kainit, howerer, has not yet been touched upon namely, its power of absorbing nitrogen from the air. Mr. J. J. H. Gregory, in his excellent little pamphlet on "Fertilizers," tells of some experiments made in this direction with several heaps of barn dnng which were kept for a year. "In one of these, to which had been added 0.5 per cent of carbonate of lime, there was a loss of 9.78 per cent of the nitrogen. Where 1 per cent of plaster had been mixed with a heap, there was a loss of but 0.34 per cent; where 1 per cent of sulphate of magnesia had been mixed, the heap was enriched with $5 . 巛 6$ per cent of nitrogen; while one per cent of kainit added 7.97 air."
Prof. Dabney says, "Lime promotes the action of kainit to a rery marked degree kainit is, by itself, freqnently a proper
application to swamp lands and new application to swamp lands and new
lands, being, also, a powerfnl digestive agent."
Here we have an abstract of nearly all the information that is available up to this day on the subject of kainit. The rast importance of the matter must have become plain to the thoughtful reader, and he much space why I have devoted so much space and study to it. Now,
after this consultation with chemists and

and that it helps to rob the land of these plant foods; so that in some respects its
effect is like that of lime and plaster. Without simultaneous applications of othe manures it may "make the father rich and the children poor." But for the purpose of keeping up the soil fertility in genera farming, the potash inay be supplied by kainit; the phosphoric acid in some cheap form of phosphate, like floats, dissolved bone, basic slag, bone dust, etc., and the nitrogen by means of rotation with clover plowing under black peas or other green crops, and all this supplemented by wha yard manure and similar sources of plan food may be arailable on the place. For leguminous plauts, beans, peas, clovers, etc., the mineral manures are often al that are needed, no nitrogen being required. In such case we could not wel find anything more suitable, and cheaper at the same time, than kainit with some cheap phosphate.
The best results from kainit (and of most other German potash salts) are usually obtained by applying in the fall or winter, and for some crops (potatoes for instance), still better the year previous The chlorides in kainit are qnite abundant, and should be given a chance to be washed out of the soil, as otherwise they are often injurious.

## TANK HEATER.

I send you a rough sketch of a tank heater which I used all last winter and found to be a good thing. A tinner mad me a heater of galranized iron, ten inches. doep and eighteen inches in diameter with pipes as shown in the illustration. The short pipe is just long enough to pass through the end of the tank. The hole for the pipe to pass through should be cut flaring, so that the pipe can be packed with tarred rope. The short pipe should be eight inches or more in diameter so that, when not nsing the cooker, a small oil or lamp stove can be placed inside the heater. Wood can be used. If it is, a screen wire can be placed over the top of fying

In connection with this heater I nse

agricultural experimenters, it is only lef for us to inquire what farmers think of it who have used it largely and observed its ffects on the soil.
In practice it has been found that lain has a most favorable effect npon all lands abounding in regetable matter, as newly cleared lands, reclaimed swamps, etc. Here, probably, the kainit not only fur nishes plant food to the soil directly (in its potash). but also through its sulphates, and other secondary salts aid in rendering insoluble plant foods in the soil soluble A good share of the sandy soils of Nerr Jersey is deficient in potash, and here kainit is used quite largely by good cultirators. I have known instances of 1,000 pounds per acre being used with good nation with some phosphatic fertilizer usually bone meal. In the same combination it has frequently giren excellent results on small fruits. For orchards especially peach trecs, it often proves a veritable panacea and the diseases of the
peach sometimes yield to its application as if by magic.
To sum up, I would say that kainit, as a source of potash, is worth just about its cost; but it gives us so many other advantages besides, that it cannot be doubted that we have in it one of the most valuable manures, and, indeed, worth more should try its virtues, especially for orchards and meadows, reclaimed muck lands, ctc.
On the other hand, we should not forget particle of only furnishes potash, and not a particle of other plant nutriments directly,
feed-kettle, doing $m y$ cooking and heat ing the stock water at the same time This heater works to perfection, and send this description of it for the benefit of others
Iowa.

## irrigation.

There seems to be an antipathy agains rrigation. Is this right? I think not Sonoma county, California, of all the counties in tho state, is the one giving the most certain field and orchard crops without irrigation, and as certain as any region in the world. We have snfficient moisture for the crops, and we have a climate without frosts, storms or floods in the growing season. Yet, were I a young man, in search of a farm on which I could make the most money with the least hard work, and knowing as much of the country as I do now, I would certainly give rery much more for a farm with a handy, abundaut water supply, sufficient to irrigate every foot of it, than for one equally as good otherwise on which water could not be brought either for field crops or any kind of fruits. And I should very much prefer to have that water from a great, pen, storage reservoir than from a flowing stream or well.
The reasons are founded on carcful observations, hoth here and in the East, and I do not stand alone in this preference. The brightest minds East and West, that have given the subject practical study, hold to the same doctrine-irrigation makes full crops absolutcly certain every year. East, evon in regions of the great-
est rainfall, proper irrigation, which means
irrigation combined with under-drainage means full crops nearly every year. There are seasons everywhere East in which it is
not possible to grow full crops, on account of frosts and storms-but with water for irrigation stored up, the season drouths and great heat would give the greates crops. Every portion of the Pacific coas where the soil is good, can be made to produce certain crops of all kinds every year.
Nerada is, we will say, the most dreary desolate, arid state or territory in the Union. It has millions of acres, Which would lay forever desolate and act as a curse to the rest of the continent, but Which can all be redeemed and made support a dense population in seenrity by the use of water-of course I mean the por tions of it that are plowable and not bare rocks. Nevada, with its plains all "under water," with its own natural mountain water stored up in large reservoirs, prop erly distributed orer her rich plain would support a more dense populatio in safety than Iowa and Missouri com bined, without irrigation.
It has been estimated by those best in formed that water enough for all the araleland for the whole state of Nerada could be stored up, and the main distributing canals dug, at a cost of $\$ 2$ to $\$ 2.50$ per acre for the land benefited. Thesame is true of the other arid states and terriories.
The grandest thing that conld happen or the North American continent would be for this grand young republic to go on in the way she has started, and give this and future generations the millions of nearly perfect homes that a great system of water storage and distribution would reate. It might be made to pay the gorernment big as a business renture, for every foot of good land in this rast arid region is, to-day, without water, practito ther properl o mud distribnted, it is worth rably better-sa the best farm lands of Iowa and Illinois, or say $\$ 40$ to $\$ 60$ an acre.
I could go on and fill many nnmbers of this journal with its adrantages here in Sonoma county, or in Illinois, where I studied and practiced agriculture and horticulture for fifty years, and pnt ap and used a plant for irrigating small fruits and regetables, where I had to pninp the precious fluid one hundred and fourteen eet by wind power, and fonnd it to pay well. Here, and in all the western arid region, if we could have thorongh coperation, as government works, we wonld not need to dig or pnmp; our mountains would give us all the water we wonld need and many times more, flowing where we willed by gravitation.
The monntains surrounding the great, arid, rich San Joaquin valley would give the whole valley, in ordinary winters, water enough to cover it six feet deep over every foot of it, or water enongh in one season, if all was stored up, to give itsix full crops if not one drop of water was condensed on those mountains during the six years; that is, if it is economically used b bringing it to the land in pipes and used as sub-irrigation.
Men who have studied the irrigation problem carefully from the standpoint of eneral irrigation for a whole state or terriory by the state or general government, say, as abore, the whole cost for storage reservoirs and distributing canals should not exceed in cost more than from one to twenty dollars per acre to the land ben efited. The average for the whole arid re gion haring been guessed at by experts as two dollars per acre.
The plains of these arid regions are, as a rule, very level and nearly bare of growth of any kind, and for the most part read for the plow and crops as soon as moist ened. Then, if the abore estimates are right, we lave for the first cost of irriga tion about what the settler in Illinois had to pas for breaking up the prairie sod, and then, often he had to wait a year befor he could get a crop. Bringing water t the land will not cost more than on fourth as mncl as it cost to clear the brush and timber lands of Ohio, Indiana, Mich igan and Wisconsin, and about one tenth
in this county, and about one twentieth as inuch as it does the timher lands in westerı Oregon and Washingtoll. The minor distributlng ditehes in arid region. and are much more permanent.
Utah has perhaps tho lest irrigatiou system, or, one gotten up nearly iu the right line of a co-operative system; that is, one huilt under the care of the govern-
ing power by the co-operative labor of the ing power by the co-operative labor of the
land to be beuefted, and tho statistics of the fiuished works agree pretty uearly with the above estimates. So we see that Instead of ir

What have sheep raisers learned by THE CRISIS?
There has been a dreadful depression to Ameriean wool growing during the last four years. The first inquiry that comes up is, What was the matter with our sheep industry? No one ean elaim more than tbat wool was below the cost of production. Right along with this was the fear that it would never be better. Wool growingour Amerieau sheep husbandry - got into
politics, and seemed likely to be ruined. politics, and seemed likely to be ruined.
This seared us. Besides, there were not lacking politicians who stampeded the sheep raisers into disgust and despondency, aud thousands of the sheep raiscrs went out of the business and millions of
sheep went out of existenee. There was no wholesale slanghter as in 1S66-7; but they went to the bloek or died of neg-
leet, dogs, parasites and diseases. Espe cially was this latter the case with strietly wool bearing floeks.
It is a notalle fact that only wool grow Ing was depressed. It was a peculiar situatiou, quite unlike any former pauic in the history of American sheep raising. It was wool that was low. Mutton, was in great demand. This, too, whil it has ever been. Muton has sold for more per pound than beef has. This has saved the sheep from the boiling pots; and more than that, has let sheep men get rid of their flocks at good prices. Not only in the agricultural states, where
land was high and where wool could not be produced at a profit, but also in the far West. It was not heretofore suspected that mutton sheep could be brought from the Pacific coast to the grain growing states to he fed profitably. More than this. it was hardly expected that fat shcep could come from Texas and the far West and be sold in our markets as prime mutton, hut they have. Hitherto, when wool has been low,
reinedy was fonnd in improved heft o fleeees. This was not sufficient to make wool growing pay. The cost of produe tiou, by the closest economies by some, was so reduced as to leave a margiu of profi
as satisfactory as in other industries While wool was so low in price, the business rierr of the industry took cog nizance of incidental profits not counted upon before
In feeds, wheat and other straw wer in eomfort to the sheep, as well as the making manure in the stables and yards. Other clieap feeds, as bean straw aud the coarser hays, were used as an occasional feed; barley sproutures manufactures, as glucose, hrew eries, etc., were found profitable. Chcapcr grain feeds were substituted; refuse beans peas and hran came into more general use.
In some instances ensilage has been profitably used iu feeding sheep, both in breeding flocks, store sheep and fattening sheep. By these substitutes and the greater use of roots, the cost of keeping sheep has been greatly reduced from the
use of corn, oats and prime hay during the winter.
The most hopeful and enduring lesson we have learned, is the ralue of a sheep with mutton qualities. There has been a query just how much wool and mutton wo might expect from the same sheep We do not know the limits to either o these products. It has been thought del-
increasing the size of the sheep had a del 3terious effect upon the quantity and qual ty of the fleece at the same time. There
s greater doubt now than formerly, and ;here are not lacking possible and ralid easons for the variations and failures of
the past. In increasing the size of the eareass in former experiments, the selee-
tions hare been unfavorahlo to the quality of the fleece as well as quantity. Everything has been saerificed to sizc. One thing, as intimated before, is sure: the sheep combining wool and mutton has been the paying sheep. Nor is it expected hat wool shall again hold the first place in sheep raising in regions where lands are high and the cost of living expensive The raising of lambs for market has been found most profitable, not only in districts contiguous to city markets, but by the cheap rates of transportation they are raised hundreds of miles from the markets with entire satisfaction. Early or hot-housc lamls, have been largely
raised by those who were prepared and willing to take tho pains to raiso and mar vet them, and have brought extra prices in the city markets.
Our sheep husbandry has becomothus greatly diversified. The latter eeonomies are weleomed and the old ones are being ooked into with business calculation and discretion.
The preseut prices of mutton justify the feeding of thousands of western and southeru sheep on grain farms. The vast crops of corn, oats and hay are thus fed on the farm, adding, happily, to the fertilit of the soil for future crops.
Nor are these the only lessons we have learned by the depression. We havo a better understanding of our foreign wool growers, who are severe competitors in our own wool market. We know how they compete with us, and in what grades and with what probable future suceess. It is not a little mortifying that we are hopelessly disturbed in our own markets, but we had as well know tho situation, and trust by developing our resources and Yankee genius to find legitimate means of not only holding our own, but possihly gaining advantages in the fnture. ***

## weeder.

For a convenient size, take a piece o hoop iron about sixteen inehes long. Six inehes from eaehend hend it to right angles, and two inches from each end bend again diagonally across the iron. For tho handle, take a piece of basswood hoagrd four inches wide and four to six feet long and cut it down to the size of a hoe handle except at one end, to which is attached the iron, bent as aforesaid. It slould be put
on with screws, as nails will work loose.


Keep the middle soction of the iron filed sharp and it works like a charm between drilled plants. If the cutting, section is set about forty-five degrees with the handle, it will naturally run about half an inch deep, and the earth and weeds, with their roots cut off, slip back over the iron. It is to be used when the weeds are young and not when ther are so large as to require chopping, as with a hoo. The side sections unfile
drilled plants.
The Lang weeder is improved for standup work by binding it to a handle four o five feet long. Bind with wire. Always save old broom heads and burn them for burning makes it pliable if not cooled burning makes it pliable if not cooled
suddenly.
S. D. Newrro. nddenly.
Michigan.
Middle Island, N. Y., Not. 27, 1889 I receired your Pcerless Atlas. It is wonderfully cheap, and is worth five
times the price you eharge. I think times the price you eharge
everybody ought to have oue.

Clifford D. Randailu

SHEEP HUSBANDRY IN MARYLAND.
The Alhum of Agricultural Statistlesthe popular atlas issued by the Departinent of Agriculture-shows on the twelfth nuap the arerage valuo of sheep in the
United States; differences of state United States; differences of state
averages in relation to general average. The states are placed in five groups, cacl class distinguished by separate tints, each including a certain range of average valucs, and of percentages above or below tho general a verage of $\$ 2.21$. These differ ences of value are due to breed, grade feed, care, quality and quantity of fleeee, value for mutton, and other loeal causes affecting values. In the tint reprosenting the highest over-average elass is Maryland at $\$ 3.28$ per hoad, or 48.4 above the gencra average. The nearness to the largest ies of tho Union has its effeet on the price of mutton and wool, and ronders sheep husbandry profitable in this state. Tho cost of wintering sheep here is much be
low the average of the New England and low the average of the New England and
middle states, the elimate being so much milder. Southern Maryland possesses tbo advantage of nearness to markets, of cheap lands, short, mild winters and un failing water supply; and in the cow-pea and Japanese clover has superior ways o conomie sheep feeding and of enriehing the land. The former as a substitute for clover, value as fodder and as grcen ma-
nure, live weight and wool produeer, and per cent of nitrogen, ranking ligher than clover, while Japanese clover promises to be one of the very best sheep fonds, and meaus of putting land rapidly in grass But notwithstandiug these advantages, sheep husbandry is very small in propor tion to what it might profitably be in View of the great benefit to the soil, and the large tracts of land suitahle for sheep
ranches and mixed farming for sale at ten ranches and mixed farming for sale at ten dollars an acre
Sheep husbandry is one of the most easible and effectual ways to improve soils poor by nature, or made so hy the one crop system. The light lands of En-
gland are only kept fertile by the aid of gland are only kept fertile by the aid of
sheep. The droppings of sheep constautly enrich land, and in a few years rich, pro ductive pastures are made. Northern farmers will find numerous remarkable opportunities for securing homes in south ern Maryland, and eveu if it were truc that the land is worn out, it can be easily aud effectually reelaimed by sheep hushandry; hut there is really none of it
worn out, exeept on the surface, and deeper plowing renews fer tility, while most of the land is remarkably fertile and very which it'can be bought aston ishes northeru men, and instead of look ishes northeru men, and instead of look
ing for the eause of the depression ing for the eause of the depression,
which was the hlight of slavery, they think if the land had any value would long ago lave been taken by others; but the few who come and in better soil or more beautiful country than that which lies uncultivated throughout sonthern Maryland, inviting and needing northern immigration to repeople it

## Maryland.

G. I. Jones.

## the vegetable garden.

If the farmer was obliged to buy the regetahles used in his family through the year, he would begin to understand how much money there is in a good garden. If he could not afford to buy them, he would begin to appreciate them as he does not
when he has cven a limited supply, and that of inferior quality. Take that away entirely, and he would see what a great benefit is derived from a poor garden. Let him keep an account of the money paid out, if he purchases, and at the end of the year he understands, as never before, the amount of good living which the garden supplies, and he would conclude that there is more money in the garden than he had thought.
I would urge every farmer to have a gar Ien, and a good one, for, while a poor one is hetter than none at all, a good one is so much better that oneought never to be satsfied with anything else. Let him make up his mind to work it at least as well as he does other portlons of his farm, and he will find, if he carries out this resolution
there is no other portion of the farm whieh furnishes so much of the family's living, therefore nono that "pays" so woll. That this is the faet, every ono who has a good garden will tell you. It is also a fact that thoso who havo the bestgardensappreciate them most. Poor gardens are only to $h 9$ olerated on the principlo that "balf a loa is better than no loaf at all." Not only does a good garden represent greater quantity, but superior quality, for fine vegetables cannot ho grown in a garden no properly cared for.-Vick's Magazine.

## that lantern

Every farmer has, or ought to have, a good lantern. A born farmer has the in erest of his stock as much in mind in the night as in the day. It is often necessary o go to the bario at inid night. IIorses ge sick, sometimes, though given the best o treatment, and what man wants to stop to clean and fill a lantern when he hear the agonizing groans from a valuablo animal? Or, if a rap at the door discloses the presence of a messenger telling of sick neighhor who wishes your aid, do you want to wait while the lantern globes
are being polished, when your prescneo are being polished, when your prescneo
may be of vital importanco? A dirty antern always brings to my mind that text about the the foolish virgins, and that other text, with a slight alteratlon "Be ye also ready, for in the hour when "e think not ye may be ealled hastlly," and have to wait for your lantern to be cleaned and filled.
Sometimes, it is true, wholo months may elapse and the lantern not bo required. If there is no probability of it being needed, see that it is in perfect order and slip a paper bag over it: fasten the bag at the top with a little rubber hand. It will take huta seeond to remove the bag By all means have a regular place for the lantern, and see that it is always in its place when not in use.
Tho lantern burner can be seoured with bath brick and rubbed with chamois. The light will he much proved if the burner is bright. The should he empticd out and the $h$ ? washed with hot soapsuds oeeasiona for all kerosene has some dregs.

## Elza Renan.

## beet sugar.

In regard to the heet-sugar industry experiments have been made in various parts of the United States in the growth of beets and in the analyses thereof. Many of these analyses hare heen made in the chemieal division of the depart ment at Washington, and show that ther are many localities, cspeeially in the northern portion of the United States and on the Pacific coast, suitable to the pro duction of a sugar beet rich in saecharine matter. The successful experiments in beet sugar manufacture in California have created a great deal of intercst in various parts of the United States in this industry and the department has received many inquiries for information on this point. The chemical division is now collecting material for a full report on the beet-suga industry in the United States, which it is hoped may be published early the coming winter.-Extracts from Report of Secre retary of Agriculture.

## ANGORAS.

Once'create a market for Angora fleece and thathardy little animal will carry civ-
lization nearer to the topsof the mountain hlization nearer to the tops of the mountain than California gold ever did. We once owned a fioek of grades in the Sierra foothills. As soon as a permanent demand has been created for their fibre they wil be better property for the mountaineer than sheep. They require neither fence nor herder; they always come home a night, aud when dogs or coyntes assai hem they make a bee-line for the corral the buck covcring the rear and turning often to heat back the enemy. Their flesb is good mutton and their milk is frec from offensive taste.-Sheep-Breeder and WoolGrower.
J. A. JoHNson, Medina, N. Y., says: "Hall's
Catarit Cure cured me." sold by Druggiss, 7 Toc .



## (G) It fitur.

## garden and farm notes.

by Joseph.
Thechinch Bug.-"The chinch bugs are getting worse every year. This year they destroyed all my Lima beans, and badly damaged cabbages and radishes. They do not eat, but suck all the substance out of
the learcs. I have tried everything I could think of without finding a remedy." This cry of despair comes from one of our friends in Maryland. Unfortunately, I can give him but little aid or adrice in this trouble. The bug is rather difficult to
deal with. The only thing that might promise immediate relief, is to induce poultry to make the infested fields their happs hunting grounds. Place coops with
broods of chickens (the old hen confined in the coop) scatteringly over the territory you wish to protect, and it may keep the bugs at bay. Insect-eating birds should also be encouraged. The chinch bug ease, which, in years farorable to its derelopment (wet seasons), sometirnes almost annihilates the pests. This dis-
ease, as may be iuferred from experiments made at the Minnesota experiment station, can be transplanted from one locality to another, by simply gathering up a numsending them to another, where the dissending them to another, where the dis-
ease has not yet made its appearance, and ease has not $\Gamma$ et made its appearance, and
scattering them there among the healthy bugs. In wet weather the infection will soon spread and carry death among the
chinch bugs. After the disease has once bcen introduced in a locality, it may be depended upon to take care of these insects to such a degree that serious damage If the bugs in our friend's section have never been affected with this disease, I
would adrise him, and his neighbors and would advise him, and his neighbors and
the whole section, to look around for a number of diseased specimens for seed.
Perhaps the Minnesota experiment staPerhaps the Minnesota experiment sta-
tion (St. Anthonr's Park, Ramser countr, Minnesota) could help him out, or tell hinl where the fungous seed might be obtained. The object is worth taking a lit pains, or eren going to some expense.
Melons for Exhibit.-Horr to gro Melons for Exhibir.-How to grow
large specimens of melons for exhibition purposes, is what some of $m y$ friends would like to know. There is absolutely no secret about ith plants and keep them place, have rapidly, and without the least check, either in transplanting, from sudden exposure or by insect attacks. This latter is an
important point. Plants, nibbled and gnawed and sucked out by bugs until
they have been hanging between life and death for weeks, and only mauaged to escape with a weakened constitution, cannot be expected to yield fine specimens or mention that the soil must be very rich in accumulated plant food. A large application of manure to impoverished soil will
not do. Soil and location should also be not do. Soil and location should also be Applications of washing suds during
a long dry spell, should such occur, will a long dry spell, should such occur, will
be very beneficial; but such applications should be made very copiousls, if at all, say a pailful or mare
ing, howerer, as a usual thing can be dispensed with much easier than any of the other requisites named. Indeed, hot and dry weather suits melons rery well secret, if you insist on calling it so-and this is proper thinning. If the plants set fruit freely and fully, as healthy plants
should, and this fruit is all left on the vines, we could not reasonablr expect the specimens to grow to excessive size; but, by taking off the most of the fruit set,
learing only a few of the most promising learing only a few of the most promising
specingens on the vine, the whole strength of the plant is concentrated in thesc ferr
fruits, and a large size of them is a sure result.

Such treatment is advisable for all smaller kinds, not only for exhibition but also
for ordinary purposes. The Emerald Gcm melon, for instance, this ne plus ultra of fine quality and insignificant appearance, is too inconveniently small to be appreci-
ated in market, when grown without
thinning; and while the grower, on ac-
count of its other good qualities, might overlook this fault, he should always try to remedy it to some extent by remoring
one half or more of all the fruit when first set. The same is true of the smaller vari eties of watermelons, althongh, for home use, and with fair treatment as to feeding and cultivating, we can always get them large enough to answer. If a melon is as good as my farorite, the Yolga, and nine to twelve inches one way by fourteen or
fifteen inches the other, I am not disposed to find fault with either quality or size If wanted for exhibition, of course, we mnst add a ferr inches to each dimension by judicious thiuning.
These rules for the production of exhibition stuff do not apply to melons alone fruits, equally applicable to most other fruits, as tomatoes, peppers, egg-plants,
etc., and with some modification to almost all regetables. An onion, or a beet, or carrot cannot come to full derelopment and to exhibition size, if at any stage during growth it is scantily supplied with nourishment, or crowded for space. Early thinning is one of the most importan one of the commonest sins of omission While plants are small, a few inches distance looks quite large, especially to the inexperienced gardener, and the plants are apt to be left two or three times as close in the rows as is good for their welfare. Then they grow rapidly, and before the gardener is a ware of it, they are crowding each other, fighting for food, drink and
space; the strongest after awhile get the upper hand of the weaker ones; but all suffer more or less, and remain stanted. It takes nerre to pull up nice plants, ani thin to the required distance, but it has to be done and that at a very early stage o int, or the crop must suffer

## Orchard and Small Fruits. <br> condected by sameel b. green. <br> PLUM CURCULIO.

The bulletin of the entomological department of Michigan University, by Prof. A. J. Cook, contains some valuable notes on the use of arsenic poisons for ridding our plum orchards of this pest, and gives carbolized plaster (one pint of crude carbolic acid to fifty pounds of plaster) will protect against the plum curculio if they can be kept on the fruit or tree. But in case of very frequent rains the jarring method will not only be cheaper, but
much nore effective. Again; as our wild fruits are more cleared away, we nust have plums in our orchards to protect bur apples from the curculio. When apples are seriously stung, ther become so
gnarled and deformed as to be worthless. It will pay, then, to set plum trees near or among our apple trees. Then we will the curcnlio, and will only need to spray our apples once to destroy the codlin moth, and can treat the plum trees three or four times with Paris green or carbolated lime, in case we have only occasional showers,
or can jar the trees when the rains are very frequent. For apples we use London pur ple, one pound to two hundred gallons of
water. For plums, we must use Paris green, one ponnd to two or three hundred gallons of water. If carbolated plaster is preferred, we use one pint of crude carThis is freely thrown over the trees po This is freely thrown over the trees so as
to strike erery plum on the tree which is being treated." It also adds that the trees should not be srringed until the blossoms fall, as by so doing many bees may be de-
stroved. There is no reason for spraying until ther have fallen, as neither the cur culio or codling larvæ commence their keepers have been ruined by their neighbors syringing their trees before the blossom more liability of injury to the foliage from L.ondon purple thau from Paris green, and
that white arsenic is still more injurious. Plum foliage is liable to injury even from rery dilute mixtures of London purple As for the chances of injury to sfock from the spraying mixtures falling on the grass, careful experiments on animals, that when
these poisons are properly used, there is
no danger to stock that may be pastured in the orchard; nor is there any chance o the fruit being made poisonous.

Saunders': 'Ingives the following to scription of the plum
curculio: It is a small, rough, grayish or blackish beetle, about one fifth of an inch long (shown, magnified, in the illus tration), with a black, shining hump on the middle of each wing-case, and behind this a more or less distinct band of a dull, ochre-yellow color, with some whitish marks about the middle; the snout is

## PEACH ROT AND BLIGHT.

Erwin F. Smith contributes an interesting article on this subject in the recent issue of the Journal of Mycology. He says caus this disease is what has frequently caused immense losses to the peach growthe blossons and wood as well as the fruit, if the season is favorable for its derelopment. It has sometimes destroyed an entire crop in a rery few days. Some-
times the fruit is destroved while on the way to market, aud rots in the middlemen's hands. He points out that it is not necessary to bruise the fruit to give the disease entrance, but that it may itsel puncture the skin of a healthy peacl dur-
ing moist, warm weather, when it is most active. This fnngous growth, or disease, as it is commonly called, is distributed from peach to peach by means of its spores or seeds, which are scattered in great abundance. These spores (seeds) pass through the winter in a manner similar to the rot of the grape; that is, in the decayed or rather, dried-up fruit of the peach. But he also
finds that the same fungous attacks and cavises rot in appies, plums and cherries. He thinks that by destroring all the rotten peaches and other fruits, a great deal will hare been done to stop its rat ages, especially if this is carried on care
fully for several years. To be successful, growers should unite in this destruction of decayed or dried-up fruits, and none should be left on the ground or on the trees. In order to destroy them effectu-
ally, they must be buried or burned. Simply piling them up is of no avail. He says when this disease has attacked the blossoms and destroyed them, many other causes hate been looked to for a solution of what was a mystery, such as lack of pollenization, etc

## fig culture in georgia.

I believe this, the southern part of Georgia, to be the home of the fig. I have
three kinds: The sugar fig, which is small but very sweet and prolifiv; the purple, which is of medium size, and the large
yellow, or Turkish fig, which I think the finest an
It is a co It is a constant bearer from early spring until the young fruit is killed by frost The frnit is rery large, and of excellent quality. I have four-year-old trees which produced, this rear, from six to eight
bushels each. I find them profitable at five cents per dozen. They come best from
cuttings, from ten to twelve inches long, put out in January on well drained soil, with compost and hard-wood ashes for

## ertilizer

H. Gigullliat.

## INQUIRIES ANSWERED

## BY SAMTEL B. GREES:

Monthly Strawberry.-S. G., Cbarleston, much attention, as it was largely ad vertlsed. But, upon actual trial, it was found to be the The monthly red Alpine rariets. of Europe througlout the surmmer, and are valuable to not been cultivated for profit, so far as I nm aware of, in thls country. They aresmall, but very sweet. They are larger if
seed than if grown from runners.
Varieties of Apples.-R. F. Mr.. Green
RIdge, Mo. The Limber-twig and Willow-t wig are not the same, though in tree and fruit they resemble each other. The stern of Limber-twig is quite long. and is inserfed in a broad, deep
cavity, whilie that of the Willow-twig has a short, rather slender stem inserted, In a narrow a lip. The fleslo of Limber-twig is rery white while that of Willow-twig is of a yellowish-
same as Rome Beauty. It is a late keeper
whine the latter is in season from October December. The Pome Beauty has a large Pippin is nearly round, or somewhat flattened and has a small core. There are other lmpor$\operatorname{tant}$ differences.
Propagating the Snowball.-R. J., Car errille, Mo. By snomball I take it yon mean not viburnum plicatum. The connion snowball roots readily from cuttings of the leares have fallen. These should be made about seven inches long, and should be windrained framed closely iu sand in a trellust below a bud. good, light, well-drained soil, and be sure to frm the soll well around the base of the cut newly formed wood in July. Leave on a part drained, coarse sand, in a cuttings in welldraiter, cour sand in a box or frame, anc ive all the enough to preventdrying out, and wilting. In this way they may be easily root ed. Plant ont,in a frame or bed as soon as started.
Seedling Plams.-J. W. B., Arlington Dakota. Your seedling plum sprouts do no need to be budded, but produce plums article you refer to I stated that the sprouts from a plum tree root should be budded, and ncb is the case almost alwars, since but few people grow their plums from seed or from sprouts. Most plums are grafted or budded on seedling roots, so, of course, the frait from them will not, probably, be as good as that from the scion. Although since all fruits good, or eren better. The plums grown in the eastern and middle states are generally from he European plum (prunus domesticas) which does not produce many suckers, and is propa-
gated by budding and grafting. While the wild satnm budang and gracling. While the wild icana) suckers very freely, and may be so propagated, alwass remember in the case of fraits that any portion of a tree or plant which is entirely on its owu roots will produce like the original when it sends out suckers and buds ends out plum trees tbat are not budded or grafted.
Malching Fruits.-A. H., Silrer Clty, N M. The object in mulching strawberries in have them snbiected to alternate freezlng and haming, mhich thrors them out of the soil. This is best accomplished by covering the bed, after it is frozen hard, with a light covering of hay, straw, a coarse manure, evergreen bough or leares, so deep that the plants will be covhe lavely, but not heavily enough to pres mannre-that has seed in it, or rye or fyreat straw with any grain in it, for in such a case they will grow and make trouble. In tbe should be drawn suay from orer the plant to permit tbem to come through. The mulch wlll then prevent the rains spattering the dirt onto the berries. If you wish to mulch to keep
the soll moist, put on a large amount of and work it in among the plants. In mulch ing tres or berry bushes, it will be found ad-
risable to have it as fine as posible. Foress
leares make an excellent mulch butare hard
to keep in place where it is wind but Fvergat leares make an excellent mulch but are hard
to keep in place where itis windy. Evergreers
boughs arealso wery good, for they do not lie
too close on the plants. Mieadow hay lis good
if free from seeds. If a windy place, a few old Best Fertilizer for the Orehard.-C. C.
L., Old Fort, N. C., writes: Next spring Iin-
end to plant a block in apple tree grafts, prin-
 edge
sirty
or $f$ f or fertilizer would be best to nse to cause the
tres to make a flne grovthand eren apnicely
in size? I had thought of asing some kind of
bone phosphate or hen manure.


I intend to use for a gardent and I think I can
make a very good one of it."
Reply:-I recommend that yon use bone surood aslies. In all probability, nitrogenous manures, such as tbat from hens or the stable,
it would not be well to use, for they naturally help to produce a succulent growtt, and such and as you mention is apt to have too great a tendency in that direction any wa. the fertilizers in the rows in this way: Mark then sow the fertilizer $\ln$ a uarrow strip along he marks and plant out sour grats. I prefer lians ing nurs-
for plantlngout grafts. In transplanting
trees. I furrow out with a plow sow fertilizer in the furrow and then set a common
cultivior close together and with it work the
fertilizer inton the rowe have also used fer-
ilizers hroadcast, but prefer this method for fertilizer into the row. I hawe also used fer
tillzers hroadcast, but prefer this method for
aything in rows that are three feet apart.

Shortiband affords the hest opening for young
people. Learn it br nail or pcrsonally of W. G.
Chaffe. Owrego, .. Y.. Who secures positlons

##  <br> From Illinois.-Willianison county is iu the

 southern part of the state, fifty miles north of Cairo, 100 miles south of St. Lonis. Marion is the county-seat. The western part of tbeconnty is mostly prairie; the easteru, timber county is mostly prairie; the easteru, timber
aud some brokeu land. We can raise all kinds aud some brokeu land. We can raits and all linds of farm products. We need more enterprising farmers than we have. Any one wishiug to locate iu a good country Improved iand sells at from $\$ 10$ to $\$ 30$ per acre, mid land from $\$ 2$ to $\$ 5$ per acre
Creal Springs, Itl.
Fron Florida.-I came here from Iilinois, six years ago, and we certainly have the love-
liest country in the Union. It is yet compargtively a new state, oniy partially settled up and has lots of room for new settlers. We
hase had no frost yet this winter. All but the hare had no frost tender regetation iives unluurt by the old all winter. Stramberries will soon begin to ripen, and will last till June. Oranges are
now going to market, and will coutiuue for wo mouths yet. Now is the time to piant Land cau be had very reasonable iu this connty. We have three railroads runuing through the county, aud another one building. Also
two navigable rivers. A man needs but a few acres here, as he calu farm it all the year Ocala, Fla.
From New Mexico.-We are in the footbills ou the easteru side of the Rocky mountains,
and of course the face of the country is somewhat broken, but very weli tilled and pianted to the right kind of
crop will produce from 850 to $\$ 250$ as sure as crop will produce frest time comes. Ail vegetables adapted to a high altitude grow to perfection, aud find hat engage in their productiou. To give some idea of the various productions, I will give a few items: Turnips measure from 25 to 30 15 to 20 inches; cabbages weigh from 10 to 35 pounds each. Beets, carrots and all root crops largely for market, and retail at from one to two ceuts per pound. The water in the mouutaius is as fine as can be fonnd in North
America. Fish and game of various kinds abound. Many invalids resort to the celebrated Hot Springs aud mouutains. and are re-
lieved aud cured. The country is sparsely settled, and there is yet. some government land open for settlement and other lands for sale to settlers. Fine pine, spruce and oth
tlmber is pientifui, aud lumber is cheap. Rociada, New Mexico.
S. L. B.

From Ransas. - Rush couuty is situated ear the center of the state, and is settled with the best class of citizens. It has excelchurcbes, good water, a healtbfui climate and a prosperous and contented people. We had good crops had boomed this county to its highest notch, and our farmers ran headlong in debt, mostiy for machinery, which caused bard times. This year farmers have raised pienty of corn, oats, wheat, potatoes, etc., and that our county produced over one million cents. Corn is 20 cents; oats, 20 ; potatoes, 50 ; from 85.50 to $\$ 7.60$ per ton for coal. Horses are cheap. Land is cheap at present, but will not be eheap long. There is no goverument land to take. My advice to young meu who have a invest it in a home on the western prairles. years ago with nothing but clothes in my years ago with nothing but clothes in my

trunk, and now my half section is worth $\varepsilon 8,000$ -not much to crow over, but can say it is a up till Christmas. Our farmers are talking of starting a Farmers' Aliiance here, and I hope It will be made a success. It seems to me that | the farmers are the hardest class of people to |
| :--- |
| W. $\begin{array}{l}\text { W. . Y. }\end{array}$ | get united.

McCracke
From Pennsylvanla.-Westmoreland is one is a very large couuty. It is hounded on the north by the Couemaugh river, the river of past slx months. Many of our littie towns along this river suffered greatly from the May flood which destroyed Johnstown. Aluong these towns might be mentioned New
Fiorence, Bolivar, Bairdstown, Livernore and others. More than four hundred and fifty dead bodies were found on the Westmoreland tiveen Biairsvifie and Bairdstown is a one-span, iron bridge nearly 300 feet wide. The Chestnut Ridge and Laurel Hill mountains pass through this county. Many stone quarries have been
opened on the former ridge. The stones from these quarries are shipped to many of our
large towns and cities, to be used in making
streets. The blockmakers in these quarries streets. The blockmakers in these quarrie
wild turkeys are still found on these ridges. This is one of the richest counties in the state; are imported from Engiand and other foreign are imported from Engiand and other foreign
countries. Our cattle are fine, too, but not so much attention is paid to tizem as to iorses. Our county has hnndreds of coai mines aud coke ovens, and mining and the burning of sauds of men industry whici employs thoucovered in nearly every part of this great county, and but few of our towns of any imaud light; stationary eugiues ali over the county use gas for fuel. Many glass
and steel plants are springing up all along the lines of our railroads, which employ many men, hoys and girls. Our laud, in some
places, is heary limestone clay, which produces well of the grains, such as wheat, oats, com, rye and buckwheat. Our markets are
good, there being a demand for ali kiuds of farm produce. The crop of fruit thls year was not as good as usual, but we have all we need for present use. Onr native-born citizens ple. our schools are good, and are under the supervision of a county superintendent who has the welfare of our young people at hear county, and if chiidren are uneducated it is the fault of the parcnts. Our churches are fine edifices, and are well attended. We have a class of foreigners about our coke works that give great trouble to peaceable, law-abiding citizens. Persons wanting employment can we have many tramps, it is their own fault. Strikes are the curse of these sectious. The nen want big wages, and yet when they get them they are not satisfied. The great Pennsylvania Ceutral railroad passes through this county, carrying thousands of passengers etc., over its lines, every day. Land is very high in price, especially about the steel and glass plants, and land orners about them bave made "fortuues in a day," as the saying is. Good farming land near flourishing towns can he bad for from $\$ 50$ to $\$ 100$ per acre. We have
good and bad farmers. The careful farmer good and bad farmers. The careful farmer
makes money slowly, to be sure, hut he makes makes money slow, it and lives well, keeps his farm iu good repair, and is contented; but the indolent farmer makes no money, runs in debt, lets his farm decliue in value, and is eternally growling about hard times. Farms that are run by this cheap, and these same farms can, by judicious cheap, and these same farms can, by judicious
care and the use of lime and the commercial fertllizers, together with clover, be made, in a ferw years, good producing farms. Capital properly invested brings in large returns. Speaking of the rapid growth of towns, we will instance oue ; it is Genette. Only about two years since there was only a farm house;
now oue of the greatest glass plants in the world is established there, having cost over seven millions of dollars, and a city has sprung up as if by maglc.
Blairsville, Pa.
Fron Arkansas.-D. B. W. "takes issue" with me in regard to the fertility of the soll of the Grand Prairie reglon. Thls gentleman IS82 to 1884 an experience of two years-from 1882 to $1884-1 n$ the soutb-eastern portion of
the Grand Prairie couutry, which is not regarded as the most fertile portlon. But even to the residents of tbat locality it must seem that D. B. W.'s unfavorable contribution is inspired by some unpleasant recollection other than noufertility of the soil, for the settlers of the prairie regions adjacent to SL. Charles and Dewitt, although from twenty to thirty miles from a railroad, and consequently unprovided with good markets for their fruit, grain and steadily adding the improvements that must come to make any neighborhood solid and substantial. But the past five or six years adapted to the raising of corn, wheat and oats. A wonderful and rapid development has been years ago. It is not claimed for Grand Prairie that as a corn-growing sectiou it is equal to hllinois and Iowa; yet wherever the fields have been properly drained and weil tended, quality, and the corn does not fail to "shoot the tassels" nor to mature well wherever the
farmers have been sufficientiy industrious to put their fields in such sliape as the Illiuois or Iowa farmer would think essential for a good crop. Now, as to growing cotton on this
prairie, it is now well understood aud has been thoroughly demonstrated, that the prairie produces as largely as the timber lands, and of
as fine a quality, when the land is put in proper shape. In brief, the fertility of the soil of Grand Prairie is not now questioned, and to
substantiate tbis we luave fine fields of corn substantiate tbis we liave fine fields of corn, excellent quality wherever tried by farmers giving the crops a fair chance. Some of the older farms are now raising fine timothy, and better thau it does here. So you wlll see that the farm the
In regard to fruits and vegetables, we clain this to be as fine a frult and truck farming
country as there is in the Union, aud it is
surely destined to become a veritable paradise for the truck farmer. But in this the farmer.s work must be tempered with judgment. Fruits adapted to a northern climate whii uot Fruits adapted to a northern chmate whi uot
often thrive here, and the horticulturist will find, if he is not wlining to accept the experlence of others, that ine will make many falivarieties and methods. These things are be discussed at length here
The question of drainage is now becoming a very important one here, and is generaily con-
sidered fully as necessary to successful farming as it is in the older nortinern states, altbough the prairie lands inere are rather more roiling than in those portlons of the uorthern states where tillng is used so extensively, but
the ralnfail is greater here. We wili admit the ralnfail is greater here. We will admit
that we have some sicismess here, and that it is priucipally caused by malaria; but the sam can be said of almost any new country, and not half so much sickness of that kind here as tbere was iu Olifo, Indiana and Iliinols as tbere was iu Ohio, Indiana and Ininois
when those states were new. Diphtheriaand typhoid fever are seldom heard of inere, and people and poor whites, and the wonder is that there are not ten tlmes as many cases of comfortable surroundings of a great many of these families. To be sure, here, as in all new piaces, many people, like D. B. W., get sick, or
are afraid they wili get sick, or something happens, and they, seek otiler piaces where, per-
haps, the climate may not be too hot for tilem, or other conditions too risky; however, in regard to the portion of Graud Prairie of which I wrote, I ciaim all that I wrote as truthful,
and, if desired, I will substautiate it by reference to a score or more of the leadlng farmers and gardeners of this portion of Grand
Prairie.
R.S.G. Ulm, Ark.
Fronf Northern California. - Shasta county is on the forty-first parallel north 100 miles from the oceat. There is probabiy not a quarter section of vacant government land iu California that has not been examined and rejected by intending settlers. There has climate that where there was anye ciance to utilize the laud it has been takeu, and eastern people should be vcry cautious about leaving after government land in this state. It is folly for a man with a family to attempt to make a start in this couutry with only $\$ 500$ in money. It might be different with an able-bodied young mau, but no man with a family
attempt it. Flour is $\$ 4.50$ per barrel ;
to 10 cents per pound; coffee, 18 to 25 cents per pound; beef, mutton and pork, 6 to 12 cents per pound; work horses, $\$ 30$ each ; vegetables are cheap, generally ratsed by a few Chinese gardeners, who supply the white population; chickens, $\$ 4$ per dozen; eggs, 20 cents per dozen; unimproved, brushy land, $\$ 5$ to $\$ 20$ per acre; improved lands are from $\$ 10\}$ per acre up, accordiug to improve $\$ 18$ and $\$ 20$ for rough and $\$ 35$ per 1,000 for dressed. Orchard trees begin to bear very young. I have seen fine peaches picked from trees sixteen months old, but the first paying crop is the fonrth year. It is a common thing to see other products growing between the rows of trees, but that is regarded by imany good horticulturists to be detrimes and trees
trees. It is customary to set vines and on land as soon as cleared. Probably the most profitable fruits to set out are prunes
and peaches of drying varieties. It costs $\$ 500$ a car to ship green fruit from here to New York City, while dried fruit can be shipped for $\$ 180$ per car, and it takes six pouuds of green peaches and aprlcots to make one of dried.
The prices for dried fruit are much better than for green fruit, when the relative risks are considered. People who wish to rent farms should come in September; with other people, Nine tenths of the people in this county are white Americans from the eastern states, There are niuety schools in this county
average length of schools, eight months ayerage salary, $\$ 60$ per montí; board, $\$ 4$ per veek. We have two grades of certificates fo the former for two years and the latter for four years. In examiluations for primary grade certiffates, teacbers inust be examined in writteu arithmetic, grammar and composition, spelling and defining, geograpiyy, readIng, mental aritimetic, United States listory, entomology, oral reading, metiods of teach-
ing, penmanship, physiology and hygiene, industrial drawing, vocal music, school law civii government and book-keeping. A gen-
eral average of eighty per cent is required for aral average of eighty per cent is required for ertificates must be examined in the following additional branches: Physics, algebra aud English literature, and to secure certificate must make a general average of eighty-five per cent. The religious privileges in this Methodists and Congregationalists have their
regular services every Sunday. Thls part of
tine conntry has an clevation of 500 fect above the conntry has an clevation of 500 fect above
sea level and has neither snow nor fogs. As to heathfulness, Dr. John Fifc, in his reporton the medical topography and meteorology of tbis and the sky almost cioudless. The degree of warmth at night is such that discom fort from cold is never experienced. There being 110 rain or dew, is a fact of very great importance spend phthisical invalid, euabilng him to this, as mucil as to auy other fact, I attribute the great benefit dcrived by many persons
who have sougit relief here." Dr. Win. D. Clark, of this town, says: "For eatarrhai afnot be equalled. I can trutifully sáy that matarla can oniy be found along the Sacramento river bottom, or in iocalities where
water stands, keeping the soli damp the year around. Maiaria is dependent npon two eou-
ditious; namely, warmth and moisture. The iand in Cottonwood valley is a red, sandy to the development of this much dreaded poison. Physicians in Shasta and Teliama counties seldom have a case of astluna to
treat unless it is oue coming from another have aimost entirely recovered after a few warm and dry; the winter months are mild and the change from fall to winter and from winter to spring is so gradual that the human variations in readlly accustom itself to the freedom from dust here is also a great advantage
tions.
ons."
Cottonwood, Cal .
Have you seen the 5-A Five Mile Horse why not? If you have a

THE CASH PRESENTS FOR TRIAL SUBSCRIBERS.

Agreeable to previous annonncement, the
coutest for the prizes, amounting to $\$ 500.00$ coutest for the prizes, amounting to $\$ 500.00$
cash, closed December 1st. The following are the names of tbose who sent the largest lists of trial subscribers and secured the prizes

## The first present, $\$ 100.00$, was sent to <br> M. C. bogart, Fremont, Nebraska He sent 556 trial subseribers

## The second and third presents, $\$ 50.00$ each

## EVA O. MARLETTE, AckIey, Lowr

mrs. W. H. KeliogG, Lawton, Mich.
The next 4 presents, $\$ 25.00$ each, were sent to
Mrs. A. M. McMichael, Cumminsville, Ohio For 104 triai subscribers.
W.F.Newcomb,Brooklyn Corners,Nova Scotla For 004 trial subscribers.
H. H. Loth, Wapakoneta, Ohio Ella Jones, Wichita, Kausa For 88 trial subscribers.
The next 10 presents, $\overline{\$ 10.00}$ eacb, were sen
Bina $M$. Johnsou, Bozemau, Montana,
For 80 trial subscrlber's.
H. M. Reynolds, Kalamazoo, Micbigan
Mrs. H. M. Reynolds, Kalamazoo, Micbigan
For 80 trial subscrihers.
Edna L. Thompson, New Cassei, Wisconsln
Edna L. Thompson, New Cassei,
For 60 trial subscribers.
M. E. Hitcbcock, Bethany, Connectlcut, For 56 trial subscribers.
Irs. Fannie Reyuolds, Llnirood, Ohio, For 48 trial subscribers.
Mrs. C. F. Chase, Waltham, Massachusetts, Eva Coliyer, Marion, Kausas For 48 trial subscribers.
Mrs. Eliza A bbott, Hamerville, Ohio, essie Longnecker, Eaton, Bessie Longnecker, Eaton, Mary A. Winn, Viola, Illnois,

The following persons sent the twenty nex

Handsome and valuable preminms are stil offered for clubs of 3 -months' trial subscribers offers and notice the liberal terms. It is very easy to get up a club of trial subscribers, at

## OIIt firtside.

## MEETING.

bon the Many geare have floated by
Siuce we parted, she and I Now together here we stand,

I can hear her trembling sigh
See the sirectness in her e
Silently I hold and press
Silence thand with tenderness.
Who revent the mystery
Hidden between loring eyes,
Burniug bands, and answering sighs?
-Harper's Magazis?
A GHILLD OF NATURE
 chapter XI.
fotent plea


He hill-slopes were aflame with gorgeous autumn
tints; the buckwheat fields were white with their ripened offerings;
the blue of the summer the blue of the summer
skies was waxing pale and gray; the few town tourists, who had pen hill upon which the Uphams had choseu their
temporary home, for no hetter reason than that its
rom nelghbors had recommeuded it strougly to Una's highly-excited nerves, had loug since ceased to annoy them hy "stopping in to rest," or to ask the way, or
to offer to purchase the hospltality which the Uphams would hare thonght it a crime to sell. It was growing "really dreary" up there in the
mountains, and Mrs. Upham had asked Mr. mountains, and Mrs. Upham had asked Mr. less asperity, "how long she was expected to perchlike
fastuess?" "Until Una expresses a deslre to leave it," Mr. Upham rould sas sternly, in response. "You came well-nigh killing fier iu torsn, and now that I have asserted myself for ouce, I
mean it shall be for all time. For Una's sake, here I stay if it be until doomsday." "I cau't see," sald Mrs. Uphain bitterly,
when the subject of their removal came up when the suhject of their removal came up agaln, "that your experiment has proved a
shining success, so far. I uever saw her looklng worse."
"She don't look any too well," said the old farmer, sighiug profoundiy.
He had just come in
He had just come in from making the
rouuds of his sterlle little farm, and lis rouuds of his sterlle little farm, and his soul to the broad expanse of the fertile acres to the broad expanse of the fertile acres
he had sacrificed for Una's sake. He had found Mrs. Upham reading a novel, os-
tensibly. In reality. she fiad heen gazing out the window at the rugged laudscape, which eye of an artist. But, then, Mrs. Upham was not an artist. A moody sileuce fell between hnsband and wife for a second or two. She hroke It petulantly
less serpents and childre says about thankUpham? Dear, me, before I was married I had my Shakespeare at my tongue's end. But if some women had gone through with what I have sinice then, they would have forgotten
the very alphabet by thls time, let alone a lot of rubbishy 'poetry. What's the quotation, Mr. Upham?

I believe he says something, somewhere, about a thankless chlld being sharper than a serpent's tooth," said Mr. Upham, coming
lamely to her assistance. "'That don't souud exactiy right elther, but I suppose it as near right as we are likely to get
it hetween us. Mercy "" shc drew her shaml closer up about hershoulders, "how dismally that wind does howl! The idea of rational human belngs perching on a mountain, slde, Though we certalnly can't call her as sharp as a serpent's tooth, forafter all I've done for her and all the money we have spent on her, she is nothing but a sllly child of nature aud a
thankless one at that. Oh, that mind. Do jou suppose wC are golng to have a storm, Mr. Uphan?
"I sloould not wonder if we were, but not be-
fore ulghtfall. Where is Una?" fore ulghtfall. Where is Una?"
"Dowu at Mrs. Bryaut's cabin, as usual. "Dowu at Mrs. Bryaut's cabin, as usual. those forlorn childreu, passes my compreben-
sion." Mr. Upliam, alway's ready to champlon Una when possible, "and teaching those clifldren
has seemed to arnuse Unle immensely. I'm glad site's liad the diversiou." "y daughter's dally companlons: We have come to a high estate $l^{\prime \prime}$ Mrs. Upham's volce
was full of disgush.
"We have come to a bigher estate than when
we had the hushand of that suicide and the We had the hushand of that suicide and the companion." Mr. Upham had become a master of retort, recently.
"I will always maintain," said Mrs. Upham, stuhbornly, "that Leonard Heytrood was, a heart, a good man and a gentleman, hut he is not the first man that was ever led astray by a wicked, designing woman. - Dearme. What
an aristocratic-looking mau he was. I think an aristocratic-lookin
Mr. Upham got up in disgnst, and taking his hat, started down the rocky pathway in direction of the liny cabiu Where Una had in children with whom she had come iu coutact so strangely.
"Let me do something for them, papa," she had pleaded, on learning of poor Maggie's death. "I know that poor mother would be come fere and take care of our millis and but ter. You will like her, papa; she is rough, but bonest."
And Mr. Upham; casting about eageriy for
every harmless diversion possible for his every harmless diversiou possible for his darling, whose languor and pallor wrung his
tender heart sorely, had written for the woman on Tompkins square and she had come gladly. It was an after-thought which took Una domn the hill-siope every day to in
struct the grave-eyed boy aud the struct the grave-eyed whom she had chanced upon so accidentally, that morning in Tompkins accidentally, that morning in Tompkins
square. As her father said, it had been square. A
diversion.
She liked Mrs. Bryant, too. She found her, iu her homely way, lnteresting and instructive. gle's misforturd keep her off the topic of Mag was not always possible to do, she proved her self a mine of folklore. She had failed, this gray afternoon, of suppress!ng her hostess.
Perhaps it was the howling wind and the
"Did Fou ever see her?" Mrs Bryant asked in au awed undertone.
"Never. They say she was very heautiful and also rery miserable."
That "uever" was nttered in good faith na had no means of connecting the pale, of manner, who liad come to her school-room liat day, bemoaulng the loss of a drnmmer over, With the opulent and beautiful Miss Dash rood, nor had she, happily, the remotest dea that it was by reason of an iusane Miss Dashwood had lured Leonard Hevwood Miss Dash wood had lured Leonard Heywood and hopelessly fur her toils She was, all un consclonsly, meting out a sort of retributive ustice in befriending Margaret Bryant' mother and children.
"I think it is golng to storm," she said presently wrenching the conversation into a different groove by force, "and I am afraid i will be so cold after the storm that mothe will be wanting to go back to town. What will you and the children do during the winter,
Irs. Bryant? I hate so to go away and leave 5ou.
The old woman was husy paring and cutting up apples to dry. She smiled grimly into the sweet, questioning
"Don't you go to worrying over us, Ni. am. We'll just stay on where we are You know I'm used to roughing it. But yonder's the old gentleman. I guess he's come to scold me for letting you stay down here so late You've beeu a great comfort to me, iny dear. "We'll have some more talks about Raf and Lncy before I go," Una sald, rising hastily and drawing the hood of her cloak over her head. "I always save papa that las stone, if I see him in time. It's a real jump-

## ing off place.


"They are Mine! They are All You Have Left Me, aNd I Would Kill Them Before
You Should Take Them From Me." hrooding storm which had quickened Mrs. Bryant's bitter memories to the point of utter-
ance. Una had been offering her well-worn ance. Una had been offering her well-worn
consolation. The old womau turned upon her peerishly
"Yes, miss, I know, I know. She said he Was her hushand and the father of her chil dren and that I must forgive him; hnt tha was not saying he did not do it
"She sald all that she had the strength to
say, Mrs. Bryant, and you know it was say, Mrs. Bryant, and you know it was finding of that empty knife-sheath in your poor Maggie's satchel by Miss Dashwood, hat
convinced the larwers it was a sulcide. For the children's sake do try to forget." "Miss Dashwood!" The old woman's face darkened at the sound and she ground the name out between tight-clinched teeth. Yes,
slie stood by him. It was her father got him off. Oh, I could curse them hoth-"." hand as She raised her hrown and wrink-led hand as If to call down heaven's maledictions on the woman whohad wrecked her child's lappiness. Una leaned over, and laying a gentle
hand on the uplifted one, placed it softly upou hand on the uplifted one, $p$.
"Hush! She is beyond the reach of earthly "Hush! She is

## "Dead

"When? How ?" The glowlng hatred that, but a mon sunken eyes and withered cheeks aflame, was
swallowed up, temporarliy, in eager anxiety for Uua's reply.
"She was found dead in her chalrin her own parlor one evening, nearly tro months ago. The papers say that her pliyslcian had heen presume she tonk an overdose hy accldent." "Two months ago, and you never told me. Her volce was full of reproach.
"I have never voluntarlly introduced jour trouble into our talks," Una answered readily. "Her name always excites you so fiercels. I dou't know how it came up just now. Bu
now it is all in the dead past"

Bryant watched the conple, as arm in arm they toiled upward, towards the cottage wher the lamps were already alight, until her ho tears shut them from riew.
"I had a daughter, too, once. And she wa as pretty and loring as that one. But there' none to link arms with me, now. None to
save me that last stone.'" Then she remembered that Rafe and Lucy were still abroad. She knew they would he spoils, hirch bark and the wasen berries of the wintergreen, and flaming peunants of sumach, but she wanted them then, right then, while the wind was howling without and her hear was heary; heavy within her. She turued her eyes in the opposite direction from would cone hack to l:er that way. Sh started hack with an exclamation of terror There, coming towards ber, with a llttle Leonard Heywood. The old woman sprang to wards hlm with the cry of a wouuded animal "They are mine-they are minel They ar all that sou've jeft me, and ld kill them he fore you shonld the then you mean, ho
little hands?"
He did not answer her. He was standing and his cheelss fle the, with bis head bared haggard. That deb. He looked thln and sustained him through many an ordeal, had forsaken him forever, and in its stead was written new lines of gentleness and humlity, that could not be declphered by the "Send the chlldren away," he sald quletly "I want to talk with you, Mrs. Bryant. I liave not come to harm them or you
Mrs. Bryant
Mrs. Bryant made a flerce gesture towards the only other room the cablin contalned withered hut in ling under his arm and disappeared promptis.
"I did not come for them," Leonard Hey. Wood sald, seating lilmself nnasked, lu the
chair Una had vacated. "I did not even know where you had talsen them to. Of coursc, you know that I have a legal right to them.

Yes," with a painful gasp.
But hase no desire to exercise it, at am going abroad. I sliall they ueed me. I perhaps. When I come back they must come to me to be educated. But that possibility is cears off. I wronged their mother-I will money at your command for their shall leare honey at yourcoma lor use. 1 am very tir
coffee?
Mrs. Bryant rose mechanically in response to this request. She scarcely recognized in his pallid, quiet man the light-hearted lover her Maggie, nor the wretched, shrinking murder! The man seemed to have goue through some flerce ordeal, out of which be had come altered in a manner that alinost put bim heyond recognition. She stood for a moment gaziug at him sternls.
"Wlat did you mean by sasing you did not oven know where 1 had taken the chlldren "Bhe asked suspiciously
"Because I did not know
"Then That brought you here?"
"I am looking for Mr. Upham. Rafe tells "Mr. Upham? What do you want with the "Mr. Upha
old mau?"

## "Well, then, Miss Upham

"What do you want of her, Leonard Heywood? Another heart to break and throw in this world yet with those black eyes and that oily tougue of yours?
He winced under the lash of the old Toman's tongue. He sat motionless, almos apathetically listening to her. He had wrouged her too deeply to show resentmeut. "You are Margaret's mother, therefore privileged- I do not care to invite your
mockers by trying to tell sou what I have suffered and do still suffer when I thiuk of the maduess of the past tro years of my life. am a of justice. To undo, rather, au act of great injustice. Itlint she will he glad to see
Margaret's mother fooked him searchingly in the face. It was hard for her to gire credence to anything which fell from the lips that onrevrayed her gir. Sed belief this time.
"If you've come to do her good ineany form or slape," she said slowly, "I'li help to hurry soll forward, for she's been the angel in thls since the good Lord sent her to pray hy my dying Margaret's hedside.
Then she went heavily out of the room leaving hlm with his head buried in his foided arms.


E short, dull after oon closed in sud were all lighted in the cottage on the generally placed ne in every avail ble spot. Any say, to make things look a degree les ain down immedt ately on .getting ack to the house. She was far from stron and the upward climb from Mrs. Bryant ambile. Mr. and Mrs. Upham sat mutely he fore the crackling wood fire. Not even by spoken word would they risk slortening the sleep sue was taking. She waked of her own moaning winds some moments before she called softly
"Papa."
The old man went towards her eagerly
"Yes, my darling."
He dorn oy me," slie sald imperatively. He brought a chair and placed it close enolto to hair. She put up one of her thin, white hand to pat his w
musingly:
"Poor, oid papa! It has been a fallure al the way througil, basn't it?"
"Eversthing-I-the Uphams - city Lifeverything!"
sot jou, my rosehud. I'm a failure, Unie stippose I was born a failure, and we didn aut I won't fet sou call my girl a failure."
"Wis, papa, I'm the worst fallure of the lot If it had not heen for me, yoll and mamma would have been happy on the old plautation Here Wrs Upham Jolued in converstion mewhat tartly from where she sat close up to the hlaziug loss
Una, speak for yourself and rour father
am but the victim of your caprice. I could "Papa, if mother wishes it, let us go back to-
mornow. It does not matter lu the least where me stay. I thonght when I asked you to stop here in the mountains, so much nearer to
God, so far away and above the wicked peopie I would be happier-but
Und yon are not, ny sweet?"
"No, no, no that she was trying to hide with one blue-velned Mram's wretchedncss broke all bounds. He bent over her memornngy. your
MAy swet, you have never yet told your
ather what gave yon such a quiek disgust for ather what Yo
cltylife. Youe always inn theoff with some
other tine? Hasu't the tine come yet, daughter?"
"Not yet. Some other tlmo-soon, may be, father."
Slie rose, suddenly, on one elbow to ask him feverishly:
"How much does it lack of being two years, father, since we left the old place?",
"Two ycars tonlyt dearie. Mother and I were just talking about it." second; then. almost with a sob: "Oh, that
dreary, moaning wind. It is like the wail of
a lostspiritover dead iuman hopes." a lost spirit over dead human hopes."
"It is not overly gay iu the moutains at
gis It beglns to look sort of dreary. The leaves are falling, you see, and the gray rocks show
np too plain aud bare. Things look sort of
dead outdoors." "Yes, it is growing dreary, everywhere!
Things look dead-every where!"
"Oli "Oh, nol No, indeed-not everywhere.
Things are stlrring on the old plantation uow,
Cotton pleking and fodder puling and gin Cotton pleking and fodder puling and gin
meddlngand all the rest of 1 t." There was a
Wistul attempt at gayety iu the old man's voice.
"And the morning-glorles are climbing all
over the ripened coru," said Una, wilh anover the wistfuiness; "aud the red trumpet
swowers are waviug along the hedge rows.
flo Papa. Whenever I close my eyesk elderberties, and-oh, dear me!" The words died away in place, Unie."
"Poor old papa, and for my sake you left it all"Never you mind me. Just you get real
"Nrong and rosy, my pet, and I wou't care
where I Where 1 rosst. At that moment the little famlly eircle was
brougt to its six feet slinultaueously, and its
six eyes were fixed iu asionislment inpon broughs were fixed iu aslonishment upon a
six eyes who, eutering the room withouteven the
mant whe ceremolly of a knock, dumped a large valise
ont the flor and said, with cheerful ease of
voice and manner: "There we are. And if you don't believe
It's alft, try It yourself. Good eveulng to you
alli", "Good evening, sir", responded Mr. Upham
With more emphasis than nere liospitality demathded. "What will you have?" from the
"Pay for lugging them, traps np fred the man, bottom of the motutaiu," answered the man,
deposiling au overcoat and walking-stick ou top the valise.
"Bur. liney are
"But. they are none of mine!"
"Did anybody say they was? Might your name be
"It miglit, but it is not." Mr. Upham glared
wrathfully from the cal wrathfully from the calm visage of the
montalneer to the luggage he bad deposited
on the floor. on the floor.
"Hupplsh-Upplsh-Duppisi?
"U"
"pham, goose!" from Mrs. Upham, angrly. goose. I was ordcred to fetch them traps up
bere by, sundown, aud I just missed it by two bours." ordered you to do It?"
"Wlom as lad the best rig
"Hlm
 Here Mrs. Uplıam's eagerness grew quite uu-
controllahle: "But who was the owner? What did he
look like and what dld be say? Are you cerlook he and you to brlng them to thls house?",
tain he told
"Just as sure as am that you are slauding tbere clatteriug so 1 can't get a word 1 n edge-
ways." "Go and tell your story," said Mr. Upham
"Go on lmperatively," " young gent stopped at the
"Last night a youn porter at, and was for coming straight on here, until we conviuced him it
would
 this morning and then he set off brisk and
early. When he left, le said if he wasn't back
at the taveru by four thls afternoon, I was to at hit taveru hys after him.",
felchis thing the man never came
"But
"But the man never came?
"No? Why, it aint two hours' walk from the
Iountain Rest House' to this here perch of "What can it mean?"
The Unlanms looked wonderingly at the
porter and at each other. The moutaineer scratched his head reffectively:
"I guess it means that he lost hls way. It
won't be particularly folly sleeping out in the "oonds to-night." Leonard Hey wood!" Mrs. Upham clasped her hands tragically. Her ad-
miration for that reckless young aristocrat Was not yet thoroughly subdned. that young trunk, said the mountaineer,
turning the valise briskly about until Mrs.
Uphan's eyes rested on its owner's uamc. She read it contemptuousiy
"Nobody, after all, but
Feuton Cooper!',
Una started towards the man, with cbeeks "Fentou Cooper? Lost in these mountains? the men! Father, he was coming to-me-my
love-my love! Find hlm, good nan, you klow the mountain."
Mrs. Upham took her angrily by the arm.
"Una Upliam, are you loslig your senses? Is my daughter gollig crazy over a drummer? "Let her alone," said Mr. Upham sternly,
"Come, my man, we've got to go hnnting,
dark as the niglit is. We,ll have bim.here be fore supper time, Uitite. Noul, my man, twen-
ty-five dollars for this nlght's work. Lead tbe The sturdy old farmer had been struggling
into his overcoat and gloves whlle talling The mountaineer, spurred to an unusulal de
gree of actlvity by that dazzilng offer of
twenty-five dollars, led the way briskly. Una Hung herself moaning and shlvering on the
rug hefore the flre. Mrs. Upham stood over
her, quite too mach alarined by her pallor and agitatiou to give vent to ber overwhem oning
indignatiou. Into this perturbed presence indignatiou. Into this perturbed presence
the dull-eyed waitress, bewildered by this un-
 wood with the barren announcennent:
 strech heanhing against the mantel shilf, whllite
stood leand
and trembinlig. She did not once turn her eyes doward the man her mother was welcomug so
efrusively:
"Itben it was you, after all "Mrs. Upham "assying excilediy,
"It was me. Yes-madam-I-but-_"
"But bow did you find yoirself","
 'ay, thank you, and yourself",
"But you vere lost! And everybody, that 1 s ,
Mr. Uphim aud auother manl, havo gone to find you," "I don't quite understand. I have not been
inst. I came here, straight from the elty of my own free will and eliolce to make the
amends honorable, as far as lles iu my power,
He advanced fearlcssly towards Una. She cruelly from his fushed brow to hits peulieutly "In what manner ean Margaret Hey wood's
husband Rad Aiss Dash wood's iover make the amends honorable to me, for ever haviug
polluted the air I breathe?" polluted the air I breathe?"
IFe stood before her with humbly-bowed
head: "By helplng to restore her faith in the man
whotn he was baso enough to slander faisely
to the woman le loyed."
"h "And fenton Cooper. One of the truest and most incoruptible of nens."
"Is it possible," said Mrs. Upham with biting
scorn, "that you conslder it worth wour while to cllmb these rocks, jser to chant ine praises
of a poor-drummer?" of a poor-drummer?"
"Drummer ? Fenton Cooper a drummer?"
"Yes, a poor traveling grip-sack, and he's lot somcwnacre among
ihese rocks right now. Una's absurd fancy for
inim is crusbing me to the earth."

 the heavy trampling of minny feet aud exelted
rolees came to her in inflid tous. Slie was
powerless to move hand or foot 1 How crucliy


 furcd towards the door. limping towards heer
Fenton Cooper was
sen











"If you only knew," sle said tremulously
"you would not have come back to me at all "If I only kuev what?"

"Mother", Una lifted her liand commandingly, "be stin. You have no right to discus
my afrairs int this fashinn, nor slinll you call
the me one deep, holla and abor sing attachmenn
the my life for the man I trust and honor
of an 'abshrd fancy.' For a fevy sbort montos
my way ward heart waudered a way from
1t worn allegiance. I was led to believe
 anger cleared alvay from my brain, and I re-
called what manner of man it was who saved
my my life on the first second of our meeting
WThen realied his callo dignty, hls fearless
trethulness his gentle clinilngs when I was
 ever believed could love mortan man.
TTould not give my, drummer friend for all
the 4. Wnd he is worthy of it all. All the pure,
ardent, unswerving affection you have so fear-
 traveler. He is one of Now York's most af
fnent and infueltial young men. How
fould you have erred so in yoursocial esti-
mate yo could
mat?
"IWh
It was Mrs. Upham who uttered that mou-
osyllable exclamation. Then slie mutiered
 was not a drummer, and was on his way to see
Una
Un noa, be out of place. Una aud Leonard Hey
wood were left alone. sile had sunk lito chair before the tire, and buried hiler face in
ber hands. Every last inct of her nat ure
Seemed to have resolved itself into the powe
 that surrounded the cottage on every side
She knew that Leonard Hey wood was still il
the
 to her, but his voice seemed to come from aid
immeasurable distince. She heard him cal
himself
 happiness. She heard him explain unspar
ingly Ida Disliwod's hotilitit in all his
sclies and her identity with the woman scliemes and her identity
who had vlsited her that won her unspotted heart, "thrice blessed;",
slle heard him say that Fenton's coming had
 rance into which she had fallen presenty slie heard quitcker, gladder sounds
than Leonard Heywood's slowly-retreating
"Howv I have accused youn $\ln$ my heart. Howf
 hat-ir Fenton cooper were to stand hefore
me-I would tell him to his face that he was
 "You know I did"
"Ycs. Oh, my chilld, you have much to for
give me for. You have to forgive the dece give me rorticed upon you, when, eager only to
tiou I praction in the traiulng of the fresh
have young mind, anxlous to throw about you the
slender proection of one true friend amons

 take that advantage of me? Was it kind?
He smled bright1y as he asked in his turn
und ly patient oue? Did I not let you badger ne
and torture me to your own heart's content ? "You were inflitely good, wise and patien
as a teacler. To my por, patient Capers
have given have given all tine credit for what lit tile in
provement there is in me But why did you
not tell me thetruth? your name thave you conpelled me to wilnk
ihe inea of rad ominoundy. His handsome brows coutracted
"Yes, fraud. I gave my heart, all the heart I can ever glve to mortai, man, to a-peuniless
drummer-and now-", But before she could flnish her reproach,
Fenton Cooper had gathered her in a close,
warmembrace and was showering a lover, privileged kisses upon her sweet lips and
closed eyes. What arguments he used to clar himself from that grave chat
uever been made public.
[THE END.]

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NUTOGRAPH Sow (Q) HARTSHORN. $\$ 10$ PACANINI VIOLIN FOR $\$ 3.60$.




## EPSS'S COCOA



## MONEY <br> for WOMEN

Money can be earned to dress yourself and your children in fashionable clothing without asking your husband for what he can not afford, - by doing little pleasant work at your own home for the
Ladies' Home Journal You can aid your husband in paying off a mortgage, refurnish your rooms, start housekeeping. W offer profitable employ-
ment to women, and want ment to women, and want
to correspond with such as desire to make money.

Curtis Purlishing
Philadelphia, Pa .


## Ollw diturschuld.

## THE UNFINISHED STOCKING.

AY it aside-her work-no more she sits By open $\pi$ Indow in the western sun,
Thinking of this and that beloved oue n silence as she knits.
Lay it aside ; the ueedles in their places: No more sbe welcomes at the cottage door The coming of her children home once mor With sweet and tearful face.

Lay it aside, her work is done and well; A generous, sympathetic, Christian life A faithful mother and a noble wife; Her lufluence tho can tell?
Lay it aside-say not her work is done No deed of love or goodness ever die But in the lives of others nwaltiplies say it is just begun

## HOME TOPICS.

salad.-All salads should be used the same day they are prepared, and they are better if the dressing is kept on ice and not poured over the salad until just before it is sent to the table. Melted butter may be used in making the dressing instead of oil. If oil is used, it must be added slowly, drop by drop, and bef
the vinegar is put in, or it will curdle. Chicken Salad.-Take the white meat of a cold, boiled chicken, three quarters of the same bulk of chopped celery, two hard-boiled eggs, oue raw egg, one teapoonful each of made mustard, salt and pepper, three teaspoonfuls of salad oil, wo teaspoonfuls of white sugar, one hal eacupful of rinegar. Nince the chicken well, removing all fat, skin and gristle cut the celery iuto pieces half an inch long. Wix the chicken and celery together and set it in a cool place while you prepare the aressing. Rub the yelks of the eggs to a tiue powder, add the salt, pepper and sugar, then put in the oil, a drop at a time, rubbiug it well into the egg each time Beat the raw egg to a froth and stir it in, then add the vinegar, slowly beating the dressing all the time. Pour the dressing over the salad, tossing it with a silver fork until it is thoroughly mixed. Turn it into the salad-bowl, cut the whites of the eggs into rings and lay them over the top. Salmon Salad.-A quick salad can be made by using a can of salmon in place of the chicken. Chop the whites of the eggs and mix with the salad. Prepare the dressing as for chickeu salad and garnish the top with very thin slices of lemon.
Mustard.-To prepare mustard for the tahle, take two tablespoonfuls of Coleman's luustard and one teaspoouful of flour. Mix this smooth with a little cold vinegar. Mix together four tablespoonfuls of vinegar, one tablespoonful of olire oil, one teaspoonful of sugar, one tea of salt and one of black pepper. Sct this on to a boil, stirring it all the time. Pour the boiling mixture into the other, stir it well, and as soon as it is cold it is ready for use.
Every-Day Life.-The holidays have come and gone, with their joy and giftmaking, their happy bome-gatherings, and with them has gone the old year. new year is spread out before us, with its fair, unwritten pages, upon which will be recorded all we do, enjoy or suffer in its
time. We know not what it may bring to us nor what it may take away. Let us try to live our daily lives so that the lives around us may be the happier aud better for our being with them.
The facetious advice, "Always keep two bears in the house," (bear aud forbear), which is often given to young peoplt on their marriage day, would, if faithfully followed, save a world of trouble and often long years of sorrow and regret.

Your ain ills hae heart to bear;
Anither's aye hae beart to feel."
It is a very good rule for husband and wife to each resolve nerer to be angry when the other one is, or at least not to inanifest anger. If this is done, a quarrel will be impossible. It requires a strong will to do this and to be silent under provocation. Only diriue aid can give us this victory over ourselves, and help us to conquer this disposition to "talk back."
There is a great deal of nonseuse alout
the talk of "freeing one's miud." It is much better to
Govern your passions with absolute swas, And grow wiser and better as life rears away." Blessed are the peace-makers, and blessed ndeed are those who have a tender regard for the feelings of others.
It is often a source of wonder why children of professed Christians so frequently rander away from the faith of their pareuts into unbelief and infidelity. Mar it not be, not from lack of precept, but because of the daily life in the home? While we bravely and with Christian fortitude bear the great trials, the losses and sorrows of life, we often miserably fail before the little, petty, every-day crosses which come especially to every mother and housekeeper, whether she has many servants or only one pair of hands to provide for all the needs of the family. If the children see us worrying over our cares-impatient when things do not go smoothly, wheu the fire won't buru or the butter will not gather, wheu a favorite dish is broken or a cup of tea is spilled on the clean table-cloth, can we teach them beautiful faith aud trust in the Hearenl Father? Perhaps the little one tries to help mother, and accideutally spills or breaks something. dear," sars the tired moth r, "צou are a great deal more plague than help. Go away and letthings alone.' And the child goes awa. with a hurt in his heart and a thought that mother is cross. Ah, these childreu notice our every act and word, and draw their own conclusions. Let us pray dails and hourls that we may hare trength to bear the little, treng h bear the little, erery-day worries and, rexations patiently and with the Christlike spirit. Let our
every-day life show that every-day life show that
Christianity is a living truth, and God an erer-present helper and comforter.

CROCHETED HUG.ME.TIGHT.
A great many simple ways are now解 to make garments for wearing un der the jacket, or about the house, when one feels cold around the shoulders.
Procure five ounces of best Starlight Germantown yarn, and one ounce of different shade for the border; eight plain, bone buttons, one larger button for the waistband. Use a No. 11 bone crochet needle. Begin for the front with eleven chain stitches.
First row-Miss two-chain stitches nearest needle, and work nine consecutive double crochets
Second row-One chain to turn, miss first stitch, work nine double crochets using the whole of stitch. All the follow ing rows are worked the same, turning

## with one chain aud missing first stitch.

Third row-Eight consecutive double rochets, two double crochets to increas in last stitch.
Fourth row-Plain ten stitches
Fifth row - Niue consecutive double rochets, two double crochets to increase in last stitch. Work three plain rows o elcren stitches.
Ninth row-Ten stitches, two in the last. Tenth row-Plain $t$ welve stitches
Eleventh row-Eleven stitches, two in Last. Wrork three plain rows of thirteen stitches. Continue increasing on samc side of the work proportionably to the last six rows, till in working the seventyeighth, serenty-ninth and eightieth rows,
you do thirty-fire stitches in each row.
Eighty-first row - Beginning on the straight side of the work to round for the neck-one chain to turn, miss two stitches instead of missing one stitch, work thirty three double crochets, and two double rochets in last stitch.
Eighty-second row-Plain thirty-five titches.
Eighty-third row-Decrease again at the neck, and increase at the end.
Eighty-fourth row-Plain thirty-four stitches, omit last stitch.
Eighty-fifth row-Decrease at the neck, do thirty-two double crochets, omit last

Eighty-sixth row - Plain thirty-one
stitches, omit last stitch.
Eighty-serenth row-Decrease at neck, do twenty-nine, omit last one. Decrease at the beginning of each row, and omit working the last stitch for eight rows.
Ninety-sisth row-Decrease, work end.
Ninetr-sereuth row-Decrease at the neck, do ten double crochets, omit last stitch.
Ninety-eighth row-Decrease, do nine double crochets.
Ninety-ninth row-Decrease at neck, do seven double crochets, omit last stitch. One hundredth row-Decrease, do sis louble crochets.
One hundred and first row-Decrease at the ueck, do four double crochets, omit last stitch.
One hundred and second row-Decrease, do three double crochets.
One hundred and third row-No derease, do two double crochets.
One hundred and fourth row-A double crochet and fasten off. Work the other front in saule manner.

## For the Back-lake eighteen chains,


miss two stitches nearest the needle, work sixteen double crochets.
Second row-One chain to turn, miss first stitch, aud taking up both threads of previo
This.
Third row-Increase at each end.
Fourth row-Plain.
Fifth row-Increase at each end
Sixth row-Plain.
Serenth row-Iucrease at each end.
Repeat last two rows twice. Work three plain rows.
Fifteenth row-Increase at each end.
Sisteenth row-Plain.
Serenteenth row-Increase at each end. Tork three plain rows. Work proportionably to the last six rows till in workiug the eighty-third, eighty-fourth and eighty-fifth rows you do serenty-four stitches in each row.
Eighty-sixth row-Decrease one stitch at eacl end. Work seven more rows the same.
-inety-third row-Decrease, do twenty, turn and work for shoulder, shaping to correspond with the shaping of front shoulder already done. Work other shoulders in the same manner. Sew shoulderpieces together. Take the border color and work three rows of plain double crocliet all around the hug-me-tight; in the second row of this make eight buttonoles as you go along, right-haud side of front, by chaining three and uissing three.
Waistband-With color used for body of garment make twelve chains, miss two stitches nearest needle, work ton double crochets. When four rows of ten double crochets are worked, divide ill the middle to form a button-hole, do four rows of five stitches, then do the other five stitches for four rows, and finally working all across
backward for the length required for belt. Edge all around with three rows of doubs. crochet with color.

## PANY.

The question of how to serve a dainty tea for a small company of eight or ten has been asked br a young housekeeper, so feeling it may be a query. With some one else, I will try and make it plain for all. In every bride's preseuts of to-day, table-linen and silver form an importan part. After you are married, girls, you will regret first of all that you spent so much moner on useless articles of you wardrobe, so let mesar right here to those of moderate means, sare something from that to put into table appointments wheu you go to housekeeping. Your wardrobe will get rery much out of style in six months; do uot burden yourself with tifteen hew dresses to start with, as one 1 know did, and have them to reunodel iu less than a year-or feel you have so many oll hand that you cannot in conscience think of having anything new for two or three years. But I am digressing. If to begin with you have nice table-linen, and some silver, the rest can be easily managed.
decer buy an entire set of any kind of number of years. It will go out of style and you will be tired of it in less than a vear. A half dozen eacl of diuner and breakfast plates, cups and saucers, of white Limoge or Vienna china, will give you more satisfaction than all the decorated ware you can get, though these may be supplemeuted by an occasional delicately painted piece. If you cannot think of silverware to start with-though let me say it is the cheapest, for in ten years of housekeeping sou will break twice the price of it iu china or glass cream-pitchers and sugar-bowls, and teapots-then provide glass or china sugars and crearuers. The patterns in both are very lovely now. The prettiest are in Japanese designs, or the dark blue or any of the fancy designs. These things need not match any of your tableware unless you choose. Low, glass dishes or china ones iu long, narrow shapes, or square ones, are now preferred for sauces, and fruit and reoetables; four platters are necessary-two small ones, alike, for cold meats, a larger oue for carving, aud a larger still for turkey or melon
To arrange your table for a small company, first lay the cloth perfectly straight, in the center place a low platter of nicely ged fowers in mass, along the center place your tablespoons, 1ying straig across the ceuter line of the table-cloth; each end a small sugar-bowl and anc pitcher on opposite sides, also a fancy
pitcher of vinegar, an individual pepper and salt, which now come in beautiful designs in silver, glass or china, and have entirely superseded the castor.
At each place lay a knife, fork and teaspoon straight, at the right hand a napkin, upon which may lie one flower, a pink, rose, or geranium leaf or any single flower or spray of flowers.- If your meats are cold, it is perfectly proper to hare the plates at each place,
aud pass the platter with a fork lying across it, or you may have the plates in one pile at the carver's place and let him help each one. If you do not have good serving, it is best to simplify matters as nuluch as possible. Unless you have good waiter, it is much more of a compli ment to rour guests to have your ow hildren perform that part. The hostess herself should not, as she should be seate? with her guests. The butter should be cut and put upon the individuals before-hand-kept on ice or iu the cool and hrought in and placed before calling. Then the dish for a further supply place upoll a side-table or sideboard. This may hold also the water-pitcher and glasses, though this could be poured also just before calling.

I am writing this, understand, for those who must do much of their own serving It is a rery pretty addition to pour the coffee and tea at the table, but allow each guest to fix it to suit himself, as it takes it right.
fiter the meat course is through, the
plates should be removed for clean ones for cake and fruit.
Rather than have so many dishes on hand, if you live where you can do so, hire a couple of dozen of plates and saucedishes to help out your own. The expense is trifling and in this way you can select prettier dishes. I think young housekeepers make a great mistake in filling up their houses with unnecessary articles. I know I did. In these days the temptation to spend money for useless bric-a-brac is a temptation lard to resist. A little colored girl called it "break-your-back," and her name was pretty true, for it breaks your back to take care of it all.
"Too much house," the Indians say "kill white squaw," and it is virtually true.
In t
In the houses of olden tiunes they used the same things, dishes, furniture and all, for years and years, taking a pride in keeping them; now the rage seems to be to clear everything out every few years. This wasted money laid up would soon accumulate to a fortune, and that is the way our forefathers got their fortunes Betitiva Hollis.

## WASHING IN WINTER.

I feel sure that among the many readers of the Farm and Fireside, some women
are to be found who do, along with sewing, cooking, sweeping, etc., the washing for their families. While it is hard enough to do the washing auy time in the year, it becomes infinitely worse during the winter month
incalculable
These winter washings have been the primary cause of many a wife and mother findiug an early grave. Call it a dispensation of Providence if you will, $I$ call it a result of hot steam from the tubs, combined with carelessness. Rather strong language, I know, but if you had seen, as I have, seemingly sensible women go from the steam-heated wash-room to the
clothes-line in the yard, and there in the face of a northern or southern wind, proceed to hang up the weekly washing withhaving taken other precaution than to pin a shawl or some other light wrap over theirheads, you would certainly agree with me that stronger things might be said. If a mother does not care enough for herself to try to preserve her health, she should at least do so for her children's sake. But the washing must be done. Certainly, the washing must be done in winter as well as summer; but why not exercise a little prudence? In the first place, the wash-room, usually the kitchen, ought not to become so heated by steam; the
outside door shonld be left open, slightly, to admit cold air, or opened wide when the clothes are being taken from the boiler. But the laundress must not staud in the draught. Then when the clothes are ready for the line, I would urge you to let the "gude mon" hang them out; true, he may not hang them as scientifically as you would, but you should be satisfied.
His hands are not so susceptible to cold His hands are not so susceptible to cold as yours are. Indeed, I think it will hurt
no man to help his wife wash when her no man to help his wife wash when
one pair of hands must do so much.
It will be better, much better, for you to dry your clothes in the house. An attic to dry clothes in is a luxury possessed by few. Now, if you do not have your clothes dried in the house, and if there is no one to assist you, then do take some care of yourself. Pull down your sleeves,
put a cloak on-a shawl will not do, for put a cloak on-a shawl will not do, for allowing the cold to strike you over the chest and lungs. Put overshoes on, wrap something warm about your head, and wear mittens of cotton flannel or white yarn, if you can use them, and tie a silk
handkerchief, or something equally close, over your mouth. I make this emphatic for the reason that it is a precaution rarely taken, and yet it is a most necessary one. When one is warm, respiration is more rapid, and it seems as though air could not be taken in the lungs fast enough through
the nostrils; the result is that breathing is done through the mouth, and the air reaches the lungs without being tempered, as it were. The cold air striking the heated
lungs will certainly bring on some derangement, aud having the mouth tied up, thus compelling the nostrils to do their
own work, cannot, you see, be otherwise than advantageous. We calnot afford to
run any risks where health is concerned. Another thing I would urge is the wear ing of woolen dresses during the winte So many women wear calico and gingham dresses, which are sure to find their way to the wash every week, making additional work. A flamel or cashnere dress, after having been worn for best until it begins to look shabby, ean often be made to do service as an every-day dress for one winter, auy way, sometimes for two winters, aud need not be in the wash, either, if one is careful. Many women who do their owu work buy half wool dresses for every day. They of course line them all through. Much of the so-called "cheap dress goods" will give as much wear as the uore expensive goods. Of course it is closely-woven goods that wear best.
One ought to study how to save wasling iu winter. A pair of sleeves made to draw over the dress sleeves, a rubber run in at the top and buttoned at the wrist, is one way to economize ; there are many others, however, if one will think them out. Elza Renan.

## THE SEWING-bASKET.

There are houses that some of us know about where the dreaded mending-basket is never empty-always buttons to sew on, always elbows to patch and stockings to darn. Where there are boys, these last articles get to be a problem, for every week the holes are worsc, and uew holes build themselves right next to a neat darn in the most aggravating way
Neither theidea nor the pattern is original, but you shall have it, nevertheless, and here it is:


Cut this out of chamois skin, or soft leather, and lay 1 and 1 together, 2 and 2 , 3 and 3 , and overhand neatly, allowing it to be just a little loose so it will not form a hard sean. These placed upon the heel of the stocking will help them very much. The stockings nowadays do not wear like those our grandmothers knit, no matter what price is paid for them. If they are fine, the stitches break; if coarse, they are so loosely woven that they are soon gone. When sewing on buttons, if you will hold the button loose and make the stitches loose, so that when you have enough thread in it you can pull it away from the cloth and wind a little thread between the button and the garment, forming a neck, you will find it will wear much better. A tightly-sewed button tears out the cloth and cuts the thread.
Elbow Patches. - It may seem too much trouble, but it will pay you in the end to make the elbows of all school-wearing garments double. Baste a piece of the material to the lining, and then put the whole sleeve above this; when the outside begins to wear away, you can readily cut around the worn part and neatly hem
down to the piece underneath. It often down to the piece underneath. It often get hid away and cannot be found when get hid
wanted.

In planning clothes for a little child, you will be surprised how it will save you to make several aprons alike, for when half worn the best of one can be taken to
mend another. It is the same with boys' mend another. It is the same with boys' wear: if you make the clothes yourself,
use navy blue yachting flannel, then one pair of pants will patch another. No kind of goods wear these days as they used to years ago, and so much cheap stuff is put out in a tempting way that you think you are being economical by buying 8 -cent gingham and 25 -cent, all wool
goods(?)-as if it were possible. Nothing that is cheap is worth your while to make up for a child going to school. There is
school. For winter, one good wool dress will last the season, save washing, and Try it and coun fort than three cotton ones. Try it and see. $\qquad$ Christie ibving.

## COMFORTS.

As the winter season approaches, the busy housewife begins to look over her stock of blankets and comfortables to see wherein the stores need replenishing. Sometimes the inventory is very discour-aging-a lot of thin, worn blankets and some ragged quilts and confortables, all too good to be thrown away, and yet rather shabby for use. "What shall I do?" says the good woman; "cash is not very plenty just now, and it will cost a good deal to buy new bed furnishing.
Sisters, that is just what $I$ thought, too, and made up my mind that wit and ingenuity must aid a scanty purse. The stores were visited, and a bolt or two of calico secured, that was out of style in figure, but of good quality; hence the price was lowered and a bargain secured. filling up with new goods, old ones likely to be out of style will be sold nearly at or
even below cost to make room for new and more salable goods.
Two or three rolls of new cotton batting were bought, the outfit costing about five dollars, with which 1 hoped to furnish five beds with quilts. At home there were
som some long cretonne curtains, faded from washing and laid aside, but strong in
texture. The cretonne lambrequins were a little more difficult to piece together in shape, but patience and perseverance accomplish a great many wonders. Some good calico sashes of worn-out dresses little girl pieced blocks for two upper covers while learning to sew on the machine.
Now we have the covering all planned for. Sey the new lining to the quilt frames, fasten the clamps to the corners, lay on one or two of the worn wool blanBaste or piu the edges to the lining, so that the surface may be smooth, put on the upper cover, pin the edges and proceed to tie as usual. Or, if you take an old
comfortable, lay it on the lining which is fastened to the frames; draw the edges straight and baste them to the lining, so that the old quilt will be drawn smooth the old ties, as they will be hard bunches that will soon wear holes through the new covering. Put a little new batting where the old is gone, or very much worn, then pin on the new cover and tie as usual.
Some use all-wool carpets that are worn thin as filling; these are very heavy, but make nice comforts to lay over mattresses and straw ticks, under the sheets-"most ones.
Wh
When making new quilts or comforts, unfold the batting its full size, puta a layer
across the quilt lengthways, then one across the quilt lengthways, then one and so on, alternating every layer until you have the desired thickness. Batting thus put on will not separate and leave long lines between the folds. In using cretonne as a covering, I think it would be best to line with calico, as cretonne is
heavy, but it will wear a long time.
Bright-colored cotton is pretty for ties, as it makes even a faded covering look attractive. And so, sisters, I have eight nice comforts-three heavy and five lighter ones-out of my stock of ragged quilts, cretonne curtains, sashes, pieced blocks, two bolts of calico and two or three new
rolls of batting to fill in the thin places in the old quilts.

## cloth rug.

This pretty rug is made of scraps of yarn and woolen goods. The center is fiftecn inches in diameter. The scallops are cut
separately; size, two by thrce. Work button-hole stitch around the edge. The tree and owls are worked in outline stitch. I would say to Lulu that I have visited in families where small girls like mysclf and larger members of the houselold thought fancy work all foolishness. I find their conversation very foolish and silly; they think of nothing but the last neighborhood gossip, etc., while others who
find work a delight can be found always brilliant in couversation aud reading,
studying the Scriptures on Sabbath days. Lulu ought to know better than to disobey her husband.
I think a sensible girl that exercises herself helping mamma has no need of
cosmetics to beautify her complexiou. And as for bangs, they are out of style; the lair looks much better pompadour. "Little girls ought to be seen and not heard." Didn't I hear soine one shouting that? $\qquad$
orange pie.
Beat a cupful of powdered sugar and a large tablespoonful of butter together until light. Moisten two even tablespoun-
fuls of corn starch with a little cold milk, and then stir it into half a pint of boiling milk; cook and stir one moment, thell pour it quickly on the butter and sugar, add the grated yellow rind aud the juice of anl orange, mix, and add one egg, well beaten. Peel another large, juicy orange, slice into thin sliees and then cut each slice into quarters. Line a Washington
pie-plate with light paste, and bake in a quick oven uutil done. Stir the orange slices quickly into the custard mixture, fill the baked crust with this, and place in a quick oven a few minutes to brown. While it is browning, beat twe whites of fuls of powdered sugar, and beat until fuls of powdered sugar, and beat until
stiff. Spread this over the pie, dust thickly with powdered sugar, and stand again in the oven until lightly colored.Table Talk.
Pleurisy Panss, Asthmatic and all Throat Affections, are soon relieved by that certaln

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## RENEW AT ONCE.


(9)w sumby gitcumon.

## the irresistible call <br> y soul is not at rest." How could it be? The heathen's helpless cry calls unto me.

They grope in deepest gloom to find life's way sin's debt to pay The life beyond death's gate brings anxious thought;
Dellerace from gullt in vain is sought.
know the mighty Christ from hearen has The incarnate love of God-his blessed Son Mine is the precious boon to tell his grace, His natchless power to save the human race. Ceaseless my rolce must sound his holy call. Wy soul is not at rest;" it could not be,

F
GOOD FOR FITS. walk out in the open air; you may speak winds without hurt ing any one or prosimpleton.

For a fit of idleness,
a clock; do this for one hour, ticking will be glad to pull off your coat the next nd work like a beaver.
For a fit of extravagance aud folly, go to the work-house, or speak to the inrinced.
For a fit of ambition, go to the churchard and read the grave-stones; they will ell you the end of ambition. The grave will soon be your bed-chamber, and the and the worm your mother and sister. For a fit of despondency, look on the world, and to those he has proinised to his followers in the next. He who goes into he garden to look for cobwebs and spiders looks for a flower may return iuto his house with one blooming in his bosom. fear, whether they respect the body and mind, whether they are a load to the shoulders, the head or the heart, the following cure may he relied on, for I had it from the Great Physiciau: "Cast shy sustain thee."

## WHY NOT AN INFIDEL?

I once met a thoughtful scholar who told me he had read every book he could which assailed the religion of Jesus Christ, and but for three things: "First, I am a man. I am going somewhere. To-night I am a day nearer the grave than $I$ was last night. I have read all such books can tell me light upon the darkness. They shall not take away the guide and leare me stone her go down into the dark ralley where arm as calmly as a child goes to sleep on its mother's breast. I knew that was not a dream. Third, I have three motherless daughters. They have no protection but eare them in this sinful world, if you gospel."-Bishop Whipple.

## BOV CHARACTER

It is the greatest delusion in the worid for a boy to get the idea that his life is o t will not be noticed. A manly, truthful hoy will shine like a star in any comnunity. A boy may possess as much of peak and live the truth that there shall here and deeper than they are apt to think is their influence. They are the king boys
among their fellows, having an immense influcnce for good, and loved and respected truth.-Child's Puper.

Bow low the head, do reverence to the old man, once like you. The ricissitudes of life have silvered his hair and changed the round, merry face to the worn visage before you. Once the heart beat with aspiration, crushed by disappointment, as yours, perhaps, is destined to be Once that form stalked promptly through the gay scenes of pleasure, the beau ideal of grace; now the hand of time that withers the flowers of yesterday has bent that figure and destroyed that noble carriage Once, at your age, he possessed the thousand thoughts that pass through your brain, now wishing to accomplish deeds equal to a nook in fame; anon imagining life a dream that the sooner he awoke from the better. But he has lived the dream very near through; the time to awaken is very near at hand; his eye never kindles at old deeds of daring, and the hand takes a firmer grasp of the staff. Bow low the head, boy, as you would in your old age be reverenced.

## A WORD TO THE TIRED.

This is a beautiful world, and God preant us to rejoice and be glad in it. We ught to make our homes cheerful. It is stonishing what a depressing influence some houses have upon you before you enter them, and after you enter themhey look so cold, so cheerless, so colorless and comfortless. It is not want of furni ture or want of means, but there is an absence of that cheeriness, and coziness, and brightness, which says so eloquently, Welcome to a home." Our churches "oo, ought to unite revence with bright ess and heartine concerning the temple of Jerusalem,
"Upon the top of the pillars was lily "ork." Yes, strength and beauty are to be in God's sanctuary; everything therein should help and not hinder, the lifting up of our hearts unto the Lord. We cannot close without remarking that there can be no true lifting up of the heart where any habit of $\sin$ is dragging down the spirit ual nature. We must be lifted up to God by the Holy Spirit, or there will be no rue uplifting of heart at all.-World's Crisis.

## DON'T SCOLD.

Mothers, don't scold. You can be firm without scolding your children; you can reprove them for their faults; you can punish them when necessary, but don't et iuto the habit of perpetually scolding hem. It does them no good. They soon ecome so accustomed to fault-finding and scolding that they pay no attention to it. Or, which often happens, they grow hardened and reckless in consequence of it. Many a naturally good disposition child is driven to seek evil associates because there is no peace at home. Mothers, with their many cares and perplexities, ften fall into the habit unconsciously but it is a sad habit for them and their children. Watch yourselves, and don' ndulge in this unfortunate and often un intentional manner of addressing children. Watch even the tones of you oice, and, above all, watch your hearts hat "out of the abundance of the heat the mouth speaketh."

## one at a time.

I compare the troubles which we have undergo in the course of the year to great bundle of fagots, far too large for us to lift. But God does not require us to
carrr the whole at once. He mercifully unties the bundle, and gives us first one stick which we are to carry to-day, and hen another which we are to carry to norrow, and so on This we might easil. manage if we would only take the burden appointed for us each day; but we choose to increase our troubles by carrying yes terday's stick over again to-day, and
adding to-morrow's burden to our load before we are required to bear it.-John Newton.

LOOK HERE, FRIEND, ARE YOU SICK?
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Coosumptiont If so, send to Prof. Hart, 88 Warren St.
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A Gin or $A$ POLND A DAY IN The CASE OFA MAN WHO HAS BECOME "ALL
RUN DOWN," AND HAS BEGUN TO TAKE

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ean get seed of widd rice from R. Valentine, Rag.Carpet Looms.-A. C. C., Churchhill,
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III. Self-threadng sewlng needies are sold by Il. Selfthreading sewing needies are sold
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Nompany Adhesive Plaster.-S. W. C. Antigo, Wis.
To three quarters of a pound of dlachylon add slaw frre, sulrring constantly. Spread the
plaster thinly, while warm, on linen or thin
Celery in Storage.-C. F. J. asks: "Can
you tell me what causes the leaves to turn yellow after the crop is housed ?"
REPLY BY JOSEPH:-Probably the roots are kept to dry; they do not supply the tops with
the required nutriment and molsture, and the
outside leaves decay. Or, can anybody give a better reason?
Early Sweet Corn. -N. L. S., of Glnclte,
Mo., asks: "Which is the best kind of sweet corn for early mirkets?"
REPLP BY JosEPH : I thlnk the Cory (or
Early Cory) eorn is the variety that In Early Cory) morn is the variety that inhould
plant for earliest, bollifor marketand home
use. The plants are dwarf, enrs of very fair sse. Ime pht siy large, forso early a variety;
sually very passabe, and the ears come in as
qually
early as any sort that I know of Sweet Potatoes.-J. H. C., of Milford, Del.,
desires sweet potato growers to tell their methods of culture, keeping, marketlng, etc.,
In FARM AND FIRESDE. Joseph wlil con-
tribut tribute an articlc on the subsect in one of the
next Issues. In the meantime we would like
to liear what ihc experienced growers amang our readers liave to say in regard to the busi-
ness. From 200 to 250 hnshinel per acre is con-
sldered a yery good yield. We have no hilgl sldered a very good yield. We have no hlgh
oplnon of plie leaves as a fertilizer for this
or any othercrop. Agrieniture.-C. A. S., Corinne, N. D.,
writes: "Can yon pace meontili track of a
histors of agriculture, beglnnlng with its
earllest times down to the beginalng of the present century?"
REPYY-Y Yon will find what you want under
"Agricuiture," in the "Penple's Library for the Farin. Home and Sclionl," for sale at this Ing one vear's subscriptlon to FARM AND FIRE-
sine se so, $\begin{aligned} & \text { given as a premlum for ten new } \\ & \text { subscribers at } 50 \text { cents each. }\end{aligned}$. Mainit for Uranges.-A subscriber of of kainit as thertilizer for orange trees that
have not yet comeinto bearlna? Also, please glve analssls."
REPLY BY Joserp :-A fair sample of kainit
contains 2 per cent inoisture, 1 per cent lime contar cent magnesia, 16 per cent potash, nnd 22
per cent sulphuric acid, beside salt, etc., all Irrespective of fractlons. For complete
treatise on use and value as a fertlizzer, read
"Agricultural Chemlstry" lu these columns. Variegated Aspicistra.-B. K., of Tingley,
Iowa, forwards leares of plant. With follow-
ing description: "On this iris- 11 ke plant there Ing descriplion: "On this iris-ilke plant there
is thlek, fleshy root at the surface of pround
simllar to fastroots, and froin this the feeding roots radlate. What is it, and is it hardy ?
REPLY BY Joser - This is Aspldistra clatior
varlegata, an ensily-cultivated and hardy follage plant, from Japan, one and one half to
two feet nigh. It succeeds well in almost any
8oll, and is propagated by suckers. The leaves are oblong, large, leathery, and the plants
stemless. Iu the leaven of this varlegated form
les. Spanish Onion.-W. H. N., of Kenton, from seed or sets? Where can secd or sets be
obtalned, and when to be planted ?" REPLY BY JoSEPH:-The imported bulb,
believe. Is grown from seed. The "Spanlsh"
onlon introduced several years ago by johnson \& Stokes, when grown from seed in the usua
wny-that ls. sed planted in early spring
gave me fine bulbs and great satisfaction for Favile, but was soon excelled by the new Prize-
taker, introduced by Mr. Maule, of Philadel-
phia, and repeatedy spolsen of in these phia, ans. This variety, indeed, is the only one
which could be planted herc witl any prospect Which could be planted herc witl a ay prospect
of growing bulbs equalin, slze and appearance
to the lmported "Spanish" ouions. Potatoes for Seed.-H. B., of Gales Creek,
Oregon, writes: "I have had the impresslon that leaving the seed ends on medium-sized
tubers ned for seed would glve me too much
vine. Wonld yon advise cutting the seed euds off?"
REPLY BY JOSEPF:-This has long been a
disputed point. Now the experimenters are gradually beglnning to find out that the seed end is the most important part of the tuber
Every cut weakens the vitality of the seed
and for thls reason we prefer to plant. if prac tlcable, a whole potato, without touching a vationl butt few eyes will grow, and these
usually start from the seed end and make very
mare large and thrifty tops, and tubers correspond
lugly. I have never yet had more top than Meeker Harrow.-F. K., of Morven, Ont.,
writes: "Will you favor me With a description Obtal nable? "'
REPLY BY JOSEPH:-The Meeker harrow conslsts of a frume with four rollers, each having
a number of disks onl same axis. The two
front rollers have larger disks and fewer in numbers, the two hind roilers smaller ones
and cioser together. This harrow is chiefly designed for giving the finish to a piece o
ground, and to follow after disk, Acme or
 this tool is so high priced, and consequently
so little known and used. Prlee ls \&z, I be-
lieve, and it is kept on sale wy leadiug seeds-
menn
Fertility of Soil.-C. L. N., Hurlock, Md.,
writes: "M liave two ficlds, precisely alike in solland fertillty, I plant both to corn. The
frst field I culivate thoroughly and with great skill, and linrvest a large crop. The sec-
ond feld recelve lndiferent trentment and
produees a small crop. When the next year comes will there be any difference ln the fer-
tillty of the felds? In other words, does a large crop exhaust the soll more than a small
crop, when the only differee is the means of preparing --The large crop will take away more plant food from the soll than the small one. ly ever fails to waste plant food, so that at the
end of the season the differencoln the ferthity
of the two fields will not of the two fields will not amount to as much
as the difference between the crops. The best
farniers crops exhaust the soll the most. But the best
farmers do not stop at that. They take proper armers do not stop at that. They take
care of the soil, and keep up its fertility.
The oregon Neliaiem, Oregon, writes: "I euelose a
small leaf of a vine that is known on this
coast as "man coast as "man-root," or "man-In-the-ground,
beause of its $1 m m e n s e ~ r o o t ~ o r ~ b u l b, ~ o f t e n ~ b e-~$ lng found as large as $\Omega$ half barrel, aud some-
times twlice tlat size. The bulblides itsclf
some fifteen or elgiteen inches benent tli some fifteen or eigliteen inches beneath the
surface, and early in the spring throws up a
most rampant growth of succulent viues most rampant growth of succulent viues,
clamberlng by luge tendris to a helght of
thirty to slixty feet, or covering several square thirty to slxty feet, or covering several square ing oval squashes the size of a goose-egg, cov-
ered with large spines. The root and gourds
milked, and whenever she has a "caked bag,"
milk hier five, six or seven times
duy, nid luns draw o
ulated casl ne.
Derenerating Hoor Morn. - M. S. G.,
Norlstown, Minn. Keep thie iorse on dry ground. kcep the floor of the stable dry and
clean, and kcep thie hoofs of the anlmanklean. anolut them wlith glyeerine.
Ophthalmia.
FAlza AND FinEside of September linth that does not meet your case, it may he ilt
the animal has some forelgn hody, a chaf
something of that kind, on the eye-ball.
Lampass.-W. C. M., Neponset, Inl. What
yon call lampass is on!y an imaganary disease. ing wrong lu it If If your nalmalis alling, it is
probably from indigeston, or the sanse be ng of proper age, is sheding its molars, wha on
that account may not eat as well as it wonld
otherwise, but will be all right as soon as that Grease Hecl.-W. B. K., Belle Center, Ohio. a day, of a mlxturc of liq. subacelatc of lead,
ne par, and nlive oll, three parts; keep the feet and legs of the animal clean, but do no
clean thein with water, and keep the anlina
out of mud and dirt. For furthelinformation out of mud and dirt. For furthersinformation
I have to refer you to recent issues of the In-and-In Breeding.-H, N. N. N., Rolcy horses? I have a fine colt of my own ralsing
Would 10 wronf to breed hisown cousin and half SISter to hlm?"'
ANSFER:-I cannot advocate what you pro pose todo. A weak constltutlon and arrested
development in one or more parts of the
body are often the result. Mange.-L. C., Selma, Ind. If your cow ha
mange, wash her with a good tobacco decoc
tlon (two pounds of good, strong tobeco


Fig. 1.-Branch showing lenves, tendrils, flowers and embryo fruit. Fig. 2.-Lengthw
are intensely bitter. What are its common
and botanical names? Has itever been lintroand botan an ornamental plant? Is it known ANSWER BY GEE. W. PARK:-Thls Vine is a sclence as Megarrhiza Californica. Its common name is "man-root," as indicated by onr corre-
spondent. It isalso sometimes called Calif fornia
and spondent. It is also somettmescalled California
big root. Some years ugo this plant was illustrated and describer by the horticultural
ournals, and seeds of it were offered by seeds journals, and seeds of it were offered by seeds-
men ; but it is to-day rarely seen, except in
botant say that is the only suitable place for it. The
root is said to yield a glacoslde called megarrhizoretin. It is actively cathartic. Tha some idea of the vine and its fruit, we give the ccompanying drawings. It whil be nothce the common native vine of the eastern state known as wild cucumber. The lat ter, howev.
er, is diminutive when compared with its Cal
if which is one of the wonders of the gourd fam drawing is of one enclosed by our correspondent, and is shown natural size.
Sulphate of Ammonia.-G. N. C., of
oberlin, Ohilo, writes: "WIll you please tell at our common gas works, and by what name they call it? They have a by-product that is
death to vegetablegrowth. You do not mean thls? Where can nitrate of soda be obtained?" REPLY BY Josepil:-Sulphate of ammonla is can soon discover by inquiry from the inan agers. The by-product you refer to as being
death to vegetables is gas lime, which, when composition and value(?) at some otlier time Where nitrate of soda may be obtained. Peo-
ple sufficlently interested in all these problems
to come to us with queries, as you do, would do well to read with greater attention that
artlcces on agrlcultural chemistry. Our whole buslness success is based on this knowledge
and its proper application. Look up the
ahe
$\frac{\text { chapter on nitrate of soda. }}{\text { VETERINARY }}$
*) HConducted by Dr. Veterinarian of the Oblo Agrlcaltaral
Station, and Professor of Veterinar
in Ohio State Unlversity.
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 directiy to DR.
dolunbms, OLio.

[^0]Ave galions of water), but firsl clean her thor
oughty, and then clean and disinfect the pre ses where she is kept. Treat the calf pre thi
same way, and repeat the same trealment the slxth day, and titen, if youn have donegood and thorough work, your animal will be cured
if you have not, another repetition will be

Swelled Joint.-J. M. B., Webster, W. Va As you do not say that your horse is lame,
have to suppose he Is not, and as you do no
tate whet her the "puff" is hard or soft, fluc atate whet her the "puff" is hard or soft, finc
tuating or not, and do uot even give its exac
ocation, it is impossible to delde is bogn, spavin, thorough pin, any other gall, o
an infammatory swelling. In one statement
In however, you suggest the remedy yourscli,
You say exerclse produces a decrease. Now
then, give exerclse during the day, vent an increase dnring the nlglit by applying gentle pressure by means of a bandage. But A Chronic Cough,--S. W., Suticoy, Cal., She was foundered three $\begin{aligned} & \text { ears ago, and she } \\ & \text { has coughed more or iess eversince. She keep }\end{aligned}$ has coughed more or iess eversince. She keeps
in good flesh, but seems to suffer from the
cough." ANSWER:-What to give in such a case will
depend upon the character of the morbld changes that produce the cough. Coughing is
concomitant of nearly all respiratory disor a concomitant of nearly all respiratory disor-
ders, consequelltly, the slmple statement that acter of the disease. May be you feed musty Cattle DVing in the Corn Field.-M. E. S.
 kind of feed. But if they first get a goon
tomach full of hay or of other dry food and are then driven in, and the first day driven
out, say after half an lour, the nextday after
ne hour the and so on until they gradually become used to
the change of dlet, losses may be avoided. It is easy enough to make them eat a good stom
ach full of liy in the morning, if tbey are
kept ln a corral durlng the uight. Linseed oil.-J. R. W., Artlc, Ind., asks "Is there any danger in giving a horse boiled
IInseed oll When lie has spasmodic collc?"
ANswer:-Most decldedly, because horse have great aversion to olls and fast hand do
overthing in their power not to sivallow the objectlonable stuff. Hence, if it is poured
down notwlithstanding, it ofien goes into the trachen and into the iungs, and as it canno
be absorbed in the lungs, a fntal pheumonia the anlmais appetite for several days. Be-
thes that, oil has no curative effect whateve Chronie Discharge from the Nose. - W
R. B., Custer, South Dakota. Coughing and discharges from the nose are symptoms per tory passages, especially if the same have
passed into a chronic stage. Withoutan ex complete description, giving characteristic
symptoms, it ls mpossille to decle whet he fuenza or something worse. The later is thie
case if there are uleers on the septum of the are, swollen, submarillary if the discharges finm the the
nose have a tendency to dry up on the border nose have , tendency in ary up on the borders
of the nostris to dirty looking or brownish
crusts. If nelther of these three last symp-
 ammonia, crystallzed, two ounces, and poundapowder, of whiel, thee timesnday, a heaped
ablespoonful may le given mlxed wht tie iclue, gets looser, nind the discliarges thlecker
nind inore abundin, the dosc niny be repated.
At

mptous last nientifned, or any onc of thenl, Swelled IIend,-F. H. K., Lttehfeld, Neb,

nd J. B., Shlbbaletli, Kinli. Yourdeseriptions
 hing. In a Faung horse tho rants of the metlmes of a different, marre malliguare
naracter, say nqain, thic best ndice can
vo you is to lave the nalmal examlucd by a Lameness.-E. L. S., Ihudn, Neb. The dry-
ness of the hoof does not constithe the cause The soles of else, but where, in eannot tell yont mal may have been foundered, or may have
ringbone. In fact, there are arcul many pos-
liblitles. If the animal has lucen foundered, and especially the solc will be full, or nay be beveled oft inside the nall holco on lis uppper
surface, so as not to press upon the sole. The
horn of the lionf, fin that case, tiso may be rittle, and an artificial softenlig of the same
rith glycerine, for instance, also may afford Probably a Rheumatie Affection.-H B, Kennebunk, Me, writtes: A1 liave a mare
that has becomic very rame. In the first place slie showed lamentess in one foot when we
were drving her, then it Wonld pass off, and
we would see no more of it for three or four weeks; then if we were drlving her on the
road, she would show a lltte lameness again in the right fore foot. Abut two months ago
she became lame in both fore feet. She is lame about a week, then seems better for about a
week; then, all at ones sle is taken aslame as
ever. Sometimes she stands stretched out. after one day or one night, she stands all right ANSWER:-The descriptlon you give is most
assuredly not that of navicular disease. It
either iudicates tbe presence of a rheumatic
affection, or points towards founder or lamin. either iudicates the presence of arneamail.
affection, or points towards founder or lamln.
itfs of a somewhat chronle form. If it ine
latter, you will find the hoofs. abnormally warm, and increased pulsation in the dilital
arteries; but if tie foriner, any strictly local-
ized symptoms or noorlid changes may be

## mone <br> Butter <br> color. <br> PURITY BRIGHTNESS

 Always gives a bright natural color, neverturns rancid. Will not colorthe Buttermilk.
Used Used by thousands of the best Creameries and
Dairies. Do not allow yourdealerto convince you
隹 Bat some other kind is just as good. Tell him tho
BEST is what you want, and you must have Wells,
Richardson \& Co's Improved Butter Color

HOUSEHOLO accounts by the slip eystem. Not bookkeep
FOR SALE-A RICH STOCK FARM


OIL CAKE MEAL. Giny Theme







Wo not fail to mention this paper
(1)แ以 finur.

THE POULTRY YARD.
PALMER'S BROODER.
Mr. B. C. Palmer, Water Mills, N. Y. sends the plans of a brooder, which he has and not patented. He says: "The chicks never crowd. Two brooders kept a house $12 \times 16$ warm enough during the blizzard
of 1888 . I raised 166 chicks in one brooder $31 / 2$ feet square
Fig. 1 is a sectional view, A being the lamp and B the inside back of the brooder. C is a yellow pine floor, which slides in or covered with sand. D is a board run, adjustable, and which may be lowered when the chicks are large enough to run on the
floor. $K$ is the opening between brooder and run. SSS are air-holes.
Fig. 2 shows the outside back.
lamp, and F F stove-pipe. $41 / 2$ inches di ameter, capped and perforated at ends, which holds the heat, yet permits of the
escape of gas and odors. Hois a stove-pipe escape of gas and odors. Hois a stove-pipe
tube, leading from the lamp, and also shown in Fig.
Fig. 3 shows the floor, being the front K is the outlet for chicks to the run are cleats, the front consisting of three boards, the lowrer two cleated together The whole front is fastened with buttous, so as to be remored when brooder is
cleaned. The upper board can be left off entirely when the weather is wanm. The run, reaching up to the egress K , i

Swelled heads and eves, hoarse breathing and discharge from the nostrils, are all signs of roup. It is rery difficult to cure, and is caused by exposure to cold winds, damp weather and currents of air in the poultry-house. The remedy that is best is to keep the birds in a dry, warm place. Once a day anoint the face with a misture of one part spirits turpentine or two drops in each nostril and ten drops down the throat.

## QUERIES ANSWERED

Lice on Canaries. - Irrs. A. F., Sprague, Washington. Dust the birds well once or twice
with fresh Dalmatian insect powder. Dust it
 Scaly Legs.-T. M. T., Demoss Springs, Or-
egon. Anoint, once a week, with an oint ment made of one part kerosene and six parts Fattening Old Fowls.-Mrs. J. H. C., Binff city, Tenn., asks "Can ored rared in ans way to make them Reply:-Confine them about ten dars in a
small yard or coop, and feed four times a day on gronnd grain, mixed, scalded, with a mess Age of Males.-G. T., Las Alamns, cal.
sks: "Which is best to breed from, a gobbler


2 feet broad and 3 feet long, surrounded the chicks far arek or len do confine the legs being removed, it forms an incline to the floor of the brooder-house. The advantages of this brooder are


Fig. 2-Oetside Back of Palmier's Brooder
cleaning. Sccond-No
heat; no draughts; always warm; no leg weakness; no louse-breeding top mother. LOW PRICES.
We again call attention to the fact that it will not pay to ship poultry to market is doubtful if shippers will receive any returns at all after transportation charges and commissions are deducted. Eggs sell increase. Do not ship poultry alive at this season of the year, but kill and dress all birds intended

## poultry are in abundance on the stalls.

STUDY YOUR MARKETS.
Beforeshipping dressed poultry, be sure
the markets. In some cities the carcasses
must be drawn, the feet cut off and the
heads removed. In others the feathers
nly are remored, and in other markets
nd fect remain
usages of the place may cause the stock to remain unsold.
that is about a year old, or one that is two or
three years old ? How, mans hens should be
kept with one gobbler?, Reply:-A searling gobbler, with two-year old bens, or an old gobbler witb searling hens, is correct.-One gobbler will be sufficient for Nests.-Geo. Hadlow Writes: "A very cbeap
and convenient material for nests is orange and convenient material for nests is orange
or lemon-boxes. Ther can be purchased for a mere trifle, and each box will make tro nests thing, to keep the straw in; then, wben thes
need cleaning, take them outside, build a fire and liold the box orer the fire a short time, that should not be there. When they get too filthy, burn the box, lice and all." Cholera.-Mrs. C. N., Castalia, Dak., Writes
"My cbickens bave been dying for the las
two springs, with what the people here cal two springs, with what the people here cal
cbolera. Wonld those remianing carry disease
With them unatil next spring, orruture?
Would it be safe to put them with a healhy
Wot the lot that I purchased lately? Chicken-house
is new, aud away from Where the old ones
Reply:-Tbe premises should be mell disinfected by sprinkling tbe bouse and grounds With a solution made by dissolving a pound Eous boiling water. Eggs Not Hatching,-Mrs. E. J. J., Brady
Tsland, Nebo, asks: Why do not my chickens
hatch as well in the incubator as nnder the hen? Tbey come to maturitr, and a good
many pip the shells, but die. Ihare good suc-
cess with those that do hateb, and think they Ny incubator is a liome-made one. It is
packed in sardust, witb a sliding drawer. I
then When hatching, and from 102 to 104 during in-
cubatlon drairer ail the time, and sprinkle from the
9th to the 12 til day once a day, and from the
dath Warm water. My directions say, take eggs ont
once a day from the third day, and coolthem
to or ot degrees, but I have run mine tbree years, aud think lt best not to cool them. from beginuing to end of hatch. Do not cool eggs, hor sprinkle them, as the rapid evaporathe chicks in the shells. Shut drawer when chicks begin to batch, aud do not remove them
untll all are out.

THE ANDRAL-BROCA DISCOVERY!
 CONSUMPTION
Catarrh, Bronchitis, Asihma and aniliveseses ot the In Europe the wonderful cures of Consumption and
kindred diseases by the Ner ANORAL-RROCA DISCOERY are exciting the medical world. Endorsed by tbe Public Hospitals, and by
days. Consump
4ive death-rate at once rednced from 85 per ent. to less than 15 per cent., and Catarrh, Bronchitis, Not a Drug-Not a Specific-but a New Scientific Common-Sense Method of The Greatest Discovery in Modern Medicine A certain and absolute cure. In three months more
han ten thousand persons hare realized its blessings.
To proze the certain success of this Ner M Me thod of Treatoprove the certain success of this Ner Method of Treatof it ioerery sumfer Romis trial. You are simply asked to
over it made for thend try it for yourself. If, therefore, Jou
take it

 THE NEW MEDICAL ADVANCE, 62 East Fourth Street, CINCINNATI, OHIO.


5,000 TEA SETS GIVEN AWAY.




 MAME HENSLAY we send ey malc Sherlo make Hens Lay 1.2 Sheridan's Condition Powder


## Oint ghtisctllaw.

## Even such is time, that takes in trus

 our youth, our joys, our all we have, And pays us but with age and dustWho iu the dark and silent grave, Who iu the dark and silent grave,
When we have wandered ali our wa When we have wandered all our But from thls earth, this grave, th
My God shall raise me up, I trust. -Sir Walter Raleigh (written the night before his

Never obtrude any advice unasked.
Beecham's Pills cure billous and
Bes
Never judge a person's character by ex ernal appearance.
Recerve wealth or prosperity without ar
rogance; and be ready to iet it go. $-M r$. Aurelius Antonius.
Hearing restored, by one who wasdeaf for 30 years. Full particulars with proof free. Ad-
dress John Garmore,L.B.i6, North Vernon,Ind. Itake it to be a rule, proper to be observed In all occurreuces of life, but more especially preserve always a disposition to Spectator.
We can all take courage from the words of George Eliot, who wrote: "Thedarkest night light, never put out the stars. It only made the stars more keenly, kindly glancing, as if in protest against the darkness.
Aspecific for Throat Diseases.-- $\mathbf{B}$ rown's ronchial Troches have been long and orably known as an admirable remedy foarseuess and all Throat troubles ess or Sore Throat. They are exceedingly ef fective."-Christian World, London, England. Great has been the evolution of the bicycle. political factor! In many parts of the country the wheelmen combine to elect county he roads are improved. The wheelmen can do much good in that direction and deserve couragement.

## A GREAT MISFORTUNE.

The heavy fall rains very often totally ruln crops in many localities, and its effect is then seen in diseases among poultry and farm aninals. Al most every day cases of roup, swelled head and a distemper very disastrous among pouitry are reported. A part of this is also
due to improper feeding. Many persons think as begin to feed heating food to their hens, like
corn meal, etc. The result of this course is, i they do not hreak down from the disease people wonder why they do not lay. You can not make a hen lay when everything you giv her is being transformed into fat, and laying ver-fed child or person. Alfred T. Johnson Hampton, N. H., says: "Last fali I had 80 fine I changed their food and began using Sheri dan's Powder, in three weeks they were nearly well, and had increased the eggs sixteen a day. I have just bought six cans of it, as a pre
ventative of disease the coming winter. I can't be beat, for that large can saved m $\theta \$ 40$ Mrs. E. B. Carlin, Conklin Centre, N. Y., Says "I have used Sheridan's Powder to make hens
lay for three years. I know it also keens them lay for three years. I know it also keeps them healthy, for I rarely lose one now. My neighhors are getting interested in Sheridan's Powwro smali paeks is not a fair test. I shall send soon for six cans, as I get it cheaper. During ed at me when I began to use Sheridan's Powder, and I had no idea I should win a preminm 'They laugh best who laugh last,' however. I got more eggs than any of my neigh bors, and son \& Co., 22 Custom House Street, Boston Mass. (the ouiy makers of Sheridan's Condiion Powder), will send for 50 cents, two pack large $21 / \pm$ can, postpaid; six cans for $\$ 5$, express prepaid. A copy of the best poultry paper for
5 cents. Send stamps or cash.

Wouldn't Take $\$ 10.00$ for the Peerless Atlas. Mountain Dale, N. Y., Dec. 9, 1889. I received Jour Peerless Atlas of the World
in good order, and I like it very much. It is
Just what I wanted. I would not take ten dol lars for it.

Dr. How to treat inebriates. gives the four principal conditions that must be observed for the treatment of ine briates to
be sucessful be successful. The first is abstiuence; thit
must be absoiute, and on no plea whatever of must be absoiute, and on no plea whatever or
fashion, of physic or relligion ought the small est quantity of an intoxicant be put to the
lips of an alcoliolicic slave. The second coudt tion is to ascertain the predisposing and ex
citing causes of inebriety aud to endeavor to citing causes of inebriety aud to endeavor
remove these causes, which may lie in som remote or deep-seated physical allment. The third condition is to restore the piysitial and
meutal toue, and the fourth condition is emmeutal towe, and the fourd of the patieut be
pioyment - let the mind of kept occupied by atten tion to
Vew York Conmércial 4 tuertiee

## COMPLIMENTARY NOTICE.

To those wishing roses, hardy plants, bulbs and seeds for home planting, we cordially recommend the old reliahle house of The Dingee
$\&$ Conard Co., West Grove, Pa. They are ad\& Conard Co.. West Grove, Pa. They are ad-
mitted to be the largest rose growers in Amerfea, and their roses and plants are well and avorably k
nd Canada. Their New Guide, 110 pages how to grow more thau two thousand varieties of the uewest and choicest roses, hardy plants,
ulbs aud seeds, and is sent free to all who write for it. See advertisement on this page, and addres
Grove, Pa.
they never come off
"The buttons I sew on never come off," sald
equally fortunate.
you lay the button on the cloth, put the thread through so that the knot will be on the right prevents it from being worn or ironed a way, and thus beginning the loosenlng process.
Then, before you begin seviag lay a large pin across the button so that atryo our threads wi go over the pin. After you have fin ished filland wind your thread round and round be neath the hutton. That makes a compact
stem, to sustain the possible pulling and wear of the button-hole.

## a seedsman's enterprise.

J. J. H. Gregory, the well known seedsman proposes to distribute free among his custom-
ers of this season, a year's subscription to on hundred agricuitural pubications, lected by the fortunate ones from and magazines of this class published in thi country. Full details will be found in hi catalogue, advertised in our columns. a character which will permit all to wish well to both the parties concerned. In response $t$ ness of himself in his catalogue of this year.
CHINESE HAVE NO NERVES.

The North China Herald says the quality o the European. The Chinaman can write al day, work all das, stand in one position al day, weave, beat gold, carve ivory, do infi-
nitely tedious jobs forever and ever, and dis cover no more signs of weariness and irrita-
tion than if he were a machine. Thls quality appears early in life. There are no restless, naughty boys in China, they are all appali
ingly good, and will plod away in scliool with
out out recesses or
kind; sport
waste lahor. He can sleep anywhere, amld
rattiug machinery, deafening uproar, squall ing children, and quarrelling adults. He ca sleep on the ground, on the floor, on a bed, on a chalr, in any position. It would be easy to raise in China an army of a mlllion mell,
tested by competition-examinatiou as to their capacity to go to sleep across three wheel-
harrows, head downward like a spider, thel harrows, head downward like a spid
mouths wide open and a fly juside.

## catarrh cured

## 




HalR ON THE FACE, NECK, ARMS OR ANY PART OF THE PERSOH

 \$1,OOD Vou can register your letter at any post-office and insure its safe delivery, $\left\{\begin{array}{l}\text { AHD AOLERTISERS } \\ \text { WANTED. }\end{array}\right.$ $\$ 1,000$ REWARD. To convince the publie that Moden if an article of merit, we mail with oach



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FINEST varieties of RONES HARDY PUATS,
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## 

CHOICE STRAWBERRY PLANTS BEES And HONEY.


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Inreturn is that twhen cured yourselfyou
Willirecommend ittoothers. Address the
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## DEAF


AGENTS! MEN!! BOYS!!
THE BEST DOLLLAR ATLAS PUBLISHED The Peerless Atlas of the World con-
tains larger and better maps of the principal states than athascs costing
810.00. Colored county maps of all the
tates and Territories Latest States and Territories. Latest railroad
maps. Scnt toany adidres, postagepaid, or only s1, including this paper one Year. Agents mal
confidential terms.

Smiter

Ob, the men tiey mon't cheat, and the men they won't kill,
And the women won't fluty half the bread in Ine smill,
And there mon't be a tramp who will beg your In Bellamy's times
Nor a halld-organ man who will grind out his In Bellamy's times.
And the darker won't lift little chicks from tbeir perch,

In Bellams's times
And the renter won't leave stnpid men in the In Bellamy's times.
And there won't be a crank, and there won't be a shirk,
For the fools will be dead and the lazy will In Bellamy's times.
And the men they won't drink till they're off a booze,
For thes will take a small glass, and "can stop when they choose," (!)
In Bellamy's times.
And a man won't elope with bis neighbor's fair wife,
And the girls Bellamy's times
your dear life.
In Bellamy's times.
And they never will send a poor wretch to the In Bellamy's times
For thes won't bave a place to Incarcerate In Bellamy's times.
But if some wretched man should be tempted
In Bellams's times,
Whr, the doctors would cure his disease with In Bellams's times.
And the penple will live so contented and In Bellams's times;
For contention and sin. sill be quite obsolete,
In Bellamy's times, In Bellamy's times.
And the beart will be stripped of all selfisb-

- Iu Bellams's times:

And a man mill exist for his dear fellor-men,
For a something divine will descend from
Ere Bellamy's times,
To convert naughty men into an
Ere Bellamy's times.
Ere Beliamy's times.

## a texas horse trade.



There is a co ored man in Aus-
tiu, Texas, by the tiu, Texas, by the
n a me of Sam Johnsing. He has
somemoner which somemoney which
lie has made tradhe has made tradWhich business he is an expert. One day Judge Peterby saw Johnsing trading Tith an
Itiuerant horse dealer. Haring some curiosity to know how Sam came out iu the trade, he asked him:
"Did you sell that fellor your horse?" "1 did, boss, for a fac'."
"How much did yon get?"
"Twenty doilars."
"Only trenty doliars: Why, you are a fool.
"Lemine teli yousomethln', boss. Dat hoss
is iame."
Judge Peterby happened to meet the horse
trader aftcrwards, and said to hom:

- "Yes, I paid trenty dollars to the darkes.
"You have beeu swindied. The lhorse is
"l know the horse is lame, but it don't
amount to anything. He limps because he amount to anything. He limps because he ticle. I rouldn't take a hundred dollars for Half an hour afterwards Jndge Peterby met "Look inere, Sam, you were swiudted, after
all, In that horse trade. The lameness of the ionse is caused by hiis not being properly shod dat was ain't properis shod. I had him linss trader believe dat he was lame from dat enough, and be am gwinter stay lame. He
neber $\pi 111$ be wuff nuffin,
I fonled dat boss trader."
The same evening Judge Peterby saw the horse trader at the railroad station. He was "Ihat to leave on the train for Dallas. awas with yorse is really lame. Sam bas "That all depends on circumstances. I thin I can cure that horse; but if I don't I'm not out ansthing." repied the horse dealer, grinning. "Ask Sam after he has tried to change that twenty-doilar blll I gare him for the horse," sald the horse dealer, as he cllmbed into the car.-Texas Siftings.

HIS SEASON OF MOURNING.
Neighbor-"Mr. Skrimp, I have sad news for u, terribly sad ners.
Shrimp-"Her'ye? What mout it be?" Neighbor-" Your wife, in attemptIng to for Ske river this morning, ras drowned. Skrimp-"Hump, that Is sorter bad • kinder onexpected, too."
Neighbor-"Yes, It's bad. She missed the road, someway, and got into deep water, and she and the horse were both drowned." don't meen ter say the hoss ruz drowned, Nelghbor-"Yes."
Skrimp-"Wall, by jlngoes, that is er heary loss. That alr hoss wuz wurth er hundred dol lars clean cash, an' ther ole 'omanknowed hit. Peers like women folks is most dog-gond keerless. Dog-gone, neighbor, but the loss o that air hoss ls powerful bard ter b'ar upag'In shore."-Drake's Magazine.
SOMETHING NEW IN WEDDING PRESENTS. We learn from a ralned Kansas excbange Which comes to us weekly that an important Tredding took place there recently, the eldest village marrying the youngest daughter of another prominent citizen. This is not re markable iu itself, nor, perbaps, were the redding offerings, though they are worth passin mention. "Among the many beautiful and costly presents to the happy couple fust launched upon the, sea of matrimony"-w quote directly from our contemporary-"rrere a fine donble-barrelled shotgun from the groom's father and an excellent shorthor corr, a remembrance from the bride's mother Jim was already possessed of a good pointer dog, so he is now trell fised for housekeeping. -New York Tribune.

## WHO WON THE BATTLE?

Two souths came out of the cslorama the other night just ahead of me, and as I followed "That battle of Gettrsburg must have bed an awful thing!"
an awful thing!"
"Yon bet!" was the terse rejoinder.
"Glad Tre rrent."
Thes waiked a few steps in silence, and then the first oue suddenly stopped and exclalmed: "What fools!

## "Who?"

"Why?"
"We never asked nobody whicb side licked. - St. Louis Republic. $\longrightarrow \longrightarrow \longrightarrow$

Omaha Dame-"I irave come on a sad mis sion, my dear, prepare yonrself for terrlble ners. Oh, how nis beart goes out to you!" maker spolled my wedding suit?"
Omaha Dame-" Worse, dear, far worse. The young man you inteuded to red came to onr tion, and I have fust.found ont that he has been for sears a conflimed sot."
Sweet Girl-" Horrors! Don't for the world breathe a word about it. If pa should bea that he wouldn't let me marry him."-Omaho

## World. <br> NO OFFENSE. Big Dark-"' Niggah, you's 'r fool!" Little Dark-"Do so' call me 'r fool?" Blg Dark-"Dat's what 'r sed :"

 Little Dark-Big Dark-" lse call enny nlggah 'r fool wha Little Dark-""Huh! Den Yo' call enny nig-
gat 'r fool D Den I can't consldal dat pusseü
el. Good das"

## 

 are no, Joinnny, In flies. But $1 t$ is the resuit
"N a bad habit that you wiil probabiy know more a
mentio
Breeze.
CONSUMPTION CURED.
An old pilyslcian, retired from practlee, had ary the formula of a simple regetable remeds for the speedy and permanent cure of Con-
sumptlon, Bronchitis, Catarri, Asthma and all
Throatand Lung Affectlons.also a poslifeand Throat and LungAfect lons.also a posilireand rous Complalts. Havilng tested its wonderful
curative powers intinousands of cases. and de-
siring to relleve himman suffering, 1 will send ree of ciarge to all who wlsli it. this reclpe in
German, Frencin or English, whth fnil direction for preparing and uslng. sent by maii, by ad
dressing, with stamp, namlng this paper, W. A
NoYEs, 820 Powers' Block, Rochester, N. $Y$.
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MIGCLLANTERIS
(3).
$\frac{10}{}$


## A NEF TREATMENT. Sufferers are not generally arare thst

 these diseases are contagions, or that they are dne to the prsence of iring pargites in the lining membraue if the nos and eustachian tubes. Mieroscopic re
search, however, has prosed this to be search, however, has proved this to be 8
fact, and the resnlt of this discovery is
fthat a simple remedy has been discovered \%
that a simple remedy
thas been discovered
which permanently cures the most agravatod casesof these distressing diseases by
afew simple applications made (two weekis apart)by the patient at home. A Aamph-
let explaining this newt treatmentis sent
free by A. H. DIxow \& Sos, 337 and $3 \% 9$

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HA ELCIN, WALTHAM, or
Warmercan Lever Movement.
Warranterto wear well 20 Senri



PatentS







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| 21,120 times a minute, or 352 times in a seeond; and the bee, which makes a sound of A, as many as 26,440 times, or 440 timies |  |  |  |
|  |  |  |  |
| in a seeond. On the contrary, a tired bee hums on E , and therefore, according to theory, vibrates its wings only 330 times |  |  |  |
|  |  |  |  |
| Marcy, the naturalist, after many attempts, has sueeeeded, by a delicate mechanism, in firming these numbers |  |  |  |
|  |  |  |  |
| mechanism, in confirming these numbers graphieally. He fixed a fly so that the tip |  |  |  |
| of the wing just touched a cylinder, which was moved by cloekwork. Eaeh stroke of the wing caused a mark, of eourse very slight, but still quite perceptible, and thus showed that there were actually 330 strokes in a second. |  |  |  |
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|  |  |  |  |
| HAPPY CHILDREN'S Home. |  |  |  |
| To all children home should be the happiest place in the world; the nurse should be a person of cheerful, sunny |  |  |  |
|  |  |  |  |
| should be a person of cheerful, sunny disposition, strong and active, as there is a great deal of hard woris attending the |  |  | WHAT Hyon the meing ies |
| woris attending the care of a little ehild; and, while the mother |  |  |  |
| should always remain |  |  |  |
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| Little ploasure |  |  |  |
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| n them. |  |  |  |
| little boy would enjoy a game of marbles with papa or mammaeven better than with |  |  |  |
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| boys down the |  |  |  |
| him to associat dren sometimes; |  |  |  |
| er to them and ad less time on th |  |  |  |
| Spend less time on their elothes and more on their sweet selves. The day will come only too soon when you can sit down with your tidied house and they are all |  |  |  |
|  |  | DR. CHASE'S Somplad RECEIPT BOOK AND HOUSEHOLD PHYSICIAN. <br>  |  |
| A true wife. |  |  | PILES. Address, Totile \& Co., 78 Nassau Street, Now York City. |
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|  |  | A"PRESENT. <br> SEND us your address and we will make your a | ON 30 DAYS ${ }^{\text {TRIAR. }}$ |
| Sueh things are important, and the wise young man will quickly look after them. |  |  |  |
| yung han the quang man wis with |  |  |  |
| a wife is her companionslip, sympath |  |  |  |
|  |  | ENCY For the |  |
| times overtaken by misfortunes; he meets with failures and defeat; trials and temp- |  |  | INDIAN HERB AND ELECTRIC PADS |
| ns beset him, and ho needs one to d by and sympathize. He has some |  |  |  |
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## urrent omment

（9）HE following is from the vigorous ap－ National Grange
＂What＇s the matter With the farmers？ Are hey at last shaking off the letaargy of by the plow would the must either hold， himscif，or drive？＂Have they learned tha there are plow－shares not made of stcel or iron， which must be guided by the master＇s hand ？ If so，then at last＂day dawns＂for the farmer． The night has been rery dark，and the way hard to fud ；but there is yct hope．The farm－ ers are moving not in ludividual strength－ but in solid columns．The army of agricui－ turists will hencerorth cultivate－amoug other felas－the fald of polucs．Nstinct from or classes，but as a body composed of nearly one half the citizen sovereigns of this great re－ public．
If agricultural interests or agriculturists are ignorcd or neglected in the future by any reason why．The farmers have been cajoled aud relegated to the rear too long；and their interests have suffered too much，to admit of any morc of the stale and threadbare＂taffy＂ Which has been ladled out to us，lo，these many years，by the average politician．
We have beard of the＂independent life of the lañd，＂until we are tired，very tired．We have learned that this is a representative government，and that the luterest not repre－ sented is sure to get＂left．＂Hence we sbal ask，not a monopoly of the law－making pow－ legislative bodies．We shall ask that in tbe appointmeut of men to positions of honor
and trust，that farmers be not and trust，that farmers be not forgotten－or simply thrown a＂sop，＂which tbe place hunt－ er does not want．We shall ask tbe coutrol of exclusively to agricultural interests．

In making these demauds，we shall not com－ mise the digulty of A．whe to accord to otilers．
Patrons，＂forward，guide right，＂is tie order cor the year．In this forward movement our eteran organizatiou，tbe Patrons of Husband wasting its energies in flghting imaginary foes，nor in the vain effort to cbange the laws of trade and commerce，established after years of experieuce；nor foolish warfare upou legit mate busiuess aud reasonable profits；but by ness life in various ways，which unnecessarily burdcu the producing classes．
nd bomust have an honest siare for wife ＂ad bome，of what the harvest yields．＂Cor porations，sy thdicates，trusts，and vast accum ations in the hands of individuals，must be just legisiation，properly eof rights and interests an

Farmers，in this righteous crusade we want
your help．No other farmers＇organization
can offer you the advantage of over twenty ycars＇experience in organized methods．We make no extravagant promises．Our methods
are not startling or revolutionary in their character．We shall co－operate witb all who by legitimate means，are secking to secure to honest labor a fair reward．But we make no
cntangling alliances which may lead to future cntangling slliances which may lead in future
disaster．We do not offer you miraculous or anusual power；lut we do sbow you how to make your power
We hare a great national farmers＇organiza tion，well drilled in the work which must be tion，well drincd in the work which must be
done，if farmers are to remain owuers of their homes，and be worthy of the name of Amerl－ can citizens．We are armed and equipped for the people＇s battle．Marcbing orders have wealth producers and those who，by＂way that are dark，＂are absorbing the millions that siould go to bless and brighten our homes will soon be beard on every hand．We sial put every avallable man into active secruits－brave men and women－from the farms of our coun try，who are willing to help us in the effort to securconls what is ours by right．Shallour ap－ peal be In vain？A subordinate Grange should be organized in every township；a Pomona Grange in every county，and then，with ex teuded lines，with high hopes，and with brave hearts，we shall wage a successful warfare against some of tbe crying evils of the day And our victories sitall be blessings to eve
home and legitimate industry of the land．

©DGING from the tone of some article that have lately appeared in our ex－ changes，and of a few letters received， ould seem that the discussion that has been going on about the abandoned farm in some parts of New England had given the writers the erroneous impression tha agriculture was about to be abandoned altogether in New England．One corre－ spondent goes so far as to say that they might as well try to resuccitate an Egyp tian mummy as an abandoned farm in New England，and that manufacturing as well as farming will cease there．Proba－ bly it will，some day，but not in our time It is true there are several hundred desert ed farms in New England，but there can also be found some of the model farms of the country．Their owners have adapted their system of farming to the changes that have taken place，and they are getting along about as well as farmers in many of the more favored parts of the country For a long time to come yet there will be f farming，in spite of climate，soil and western competition．
The rapid settlement and development of the West has had nuch to do with the deserted farms of Vermont and New Hampshire，And the competition of the West，with its natural advantages，has been greatly strengthened by discriminat－ ing transportation rates，for which rail－ road corporations are responsible．It is said to cost no more to ship butter to Bos ton from Iowa than from Vemont．Cheap transportation from the West and higb local rates on the railroads in New En gland，have placed farmers there under a great disadvantage．And this railroad discrimination hurts the manufacturers as well as the farmers．Leading manufac turers testify that high freight rates are injuring the manufacturing interests of
Nev England．The principal cause for
the deserted farmi and the abandoned fac－ tory nuay be found in the rallroad corporations
Western conipetition affects all the is a letter from a states．Before us is a letter from a subscriber in east－
ern Pennsylvania．After telling what branches of farming pay in his locality and what do not，he adds by way of ex－ and pork to their markets cheaper than they can produce it．But he said nothing about the farmers there abandoning their farms on that account；he did tell what lines of farning still paid，and it is safe to ay that they will all find it out in time

界N old subscriber in California writes that he is much interested in what bout the cash co－operative plan of buy ing adopted by many farmers in Michi gan．His own county being very thinly
settled，the same plan cannot be followed， settled，the same plan cannot be followed
but the dairymen and farmers send their products direct to the great market of San Francisco，and buy their supplies there in large quantities，and thus save the profits hat would otherwise go to middlemen Our friend goes on to say that the great est trouble with a farmers＇organization dealing with merchants at reduced rates on a mutual agreement，is that the latte bring in false bills of goods to show to the committee appointed to look over the ooks，and in this way still make their old－time profits．
In our opinion，the objection raised ls not as forcible as it may appear to some at firs sight．Human nature is the same the world

Merchants，as a class，are just as
honest as other mon，neither less so nor nore．But it seenas to us，if ever a mer－ whether he was honest from principle or whether he was honest from principle or
not，it would be in this case．If he is un－ der a fair contract to sell goods for spo cash at reasonable profits，and to have the exclusive trade in his line，he could ill afford to run the risk of detection in vio－ lating that contract and losing his whole business．Self－interest should keep him endeavoring to hold fast to a good thing y fair and honorable dealing with his ustomers．He has the strongest induce ments to be honest and to faithfully fulfill his contract to the letter．As to the false ter．Nowadays we have daily marke reports from the great business centers of the country of the wholesale marlset prices f all the staple and most fancy goods sept in ordinary stores．To keep thor－ oughly posted about the wholesale prlces of all goods purchased is the privilege and duty of the committee appointed by the armers＇club or association to look ove books of the merchants with whom hey are dealing．If the committee do their duty，fow false bills could escape de tection．If the committee is incompetent ashrewd and unprincipled merchant could take advantage of them，it is true；but even then the customers would not be worse off than they were under theold way． If the members of the committee are wide－ wake men，there is very little danger of an attem

The trouble with too many farmers ls that while they are anxious and willing to share all the advantages to be derived rom a co－operative system of buying，they vant it adopted and carried out without any labor or effort on their own part．But they inight as well make up their minds， first as last，that unless they lielp them selves nobody else will help then，and everybody will try to take advantage of them．Our friend remarks that they could ucceed easily enough if all would be true ucceed

具RE farmers＇interests as jealously guarded in legislative halls as Manifestly not And the worst of it is，the farmers them selves are to blame for it．In the first place，they are not properly represented in the legislatures；that is，too few of the epresentatives are interested directly or indirectly in agriculture．It is the fault of the farmers themselves that they do not select，rote for and elect men who will jealously guard their interests．Then again，farmers are entirely too indifferent to what is going on in the legislature when it is in session．Bills are introduced，dis－ cussed，passed，become laws，and go into effect before they realize what has been done．Even the legislatures，constituted as they are at present with few farme members，would do much better if the farmers would interest themselves more n looking after them．The members are good deal like a lot of boys sent to do ome work－their employer must not only tell them what to do，but he must go alon with them and see that they do it．Re－ cently，a nuember of the legislature，who is willing and anxious to aid farmers in securing any just legislation they desire， was told of an amendment to a certain law drawn up at a farmer＇s institute，and he resolution adopted unanimously in lt avor．＂Will any of them be on hand during the session of the legislature to see it through？＂be asked．＂When any other class of men are interested in hav ing a bill passed，they are on hand to look after it．＂
There was probably never a tlme when the farmers and wage－workers of thl country were more thoroughly aroused to the fact that they are not obtaining thei just share of the rewards of labor than a the present．Legislation will not cure al the ills that agriculture is heir to，but it can do much．The necessa：y legislation can be easily obtained，if ue farmers whl only unite．That is tho hard part of it，to get them to organize．Organize，and legis latures and Congress will listen respect fully，and hasten to do your bidding．In our opinion，the best plan of organization of farmers for the purpose of securing whatever legislation they desire or need is the formation of a non－partisan league in every state．Upon its broad platform can stand the farmers of all parties and associations．And if a legislature does not heed its just demands，tho league can soon make one that will．But organiza tion is the great necessity，the plan la secondary．Adopt willingly the plan that suits the majority．The non－partisan farmer＇s league is simply mentioned as simple and effective。

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## COUNTRY DOORYARDS.

Cyrbes, oHio. UNTEY dooryards, as a rule lack distinctive character carefully planned and well considered outlooks, privacy comfort and beauty. This doubtess, sounds like a sweep ortheless true. Aside from the fact that many rural dooryards are kept in a fai state of cleanliness and tidiness, very lit tle can be said in their favor from an artistic point of view. As a rule, farm homes are in the midst of a mass of deciduous trees, trimmed to a uniform level of the chamber floors, hiding what may be beautiful in the architecture of the bouse and shutting out all outside views and at the same time giving no privacy ave what is obtained in a small space im mediately behind the dwelling and othe buildings. Few people would be satisfied to hare their house all thrown into one room, so that the visitor in the parlor could see all the work of the cook in the kitchen, or the chambermaid in the bed room, yet this is essentially the way door yards are managed.
Except for nuinerous naked tree stems sometimes slightly enlarged with a coat of whitewash, the dooryard might just as well be a meadow or a parade ground Sometimes all open fence separates the front from that portion devoted to cider boiling, butchering and soap making, but there being no especial beauty to such a fence and no added privacy, one is led to wonder why it is maintained. Yet from the chamber windows of these naked dooryards one can generally see but a few feet, and in thousands of country liomes it is never necessary to draw a curtain at night, for no prying eye can penetrate the screen of leaves and twigs everywhere plan of decorating country homesten feet above the grass is much like that of the African chief, who thought himself in full dress when he wore nothing but a paper collar and a plug hat. Viewed merely as a question of economy, it is the poorest
possible way of keeping home grounds possible way of keeping home grounds bling a hop-yard or a young orchard, just as it would be poor economy to have the parlor and kitchen in one room.
The owner of a village lot has a great advantage in that he does not attempt to make his surroundings all uniform. He improves (if so inclined) the front yard to the highest extent of the art; velvetlawn
and beautiful shrubbery are in the front yard, while the necessary accessories of
every-day life and things of daily use are snugly corraled in the back yard, detracting nothing from the beauty and neatness of the front. If nature furnished no material save the deciduous tree or the product of the saw-mill for giving character and privacy to a dooryard, it would be worse than folly to urge a change; but fortunately, we have provided us a ma terial so eminently adapted and so beau tifnl withal, that it seems criminal not to use it. I refer to the coniferæ, commonally called evergreens. I need not describe the trees, for most of you are familiar with them and their manner of growth, from the tiny seedling of a span the giant of half a century's growth nor need I urge upon you their wonderful fitness for the object proposed. Imper vious to sight and nearly so to wintry winds, most beautiful amid the snow when the deciduous growth is bare and skeleton-like, I cannot understand why so few country people use them. Placed in proper locations, they break the force and take the sting from the coldest winds they separate unsightly and disagreeable objects and views from the beautiful ones, objects and views from the beautiful ones,
and furnish most excellent and natural backgrounds for all other trees, herbs and flowers. Often the planting of a space between two buildings or the planting of the back angle of a dooryard with ever greens (see cut Fig. 1) will render a large space comfortable and ncarly quiet in the most tempestuous winter weather, adding in comfort many times the cost of trees and use of land, besides furnishing a nucleus for further desirable and beautiful planting. The judicious planting of evergreen groups in connection with short hedges or windbreaks, according to the


## O, orchard. H, house. B, bairn. S, silo. E, wludbreak.

need of the place, the exposed points or aricd locatiou of the buildings, will do nore to give a specific and differing characer to country liomes than any other equal expenditure of time and money. One or two examples inay serve to illustrate what I mean. On the western side of a road (see cut, Fig. 2) running from south-cast to north-west, is a fine residence costing sereral thousand dollars. Back of the house is an orchard, and north-west of the orchard and joining it is the large barn, the front of which is on a line parallel to the street and even with the back of the house The barn, with a silo addition at its northwest end, is probably one hundred feet ong, and has in front of it a grassy lawn about eighty feet wide, reachiug to the street. This forms part of the dooryard, and all is hept in excellent shape and the grass cut short. The place lies to the east of a large tract of swamp and meadow, and the north-west winds sweep, nearly unchecked, for two or more miles. The orchard and barn furnish protection from the south-west, but from the north-west there is no protection. How casy to plant evergreens from the corner of the silo to the street, and turn the beautiful grass plot in front of the barn into a miniature paradise in a howling day, and dispense with banging doors and all the annoying effects of rushing blasts. None but those who have evergreen screens, or have taken
practical
The bones used for the manufacture of fcrtilizers come chicfly from slaughterhouses and butcher-shops, or are picked up on the prairies and elsewhere. Fresh bone has nearly one half of its weight of organic matter-lhat is, gelatine, water, etc.-and one half its weight phosphate of lime. Nearly one balf of tre weight of the latter is the phosphoric acid we are after, and this thercfore makes out from 20 to $2 \overline{5}$ per cent of the fresh bone.
Now, bones are treated in a variety of ways to fit them for fertilizer. Often they are steamed, the gelatinous matter extracted for glue, the remainder dried and ground. This process, of course, deprives it of nitrogen, and leaves little besides the mineral elements in it. Another way, and a good one, is to crush and grind the fresh bones. This gives us the "ground bone," "bone meal," "bone dust" and "bonc flour," which contains about 20 per cent of phosphoric acid and 2 to 3 per cent nitrogen. Most of the phosphoric acid is insoluble; that is, in its fixed combination of phosphate of lime, same as it was in the whole hone. Its fine state of division, especially as it appears in bone flour, exposes it to contact with air, moisture, car bonic acid and other influences in the soil, and offers to it many cliances of new
refuge behind a group on a windy winter's day, can appreciate the change that would
result. As in this case, the grass is kept short, the ground being simply used for ornamental purposes, the use of a small portion would crowd out no other crop, and no charge could be made for ground ental.
A single row would do, but it might be objected to if it carne out full height to the street fence and hid the view up the street rom the back portion of the dwelling. A prettier way would be to make the back point next the street, much like the upper portion of an exclamation point. Then the broader portion could be planted to arge trees, and taper down with lesser was but four or five feet bigh. Such a plantation would be worthy of the place, and make a fitting finish to the yard, wich, on this side, looks bare and unsatisfactory

## [Concluded in next issue.]

## AGRICULTURAL CHEMISTRY.

From the Standpoint of the Practical Farmer BY JOSEPH (TUISCO GREINER) No. 25.
Phosphoric Acid in Bone.-The chief sources of phosphoric acid are four in number; namely, (1) bones of animals; 2) phosphate rocks, which are the fossil emains of prehistoric marine animals; 3) phosphatic guanos: (4) the mineral apatite. Of these, fresh animal bones rank first in people's esteem, although there can be no doubt that phosphoric acid in a soluble condition has exactly the same value whether derived from fresh bones or from any other source. Sometimes the agricultural chemist concedes to the fresh bone phosphate more than is just; and

Shoring a north-west corner planted to
erergreans and ornamental shrublery. a hemlock or spruce sereen; $b \mathrm{~b}$, gronps of $a$ de-
cidous shrubsery cidous shrubbery ; c, golden relin
evergreen shrub; a purple beech.
be used to good advantage. An average quality is worth $\$ 30$ or more per ton, and usually can be bought at ahout that price. It is a simple bone phosphate of $\operatorname{lime}$.

Suppose, however, we must have the phosphoric acid in a more immediately available form. Thus we find it in dissolved bone, which is bone treated with sulphuric acid. This latter tears one third of the lime out of the combination, and unites with it to form sulphate of lime, commonly called plaster, leaving an extra portion of the phosphoric acid attached to each remaining portion of lime. In this form it is called a double or bi-phosphate of lime. That portion of phosphoric acid which was torn out of its combination with lime by the sulphuric acid is very loosely attached to the remaining lime, and for this reason in a soluble or avail able condition. The other portion of phosphor
The treatment with sulphuric acid may now be continued. Another portion of lime is then taken out of its original com bination, and forced into a union with th sulphuric acid to sulphate of lime, so that three portions instead of one, as origi nally, are left for each portion of the re maining lime to take care of. This attach ment naturally is still less permanentand strong than in the case of the bi-phosphate, and the two free portions of phosphoric acid are always ready to leave the lime combination on short notice, and either give themselves up to dissolution for the purpose of entering plant structure a once, or to fall in with some stray parti cles of lime in the soil, or some other base, and thus "revert" slowly to a bi phosphate, or even a simple phosphate. The result of the continual sulphuric aci treatment is called, by fertilizer men "superpliosphate," or acid phosphate. Iu this we have most of the phosphoric acid in a soluble form, or immediately "avail able," and just in this form it exists in our high-grade fertilizers. We have no means of counteracting the natural ten dency of the free phosphoric acid to "re rert" when applied to the soil. But this is not usually a serious matter. The "re rerted" phosphoric acid is again subject to chemical action and decomposition in the soil, and therefore may well be con sidered a railable, even if notinımediatel soluble. Under average circumstances the reverting process is but slow, and tho crops liave a good opportunity to help themselves to the free article. The pres ence of free lime in the soil, of course, accelerates the process of reversion, and where superphosphate is used, or to be used, lime should not be applied.
We have seen that the sulphuric acid treatment, by which the phosphoric acid is made inmediately soluble, also results in the formation of sulphate of lime Consequently, the more soluble and there
fore more valuable the phosphoric acid in bone phosphate, the greater is the quanti-
ty of sulphate of lime or plaster contained ty of sulphate of lime or plaster contained
in it. The absenco of the "plaster" would simply signify that the phosphoric acid is in the insoluble form of phosphate of lime. Here it may be well to call attention to a very cominou misunderstanding, A farmer in my neighborhood receutly told the agent who furnished him a highgrade fertilizer, that he felt morally cer-
tain the fertilizer was largely composed tain the fertilizer was largely composed
of plaster, or "adulterated" with plaster, as he termed it. He thought he had been cheated, and intimated that he could buy plaster cheaper uuder its proper name.
Any man who purchases a genuine high-priced fertilizer, I mean one of honest make, and at an honest price, certainly also gets with it a quantity of sulphate of lime or plaster. A high-grade fertilizer or superphosphate could not be bought without it. But he gets this plaster virtually free of charge, in so far as the dealer only charges him for so much phosphoric acid, so much nitrogen and so much pot-ash-if the fertilizer is a complete oneor if a dissolved bone simply, for so much nitrogen and so much phosphoric acid.
The "plaster," that is, sulphate of lime, is The "plaster," that is, sulphate of lime, is
thrown in, and in fact, the more there is of it , so long as all of it is only the legitimate product of bone and sulphuric acid, the better for the buyer.

The phosphoric acid in bones can alsn be made partially available by burning, either in open fire or in closed ressels. By the latter procedure we obtain what is called "bone-black." The result of burning bones is chiefly phosphate of lime, without nitrogen. To make it immediately soluble, however, it will still have to be treated with sulphuric acid, and we then get the "dissolved bone-black.

Sometimes the farmer has a chance to buy up old bones very cheaply, or to
gather quite a lot from accumulated stock gather quite a lot from accumulated stock on the farm; and the question comes to
him, in what way these bones can best be utilized? This question will be considered next.

## barb wire fence gate.

I send you the description of an appliance for fastening a barb wire gate without pulling off one's arms and tearing one's clothes into shreds. In stretching jour wire, let it run across the opeuing where the gate is wanted. Staple it fast to the gate-posts with extra long staples.
Set your braces as usual, then cut off the Set your braces as usual, then cut off the
wires at post just outside of staples. Staple the gate wires to $2 \times 2$-inch stakes with an oak $2 \times 3$-inch piece, B , at end of Wires, with a small notch cut at upper wire, 48 inches long; fasten one to the bottom of the post, A, for bottom
loop. Nake a ring of the other, and with a staple fasten it to the top of

stake, B. Cut a piece of oak scantling $2 x 4,40$ inches long; cut a notch $1 / 2$ inch deep, 2 inches from one end. Bore a
$5 / 8$-inch hole through the 2 -inch way, 14 $5 / 8$-inch hole through the 2 -inch way, 14
inches from the notch. Bore a similar hole through post A, 11 inches from the top, from outside to inside, or vice versa. Bolt the piece of $2 \times 4$ on the outside of post, with the nutched side away from the
gate. Run a piece of wire areund the post and 2s4, and fasten with a staple on the outside of post about two inches
above the end of the $2 \times 4$ picce. When above the end of the $2 \times 4$ picce. When
closing your gate, set the lower end of stake, $B_{3}$ in loop, $O$, and draw the upper
ond tight. Lowwer the upper end of lever
(as in Fig. 3) so that ring, , will pass easily over into notch. Straighten it up to it place, aud fasten with wire at boltom. W. H. Welles.

## sell the scrub sheep.

Sell the scrub sheep if they are not paying their way, provided you are able and willing to give the kind of care and feed that the more artificial breeds require. If you are not ready to give improved care, improved by such improved care, and inust have it, or by necessity go back to scrubs. These are stubborn, every-day facts that wide-awake men know by experience; better if it were by observation, since it costs so much less.
The time is rapidly approaching, we hope, when there shall be no need of scrub stock. But it nust be when scrub stocl

will not pay; when we shall have changed our ideas of what a pasture should be; when a field is not a good and sufficient place in which improved animals shal maintain themselves; when a field of weeds and briars shall not be looked upon as a perfect pasture. When we study what a proper pasture is, and secure it, then we may consider ourselves able to give improved care, feeds and pastures to
improved sheep and other animals, and let the scrubs go. Wo must first be able to quit scrub care, then we may make im to quit scrub care, then we may make im
proved care pay, whether we have ped proved care pay, wh
igreed stock or not.
It is money we are raising stock for Pedigree may and may not help us to do so. One breed that may suit another farm may not suit ours. The purpose for which a neiglibor raises sheep may not suit ou farm nor our way of doing. The only test is to make our business pay, our farm
pay, our sheep pay. Theories will not do unless the practices are right, unless our economies are right. As long as we have men who are careless, or who have not the intelligence for improved care, just so long they ought to raise scrub stock, because it is all the kind of stock they can make any money out of, and if it pays
them they are not ruined by it. They will fail if they attompt improved animals on scrub methods. This is notadrocating scrub stock or scrub animals; it is claim ing a fitness for all things.
Let us not forget or overlook the fact that there are regions so circumstanced and men so circumscribed that are only suited to the commonest grades of live-stock. All these chauges come by education in
agriculture and general economies. It is simply throwing money away to invest it in improved stock under the conditions named. It would be criminal, the ineanest kind, to induce such a man as we can think of in south Missouri or southern Georgia to pay the lowest price for wellbred, pedigreed animals. Shall we con-
tinue to abuse that sort of a man for staytinue to abuse that sort of a man for stay-
ing with his scrub cattle or hogs or sheep? By no means, since they are paying him well. To illustrate the point, I know men in southern Georgia and western Florida who have the sorriest-looking cattle an nlinois man ever imagined. They are thoroughbreds without a doubt. For three hundred years they have lived in those piney woods without care or breeding. They are as they were when imported by the Spaniards from Guinea. They will
dress, when five or six years old, 450 dess, when five or six years old,
pounds each. It sounds like a joke to say there is money in them, but there is, since
they have not cost their owners one single dollar per head. So of their swine, so of their sheep; and who would permit those men to venture in iunproved stock until
they have intelligence and facilities for they have intelligence and facilities for It ought
It ought not to pay to raise scrub stock therc are plenty igan or New York, but therc are plenty of meu in cach of these
states that do not inake what they bought, for improved stock pays. Why? Because they have not the ability or intelligence to get the best results out of the animals. They have not lcarned how. They are scrub men, knowing only scrub methods, and must not change until they know better. As changes come, a spirit and uecessity for grading up will come to those out-of-the-way places and behind the-times-men, as it has in central Illinois within the last fifty years, to pushing,
progressive men. No well-situated man progressive men. No well-situated man
in Illinois would acknowledge that he is raising scrubs of any sort. There are plenty of them, though, who hav bred to high-priced sires for years and years, but by reason of poor methods, are always overstocked with shabby animals. They might as well have good scrubs, ex
cept for the name of it. It does not mat ter what a man professes or knows, if h does not practice so as to gain better results.

John Smith.

## raise your own cows.

A half dozen good cows are worth a doz en poor ones. It takes as much food and care to keep a poor cow as it does a good one, and while the former barely return enough at most to "pay her way," the latter returns a comfortable profit to her owner. Those farmers who are looking around for really good cows know how difficult it is to buy one, when found, at a price they can afford to pay. Yet they frequently keep "looking around" for several years, when they might, in the same time, have raised several choice
cows themselves. Of course, it takes time to rear a good-sized herd of profitable cows, but this expenditure of time is only in lieu of the money expenditure abso lutely necessary to purchase a desirable animal. As a farmer usually can spar the time better than he can spare the cash, it is easy to see what is the best course to
pursue. There are but few farmers who do not now have at least one, two or three cows fairly good, which can be used as a start in improvernent. Do not use a scrub bull merely because your neighbor happens to have him and charges nothing but rather pay a fair price for a good pure-bred one. Save all the heifer calves and carefully raise theun. When they are
about three years old, and less than four about three years old, and less than fou
years from the time the improrement is started, you will have fine, young cows. Other calves will also be coming on, from them as well as from the original cows and in five or six years there will be quite a herd; the common, unprofitable cow having been worked off to the butcher Many a farmer wishes he had commenced five or six years ago. He does not think that le will likely say the same thing five or six years hence, yet does not commence now. Good, pure-bred bulls have now become so well distributed, that the use o one can usually be secured without much
difficulty, while a good bull calf can be had from such stock, eligible to entry, for a comparatively low price. Enough can as a rule, be counted on from neighboring farmers' herds to pay for his keep.-Amer

## can Agriculturist.

## WINTER EFFECTS OF UNDERDRAINAGE

Some of the minor advantages of under drainage assume great importance in win ter. It is quite apparent upon observation that ground properly underdrained heaves much the less in winter. It is the expansion of the water in the soil, at th moment of freezing, that heaves the soil Dry earth does not expand at any temper ature. Draining protects the soil against an excess of water, and there is no excess of moisture, only capillary and hygro scopic moisture, to be expanded by freez ng. The effect of the expanslon of thes is comparatively slight. This 'partly ex plains why, other things being equal winter wheat succeeds best on under drained ground. Undcrdrainage often
other way. Not infrequently waterstands on the surface of flat land, freezes intoico and smothers the wheat. It is rare that an cntire field is so damagce, yet sometimes large fields are altogether killed out ill this way. But damage to patches, over which the water collects, is quite frequent Underdrainage, which usually disposes of surface water, prevents smothering the wheat
There are sevcral material advantages in tbe winter spreading of stable manurc and somie other fertilizers. A respectable minority, if not an actual majority, of farmers would find such handling of ma nure the best, provided the loss from the flow of surface water could be avoided Underdrainage at least largely reducc this flow; it carries the water through in stead of over the soil. The water, ou its
way to the undcrdrains, carries the manure into the soil, where it is filtered out, instead of carrying it away. The water does not carry away so much of the soil or form so many gullies, something the farmers will surely appreciate when ever there is a thaw during the winter, and especially during the spring.-American Agriculturist.

## SUBURBAN LAWNS

In the matter of lawns, I want particularly to speak of the homely grass patches about the farm and suburbau houses of people of moderate means, and to sug gest simple ways of caring for and in proving thenı at a small expense. And first, about the grass-the peculiar feature of a lawn-June grass, Kentucky Blue grass (Poa pratensis), is distinctively the American lawn grass. It is really more than that, for anywhere north of the gulf states we would have to fight hard to pre vent this persistent and beautiful gras from taking possession of any spot wher we could not subject it to the plow. I
know of only one grass that can hold its own on a dry, light soil, such as is every where common, and, when possible, is preferred for the site of dwellings, agains the June grass. Orchard grass spreads only by seeding, as it has no running root-stocks, but a tuft of it once in pus session cannot be killed out by the crowd ing of other grasses. Such a tuft it is al most impossible to run a lawn mowe oter, and to dispose of it effectually the spade must be resorted to. On a close sod of June grass, however, it is difficult fo the light seeds of orchard grass to get hold.
As June grass will take possession at last, and is really the best grass, and the only one that will hold on where the soil is light, and there is much treading, it might be, and has been, said that we should sow it alone. Yet, though so persistent and prevailing, June grass starts rather weakly, and I believe that the ordinary lawn mixtures are best, al though only white clorer (and dande ion) will long renain where June gras has a cliance to spread.-Vick's Magazine

## BOOT-JACK

I send you a rough sketeh of a boot-jack which has been in use orer fifteen years, and has given good satisfaction. It is two feet two inches long, six inches wide at

the toe and slopes down to five inches in width at the heel. The cut will show where the cleats are nailed on. The slot in which to put the boot is cleven inches in length, four and one half inches wide at the toe and two inches wide at the heel

## J. B. HAGOOD.

## INSECTS ON FRUIT TREES.



## (Gut furm.

## MARKET GARDENING AS A BUSINESS.

BY Josepr.
Peter Henderson, the reteran market gardener, read a paperon this snbject before the Massachusetts state board of agriculture, at their meeting December 3, 1889. ${ }^{\circ}$ His adrice is usually good and to the point, and a feri extracts can hardly be otherwise but welcome to our readers.
There are thonsands of farmers, says Mr. Henderson, whose lands are near to the smaller towns, hotels, watering places and summer boarding-houses, where, if the farmer would derote a ferr acres to fruits or regetables,
there is scarcely a doubt that every acre so culciriated would be much more profitable than if deroted to ordinary farm
crops. In most cases, success would be proportioned to the quality of the land, but no one need hesitate to begin the cultiration of either fruit or vegetable crops
on any soil that will raise a good crop of corn, hay or potatoes. The farmer, when he grows to supply a local demand, such as for hotels, buarding-houses, etc., has a consnmer.
When it can be done, select land that is level and well drained by haring a than ten inches in depth of good soil. than ten inches in depth of good soil. serve the farm crops; if these are not strong and rigorous, rest assured that the
soil is not such as will answer for your soil is not such as will answer for your market garden work. Again, get as near
to your market as possible, and see that the roads leading thereto are good, especially if your market is a large city. The business of market gardening, though healthful and fairly profitable, is exceed-
ingly laborious, from which any one not ingly laborious, from which any one not 15 shirk. The labor is not what might be called heary, but the hours are long. No one should engage in it after passing middle life; neither

The capital required for beginning market gardening in the ricinity of a acre for anything less than ten acres. The first year rarely pays more than currènt expenses, and the capital of $\$ 300$ per acre is all absorbed in horses, wagons, implements, sashes, manures, seeds, etc. If the capital is insufficieut to procure these properly, the chances of success are cor-
respondingly diminished. Above all, be careful not to attemapt the cultiration of more land than your capital and experience can properly manage. More men
are stranded, both on the farm and garden, in attempting to cultirate too much, perhaps, than from any other cause.
It has been the practice in the past to use hot-bed sashes almost exclusirely for the purpose of forcing vegetables, or for-
warding plants for use in the openground. But of late jears greenhouses are being largely used, both for the purposes of forcing lettuce, radishes, beets and cumbers, as also for growing plants of
early cabbage, cauliflower, lettuce, celery and tomatoes; and in either case, we beliere that in well constructed greenhouses not only is the work. better done, but that the saring in labor in three years will greenhouses.

Mr. Henderson's method of plant growing will be spokeu of at another occasion. somewhat reduced yields on the market gardens in New Jersey to the crowded condition of the land, which does not allow giving the soil a needed rest by seed-
iug to grass or clover, as is usually done on Long Island;' etc. He belieres that in a garden of fifteen acres, if one third is laid down in grass each year, and the bal-
ance kept muder the plow, the gross receipts will be greater, and the profits more, than if the whole fifteeu acres were under tillage; for less labor wrould be required, and manure tells bette
land than on land under tillage.
Attention is also called to the high ported peat moss is used for bedding. Such manure is thougbt to be worth twice ge much as ordinary straw manure, No
donbt there are swamps in the United States composed of peat moss, which may some day prove a gold mine to their discoverers.
The ordin
The ordinary stable manure, Mr. Henderson continues, is yet used almost exclusively by the market gardeners of Hudson connty, N. J., and that, too, at the rate of seventy-fire tons to the acre. Very little concentrated mannres are nsed on our lands, which are continually under tillage; these are always more telling on land broken up from sod, where the
fibrous roots of the sod stand in lieu of stable manure.
I wrould adrise all that intend engaging extensirely in the business of market gardening should hare attached to the business greenhouses to a greater or less extent, not only that they need never fail to gire a good retnrn for capital inrested, whether for use in forcing regetables,
fruits or flowers, but, in addition, that the labor of the workmen can be utilized as well in midwinter as in midsummer. This enables the employer to keep his hands all the year around, instead of having the annorance of hiring inexperienced men when the work begins in spring. From my first beginning of the business, now over forty years ago, we hare alwajs used greenhouses in con-
nection with our outdoor gardens, and in consequence hare been able to keep our old hands, at least twenty-five of whom have been with us from ten to thirty years. We pay these men nearly twice the wages of inexperienced workmen, and find it has paid to do so

## cabbage and cauliflower seed.

There is no crop with which snccess depends more on good seed than does cauliflower, and cabbage is only second to it rank with onions. Here in America we hare a popular prejudice against European cabbage seed and a similarly strong prejudice in favor of European cauliflower
seed. The best cabbage seed is grown on Long Island and on Puget sound, one being about as good as the other, if otherwise equally grown and handled; but I hare had full as good success with many cabbage varieties, seed of which I obtained in various parts of Europe, principally from the "fatherland." The best Winnigstadt erer grown by me came from seed
which I had myself imported. With most of our large, late sorts, howerer, we probably go safer when planting our own Long Island or Puget sound seed, can be had at a much lower price.
With cauliflowers, the case stands rerersed in almost every particular. The only reliable, safe seed comes from
Europe, the Extra Early Erfurt and its strains (of which Snowball is one) being the leading kind; and this seed costs at wholesale from 36 upwards per onnce, so that its price is in a measure prohibitory. this is the reason I have watched the enterprise of H. A. March, of Fidalgo,
Wash., with so much interest, and mentioned it before in these columns. He is engaged in snpplying this demand for choicest cauliflower seed from American
soil, and to judge from the samples I have receired from him and tested, I infer that Puget sound is as well adapted to the production of a fine quality of seed as any country in the world, and as much as to that of cabbage. Moreover, Mr. Jarch offers his Extra Early Erfurt, Snowball, etc., to seedsmen at only one third the
figures asked by the growers in Europe. If this cauliflower seed business at the far West is carried ou extensively enough, such seed will soon be within the reach of all, and we can all hare good cauliflowers. Remarkable about this Puget sound seed is the size of each individual seed, and the unusual strength and rigor of each indi-
vidual plant. Imported seed cannot compare with this. Some of this seed may not unlikely be palmed off on the unsus-
pecting buyer as a "new, improved pecting buyer as a "new, improved
variety," or at least as "genuine best iulported" seed; but I do not think the purchaser will fare any the worse for it. At least, such is
Prof. W. J. Green, horticulturist of the Ohio experiment station, has the same high opinion of it as y bare. He also has
had it on test for two years. In a letter recently written and now before me,
Prof. Green says: "Regarding this Puget sound cauliflower seed II do not hesitate after careful trials, to say that it ranks with the rery best. The large, plump seeds are so fnll of ritality that almost every one produces a healthy plant that will form a head, if circumstances are at all farorable. Not only does the seed germinate quickly, but the plants are rery rigorons and healthy in all stages of
growth. Heading qualities depeud, of course, npon the quality of the stock, which has been dereloped by careful and long-continued selection. If the seed sent us is a fair sample, the grower need not hesitate to claim that it is as good as aur that can be produced, so far as quality is concerned, and in ritality and correspond ing rigor of plants it excels imported seed by twenty-fire per cent. I shall not cauliflower seed, for I beliere it to be the best in the world.'
This opinion will undoubtedly be strongly expressed in the station report. I mention it only for the sake of attempting to dispel the popular prejudice against home-grown canliflower seed. If seed dealers offer it under its true name and
character, my readers need hare no fear to gire it a thorough trial, but at the same time they might insist on the pric ilege of having it considerably cheaper than the imported Extra Earliest Dwarf Erfurt.

JOSEPH.

## Orchard and Small Fruits. <br> enard and small Frui

## ROOT GRAFTING.

This operation may be performed from January to April with success, and I have root grafted as late as May. It is best to hare the work done by the first of March. The stocks or roots used are grown from seed for the purpose. Thrifty, one-year
roots are better and more easily worked than two-rear roots. Do not use crab roots except for crab trees, for they make the large-growing kinds dwarfish in habit. The roots should be dug aud the scions cut in the fall and should be kept dormant, buried in sawdust or moss in a rery cold cellar or pit. The method of union is known as thip graftiug, aud consists mainly in fitting the two parts so closely together as to insure a union of inner the root are sometimes used to graft on, but the whole root is much the best. The cuts are made and put together as shown in Fig. 1. The stocks are washed to take off the grit that it may not
dull the thin, sharp knife necessary for this opera-
tion. Their tap roots are shortened and the tops are remored at the
collar of the root
with a smooth,
sloping, upward
cut; in the cen-
ter a downward
cut Ieares a
tong ue. The
scion is cut on
its lower end
with a sloping,
downward ent, corres pondiug
cut on the root. The two parts are then
neatly joined together, the inuer bark neatly joined together, the inuer bark
of both being in close contact on oue side at least. The joiut is then firmly wrapped iner with narrow strips of waxed paper, through moth, or with cotton warp drawn then packed away in sand in a cool cellar. They should be planted iu uursery rows in the spring, setting them in the soil as deeply as shown in Fig. 2. Handle them carefully.

## CIDER VINEGAR

To make first-class vinegar $I$ have follored this plan: Use only sound fruit from late varieties of apples and throw out all leares and rotten stock, for a good article cannot be uade from it. Use ouls
 Nert barrels or cerr old barrels are best be repeatedly washed with boiling water for several days and once with thin, hot lime wash before being used. After the barrels are filled at the mill, allow them to set in the open air, if the weather is no Keep them filled up to the bung the many impurities found in new cider After this first strong working is over, the reuld be to cellar and the cellar should not fall much below $50^{\circ}$ for good results, and a higher temperature will promote the quicker formation of vinegar. As soon will be sometime in Januarr, the cider should be racked off from its sediment into sweet barrels. This will cause it
to ferment agaiu, and it should be racke off whenever it stops working. The reason for this is that in order to form rinegar, fermentation must be carried to
its full extent. Racking (drawing off) i done in order to remore the cider fron the sediment which is fornied by fermentation, and also to bring it in contact with mentation. It is a most excellent plan
after the cider has first stopped and has been racked off from its sediment to rack it of as often as possible. It canestallishments there are many apphance for doing this, and the cider is kept warm and racked off frequentlp.

There are just a fert things to remember in order to keep apples. They should be sorted closely and the attenpt only be
made to keep the best. They should be made to keep the best. They should be
packed iu tight barrels and "headed up," packed iu tight barrels and "headed up, prasticable. I hare generally found it best to head the barrels up after sorting on the northerly side of some building or in the shade of trees, protected from rain until there was much danger of their storage in it. There should be a thermometer in the cellar, and great care
shonld be taken not to allow it to get too
warm. night in warm weather and the rentilators kept closed during the day. I gen-
erally opeu the barrels before storing for necessary. Of course, apples may be kept in many other wass, but this way I hare expensire as any satisfactory method. If
stored in bins, they should be mado small
INQUIRIES ANSWERED
Fertilizer for Grapes.-C. M. R., RussellVille, Ark. Any good fertilizer is good for
grapes, although it is best to aroid using much
barn-yard manure on land that has much or-
ganic matter in it. ganic matter in it. On most soils one of the
best fertilizers is ground houe (not hurned).
It shen pounds per applied On some the rate of about 800
poudred about one
huudre pounds of muriate of potash per acre is added with the bcne it will pe much more
effectire. It is necessary, in order to obtaln
a proper idea of the wants of any land, that
experiments should be carrled oll to efective. idea of the wants of any land, tha
a proper
experiments should be carrled oll to 10 te the
effect of different fertilizers on the yield in the
crops. To this extent, certainly every farm
 soil may be especially richoin potash, while
auotheris rich in phosphoric acid, etc.

 mulch slinillia
plants appear.
from

A position Is a good thing to liave. A posl-
thon as steuographer is secured byy Chaffee's
Plionographic Iustitute, of Oswego, N. Y., to sweet, clean barrels. Musty barrels are a

## stored in in size.

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## (Gut futur

## THE POULTRY YARD

## WHERE THE LOSS OCCURS

The loss in keeping poultry is uostly in the winter season, and results from keeping over until spring stock that consume food without giving any return. Such stock consists, usually, of immature pullets, overfat hens, surplus cockerels, latehatched chicks and moulting hens. Tbe food is not the only consideration in the matter, as the room is also taken up and occupied. A dozen laying hens in the entire flock have the duty of convincing heir owner that poultry pays, while the others eat their share of the food and refute the impression made by the profitable members of the flock. Nearly all poultry houses contain unprofitable stock, aud the only reason for permitting such is the ex pectancy of each heginning the work o gg production daily. There is no half way house in the matter of poultry keep ing, and but little reliance can be placed on the future. It is the ever-present that we must meet, and no one should attempt to wait for a profit. The best hens that re known will find it difficult to recover lost time, and this is more applicable to the surplus stock that give no promise of production until the spring rolls around Loss of time is loss of profit, and the safest and surest mode of avoiding loss is to keep no unproductive stock.

ROOT CROPS AND POULTRY
If roots and ensilage improve the health of animals, and cheapeu the cost of the food, they will do the same for fowls. I is too expensive to feed grain exclusively when the winters are long and severe, and as the hens prefer a variety, they should have it. A quart of corn meal, added to half a peck of cooked turnips, will provide a better meal than can be procured ither ther the corn meal or the turnips -tbe combination of various elementsthat enables the hen to provide the different substances that make up the combination called an egg. Lime, phosphates, nitrogen, magnesia, and even water, are elemeuts that are absolutely essential, and many foods contain an excess of some kinds and a deficiency of others. When a mixed food is given, there is a partial balaucing of the needed elements, and the several varieties assist in digesting each other, thereby avoiding waste of undigested food. Finely chopped ensilage or clover, potatoes, turnips, carrots, or any succulent, bulky food, served with an admixture of a variety of ground grain, wil provide the hens with a larger supply of egg elements and entail less cost for food than when the hens are compelled to subsist entirely on grain.

## A FEEDING-PEN.

When feeding growing chicks they should have all they can eat, while the hens shouldoonly be fed moderately, so as to counpel them to scratch and exercise, aud thus keep in better laying condition. As it is sometimes necessary, however, to keep the hens aud young stock together, some plan nust be devised to provent the heus from eating the food intended for the chicks. This may be accomplished by haring a coop, about two feet wide and four feet long, made of lath, closed on the top with lath, also, with openings large enough to admit the chicks, but too small coop the food may bo placed, and the chicks can then eat as often as they wish but the hens must work.

## THE DUST-BOX.

The dust-box must be under cover, a way from the rains, as dampness will cause the dust to became lumpy, as well as freeze in cold weather. The heu prefers dry, fine dust, and the finer it is the better. For that reason coal ashes should be sifted twice, so as to avoíd any coarse portions.

## CONSUMPTION SURELY CURED.

To orne EDrror:--Please inform your readers that 1
have positive revued y or Consumption. Py is timely use thousands of hopeess cases save been permanenty
cured. $I$ shall be glad to send two bottles of $m$ my remed $y$



## SHIP IN LIGHT COOPS.

Every pound of weight in the coop is so much more to bo paid for as freight or expressage when the birds are shipped. coop should be strong but light. bottom should be of boards, but a few lath, with the sides aud top of muslin, will enable you to make a coop that will not'weigh heavily, will be more convenient to handle, will cost less than if entirely of boards, and will protect the birds against draughts of air, which is detrimental to them on the journey. Give plenty of room in the coops, as crowded
birds will lose flesb before arriving at their destined point.
the perfection feed-trough.
The "Perfection" is the name given a feed-trough by Mr. B. C. Palnier, Water Mills, N. Y., Fig. 1 showing the trough ready for use. Fig. 2 is the design of the ower part, and Fig. 3 is the cover, which fits over Fig. 2. The illustration shows the design so perfectly that a description
is unuecessary. The trough is four feet


Fig. 2.-Lower a art of trough.
long, or the length of a lath. It is intended for young chicks, the sides being f lath, or the whole trough may be mad of lath. As the cover lifts off, it is easily cleaned, and also very light. If preferred the lath on the sides may be regulated so as to enlarge the space between (for the heads to enter) as the chicks increase in size.

## board floors in winter.

Board floors are warm, and if kept covered with sand or dry earth, such floors may easily be kept clean by sweeping them with a broom. It is better, however, to first throw an inch of dirt on the hoors and throw leaves or cut straw on the dirt In this manner the hens may be induced to scratch and exercise. Exercise wind avert feather-pulling and other vices, and keep the hens in good health. Earth floors
are usually damp, thas promoting the roup, which is a very prevalent disease in all sections of the country

## LEGHORNS FOR MARKET

The old expression that a "Leghorn is not a market fowl," will soon be a thiug of the past, as that opiuion has been demonstrated to be erroneous. The Leghorn is small, it is true, but the small fowls are preferred in market, though the contrary is supposed to be the case chick, it will weigh a pound as soon a the chick of any other breed, and as it is well supplied with breast meat, has golden yellow legs and skin, and presents an attractive appearance, being about tho proper weight for market, it

## FEEDING IN TROUGHS.

Unless soft food is being given, the trough should never be used for holding the food. Grain should be scattered, so that the hens will be compelled to hunt for it. In that manner there will be no opportunities for the domineering hens to secure more than their share, and each member of the flock will have an equal chance to secure a proportion, the hen working the hardest being the most for tunate. Such hens are usually the best layers.

## A HOME MARKET. \#

There is a home market for eggs, espe cially for strictly fresh ones, and the home market can be supplicd with less expense than to ship eggs to a distance. But the home market will not come to you. If
you wish its advantages you muist seek it,
"display your wares," and build up trade, satisfying customers by giving them something a little better than that which they usually obtain. Fresh eggs and chooiee poultry do not "go begging" if customers are made to feel confidence in your goods.

## PERMANENT NEST-BOXES.

Of all the abominations that can be devised for harboring lice and increasing filth, that of fastening the nest-box to the poultry-house in a manner to easily prevent its removal, is the worst. A nes box is the place selected by lice in prefer-
ence to any other, and it should be so ence to any other, and it should be so
arranged as to permit of taking it out of the honse entirely, in order to give it thorough cleaning.

## climate and breed.

On Thanksgiving day the temperature in Dakota was 25 degrees below zero, while in New Jersey it was 50 degrees abovedifference of 75
blrds in Now Jersey may be foraging in if Ready for Usk
he open air, those in Dakota are confined in the poultry-house. For Dakota, a bird
should have a small comb, be well feath ered, and contented in confinement, tb Brahmas, Cochins and Wyandottes being suitable; but New Jersey will permit o more activity in the breed, and prefers owl that will forage at every opportunity The question of which is the best breed depends not only on climate, but also on the conditions of management.

POUNDED GLASS FOR POULTRY.
Grit is sometimes hard to procure, but roken glassware can always be had. It may be a matter of surprise to some that hey are advised to give pounded glass to poultry, but it is harmless to them, and bservation will convince the skeptic that when the hens have been unable to pro cure grit, the pounded glass will be swal
lowed with avidity. Never use colored glass or crockery, as it may be poisonous but keep a box of pounded glass, pounded crockery, or some other sharp material where the hens can get it at all times, especially wheu the ground is frozen, and such material is scarce.

## OATMEAL FOR CHICKS.

As there are several kinds of oatmeal it is not out of place to describe the kinds used for chicks. First comes the ordiuary ground oats, which is really corn and oats ground together. This is cooked or scalded ccording to the age of the chicks. It may be sifted, and the coarser parts fed to adult fowls, or it may be fed entire Granulated oatneal, sometimes known a pin-head oatmeal," or "oaten grits," is
coarsely-ground oats, sifted free from chaff, and is almost entirely oats. The rolled oats is sold by all grocers, being oats that have undergone a manufactur ng process, cooked, and so prepared that it comes in tho shape of flakes. It is ver ight, and is used by housekeepers for tb production of "instantaneous oatmeal gruel," and is the best food known for ery young chicks.
"A $\$ 2$ WASHING MACHINE FREE."
To introduce them, we will give away 1,000 self-operating washing machines. No washboard or rubbing required. If you want one end to the Monarch Laundry Works, 23 Pa

If the hens have the run of a large field where they can separato and forage in different directions, the number of males is not a malter of great importance; but one male for ten hens will be as many as should be retained. When the fowls are confined in yards, however, only one male can be kept in each yard, whether tho number of hens be great or small, as two extent as to render the whole unserviceable.

## muscovy Ducks.

For producing an excellent carcass for market, the Muscovy duck, crossed on
the common kinds, is equal to any of the large breeds. It is very largo and hoavy,
and the cross results in a very conpact bird, plump on the breast and attractive
in appearance, "selling oul simb"

Buiter Always gives a bright natural color, never
turns rancid. Will not colorthe Buttermilk turns rancia. Will not color the Buttermilk,
Used by thousands of the best Creameries and
Dairies. Do not alloww yourdealerto convince you
that some other kind is ustas good. Tell him the
BEST is what you want, and youmust have Wells.
REshats For sale everywhere. Manufactory, Burlington. $\dot{V}_{t}$

 MONITOR INCUBATOR,

## IMPROVED EXCELSIOR IIGCUBATOR



## MAKE <br> HENS <br> Hestar星


CIDER

 Pennsylvania Agricultaral Works, York, Pa


OIL CAKE MEAL. AEAN Process.
The mosthealthy, economica and proitable
of all fecds. Use THOMPSON'S
best HEAL the best food known for MLLCH COWS. Itincreases
guantity and quality of mill. For fattenin 8 Beef
for Feedins Oil Meal." Send your orers to
THOMPSON \& CO Dian






Front Soutemer Illinois-For fine counies, this part of the state takes the cake. This putatoes, all kinds of garden regetables and all kluds of fruits-even the fig does well. To-
matoes and musk melons are grown rery extensirely. There rere shipped from this
county six hundred car-loads of herries, fruits and vegetables this year.

Fron Pentsyltania.-Most of the land in Tioga country is tillahle and very fertile. What hemlock timber. Tue lumber business is quite and hemlock hark si per cord. There are six seat. Work is plenty and wages are good. Our
crops last season were very good, excepting
M. A. B. potatoes and a
Knapp, Pa.
Froy Penvsylvania.-The land in Bucks fifteen hushels per acre; corn and oats, about fifty. Our best money product is milk. Land
without improrements is worth from $\$ 20$ to $\$ 30$ per acre; improved land, $s 55$ to $£ 5$. . I am a
protectionist, but I would rote to put the necessaries of life on the free list. We par too much for them, according to what we get for produce it. Fresh cows are worth $\$ 35$ to $\$ 45$; orses, 8100 to 8165 ; hay, s4 per tou; pork,
hundred; wheat, 90 cents per husliel; ry
crn, 50 ; oats, 32 , and potatoes, 75 . C. H. orn, 50 ; oats, 32 , and
Trumbauersille, $P a$.
 haps ove of the richest in the Tnion, is in the
upper peninsula, and is noted for its iron and copper miues. The largest copper mine, exceptgold rauge in this county is, some say, worth Some of the gold veins are remarkably rich.
Even pure gold is found. A dozen gold mines are being worked. The largest one had a vein
eighteen inches thick at the surface; it is now


 Jrarquette, 3Tich
, them is good.
Frox FLokid. .- have heen in Florian since last January, throngh the worst of its
seasons-the dry and the wet-and don't know of another section of the Unlted States I
rould he rilling to leave it for. As to drawhacks, there are enough here as elsewhere, hut
none to he compared with the cold of any one of the northern states. As to the drawbacks, the worst one by far is the newness of every-
thing here. One railroad has been throngh
here only three years; others are chartered here only three years; others are chartered
through and on down to Fort Myers, twenty-
are miles farther south. We are only about five miles farther south. We are only about
tirelve hours' ride from Jacksonville, hut are
in a much better section of country naturally
 darker, mostly: the thermometer does not
hare so wide a range. On the hottest day last
summer, it didn't go over $92^{\circ}$; seldom goes summer, it didn't go over $92^{\circ}$; seldom goes
down to $32^{\circ}$, eveu in December, the winter
month here. One of the worst fealures of this section is the almost ntter lack of efficient lind

 ond




 ain
 his jof rie pan wesitris.







and good fodder, but no corn. The second
rear I made three hales of cotton on sis acres, year I made three hales of cotton on six acres,
and twenty busbels of corn to the acre. Those were good crop years. The third year I made hushels of corn to the acre 1 acres, and ten hushels of corn to the acre. I hare not tried went into the timher, and I raise my cotton here, and use the pralrie for oats, millet and crab grass. The trouhle with the prairie is that in potash and phosphorlc acld. I use kainit and acld phosphate, 200 ponnds per acre and make good oats. I have lots of cattle and make great quantities of manure hy this
means. I makefine corn where I use fertilizers. Underdraining is the great need of the prairie; this costs mones, and as long as prairie will not be drained. As it is, it raises heef, mules and horses at little cost. To the aise stock, go to Grand Prairie; but lf you
rant to farm, give it a wide berth. D. B. W. is ant to farm, give it a wide berth. D. B. W. is malned on the prairie as I did, he would have through that region, and it is fast becoming a
W. M.
ruit-growing center.

Frour
-Lee
county is
sixty-six miles north and south and seventy-two east and west, with eighty miles of gulf coast, and
innumerahle fertile islands, all in tropical Florida and ahout free from frost. Fort Hers, Its countr-seat, is on the sonth bank latitude. In round numbers it is four hundred miles sonth of Georgia, two hundred orth of Cuha, three hundred south of Jackfive south of Tampa, one hundred and twents five north of Key West, one hundred and of the gulf coast. I think it very wrong to over draw a country's ad rantages and mislead peoit where a man has an interestin a conntry, enamored of a country because of their self nterest, or that they have never seen any better. People unacquainted will he surprised
to see how much cold a grown orange tree will endure, while a yonng one is very tender. Of course, an orange tree cannot stand zero and live, bnt mercnry may hang around close to It and all be right. We have had tro notable freezes In Florida-one in 1835 and the other in
1886. I was in Mohile, Ala., In January, 18S6, when they had freezing weather four days and nights, the mercury going down to five degrees above zero and ice formed four inches thiek. to the gronnd, and most of them never sprouted again. Pensacola, Jacksonville and
all north Florida shared a like fate, many trees being killed ontright that had heen producing 10,000 oranges per annnm. A few days
thereafter I went to Tampa, one hundred and seventy-five miles farther south, where they had four days and nights of freezing weather, formiug ice two inches thick, and the mercury
went down to sixteen degrees abore zero. All tropical products were killed and even lemons and llmes and all orange trees under orange tree was killed, and they only shed about half of their leares, hut the frnit was rendered unsalahle. I have seen winters in central Ohio uot cold enough to kill a bearlng part of January, 1S86, and the mercury had heen down to thirty-three degrees ahore zero
oue morning and twenty-eight degrees morning and twenty-eight degres
another. The foliage and most of the limbs and some killed outright-all of them pre-
anded from fruiting one vented from fruiting one year. You conld see no effect of frost on the fruit or foliage of
the orange, and even lemons and limes did not shed their hlossoms. The shaddock, pomolo and citron are as hardy as the lemon. he hnmbugged than any other word in Weh. ster's dictionary, hy alluring them to an in-
hospitahle climate where people die from pneumonia and typhoid. Orange is a golden word for real estate agents and boomers. I do not know what some writers would do with-
Fort Myers, Fla.
Frose the Pan-handle of Texas.- When a person contemplates a change, and that
change involves the necessity of hreaking up irlends and associations, self a way from old friends and associations, and the estahlish-
ment of "social status" 1 ln a new community, ment of "social status" In a new community, man with a famlly growing up around him is than any question of present comforts, and if a change, wlth its concomitant of discomforts, whll enhance the possibllity of placing hls children In a position to do well for them-
selves, he is generally willing to make the sacrifice. Thls, We all know, Is not an easy
matter in the North, where land is hlgh in matter in the North, where land is hlgh in
price, where the markets are generally glutted price, where the markets are generally glutted
wlth all kinds of farm products, and where wlth all kinds of farm products, and where
farming interests have not the consideration to which they are entitled. Heads of familles
to solve thls great problem of life. Right here
is the solution: Come South, young man, come is the solution: Come South, young man, come
Sonth, and bring the old folks aloag ; let them breathe the invigorating, health-giving air of the plaius. Randall, Swisher, Hale, Crosby most fastidious countres seekers. With the exception of a severe cold snap occaslonally, climate is allong could be desired-generaily dry, hut wlth sufficient rainfall to insure a good growth of regetation. We can work outide eleven months in the year, under the hluest of hlue skies. I hare seen the "Italian ky, hut prefer the Texan. The soil is a deep, sandy loam, just the thing for the growth of Wild frnits, such as orchard and vineyard orow to perfection and there is plenty c., grow to perfection. And there is plenty hy actual settlers at $\$ 2$ per acre, on forty sears ime, at 5 per cent interest. Societs is very good, and I take this opportunity to remove a regard to our cow-hoys. The idea that the cow-boy is the emhodiment of ruflanism is a ortment the man's hrain. In his general deith good the cow-hory will compare fararahly ith good men in any other of the walks of cor-hoy, our justice of the peace is a cow-hoy,
and better hehaved men could not he desired. And I think Texas might well be congratulated upon the possession of such material for ood citizenship as is to he fonud in her cowboys. Great caution sLonld he exercised hy and he shonld not settle on any land until the depth of wells in the neighhorhood has been ascertained. Some portions of the Pan-handle rould not do for farming purposes, on account of Randall and southern horder of Potter counties are of this kind. The proper thing for the farmer seeking a new location to do ls to apply to farmers for information, which, heerfully rendered. of the finest land on the face of the earth, where he can ohtain pure water at a depth hirty-three feet deep, with an abundant supply of good water. Canyon, our countyeat, has a netr court-house nearly completed, churches maw he expected in the near future, especially as the railroad is expected soon to Canyom, Teras

From Tennessee-The Clarksville To bacco District.-This section of country, noted in many of the great tohacco markets
of the world for lts rich, dark, shipping leaf of the world for lts rich, dark, shipping leaf
tobacco, much esteemed in England, Germany obacco, much esteemed in England, Germany twenty counties in both Kentucky and Teuthe district the district and its tohacco derives its name, and the second largest planters' market for fobacco in the world, is located abo miles the ceutral portion of the district. There are prohahly but few sectlons of country in the ulars, more favored than thls in many prow with more or less proft, a greater variety of productions. Indeed, I know of nothing that grows within our Union that cannot, be prodnced uch fruits and other articles as reqnire ropical climate. Though tohacco, corn, whea and stock are the maln productions grom clover, hlne grass, herds grass, timothy, o or can he gromn to perfectlon. Fruits of ar y can he grown tor pears, quinces, apricots, plnms, grapes, strawherries, raspherries, hlackherries, and other kinds except those of a troplcal nature, are Walnuts, hickory whits and chestnuts grow plentifully wild in the woods, whilst peanuts are cultivated to some extent, and produce well, though a more sandy soil a little south of this is better for them. As regards vegetahles, all kinds desirahle for family use are grown
here, including Irish and sweet potatoes, cahhage, melons, celery, asparagus, heans, peas, The surface of the conntry is generally rolling and hilly, though some portions of it are spersed with never-falling springs of cold, ers, some of whlch furnish fine water power for milling purposes. The Cumberiand river parsesthrongh this section, and is navigable ahove here. Some of the lauds here are vers rich, producing all kinds of crops without the ald of fertllizer, whilst others require the use of fertilizers to be fully productive for tobacco and similar crops. There are also some lands that are unt for proftahle farming, which may be used for stock pasturage, as none are so whlch stock can produce something upon except ln some of the timber sections, are fenced and have drelling houses and other
improvemeuts upon them, and range in price five dom fifty dollars for the best down to about cases good farms are sold as low as from fifteen to thirty dollars per acre. Society is first class, and equally as good ln the country as it is in the towus and cities. Churches of varithroughinalions and pund are nsualiy well attended. The liquor lars of Tennessee are the best of any state in the Union, as they confine the liqnor traffcentirely to incorporated towns and cities where they have police reguulations, and therehy no conntry cross-roads
saloons are allowed to exist. Our climate, as saloons are allowed to exist. Our climate, as
compared with the northern and north-westcompared with the northern and north-west-
ern states, l very mild, with hut little snom during the winter, thongh we usually have a few quite cold days, with the mercury a few degrees ahove zero, and also a few hot days in the summer, wlth it up to ninety degrees, though sunstrokes are almost nnknown.
atlve and ponsectional powing neither North, South, East or West; and when strangers come among them with honest pnrposes they are made welcome. It matters not Whence they come. But if their parposes are not honest they are advised to stay away, and might sometimes profit very greatly hy heeding this advice. We hare among us a good
many colored people who were born and many colored people who were born and
raised in this section, many of them having raised in this section, many of them having
heen slaves hefore the war, and are now good, quiet citizens, respected and honored as such. theal legal, political and religious mallers cumstances allowed the full privileges of rot ing their preference at all elections, political or otherwise, and all statements to the con trary as regards this section of the conntr are false. Clarksvllle, our great central tohac 8,000 , and is contains a popnlation of about mond, Virginia. These hills, however, euahl making fine drainage, and thery aid in diately $l$ a very healthy town. It is imme miles helow Nashville, and has steambo navigation very nearle, and has stam. also on the Memphis hranch of the Louisville and Nashville railroad, two hnndred mile from Memphis and one hundred and eighty largest pianter' Clarksvilie is the second world, Louisville, Kr., heing the first, aud conseqnently its main or largest lnterest is con nected with tohacco, to the neglect, I regret to say, of manufacturing enterprises, which would certainly pay its people much hetter in notwithstanding the fact that it is one of the hest localities for successful mannfacturing purposes in the Union, there are but few of any importance here. With four miles of river frantage on the Cumberland and Red rivers, oak, poplar, hickory, Talnut, heech, chestnut cherry, etc., in sight, extensive heds of lran, one within ten miles, immense coal fields nea hy, With railroads runniug through them and a splendid agricultural region on every side to furnish plentiful aud cheap supplies, there are hut two things necessary to make ufacturing centers in the country. And these are: Enterprise of the proper kind, and capital. It has a considerable number of enterprising merchants, doing hoth a wholesale hauks, good puhlic school buildings, univers ties for hoth males and females, a number fne churches, several hotels, fine pubilc halld ings, including a court-house that cost $\$ 100,000$, houses, with receipts ranging from 30,000 to 50,000 hogsheads annually, eight stenining houser four houses for prizlng tobacco, lce factory foundo, salling ritula and aear the chy, two planing mill telephones, etc. Within threemiles of Ciars, ville are situated the celebrated Idaho Sprlngs haring some four or five different kinds of many curative powers, and are nald to posses atteuded during the summer montlis. Upon whole, we have a towu and a surroundin that possess neariy all requisites necessary fo the comfort and well helng of mankind, an should any of your many sousands of read they will, as stated, be melcome. But the nust not come with the expectatlou of find-
ing money laying loosely around already coined, or growing wlld on trees, for fear
being disappointed.
G. H. S.
sk. Bethlehen, Tennessee.
Have you seen the 5-A Fire Mlle Horse Blanket? If not, why
$\qquad$ St. Jori, Utan, Dec. 24, 1869. The Peerless Atlas of the World is at hand It was quite a surprlse to flad it so carefully gotten up-so much valuahle information
statistics and so many things. Two frlend of mine have just ealled in and seen the Atla and left th
and atlas GEO. W. BGRRIDGE


## (1) Mr firssille.

No kiss.
"Kiss me, Will," sang M Holding up her dainty mouth, Hoseet as roses born in June.
Will was ten rears old that day, And he pulled her golden curl Teasingly, and answer made :
"'I'm too old ; $I$ don't kiss girls," Ten years pass, and Marguerite Sniles as Will kneels at her feet, Gazing fondly in her eyes, 'Rite is serenteen to-day; With her hirtlday ring she toys

A Barttered Birthright.

by James franklin fitts

## Chapteri.

 was high noon of a summer day of 1887,
and at the intersecand at the intersec-
tion of Large and old tion of Large and old
streets the stream of streets the stream of
business and traffic business and trami
flowed at high tide. Inwed at high lide. "booming" town of
fifty thousand, $t h$ is point was as near the
center of commerclal gravity and importance
as such a point can ever be located. The four as arners of this intersection were occupied by busiuess blocks as stately and substantial as such are ever seen outside of a metropolis,
Particularly was that upon the south-eas corner, the Barkley, the pride and boast of the people of Scioga. They were wont to say that
iower Broad way wouid not have been asliamed of it, so imposing was its dark granite front with white stone trimmings, so elegant its interior finish, so perfect its appointments. Al that modern applied science was capabie of had beeu put to use-the elevator, the was said that Norman Barkley had not yet tired of standiug across the street ana vering session. Public halls, lawyers', doctors' and other
offices occupied the upper floors. The first offices occupied the upper floors. The first
floor was devoted entirely to the bank, its Hoor was devoted entirely to the bant, aud the enormous plate giass front you might read in gilded lctters two feet loug, "Security National Bank.'
At this hour the space outside the carved work, was filled with messengers, with men and women who came and went, depositing, drawing out, obtalning discounts. Most conpicuous within, as usual, was the tirst payingiler, whiose rapid and al wass correct county an appearance of carelessness accompanied ractice inad made perfect, and which never failed to challenge the amazement of the perThe cashier, the boolteo
The cashier, the f the board of directors was being held. Sitting at his desk, far in the rear of the Sitting at his desk, far in the rear of the gilded iron lattice, was Mr. Carson Newbold, cashier of the bank. He was a man of about orty yoars of age, with clear-cut fait, thinnlng toward the top, and a perfectly colorless face.
He had been in this institution since it vas rganizea, and by reason of his tuorough nowledge of banking, his great capacity for the dispatch of business, and his high stauding


Mr. Newbold Sees a Face That Disturbs in soclal and religious circles, he was deenned
Indispcnsabie by the directors. He had but a few shares of stock in the Securlty, but was the street which the new aristocracy of Scioga
especlally affected. ITe was reputed to be quite wealthy. Everybody knew that lie was
a meinber of All-Souls' church, and superln-
tendent of its Sabbath-school. To speak more definitely of how he looked is impossible. In
his business suit or in broadcloth he bore the appearance of a well-to-do gentleman. But if you looked at his face you generally found it expressionless. Rare were the occasions when usually hidden behind that colorless mask, it usually hidden behin
was rain to inquire.
was rain to inquire. perfect business trim, attending to the applidispatch his window with promptness and but fully answered, proposed discouuts passed or refused-everything decided at once, without hesitation. It was this ability and "style" that had won Mr. Newbold his enviable name in business circles.
tuabrief interval of business he looked up at the opening and saw a face there that dis.
turbed him. It was the face of a young man, turbed him. It was the face of a young man, quite new in the twenties-an opeu, maniy
face, which had been ruddy before trouble face, which had been ruddy before trouble
drove ont the color, and iu which deep brown eyes, and a mouth as delicate and sensitive as a moman's, were the remarkable features. The face just now wore an eager, serious and rather determined expression, mingled with some agita
cashier did not fail to note.
cashier did not fail to note.
"What do you want ? " he asked, gruffly.

## "Justice."

Mr. Newbold rapied his desk sharply with his knuckles. He spoke in a low voice, so that ais words might not be understood by the
attendants of the bank; but it was stern and threatening.
"See here, my young fellow, you are going just a step too far. I suppose I can stand it a While longer to have you meet me in the
street and talk to me about your alleged street and talk to me about your alleged
wrongs, but when it comes to your showing
for ten dollars a week. I obtained my posicollege the recommeudation of a business assented when you said you were satisfied. was a stranger here; at this moment I have Io powerful friends. The time came when you learned that I had walked with your daughte on the street; thal had called at your hous be. For that-for nothlng else under hould be. For that-for nothlng else under heavens to give me credentials; jou refused. This would have been bad enough, but you were capable of worse malignity than that. seems that even so poor an underling as I was cannot be turned out of a great corporatio like this without in quiry being made about in and in my case some of the directors asked sou what the trouble was. You know wha you said; you know the inuendoes, absolutely character. Whill you sought to blast my you satisfled them, and, as a consequence have preveuted me from obtaining empioy have preveuted me from obtaining empioy-
ment elsewhere. For the last time, sir, I ask you for justice.
Would, what do you mean by that big word Would ten dollars, to take you out of town The heartles
The heartless sneer cut poor Barnard to the "I want hou did uot show that he noticed it. Iant wou to reinstate me here in my old "You need say no more," rudely interrupte the cashier. "I'li not hear another word. You have annoyed me uow besond all reason. Just take yourself away from here or I'll call policeman to help you.
George Barnard moved to the door of the bauk parlor a few feet awas
"There are people in there who will hear me,"
he said. "And when they have heard what
"Mr. Giles," he said to one of the clerks, "st quirlng for me that I wlll return in half an hour. Mr. Barnard, please come into my private office $;$ the business you spoke o must be very carefully talked over. No, Mr tend to to a new-comer, "I can't possibly at presses."
Inside the cashier's office the key was softly in the lock. Newbold threw himse on the lounge, and with his hands behind his " 1 , stared at his visitor. Then he asked "What the devil do you mean?"

## Chapter II.


any 0
Barna Barnard would have been amazed to hear
such an expression as this from the correct the reflned, the pious the reined, the pious
Mr. Newbold. Jus now. consldering the excitement that he be laboring under, though he betrayed little of it outwarks, the young man was not sur prised al all. Aud knowng his man better than the people of scioga dia, he was quite prepared to hear such language from him a this time, when the people of the city wer shut out by lock and key.
He kuew what he wanted to reply, but he had not got his thoughts thoroughly arranged with a show of bravado:

## "Yes, sir, tell me just

 thiug you think I ought to hear, out with it, and I'li quickly answer it."
"You shall know right away," Barnard replied, sturdily. "You've got a standing and a reputation in this city and in this bank that you're not entilled to. You are a hypocritethe worst kind of a hypocrite! What woul all your church work and your Sabbath-schoo work amount to-aye, what wouid jour posi tion in the bank amount to if the truth were published? You are a gainbler-a regular confirmed gambler, and therefore unworthy the confidence of anybody
The speaker watched the mau's face as he
talked, anxious to see the taked, anxious to see the effect of his words. little effect. The truth was, they did stribe some terror to the vulnerable soul of Carson Newbold, but the fear of detection, exposure, disgrace and punlshment, which the young man's vague threats had opened before him, took so wide a range that he experienced certain negative kind of relief in hearing the nature of the charge. He lay back and eyed his accuser half defiantly
"Is that all of it?
"That is what I mean to use against you if you wlll not right the wrong you have done me. There are certain suspiclons and probabilities that naturally grow out of
is the direct charge I mean to use."
is the direct charge I m
"You can't prove it."
"You cap"
"I will tell you. The gambling-rooms in the fourth story of the Industrial block are supfourth story of the Industrial block are sup-
posed to be kept very secret. Usuaily they are. But detectives ofteu occupy a hiding place on that floor, where they can see and hear all that goes on. I'll put it plainly, sir: that is part of the price of immunity that the proprietor pays to the police."
The cashier was staggered by this disclosure.
His cool self-possession fled instantiy. His eyes were wild, and his breath came by gasps. eyes were wild, and his breath came by gasps. "Good God, boy! What do you tell me?" he
crled. "Have $I$ ever been seen there from the outside?
"Yes, indeed! One of the detectives is my friend; he knew my wrongs, and sympathize With me. On the night of the itu of thi month, and again on the nigat of the 12th, everything On the first night that I have mentioned you wou five hundred dollars; on the second ulght you lost tirenty-three hun dred dollars.'

## dred dollar Newboid

statement.
"Do you mean to tell the directors of this?" he demauded, huskily.
"Ies. When I found that you were a hyp ocrite and a vinaln, I saw that you could be infuenced only through your fears. That is the way I am appealing to you now. I have my facts all weli in hand; what have you got to say agalnst them?"
 dying siow of resistauce. "Nobody will be-
lieve such tillngs of me. The board won't lieve such t
believe them.
"Probably not, at ouce," Barnard coolly re piied. "You'd indignantly deny it, I suppose, aud for a few hours they would think me a very depraved young man, to make such charges against you. But I should glve them something to think of. I should exclte and alarm them. Tiney wouid dog you every day with
"No, no," the cashier interrupted, "I can't stand anything of that kind. You say you have told mc ail you kuow about me?"

george Barnard Laboring over Ledger and Pass-books.
nlghts, but was after other game. He was more surprised to find you iu that place than
"What sent yon-there?"
Barnard looked him calmly in the eye.
"Your face was never consistent with the eharacter you have assumed before the world;
there is no soul in it. I knew you must be vile there is no soul in it. I knew you must be vile weak spot." playcd nervously with his watch-chain.
"You are sure of the detective?" he faltered. "Yes. He is not a blackmailer; he ls an honorable man, laboring $\ln$ a legitimate callance doubly sure, I will get his promise never to meution your name in this connection." Carson Newbold rose from the lounge with an air of relief.
"Yes, when you satisfy me
"Yery well; wait here a moment.
He unlocked the door, went out, and returned in less than a minute, relocking the door after him. He laid down on the small table before Barnard ten new, crisp notes of the Security bank for five hundred dollars each. "These are yours," he said. "All I ask of you is your pledge to leave Scioga on the first train
lo-morrow, and never return here
George Barnard face kin with kindling eye, got out of his chair, and with one movement " "No!" he thundered. "NO! I don' money ; I can't be bought. I want my honor, which you have cruelly sacrificed."
He was flve feet eleven in height, and as he stood erect there in his righteous indignation, he looked to the guilty soul of the cashier fully eiglit feet.
He whold had played Lis last card, and failed. terrors of his position.
"George-George Barnard, my dear fellow, you surely wouldn't persecute me this way. You were in love wlth Violetta, you know.
Violetta is my daughter, my dear child. Now, if you'll only-
The disgust that flled Barnard's face was paiuful to behold.
"Stop!" he exclaimed. "Is it possible that you are so base as to mention her name here? You vlolated bonor and conscience to destroy me, because you saw that I was not disagreeable to her. Have you the meanness now to "What shall I do?" Newbold shimpere "Restore me immediately to my place." "Restore me immediately to my place"

- "I'll do it," was the eager reply; "I "Ilght off."
That is not all. Come into the parlor with me, tell the directors that you were mistaken because. you had discovered that I was wronged."
"No, no, I cau't do that!"
in alone."
The cashler walked the narrow room, groaned, and almost wept iu his agony of spirit. He wet his bead at the basin, and unlocking a Barnard watched him in silence; the man was being fully revealed to hlm.
"What assurance have I," Newbold asked, "that you won't betray me after I have done as you wish?"
"My honor!" was the proud reply. "Y
may not know what that means: I ao."


## The remark was not resented.

"Come," the cashler sald. "I trust all to sou."
Half a dozen men were walting outslde to see hlm. He passed them all aud entered the bank-parlor with Barnard. The hour was now half-past one, and the meetling of the directors was about to break up. Mr. Barkley, the fat and florld presldent, had risen from his chair, and the half-dozen others about the long table were smoking and chattlng. "enect
"One moment, Mr. President and gentlcmen," Newbold sald. "I have nothing of linportance to bring before you-merely a per-
sonal explauation. This is Mr. George Barnard, sonal explauation. This is Mr. George Barnard, Who was employed as our second bookkeeper
some moutbs ago, and was rather summarily discharged. Some of you have mentloned thie matter to me since then. I think it due to hlm to say that I have investigated the complaiuts agalnst hlm, and am satisfled that they were not well founded. Mr. Barnard is per
fectly capable, and I believe thoroughly honest. I have, reinstated him in his old position, and think it no more than right to say to you what I have about him."
Glauces of curiosity and lnterest were turned from Newbold to Barnard.
"Well, now, young feller," Mr. Barkley sald, "I'm reely glad yon've turned out all right. Good clerk, we used to hear, have heard you kept them books O. K. Little hard on him, Newbold, wasn't you? Always keerful for the bank! Good failing. You're our watch-dog, Newby. Glad to see you back, young chap; hope there wont be no more fuss aboul you. bold discharged his usual duties at his desk and window. Nobody observed the aberration of his mind. He talked, discussed and decided as clearly as ever. But in each interval of business his eyes turned involuntarlly to a distant connter where George Barnard lab

- Nemesis seemed to have entered tbe building.

Chapter ili.
SKELETONS IN THE CLOSET.

IIAfour o'clock the cashierleft the bank and walked homeward. It was his
habit to take the street-car, but on
this evening action this evening action
better suited hls mood. A tempest
was raging in his brain. He found himself incapable of steady thought. Of a sudden, almost as iu a flash, When he deemed himself secure in his standing in the eyes of the world, safe in the pracwould have fallen like a thunderbolt upon Scioga, the fallen like a thunderbolt upon Scioga, the churction nections, and safe, too, in his plans for the
future-at such a time he had been steruly future-at such a time he had been steruly
brought face to face with his hypocrisy by one whom he had injured and despised; had been compelled by fear of the consequences to humble himself before the board, and to restore this a veuger, this personifled conseience, to his place.

## quences?

Was this youth, this mere boy, holding the threat of discovery over him, to be a spy upon his every word and act? Had Carson Newbold thus created the instrument that was to work his own downfall
The ground seemed siuking beneath him; he saw himself disgraced, hurled from the lofty"heights of power, influence and honor that he had long occupied, perhaps arraigned before a court of justice. In the tumult of
his brain the penitentiary stood gloomlly in the background.
He could not think; the sounds and the ights of the hour passed vaguely before his


Upon His appearance, the Lady Looked UP.
senses. He heard the newsboys crying the evening papers, with accounts of a steamshlp disaster on the Pacific and a shocking murder In Philadelphia, but he hardly knew what
was meant. He met men who bowed respectWas meant. He met men who
fully and ladles who smlled in cheerful recognltion; he mechanically touched his hat as he passed. He merely recognlzed them but could not have spoken thelr names. but could not have spoken their names.
He reached Paradise Avenue, and traversed
one of lts broad walks betweeu leafy elms and maples and green lawns, untll he came to a handsome Queen Anne style of house, fronted with well-kept grouuds which werediversifled slowly up to the door. Ou the plazza sat a matronly woman in a rich afternoou costume. Slie was quite tine looking, with dark hair aud eyes and regular features, but with a coldness of manner which was only removed outside her own fannly circle. A spectator
of the meetlig that now occurred must of the beenting that these two were man wouldif, horder the from; The lady lad looked np from her Freuch novel upon his approach, and had immedlately returned to it Only when huls foot was upon the first step did she ralse her eyes agaln cold nod was her only salutation.
"s diuner ready, Frances?"
"I belleve so."
have it over. We call go through the motions."
He fo
He followed her through the spaclous hall into the dining-room, where tbe meal was 1 m -
medlately served. Everything aronnd them, the apply ture, showed the hand of wealth and taste. Why was thls not a happy home? The
public sald that lt was-a model one. They public sald that it was-a model one. They appareut prosperity of Mr. Newbold, from the fact that the wife and daughter
thed at church together and that madam recelved her callers with sprightly ease and graceful chat. The public knew nothing of the skeleton in that family closet, of the marriage of convenience that had unlted these uncongenial hearts fa the daily sufferance with which the irksome yoke was borne. The public failed to remember, that

By the fireside tragedies are acted,
In whose scenes appear two actors only,
Wife and husband,
and above them, God, the
She ate a little; ha only tasted of one course after another and pushed them away. There was a painful silence.
Where is Violetta?" he asked.
"Calling or shopping, I suppose."
"Frances-I want to ask yoụ a question."
"Indeed!" Her voice bad a sarcastic inflec tion. "You don't often honor me with so much confidence.
He seemed, not to notice the sneer.
"Do you know young Baruard, whom we discharged from the bank some months ago?" "I believe I knew of the exlstence of some such person. I never knew that he was either "W the bank or out of it."
"We have taken him back to-day"
ith indifference and made no reply
He used to pay some attention to VI."
"Don't you recall the fact?" Mr. Newbold sharply asked.
"I do not. Why should I? You and you daughter have always been quite sufficlent to yourselves in all thlngs that related to her. never have been con
never expected to
"You never interested yourself about her." bout that or about anythlng withoutquarrel ing; I think we'd better not talk at all. This conversation is none of my bringlng on. Shal ring for dessert?
"If you please. I merely wished to add that -that if George Barnard ehooses to call her now, I don't object.
Mrs. Newrbold
Mrs. Newbold elevated her black brows, and rose from the table. Sbe was oppressed by hls "If you'll exeuse me, I will resume my book."

## WWill sou-

She looked impatiently at him as he hes itated.
"ill you tell her what I just sald ?"
"Who-Violetta?"
"Carson Newbold, what's the matter with you? Who ls this man that you're making a to-do about?

## He's all right-except that he's poor. I was

 ittle hasty about him.Why don't you tell her yourself?"
Because three months ago I forbade her to see him. I had somedreams then of marry ing her to a rich man. I've thought better o that. It's better not to interfere. The only
true marriage is that of the heart."
She laugbed. It was forced mlrth.
She laugbed. It was forced mlrth.
"Iou are really getting sentimental. Why didn't you think of thls twenty years ago?"
He leaned his forehead on bis hand and said othlug
"I don't see yet why yon can't tell her."
"It would humlllate me.
Madam shrugged her shoulders and coughed tand," he crled, losing hls self-control "How much there is of the same kind before me, on't know-and you don't care. No matter don't want you either to know or to care But when small for even you to refuse?"

Oh, I suppose I can tell her. It seems like a trivial little affair to me; but, as usual, there is some secret at the bottom of it that you it-that young Mr. Barnard may call on Vi, if be wants to? Very well; I'll tell her as soon as she comes home."
"Thank you. I shall probably be out tonight. Youmay lock up; I have my latch"It would be au amazing occurrenco if you didn't go out to-nlght-and every other ilight. But sult yourself. I'in not even entitled to bo The stately skits swept was."
The stately skirts swept through the doorway
and the hall. He looked from the place where and the hall. He looked from the place where
slie had sat around the room, so clicerful yet


She Ran to Newbold and Kissed His. leaned his head upon bls hand again and was ost ln thought.
The ormolu clock on the mantel chimed five and then tbe half hour. The mau sat irresolute. Exclamations, disjointed fragments of speech, dropped from his lips. The servant
came in to clear the table, and withdrew upon seelng him. Slx o'clock struck.
There was a flutter, a little rush in the hall Hee the rise of a flock of blrds, and the glad warble of a snatch of song. $A$ beautiful ap parition burst ln, bright, joyous, overrunning with life and health, and the freedom o eighteen years. Her blue eyes shone, her face was sunny wlth smlles; she threw her ha on the floor, ran to Newbold and kissed hlm.


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## CENTS





## (OIIT fotuthold.

## "ANOTHER BABY

When the wild whter winds did blow The bitter winds of January, That swept with sparkling swirls of snow The wastes of western prairle
A little child came to my arms
To bring me joy-or sorrow, may be To bring me joy-or sorrow, m
And so beset my vague alarms I sighed-"Another baby!" Another litt le waif to tend, Another little, helpless stranger, To lead, to feed, to fold, to fend, From every wrong and danger, And fearful for eacli morrow, may be, With heart half sorrowful, half glad, I moaned-"Another baby !
And then I thought how near, how dear, The little children God has sent us, How full they made our home of cheer, Hard if but one were laid away This year or next, as might or may be, Our hearts would ache would burn, would break,
An, so It-another baby!
Ah, so I thought, and so I said, In ecstacy of peace and pleasure,
As bending down I kissed the head As bending down I kissed the head "Oh, dear child of my life and love, Whate'er you are, whate'er you may be, I take you from the Christ above,
And thank him for-another baby
-Kate M. Cleary, in Good Housekeeping.

## HOME TOPICS

Celery. - About a month ago, as I brought iu some celery one morning, I this is so poorly blanched that the tops must nearly all be cut off." "I can fix it," said Effie, as she looked it over, and sure enough, when it appeared on the diunertable it was all beautifully white, and instead of the stiff sticks $I$ had expected to see, each piece had a feathery top. Effie leares, and the tops of the stalks as far as they were green, then she had split the tops of the white stalks into six or eight strips, about three inches down, and laid them all in ice-water for half an hour; which had caused the split tops to curll.
The tons that were blanched she mixed The tops that were blanched she inixed with these, and all said, "How pretty the
celery looks!" It was a little thing, but I had never thought of it, and may he you never have.
History for Children.-Much more attention is paid to the study of history in our common schools than was given to it twenty years ago. This is right. Too the principles of our government, the duties of its principal officers, the history of its formation and of its struggles, and, in an impartial way, the main points of difference between the principal political patriotic and this will tend to make more wise and intelligent voters, But while much attention is given to the past, current events of state, national or world-
wide importance are often overlooked. Some teachers use a daily newspaper in their schools, with the best results. Short lessons in events of the present are giren two or thrce times a week. The nost imand result. If it is something occurring iu a foreign land, maps are consulted, and the exact place located. Then each one is requested to find out all he can about the
place, and the manners and customs of the people. One who has never tried this would he surprised at the interest awakened and the information that will be collected in a short time.

A Memorial to Mrs. Hayes.-In reply to Mrs. E. S. B., I will say that the
Woman's National Press Association, of Woman's National Press Association, of
Washingtou, D. C., first conceived the plan of erecting a meinorial in the city of Washington to the memory of Mrs. Lucy Webb Hayos. Notonly hecause in this city of uany statues and inonuinents not one account of the lovely character and Christian, womanly traits of Mrs. Hayes, who, luring the four years that she occupied the position of "first lady of the land," not once sacrificed her pure and high per-
ception of riglit to the customs of society ception of right to the customs of society. In Septcmber a mceting was called, to
which all women's societies in the city
were invited to send representatives. At this meeting a commitree on organization was appointed, consisting of members of Woman's Press Association, Red Cross
socioty, Relief Corps, Suffrage society, society, Relief Corps, Suffrage society,
Home and Foreign Nissions, W. C.T. U., Home and Foreign Missions, W. C. T. U
and Educational and. Industrial Union.
After discussion and correspondence with prominent women of the country, the first idea has developed into the plan of building a temple in Washington, with a. large hall for conventions, smaller rooms for committees, clubs, etc.; a read-ing-room and resting place for all women who may come to the city; a woman's exchange, etc; niches for statuary, or a gallery, where may he placed busts and portraits of great women, with a fountain and statue of Mrs. Hayes in front of the building.
Circular letters have been sent out all over the country, asking women to aid in this enterprise. Five thousand charter members are desircd before the formation of the association, these charter members to select the national officers. The payment of $\$ 5$ constitutes one a charter memher, and a certificate will be sent by return mail. The money may be sent to the secretary of the committee, Dr. Clara
Bliss Hinds, 1331 N street, N. W., WashBliss Hinds, 1331 N street, N. W., Wash-
ington, D. C. Among the memhers of the committee are Clara Barton, Mrs. Bishop, J. F. Hurst, Mrs. Senator H. M. Teller, and other well-known women, whose dollars are asked for from charter members
to the fourth chain of the 8 with whic the round commenced.
Third round-Six d c under each loop o four chain.
Fourth round-For a leaf, 13 chain, miss first of these chains, and do 10 d c and 1 sc in successive stitches, then one chain to cross, and work up the other side $11 \mathrm{~d} \mathrm{c}$, chain at top, and go down the other side of the leaf, doing $4 \mathrm{~d} \mathrm{c}, 4$ chain, 1 s c in the d c last done (whenever directed to make a "picot," work like this 4 chain and a sc on the d c last done), 6 consecutive double crochet, 1 s c on next, 1 sc in the 1 chain that was left; then 1 d c on each of the first 3 d c of last round, a picot, 1 dc on each of the next 3 d c of last round; now another leaf, * 13 chain, miss the first of these chains, and do 10 d c and 1 sc in successive stitches, and with 1 chain to cross go up the other side 4 de , then 7 chain, joiu to the third d c helow the picot on the left side of the first leaf; do 9 d c under the 7 chain, 1 sc on last d c of the leaf, 3 consecutive d c, a picot, 4 more $d \mathrm{c}$ to reach the top of the leaf, where do 1 chain and go down the other side with 4 d c, a pieot, 6 consecutive d c, 1 s c on the next, 1 sc in the 1 chain stitch that was left then 1 d c on each of 3 dc of last round, a picot, 1 dc in each of next 3 d c of las round; repeat from * 6 times, then work S c up the first leaf, 7 chain, join in the usual way to the last leaf, and work 9 d under the chain. 3 more $s \mathrm{c}$ on the first leaf, then a picot and 4 more s c, which brings you to the too of the first leaf, and
down the side of this triangular bit with 9 sc and do 1 d c in same loop as 12 d c are already worked into, and repeat from * into the next 9 chain loop; then work again three times more from the begin ing of the round, and rou will have on of the square pieces which are required for the center of the open-work side of tidy.
Work the other square in the same manner. The wing-like pieces are the corners, and as you proceed with the second square you can join it to the first by a picot from corner to corner, and also unite the triangular-shaped bits togethe in the center. The engraving clearly shows the position of the squares when joined
The leares which surround the squares are worked as follows: 24 chain, 1 tc in the sixth chain from the needle, 1 chaiu, miss $1,1 \mathrm{~s} \mathrm{c}$ in next, 1 chain, miss $1,1 \mathrm{tc}$ in next, 1 chaiu, miss $1,1 \mathrm{~d} \mathrm{c}$ in next, 1 s in next. Turn back, and now, al ways in serting the hook to take up the back thread of the stitches of previous row, do 9 d c up the side of the leaf. 3 d c in the top stitch, 9 d c down the opposite side and 1 s c ou the foundation stem; turn back and work 10 d c up the sides, 3 d c in top stitch, 10 d c down the other side, and again 1 s c in the stem; turn back and do $11 \mathrm{~d} \mathrm{c} u \mathrm{p}$ the side, 3 d c in top stitch, 11 d c down the opposite side and 1 sc in the stem; turn back and work 12 d c up the side, 3 d c in top stitch, and 12 d c down the other side, then 1 s c in the stem, leaving there 8 chain stitches.
Repeat the above till you have 4 leares done, then do 21 chain for the beginning of the next leaf, instead of 24 , so that only 5 chain are left instead of 8 ; then begin the next leaf with 18 chain, so that only. chain are left; then again do 21 chain. This is to shape the coruer. Now do leaves with 24 chain to each; then repeat the 21,18 and 21 chain. Then 4 leares with 24 chain, and agaiu do 21,18 and 21 chaiu. And now 9 leaves with 24 chain,
and finish with 21,18 and 21 chain; and and finish with 21,18 and 21 chain; and
there will be in all 38 leaves to encircle there will be in all 38 leaves to encircle
the two squares.
After the first, each leaf is joined to the one preceding in course of working the last round, the seventh double crochet of Which is to be caught with a sc to the seventh c of the previous leaf; join
round at the eud of the leares. Do a round at the eud of the leares. Do a
round of $d$, working 1 stitch in each of the chain stitches that counect the leaves together. Place the squares in the center and stitch the piques and the triangular points in their proper position at equal distances upon the round of $d$ c. Now work round outside the leaves, doing 1 d on the top of every leaf, and a certain umber of chain between. Where you have 8 chain on the inside edge do 8 chain here, and at the four corners do 11, 14 and 11 chain. After this work a round of $d c$ then a round of s c , and fasten off.

REVERSE SIDE OF Tídy.
Commence with 13 chain, miss first chain next the needle and do 12 d calong; repeat the same three times, when you will have four pieces for the four arms of the Maltese cross. Joiu round iuto the first chain stitch.
Second round-Turn the work, miss first stitch of arm, and always work into back part of stitch to forin ridges; *do 10 de in consecutive stitches, 3 d c in next 1 d c at top, 3 d c in next, 10 d c down the arm, miss 2 at the bottom, and repeat from * three times; join rouud.
Third round-Turn the work, miss first stitch, *do 10 consccutive $\mathrm{d} \mathrm{c}, 3 \mathrm{~d} \mathrm{c}$ in next, 3 d c across top, 3 d c in next. 10 d c down the opposite side, miss 2 , and repeat from * three times; join round.
Fourth round-Turn the work, ruiss first stitch, 娄do 10 consecutive $\dot{d} \mathrm{c}, 3 \mathrm{~d}$ at the corner, 5 d c across top, 3 d c at other corner, 10 d c down the side, miss 2 , repeat from $* 3$ times; join round,
Continue in this manner, always uiss ing 2 at the bottom and working 10 d c along each side and 3 dc at each corncr, and having 2 extra stitches across top in each successive round, till you have 25 d e across the top (not counting the corner stitches); then in the next round, when working across the top, do $11 \mathrm{~d} e$, pass the thread twico around the needle, and in-
serting the hook in the eighth stitch of
the round in which you have 15 d c across, work a long c c, do 3 more long t c in same
place, then 3 d c on last round, then 4 more long t cin same place as the others, and do $11 \mathrm{~d} c$ on the last round; repcat same on all sides of the cross.
Next round-All d c as usual.
In next round, make 1 tuft of 4 long t c between the tufts already formed.
Next round-Work as usual 10 d c up the first side and 3 dc at the corner, and d c across the top to center stitch of next
corner, where work 1 d conly, not 3 , then 15 chain, and go to the center stitch of nest corner, d c across top, and do 15 chain to the center stitch of next corner, then across the top, and at the next corner do 23 chain, work across the top, and do 23 chain at next corner; join and fasten off. Now hold the work the wrong sido towards yon, and leaving 11 chain, commence on the 12th; do 3 rows of $d c$, working extra stitches at the two top corners? tho 15 chain eorners) to keep a flat surface, and keep entirely along the two sides and the top, leaving the bottom of the cross as it is.
Next row-Do long $t c, 2$ rows of $d c$ Next row-Do long $t c, 2$ rows of $\mathrm{a} c$,
then a row of long $t \mathrm{c}, 2$ more rows of d , then a third row of long $t c, 5$ rows of $d$ c next a row of double long $t c$ (thread 3 times around the needle) followed by 6 rows of $d$ c. Then $s c$ all around the piece of work, and fasten off.

SMALL STARS AT CORNERS.
Seven chain, 1 s c in fifth chain from needle, 2 chain, join to the center stitch of corner, 2 chain, 1 s c in last s c , 4 chain, 1 s c in same, 2 chain, 1 d c in first chain of all; repeat this. Work the sanie for the other three corners. Take the two pieces of the tidy, sew them neatly together along the top and down the two sides, leaving 16 leaves for the bottom:
For the fringe, with No. 6 crochet needle 1 de in a stitch, $* 40$ chain, 1 de in uext stitch of tidy; repeat from * all around bottom. If liked better, a friuge may be knotted in. Put a sateen lining in, and the tidy is finished.

## A "NUT CRACK."

Little Polly Anderson had been worrying lee brain for several days over a projected party. She wished to offer something new and pleasant to her city cousins
who were visiting her, and every wellwho were risiting her, and every well-
known form of entertainment seemed worn out
"You see, mother," she said, confidentially, "we cannot afford oysters; apples und pop-corn are old, and I can think of nothing but nuts. We have lots of them, but how could we give a party with juist a fow bags of nuts?"

Her mother smiled at the anxious look on the face of her eighteen-year-old daughter.
"You might give a 'nut crack.' We used to have
After considerable planning, Polly went to her room to write invitations to a "real unique party," as she whispered to the city cousins on the way upstairs

One of them painted a tiny bunch of chestnuts in the upper left-hand corner of each card, while Polly, with brown ink and gilding, wroto tho following words:
The pleasure of your presence is requested at a "nut crack" next Thursday evening,
January -, 18-- Polly ANDERSON.
"That is certainly short and sweet enough to inake everybody wonder what it means," she said, scaling the last envelope. "I want you girls to think of everything new you can possibly imagine for Thursday evening."
The following days were spent in decorating the roomy farm house and selecting costumes. The three girls decided to dress in brown, as they all happened to have a brown dress, and a few yards of soft, croamy, woolen lace brightened them up wonderfully. Salmon pink ribbon was used as finishing touches to each dress.
The parlor and sitting-room was filled bolly, together with pressed autumn holly, together with pressed autumn
leaves, bunches of gilded acorns and sprays containing otlier nuts silvered or gilded with Diamond paints.
The dining-room was no less bright and woodsy with the same things. The long table gleamed with a white cloth. A great
pyramid of nuts stool at cither end, while a large, whito cake, woll decorated with wholo hickorynut meats, stood in the center. Two large pitchers of iced lemonade, with plenty of glasses, held places of honor, for cating nuts is very thirsty work.
On a small table in the cheerful kitchen was a pan of largo hickorynuts, with a hammer and iron to crack them with. Each gentleman present was expected to crack a given nuinber of nuts, and the ono able to save the most whole meats was to receive a sct of cheap nut-picks as a prize. It might be as well to add that there were twelvo new horse-shoe nails in a small, satin-lined box of the girls' own invention.

A pan of butternuts were ready to try the ladics' skill, as the one who was able to crack the most "without pounding a finger would receive a cute little basket cut from a large hazelnut. Polly said it was very comical to see a dainty girl grasp the hammer and poise it over a rough butternut held on one end.
Small dishes held various kinds of nuts on the supper-table, while a sinall saucer at each plate contained a quarter of a cocoanut. With the nuts were served cocoanut cake, hickorynut cake, cream
walnut cake, butternut puffs, and bars of walnut cake, butternut puffs, and bars of
home-made peanut candy.
Hickorynut Cake.-Two cups of sugar, one cup of butter, one cup sweet milk, the whites of four eggs beaten stiff, two the whites of four eggs beaten stiff, two
teaspoonfuls of baking-powder, and flour
cheese.
Many housekeepers do not know tho value of chcese as a diet. It is particularly suited to the farmer's household, as it can be kept on hands, and prepared in a variety of ways that will bo found cxcellent. As all coolis are not familiar with the various recipes for cooking cheese, the Toasted Cerese. - Cut slices of to thin, spread it on a heated dish and stand over boiling water to melt. Toast slices of stale bread, and butter, season the
cheese with salt and a little cayenne pepcheese with salt and a little cayenne pcp-
per, sprcad over the toast and serve very hot.
Welsh Raredit.-Take square slices of stale, light bread, without crust; butter them, and dip in a bowl of hot water Lay on a heated dish, and set to keep warm. Put half a pint of mills in a small saucc-pan; stand it over a moderate fire;
when boiling, add a pint and a half of grated or crumbed cheese, and stir untilitinelts, season with a little salt and pepper, add the yelks of two eggs, stir, and pour over the toast. The Chat or stringy.
Cheese Fingers.-Mix fonr ounces of flour, five of grated cheese, a little salt and pepper together, moisten with the yelk of one egg; work into a smooth paste in little rings, and some in strips. Lay on greased paper, and set in a hot oven for ten minutes. Put the straws, or ttle strips, through the rings in bunches.

to make a stiff batter. At last stir in two cups of hickorynut meats broken fine Bake in large loaves, and ice.
Cream Walnut Cake. - Make four layers of any light jelly cake recipe. Take two cups white sugar, one third cup water, a large spoon of butter, and flavor with nearly cool, and spread the cakes. Place English walnut meats upon each layer before the cream hardens. Decorate the top with the same. It is necessary to have the cakes baked before making the cream, and they must be put together in hasto.
Butternut Puffs.-One cup butter, one half cup flour, one half cup water; boil together until like a lunip of putty When cool, add two well-beaten eggs and
bake one hour in a hot oven. They should be dropped in balls on floured tins. When done, they should be hollow. Fill the in side with chopped butternut meats, salted.
Every guest was requested to give a quotation from some author which should contain the word nuts, the company to guess the author. This occasioned a great deal of fun. Music and games finished the pleasant evening, and all went home voting the "nut'crack" a great success.

Marion Washburn.
The Worry of a Constant Cough, and the
Soreness of Lunys, which generally accompanies it, are both remedied by Dr. Jayne's Expectorant.

Cheese Ramakins.-Put half a pint of milk and two ounces of bread in a small sauce-pan, and set on the stove to boil Stir until it is a smooth paste; then a small teacup of grated cheese and two ounces of butter. Stir over the fire one minute; take off. Season with salt and cayenne pepper, add the yelks of two eggs. Beat the whites of three stiff, and add gently. Pour in a greased pan or baking dish, and set in the oven fifteen or twenty minutes
Cheese Sandwiches.-Cut some thin slices of brown bread, spread a little but ter over them and lay on the top of hal the slices squares of cheese, put them in a baking-dish in a hot oven until the cheese is melted, lay a slice of warm toast on the top of each slice of checse, and serve at nce.
Cerse Sourfles.-Cut a quarter of a pound of cheese in very small piece and put in half a cup of cream with a little salt and pepper, set over the fire, and stir in the yelk of an egg; put
bits of toast in very small cups, pour the bits of toast in very small cups, pour the mixture over and set in tho stove one minute.
Pastry Ramakins. - Roll some puff paste thin, spread over with grated cheese fold, roll out again and spread with the cheese; repeat this several times, then roll out thin and cut with a small cake-cutter, brush over with the beaten yelk of an egg and bake in a quick oven for ten minutes.

When done serve, very hot, on a folded
hapkin.
Cherse for Luncheon.-Trim slices of bread free of crust, and grate into a small baking-dish, pour in a little swect inilk; break over lialf a dozen eggs, season with salt and pepper, grate over tho top a thick layer of cheese, and set in the uven to bake brown.

Pounded Cheese.-Ponnd half a pound of dry cheese with two tablespoonfuls of butter, add a teaspoonful of mustard, littlo cayenne pepper and pounded mace. Spread on bread, and eat.
Cherse Fondee. - One tablespoonful each of butter and four, threo tablespoonfuls of grated cheesc, half a teacupful of milk, threc eggs, a little salt and white pepper. Melt the butter, stir in the flour add the milk, let cook, season, and stir in the beaten eggs, then the cheese; pour in a butter-mold, cover with a buttered paper and bake.
Cheese Omelet.-Beat four eggs, add half a teacupful of grated crackers and three tablespoonfuls of grated chcese; pour in hot pan, and fry
Polenta.-Put a spoonful of butterina quart of boiling water, wet corn meal with cold water, add salt, and mix smooth, put in the boiling water, let boil; take up and set to cool; when cold, make into a ball slices, lay in the bottom of a decp dish, put on it thin slices of cheese, cover with bits of butter; then put more mush, bits of butter; then put more mush,
cheese and butter, until the dish is full cheese and butter, until the dish is full; and bake. $\qquad$ Eliza R. Pariker.
A CO-OPERATIVE DINNER.
have anid this arim and Firesidn band tried this new style? For genuinis fun and enjoyment on a holiday, such : Thanksgiving or Christınas, nothing cii, equal it. It is generally best to inclute mate friends. relatives or a few very infi course furnished by a different cook. I\%. instance, suppose we are all going 1 grandma's to spend Christınas. Grandm: will set the table and make coffee; Aun, Sallie brings the turkey, nicely stcamed and stuffed, ready to go into the oven to brown, with its accompanying cranberry sauce; Uncle Joe's wife brings some lovely potato croquettes and oyster patties; Aunt Bess is on hand with her far-famed chick en salad, sweet pickles and cookies. Then the young gentlemen have a chance to distinguish themselves by the good ice cream they furnish, while the girls are justly proud of their cake, home-mado candy and salted almonds. The immense responsibility of delicious mince pic could be borne by no one else so suitably as our dear, fat, Aunt Prudy, who cannot be exdear, fat, Aunt Prudy, who cannot be ex-
celled in that line. She thoughtfully sent some dainty bits of cheese to accompany the pies. Grandpa said he was not to bo left out in any such style, so he caine in with two cans of oysters under one arm and a big bunch of celery under the other, and the women folks laughed until the tears came, to see his awkward attempts in the culinary department, but when he rolled up his sleeves and began his oyster soup, we found out that ho could be depended on for the first course all right.
Well, things were brought on the table in their order, and, of course, grandma supplied all deficiencies. Such fun as we had when the men folks drew cuts to see who should carve the turkey, and preside Uncle George, who is just raising a faint down on his upper lip, blushed like a gir when we told him that he was "the un might be as well to learn such things now, mrom all indications." No one dared to criticise, you see, for wo were all conhave not done so yet, hy the co-operativ dinner. Effie Whipple Dana. Cheyenne

## FRENCH MUSTARD.

Stir up ono cup of mustard with vinegar enough to thin it nicely, add a tcaspoonful of white sugar, a quarter of a tea-
spoonful of salt; bcat well, and set on tho stovo to come to a boil. When cool, bottle for use.

## LEMON EXTRACT.

Take the pulp of two lemons and the peel of four, pour over it half a pint o
alcohol, let stand one week, then strain out the pulp; return the skin, let stand another weck and strain again.

MRs. H. V.S.



ULINARY HINTS
OUSEKEEPERS dread
see the inquiring
see the inquiring ex
pression on the counte
nance of Bridget whie nance of Bridget which "Please, ma'am, what
shall I get for breakfast?" And in families the case is still more trying. One who has never attempted it cannot imagine the daily three bills of fare, which must keep n View the contents of the larder, the health and taste of each member of the
family, and the various affairs of the day which are likely to demand the attention of the cook and the use of the range, to the detriment of culinary matters.
the suggestion. Select whicherer one of the lighter meals you please, breakfast ment for one month of having that meal ery simple and uniform. persist in having the bill of fare invariable, for every one will become accustomed to its simplicity sooner, and if yon try to into your old habits almost without nowing it. If it is breakfast, and you show only porridge, bread and butter, coffee and milk. If they do not appreciate The balesome parritch, chief o'Scotia's food, stewed fruit, or boiled eggs. Let every hing you have be the best of.its kindand nice butter-and although it may eem at first a very poor breakfast, the amily will be all the better in health for living more simply. Some families will profer to take their plain fare at night. A $r$ brown bread and butter will be found more conducive to quiet rest and peacefu dreams than the misture of hot biscuits, ld meat, jam and cake, which is usually et forth. Make the table look as attract ive as possible with immaculate linen and
pretty china. If you are to have simple food, you can at least put the "butter in a lordly dish," and try to make everything look dainty and appetizing. Depend upon it, a plain breakfast or tea served in this carelessly-cooked variety set forth in rdinary dishes on a soil You will be surprised to find nnder how
many fanciful names the homely stew masquerades, writes Sallie Joy
We all know the plain Irish stew, egetables and dumplings cooked the meat. I dare say many of you have little girl, while pnzzling over the queer names in that a ragout less than our friend, the stew, highly flavored with wine. A salmi is a stew of
game, usually made from the left-over pieces of a game dinner; this is also quite jelly. A haricot is a stew with the meat and the regetables cut fine. Of course fish, clams or oysters; and that a fricassee fat, either before or after cooking in the etables. A pot-pie is a ster in which the dough is put on as a crust, covering the cooked, instead of being used in balls as dumplings.
he Liverpool school an Exeter stew, or every half pound of beef, half an nion, one quarter each of turnip and taste, a little flour, and water enongh to ieces, remoring any bits of crumbly bone that may adhere to it. Put the larger bones into a kettle and cover with cold water; melt the fat of the meat, brown as soon as they are a fine, yellow brown dredge the bits of meat with flour,
sprinkle them with salt and pepper, and Put them and the onions into the kettle in which the bone is boiling, and add enough boiling water Simmer from tro to three hours, or until the meat is tender. Half an hour before serving add the other regetables, which should have been cut into snall dice; twenty miuutes before serving add the potatoes, which should have been washed and pared, cut in to quarters and parboiled five minutes. You should take out the
fat and bone before adding the vegetables. When ready to serve, skim out the meat
and potatoes upon a hot platter, thicken the gravy if you think it necessary, add
seasoning, then pour it orer the meat. Half a cup of stewed tomato that has been trained is an excellent addition. If yo doubt eat it with keen relish.

HEALTH NOTES.
Sir William Gull says that when fagged out by professional work he recruits bis trength by eating raisins, and not by drinking wine or brand
saying from the same source: A pint of in the morning, is the safest and surest of all remedies for habitual constipation. dissolves the fecal matter and stimulates peristaltic action, thereby giving a normal ction without pain. If the tongue is $\frac{\text { and drink without sweetening. }}{\text { CONSUMPTION CURED. }}$


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Oux sumduy fitcmom.

## NEW-FASHIONED SINGIN'.

FORE Sue went ter town ter school, She sung as nat'ral as a bird But when her pipin' volce I heard I'd quit work jest ter hev a tune;
The men a hout the place did, to But sence she came from school last June, She don't slug iike she used ter do.
In singln' I'm a tarnal dunce Somehow I can't stick ter an air; I growl a few words here and there But Sue, a hahy, tired of play Inter her mother's arms 'ud She'd kind o'sing herself t
liked her hymn tunes mighty wel Her hymns in gen'rai struck me righ Like "Dennis" and oid "Silver Street Aud there was one-my favorite I only recollect a hit-
Her brow was like a snowdrop an
n' then, there was a song ahout "Endearin' young charms" au' ez how she should lose them charms, no douht, The feiler'd love her just ez now Wes not well-fixed and went Then, ez her father's funds was low, She took a chap named "Rohin Gray
n' now all day she caterwauls Four hours or so, an' never fails Her exercisin' an' her scaies. The same consists o' prancin' roun n' caperin' up an'dwindlin' down With no more tune than squeky sho

## " $n$ ' if so he her ma ohserves,

"o then hegins ter rack my yerves With some consarned Eyetaiian thin These songs that's writ in furrin tongne Are mighty high-toned tunes, mayhe; They may he good ter test the lungs, But words jest makes a song fer me
I don't enjoy her slugin' much;
An' all the things she's learned is such Gymnastic, hyfalutin' stuff. Thenmamin tunes now she says is queer But stili I wisit she'd fet us hear The old sonss, like she used ter do.

SLAVES TO APPETITE.

Iwonder how many men and of this subject in its true light? Ihave seen people who preach abstinence from liquors, and those same persons would go home, sit down to the table, and eat such a big dinner that afterwards they would say they
much that they were in misery. What would you call that but intemperce and being a slave to your appetite? simply from their immoderate eating. Th good book says be temperate in all things, in eating as well as drinking, in keeping your temper down and controling it; bu
Jf all things, be tenıperate in eating. Jus look around you and see all the sickness saused, nine times out of ten, by overeat-

Mothers allow their clildren to eat n mothers training a child's appetite as I 10 in training him to be a good child.
Don't give your one-year-old child peas or onions or pickles, or bread hot from the ven and soaked with butter, or perhaps ich preserves and a slice of cheese, and what made him have cholera infantum hat night.
I never did allow my children to eat mything and everything placed upon the able where grown people eat. I have reen visiting at times, and they would
ay, "Oh, give such and such things to lim, it won't hurt him," when I had the xperience of cholera infantum and an dmost sleepless night with that child from he effects of it. I make it a rule never
o give a child anything to eat without o give a child anything to eat without
onsulting the mother. She, of all perons, if she is a plain, common-sense per on, should know what her child should
lave. I don't believe in letting children, ro and three to six Jears old, sitting at able with grown folks and eating all it
wants (or any at all) of pickles, pepper sauce, preserves, and all kinds of meat.
This world has got to change its mode of iminoderate eating, as well as drinking before there will be a thorough temperance eform.
Being a slave to the habit of drinking ea and coffee, I might say, is almost universal. Who has not had company that
were lost at table without their tea or coffee? I had a neighhor once who was prostrated with violent sick headache if
she missed her tea at dinner or the evening meal. Is not that just as bad as a man having headache from missing his toddy or glass of beer? Again, I had another neighbor that was a slave to her appetite six-year-old sou into a near-hy saloon for a bottle of beer for supper. If that boy is
a drunkard, who can you hlame, as both a drunkard, who can you hlame, as both
he and his sister partook freely of beer at supper? Oh, I think if that mother only could have considered seriously once, she would have seen her folly and danger year without tea or coffee and be none the worse for the absence of it. Mothers, don't beslaves yourselves to tea and coffee,
and don't allow your children to use them at all. A glass of milk is far superior, and not having that, a glass of water is much prefcrred to tea or coffee. Never allow
the habit, and there will be no serious consequeuces nor slaves to tea or coffee.
hoy has got to be taught that it is in temperance to eat too much, as well as to drink alcoholic stimulants, before he can
be a teinperate man. How can he betemperate and not a slave to appetite until he is taught to do without things when his appetite craves them, be it pickles, prenotice how much a child can digest and what agrees with him, then gauge his food. Don't let him stuff crackers, candy and nuts between meals, and then wonder why he eats no dinner. Have as regular hours as possible for a child's eating, from infancy. Mothers, your responsihility in teach your children to be temperate in eating as well as in drinking, if you do not want them to be slaves to their appetites. I verily believe that many thousands of men have been made drunkards by being allowed to eat immoderately of all kinds of strong, spiced food, pickles and pepper-sauce, and having the appetite under no control. How could they con-
trol their appetite for alcohol, when they were never taught to control their appe Flites in eatid
Flo
M. H. Paschall.

Florida.
intolerance.
If there be men of thought and learning who can accept without hesitation the whole of Christianity as popularly taught and many clever men maintain that the whole thing, from Genesis to the Revela-
tion, stands or falls together), men to whon the fall, the flood, the life and still
when more the deathbed of "the man after Gow own heart" "God the same yester Elisha, the curse and the blessing an nounced by the same authority on the same man for the same act; to whom these and hundred more things like them creat no difficulty, let them thauk God with all
their hearts that he has heard their prayers and blessed their lives. But let them not dare to judge or to condemn other men, as much in earnest as thenias purely; whom "honest doubt" not always quite without success; who do sincerely try to prove all things tha they may hold fast that which is good who desire to give a reason for their faith but who find that reason very hard to give after the lapse of twenty centuries and since the changes wrought in the whole conception of heaven and earth by science as any other; men who pray for faitl which is not granted them in full meas ure, for light which does not come un clouded, for certainty they cannot attain of doubt must all, men of faith, and men estness and sincerity with which we hare striven to see God's will and to do ou
duty.-Lord Chief Justice Coleridge, in th New Review.


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## Simiter.

THE BARNSTORMERS.
The play was bad, the players worse, The kerosene lamp and the gas went out, A NEW VERSION.
oics. And the seats rows np in tiers.
-Cleveland Town Topics.

The June bug and the lightning bug In summer time appear;
But the beabuag is the biggest But the bedbug is the biggest
He gets there all the year. He gets there all the year

IT WASNT ANGELS HE HEARD.

TIT WASN'T ANGELS HE HEARD.
was a sad sceue. Tbe old man lay on his
bed, and by him sat the faithful wife,
holing his worn hand in hers, and forc-
ing backi the tears to greet his wandering
look with a smile. She spolee words of

$\qquad$ het. "S. comfort and of hope. But he felt the cold "Jeunie, dear wife, I am golng."

"Yes, dear wife," and he closed his eyes; "the end is near. The world grows dark about thicker and thicker, and there, as tbrough a
cloud, I hear the music of angels-sweet and sad." No, no, John, dear ; that isn't angels; that's the brass band on the corner."
"What!" said the dying man. scoundrels dared to come around here when they kuow I'm dying? Give me my boot-jack. And in a towering rage the old man jumped from his bed, and before his wife could think lie had opened the window and shied tbe boot-
jack at the band. " T 're hit that Dutch leader, anyway."
And he went back to bed and got well.- San
$\qquad$
LOOK OUT FOR OTHER SISTERS.
"Yow, then, Jennie," said the bridegroom
to the bride, after they bad returned from to the bride, after they bad returned from,
clurch, where the bnot had inst been tied, "Brothers brothers have you?" "Brothers !" exclaimed the bride in astonishhe only child of my parents."
"Oh, I know that; but how many young you accepted me? Those are the brothers I want to know about."
" Well," replied the bride, smiling, "I think
I must bave about half a dozen of brothers." "All right. You just drop a note to each of
them and tell them the brother a nd sister bssiness in all off now, an sou have got a husband.
if they want sisters, tell them to look around among the girls tbat are single. I'm all the
brother you need now." STRICTLY BUSINESS. Western land agent-"I wish to withdraw Riverside Addition
Vewspaper editor
Yewspaper editor-"Eh? What's the mat-
er? Don't sou consider my paper a good ad-

## "Oh, yes, the paper is all right; but I don't care to attract attention to thoselots for awhile

care to attract attention to thoselots for awhile
1om. We are nearing the season of the year

## THAT AWFUL BROTHER.

"I bope you will pardon my late arrival," sald the young man, as he seated himself iu the easiest cba
was over,"
"Tbat's one on Sou, Jenns," shouted Tom-
my, in great glee. "I told Yon so. Of course
he had sense enough to go in when it rained." And the silence, llke a soft hat, was plainly
felt.-Terre Haute Express.

## nothing when you are used to it.

Yes, it seems hard to hang four men at
nce, but the ohio law is more severe. I tell
out, it is pretty tough to wake a man up tat tro
'clock in the morning and take bim out and

## "Oh, they get used to it."

[^1]
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fitest of reclpes for every-day use, put into thie plalnest posslble language.
 raluable bits of experience boiled down to the ferest
ellar words that will express


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work cannot be good cookiing be done withont the proper uteusils; and
if this the aim of this chater to provide romplete liet
of necessary kitchen-ware, together with items of ad.

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eels, clam, etc.
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## urrent omment

成
subscriber in south-western Ohio writes that the crection of two large 1 binder-twine factories in his town
directed the attention of the farmers has directed the attention of the farmer not much doulat but that the rich Miami ralley is capable of producing immense crops of hemp. It will be a good thing for the farmers there
gate the business.
Heretofore, the greatest drawback to hemp culture in this country has been the amount of hand lahor required in the handling of the crop. Tlie binder-twine question last year stirred up an unusual amount of interest in the home produc tion of fibre. One good result is that in ventive genius is at work in that line, and
it is hoped that we shall soon have machinery perfected that will do away with hand labor and crude processes, and enable this country to produce all the fibre it uses.
For several years binder-twine superior quality has heen made of hemp from the imported fibres, manilla and sisal. Experiments in makiug it from flax have been successful, and factories are now making binder-tivilut of flax in large quantities. This is one of the most important achierements in this line, as it utilizes what has been for the most part a waste product. Large crops of flax are raised in the north-west for the seed, and no use is made of its excellent fibre. The success of the experiments made is a promise that it all can and will be used, and to the great adrantage of the producers. It is confidently hoped that improved machinery will soon make it possible for this country to make all its bi
from home-grown fibre plants

Another fibre plant that has been attracting considerahle attention lately is ramie. Its fibre is almost as fine as silk, and can be used for making the finest fabrics, aud as a substitute for silk. It is separating the fibre from the stalk that separating the fibre from the renewed the interest of the public in ramie culture. It is adapted to the South, but can be grown farther north than cotton.

There are other fibre plants that can be growu in this country, but in these three only we have plants that are adapted to all its latitudes-ramie for the southern, hemp for the middle and flax for the orthern portions.
This country exports one fibre in large quantities, and at the same time imports
fibres that can be grown liere. Imported fibres, with their manufacture, amount to more than two thirds of the value of the immense cotton exportation of the country. It certainly looks like it would be a good thiug to grow less wheat for foreign markets, and more fibres for the home market.

U
der "Current Comment," in Fary And Fireside for Fehruary 15, 1890 a brief article on single tax, which seems to be a cause of offense to some our readers who are single tax advocates subject. One says that the article "grossly misrepresents the single tax theory. Another writes: "You say the single tax advocates propose to abolish poverty by making the tax ou land so high that no one can afford to own it [not quoted correctly]. Will you kindly state your authority for such a statement?" This writer also says: "Single taxers may be a very pestilent set of 'agitators.' If so make it appear by honest facts and argu monts; misrepresentation will only react upon its author.
It is human to err, but we do not wisli or intend to misrepresent anything or anybody. Whether we are mistaken, or whether some of those who are advocating single tax fail to uuderstand its real object, is left to the judgment of our readers. If they will turn to the article in question, they will find the main point of it to be, that, with those who believe that poverty can be abolished by the abolishment of private ownership in land, single tax is a means to an end, and that end is practically the confiscation of land without compensation to the present proprietors. Our autlority is called for. It is "Progress and Poverty," by Henry George, the chief apostle of an old gospel in a new form. We have only space to quote briefly. In chapter II, book VI, he says:
To extirpate poverty, to make wages what justice commands they should be-the full earnings of the laborer-we must therefore substitite for the individual ownership of land a common ownersbip. Nothing eise will go to the cause of the evli; lu notining else is there the slightest hope. This, theu, is the tion of wenith apparent in modern civilizetion, and for the evilis which flow from it We must make land common property."
In chapter III, book VII, he says:
And by the time the peopie of any sucb country as England or the United States are sufficiently aronsed to the injustice and tbe disadvantages of individual owuershlp of land to induce them to attempt its nationalization, they will be sufficiently aroused to natlonallze it in a much more easy and direct way than by purchase. They wili not tronble

So much for confiscation without compensation. It remains for us to see what method he proposes for abolishing private ownership of land. In chapter II, book VIII, he says:
We should satisfy the law of Justice, we should meet all economic requirements, by at ing all iand pubilic property, and leting it out to the iand pubic property, and lething it out such conditions as would sacrediy guard the private right to improvements.
But while he conslders this plan perfect-
ly feasible, he offers another which he custoins and habits of thought-he would confiscate rent by taxation. He says, in same chapter and book:
Let the individuals who now hold it, still retaln, if they rant to, possession of what they are pleased to call their land. Let them continue to call it their land. Let them buy and sell and bequeathe and devise it. We may iernel. It is not necessary to confiscate land; it Tlius he masks the scheme.

Again, he says:
insomuch as the taxation of rent or land values must necessarily be increased just as we aboifh other tases, we may put the proposition into practical form by proposing-
In other words, he would abolish all ther taxes purposely in order to make the tax on land as high as possible. He would do this in order to confiscate rent, or, in his own language, to take the kernel of ownership iu land and leave the shell to the present proprietors. Confiscation without compensation by means of single tax is the scheme, the worst fcatures of which are skillfully disguised by plausible rhetoric. Read the chapters quoted and you will see that we liave not misrepresented the single tax theory. Our object was simply to call attention to its real purpose, and we hope that the "single taxers" who do not believe in the confiscation of private property rights, if there are any such, may see this clearly
At some other time we may refer to the absurd and unjust proposition of taxing the "unearned increment." For the present we will only add that we believe in the truth of the proverbs: "The magic of property turns sand to gold," and "Gire a man the secure possession of a bleak rock,
and he will turn it into a garden; give and be will turn it into a garden; give
him a nine-years' lease of a garden, and he will convert it into a desert."

瓜recent bulletiu of the Michigan Agricultural Experiment Station, on ribgrass, or narrow-leaved plantain, in fields of clover, is accompanied by a small sample of clover seed containing seed of this weed. The sample makes a good object lesson, and sending method of instruction. Doubtless, method of instruction. Doubtless, many
will recognize the seeds and learn that they already hare in their possession a weed, the seeds of which will injure the sale of their clover seed. The bulletin thus describes the weed:
Ribgrass, ribwort, English piantain, narrow leaved plantain, buckhorn plantain, has a perennial root, a rosette of narrow ieaves six angled flower stalk one to two feet himh, bear ing a cylindrical spike of flowers. The shining lng a cyindrical spike of nowers. The shining concave on the other. It is a native of Europe, but has been extensively naturalized, espcclariy in lawns, and thin, old pastures. Neariy especlaily while it is young, and it is not un
and frequently recommended as one of the ingritain; but as Jt becomes oider, stock leave the plantaln to go to seed. The leares usually spread close to the ground, like those of the dandelion, and thus exclude other piants.
The stalks are siender, without leaves, and afford little fodder.

It is not sucle a bad weed, but it is someWhat difficult to scparate its seeds from clover seed. Careful work with a good clover seed. Careful work with a good
fanning-mill will do it, however. In cleaning clover seed infested with weed seed on a good mill you will get several grades. One of these grades will be pure lover seed, free from any foreign seed, and fit for sale or sowing; another grade will contain clover seed and weed seed of such a uniform size that it is almost impossible to separato them. Because this grade contains some good clover seed, it is hard to resist the temptation to sow or sell it, instead of doing the right thing, which is to burn it. Buy no grass seed at any price that contains weed seed.

(2)omplaint is often made that clover and grass seed sown with oats in the spring fail to "catch." Now, it seems rather curious that clover and grass seed sown early in the spring, on fine, mellow soil, should fail to grow. So it would be if it were true, but it is seldom true. The seed does usually sprout and grow well. The trouble occurs in the summer. Along about the time the oats are ripening they pump up the moisture from the soil and leave the young grass or clover to perish with thirst. If the summer showers are frequent, there is moisture enough for both the grass and clover to live, and there is a good "catch;" if not, the young grass and clover dic and that is all there is of it The critical period is when the oats are ripening. If there is a drouth then, the young grass and clover are apt to perisli; otherwise, sowing them with oats will be a success. If you care more for the grass than the oats, sow it alone on ground prepared as for oats, only hetter. In favorable seasons, clover sown in this way will The finest
The finest stand of clover the writer ever saw was obtained by sowing on
wheat that had been harrowed early in the spring. The soil was a clay loam, slightly inclined to "run together" in the spring and bake. Harrowing at the right time prevented the crust from forning, and put the ground in fine condition for receiving the clover seed, besides benefiting the wheat

WE have endorsed the Farmers' League as the best plan of organization of farmers for the purpose of securing whatever just legislation they desire. In the issue of February 1, 1890, is published the constitution. Since then
it has been sinıplitied, and the life menit has been simplified, and the life menn-
bership fee reduced to fifty cents. On receipt of this fee the national secretary will send a certificate of membership. To form local branches the first steps are as follows: Where fire or more of the members of the leaguc in ant town desire to form a local branch, a charter and full instructions for the purpose will be supplied by the national secretary on receipt of $\$ 2$. When five such town branclies have been organized, a county league may be formed, clarter and outfit for which will be furnished by the national secretary on receipt of $\$ 5$. Any desired information about the Farniers' League may be obtained from the national sccretary, Mr. Herbert Myrick, Springfield, Mass.

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## (GIIT fintur.

## THE CLOVER-ROOT BORER

$T$HIS destructive insect lias only beell known in this country for
about a dozen years, having bcen first noticed in New Jork state in 1878. It originally inhabited Europe, but so far as knotrn, it seldom, if erer, has done
serious injury there. It is now present in a large portion of New of Ohio, and probably also in parts of of Ohio, and probably also in parts of spreading, and there is good reason to beiere that it will ultimately invade most of the clover producing regions of the United States.
The adult of the clover-root borer is a small, dark-colored beetle. It is represented, considerably magnified, at $d$, in the cut. This beetle deposits eggs which hatcl into small, whitish larræ, or grubs, that bore the roots of the clorer plant as
shown at $a, a$. When they become full grown as larre, they look, when magni fied, like $b$, and are ready to change to the chrysalis or pupa (c), from which in due time they emerge again as beetles.


The effect
upon the
plant is, of
course, most disastrous.
Withits roots hollowed out as these boronly dic; and whole fields ruined in this way by these pests.
The only
way that has been found practicable in aroidiug the njurics of the insect is
that of plowng the clorer up after the first ycar's crop is gathered. Professor I. P. Roberts says that in central New York the secded land
is mowed but once, the second growth being pastured off. "Since 1878," he adds, "the clover-root borer has worked the clover to such an extent that it invariably fails the second year. This has caused us to change from a five to a four-year rotation; namely, hay, corn, oats and wheat.'
Clarexce M. Weed.

## IRRIGATION.

I have shown that surface irrigation is both wasteful and dangerous-fearfully dangerous in rery level places with rich soil, and with a subsoil imperrious to water. There is one point in surface irrigation by open canals and ditches, having a very prominent position, that I did not mention-namely, there is immense loss of water, both by eraporation from the surface of the cauals aud ditches, and infiltration from them into the soil. This infiltration has been remedied to some extent south by lining the ditches with stone laid in hydraulic cement, or plastering the sides with cement. But at the higher altitudes the eraporation from the surface of the water is immense-beyond what it is at the sea level, owing to the ack of atmospheric pressure, and in all the Pacific coast region owing to the intense dryness of the upper strata of air. To remedy these two great items of loss, the water, in many places, is brought down from the hills and mountains by iron pipes and distributed throughout the land to be irrigated by pipes under pressure. This plan is costly, but economical and handy when once in.
With it there is not near the amount of lereling to be done so as to admit of water being carried to all parts of the land. It is really a very great adrance orer the old
system. Say we have ten acres in orchard. system. Say we liave ten acres in orchard.
We carry the water to its highest point in a pipe, with a faucet for an outlet. We
factories away up along the mountain side. The water-wheels can be put in all along the pipe and used to run a dynamo, and the power be transferred to the plain below in the form of electricity.
In sight of where I write this, on Sonoma mountain, two thousand feet above tide water, are never-rarying springs with water cnough to fill an eight-inch pipe, which, if brought down in this way, would give motive power enough in Petaluma to run all its factories furnish electric lighting and run its streetcars. Then, again, we hare the great Sacramento, San Joaquin, the southern valleys-in fact, all the valleys in the state, all of them furnished with water enough, away up in their surrounding mountains, to furnish motive power for every possible use that rotary power can the land for, besides the irrigating of all the land.
Then, is not irrigation the cheapest thing on this earth? It does seem as if the kingdom of steam and coal is near its end, and that the generation of electricity by the gravitation of water will soon be countries. $\qquad$ D. B. Wier.

## WIRE FENCE BRACE.

I send you a rough sketch of a substantial way to brace the ends of wire
fence. Braced in this wav, the end post will not yield to the tension of the wires, and your fence will not slack. The post
under average circumstances, and much less will do where annual applications are made.
In order to show more vividly the decrops, on the soil, I ask the reader to inspect the following table:


These figures, I beliere, are approx imately correct. A full crop of apples 15 tons per acre) would take o aud that acre, 50 to 60 pounds of potash the amount af por hay we taken off, the amount of polash reaoved iu that on season would almost reach 100 pounds and then no alloriance is made for th wood and leaf growth. I think this makes the reason pretty plain why potash applications are usually so beneficial to orchards and fruit patches.
The regetable and root crops, where large yields are grown, make still heavier drafts on the potash stores of the suil Twenty tons of mangolds per acre is only a common good yield, but it remores in the roots alone over 160 pounds of potash from the soil. A good crop of carrots ( 300 barrels) needs about 190 pounds of potash; of potatoes ( 300 bushels), orer 100 pounds; and of turnips ( 25 tons), orer 140 pounds of potash. How many such crops could be grown on land of average fertility before the arailable potash supply rould b exhausted, or at least terribly lowered On the other hand, however, we must not
forget that the loss is usually made good by heary applications of stable manures every ton of which returns to the soil about ten pounds of potash, so that an arerage application of from ten to twenty tons of such manure will be required to retain the original soil fertility, whe yields like those mentioned are obtained Where larger yields are grown and aimed at, larger applications must be made; bu in any event, a good stable compost is an
admirable fertilizer for the crops named, admirable fertilizer for the crops name and to make good the loss of potash
Suppose, howerer, that the grower, following the adrice often given eren by expert gardeners, has used bone dust or other phosphates freely or entirely for some time as a substitute for barn-yar manure. He may hare been rery liberal in his applications, putting on a ton o more per acre, yet in such dressing of bone dust he furnishes not a single pound of the potash, that is just the element ueeded, but instead of it a large quantit of phosphoric acid that may not be needed at all, or, if so, at least not in such amounts. It may work well enough for little while, but after a time the potas supply of the soil must run low, and the crops suffer for the want of it. Here may be auother case where Stassfurth potash salts como handy.
I have nerer been much in faror $u$ using bone dust and similar fertilizers for regetable and root crops, but wheneve they are applied for such purposes, especially repeatedly, or alternately wit stable nanurc, they should be accom panied or supplemented with potash salts Usually, the latter will be the more in portant of the two. Sulphate of potash $i$ generally considered the best form for potatoes and other garden and root crops but kainit has often been used with nos excellent results, especially on potatoes Oue thousand pounds might be applied per acre with perfect safety during the autumn previous to planting season, whil one half or one quarter that amount o bone dust may be all that is needed, and possibly more.
The importance of potash for these crops is recognized by all leading fertilizer man ufacturers, and their special potato and vegctable manures contain from 6 to 8 and some even 10 per cent of potash. But it will require uot less than 1,200 pounds, and
should be set three feet deep in the ground. This way of bracing the end post will hold as many wires tight as are
ever used. Chas. F. O'NeIL.

## Wisconsin

AGRICULTURAL CHEMISTRY
From the Standpoint of the Practical Farme BY JOSEPH (TUISCO GREINER). No. 29.
Important Considerations. - In my last article I tried to shom how the soi can become deficient in phosphoric acid in consequence of continued cropping with cereals. An altogether different phase of the manure question may be met vegetable gardening. In all fruits we remore from the soil an amount of potash ten, fifteen or more times as large as that of phosphoric acid. In regetables, root crops, potatoes, tobacco, etc., the propor-
tion of potash is three or four times that of phosphoric acid. Orchards are seldom manured. Perhaps a crop of grass, with all its large amount of potash, is taken off also. Naturally, thercfore, the potash is just that element of plant food of which the soil will become exhausted first, and this element must be furnished. If we do this in wood ashes (unleached), we also apply phosphoric acid, but we will do no hurt thereby. The Stassfurth potash salts, howerer, will show all their rirtues in thesc cases. Plenty of potash makes good and sweet fruit. It has a tendency to crop large, and will have good effects generally. Ally of the forms of potash may be here used, but as the cheaper ones (muriate, kainit, ctc.) can be pretty mucl depended upon to gire as good results as the higher priced sulphate, the former should be given the preference.
In regard to amount of application, $\pi$ might safely put upon orchards and fruit gardens quantitics that would be risk fields. A dressing of 200 to 250 pounds of muriate, or 600 to 800 pounds of kainit per acre, however, would be fully sufficient

same value for irrigation it had whel it started. Now, we need not string the
wish to irrigate the trees, and so a furrow is run down through the orchard to it urrows point; from this furrow branch other row of trees. We then turn on the water, and it is made to flow in each

By this system, the water flowing in narrow furrow and saturating the soil downwards, and laterally by percolation, here is rery little waste, and nearly al cultiration is done away with. Then, if
there is land on a lower level, the water can be collected at the outlet of the fur rows and carried in a board trough onto the next land. This plan is far ahead of the old one of open ditches and flooding except in first cost.
Then we hare one other point of great Talue in piping down water from the will say we have a storage rescrvoir or a stream or spring four hundred feet, or any number of feet, on the hills or mountains p four or five thousand feet. Piping this water down to the plain gires immense power, which can be taken from he water every onc hundred or two hunmotive power for machinery. I am not a hydraulic engineer, but I know that a four-inch pipe flowing full of water for one hundred feet rertically, will give imery simple contrivance known as the Pelton water-wheel that will use the force of the water and apply it to machinery with the least possible loss of power. A hydranlic engineer could figure out just how many great factories a ten-inch pipe Howing full of water would run, the water feet; I cannot, but it is reasonable to suppose that such factories could be strung long the whole fall of the pipe, the ond tro hundred feet below tho other, and hen when the same water did reach the
fertilizer to supply the potash needed for the yields as previously named.
From all that I have said in this and the preceding article, the reason will be plainly seen why the continucd production of the sane kind of crop on the same land is not in harmony with the principles of economic crop feeding. Cereals, the
erops that feed more largely on phosphoric acid, should come in proper rotation with root crops, potatoes, vegctables or fruits, all of which feed more largely on potash. This rotation, with the usual style of manuring, will serve to keep up the proper balance of soil fertility, and be most satisfactory generally.

## GATE-LATCH.

A New Jersey friend sends a drawing of a gate fastener. The wind cannot jar it open, neither can eattle push it open with

their horns. It is constrncted the same as the ordinary slide letch, except that it has at one end two levers fastened to it and the gate. At the other end is a slot, through which a belt works, fastened in the gate. The i.lastrations plainly show how any one can coustruct it.

## SAWDUST AS MANURE.

There is an inquiry from a subscriber in a late number of Faras and Fireside as to the value of sawdust as manure on a light soil containing no humus. I will give my experience: My land is very
light sand, with no humus or loam in it. As we can place a half-bushel crate of berries ow the Chicago market at a cost of five cents, deliver on our dock at 10 A . Mr., and know it will arrive in good condition at 4 A. M., the great question is how to keep up suclı a soil. Stable manure is ont of
the question, as it is not to be bonght. And as we keep no stock, and one horse can do all the work on a twenty-acre farin, how and where to obtain something for the "sand to grind on" is the question. A mile from my place is a mill, with piles of sawdust fully twenty years old. I felt positive that sawdust which was so rotten that it would cut like muck, and
was in many cases full of ancle-worms was in many cases full of angle-worms,
could not help making manure. Any way, my faith was strong enough to keep me hauling it from November to the end of April. It harl to be a terrible blizzari when I did not make two to four loads daily. It was unloaded in piles equal distances apart, and spread in the spring; and many a backacine I got spreading it. I never saw the least benefit from it, hut
decided injury. Everything on the part so treated made less growth than on the rest of the land. The main reason, uo times as dry as it wnold have been without it. On light soil I would never again spread sawdust, if it was so rotten as to appear black, unless I was certain of a season of extra arinfali from first to last.
Thic next experiment I tried was to mulch trees with it, which proved failure No. 2. In the early part of the season
those trees looked better than the others. On examining the soil under the sawdust up to July it was moist. The dry time of four to six weeks then set in, and ground mulched became quite dry. When good, iall rains set in, it seemed an impossiblity to ever wet through that sawdust. I have
exanlned it after thunder storins that caused the water to stand on our sandy soil, and it takes fearful rain for that, and it had not peuetrated one inch, In short,
repeated heavy rains would not give a
young tree mulched with sawdust a particle of mosture.
The simple question left to answer is, can any benofit be derived from sawdust? Yes, it has its uso when properly applied, but that nse is limited. As a mulch around evorgreens, it has no equal. I consider the time spent in hauling one hundred loads to leavily mulch fifty pines and Norway spruces as al grod investment. If trees are large enough not to require cultivation close to the trunk, a load around each tree, if full grown, or part of a load if only fonr or five years old, will be of great service if the following advice is strictly adhered to: The sawdust must be placed around the trunk the width of the land mplowed, simply because to get any of it on the plowed part will make tbat ground as dry as an ash heap. If thostrip left yearly unplowed is four feet wide, the mulehed part may bo fully eight feet in
lengtlı. It should at once be covered witli a thin coating of soil, to act as a sort of conductrees so treated will grow far alead of unmulched trees. If, in a year or two, an examination is made, thousands of small, fibrous roots will be found in the decayed sawdust, which, by the way, rots rery quickly.
Lastly, I tried the experiment of digging extra deep holes in planting blackberries and grapes. In the bottom of each and then covered with soil, so that the roots should not strike it at once. It was a success, and good growth was made in the second and third years. Now, to any man who can plant on good loam, such small benefit is not worth bcing considered; but there are, no doubt, many whose soil is so poor they will welcome any means to inprove it. Men who, like me, have to help build a tree up, as it were, little by little, and who cannot afford to let any chance slip by them. Such men can benefit by my experience, and I think they will fund $I$ liave given sawdust all the credit it deserves.
In my opinion, there is no manure for light soil cqual to turning under green rye. I would not have it understond from this I consider it aliead of clover. Of course, I would far sooner have a crop of clover to turn under than one of ryc, or I may say than two of rye, but when the comparative cost is taken into ennsideration, I mean in tine, give me ryc. All
my small fruits are planted ten fect apart, and I yearl sow the whole farm towe to be turned under in May. That distanee apart there is no necessity to get any in the rows, and it can be well landled in plowing. It adds to iny soil yearly, and gives it what it most lacks, "something to
grind on." JoHn Mason.

## Berrien county, Mich.

MORE IMPROVEMENTS WANTED.
Improvement has ahrays been the aim and hope of wonl growers in this country, but it has been in the direction of wool and wool-bearing shecp. Onr success in this direction las becn unequaled in the history of sheep raising. Nor has it reached the mltimatuin. What the possibilitics in fleeces are, no onc can say Therc aro unmistakable cvidences that a change must be made in our methods. Those who have been successful during the last three or four years have shown tho direction that future profits are to come from. A radical clange has been made, and good satisfaction resulted from it. But one of two things can be done to relieve tho pressure upon the industry, aside from the general improvement of prices in the world's markets, the inexorable law of demand and supply. The first of these two has been the effort to secure protective legislation, which, it is believed by some, will force prices to the point of profitable production in this country. Others claim that a tariff should be high
enough to prevent our market being a
dhanjing ground for other countries to dhupling ground for other countries to
unload their surplus on. This legrisation has been, is and seems likely to be, a difticnlt problen for political economists to wrangle over.
The othcr and more promising thing to do has been attracting more attention each year, from the shrewdest flhecp raisers throughont the Unitcd States. In all
sheep-growing regions we see increased sheep-growing regions we soe increased
attention to mutton. "Mutton and woul are receiving eonsideration as never before in our history. This is not confined to what have been called the mutton breeds alone, but to the cross-bred and the pure-bred Merinoes. The pure-bred Englishl breeds have been in such demand for crossing on native and Merino flocks that they were too valuable to be sold to the slambles to any great extent. The Morinues lave been slowing a strong and increasing tendency towardssize, symme$\operatorname{tr} y$, carly maturity and feeding qualities, that they may combine mutton and wool characteristics of the lighest class. Nor have the most enterprising breeders of the
various British breeds been ignoring the wool-bearing capalilities by any means.
This new departure is most hopeful, showing the energy of our people in meeting the situation in a shrewd, businesslike manner.
The crossing of Merino flocks with the downs and long-wooled breeds has been strongly opposed by Merino men, but it has been profitable, and that has settled the question. It is clainied this will spoil the Merino sheep industry of the United Statcs. It is claimed the cross-bred wool is coarse and uneven in quality. It pays to do so, and that is what we are asking for, and this we can secure by our own enterprise alone. These are permanent improvenents, that are yielding cash values on capital we have already invested. This we can do, tariff or no tariff. This we do not have to depend upon congress to regulate in its slow, bungling way.

## WIRED POST FOR RAIL FENCE.

I send you the description of a wired post for rail fence. I think this is the cheapest and strongest fence that can be

made out of old rails. You can wire the post either before or after it is set. Begin at the bottom of the post and wire as you sce in cut, fasten with staple, where the wire crosses; after the rail is putin, hit the wire above the rail and it will be tight.

> L. W. Marshade.

## THE SILO IN CANADA.

Conceiving that the manufacture of silage could be more simplified than what it ix, I made a trial last autumn. Mine ls a bank barn. I removed some beams and boarded up roughly the sides, not particular about little open spaces between the planks. I cut some of the corn toward the latter part of the day and took it in the afternoon of the next day, getting rid of more than fifty per cent of the weight. Most of it I cut early in the day and hauled late in the afternoon. I worked leisureky, and took a week to thus fill the
silo. As I filled 1 stamped around the outside and filled inside withont Iaching. Finally, I threw some peat staw oll thr, about a font deep. 'lite silage turned out very well and is much relisherl liy the stock, they preferring it to well-cilred clover hay. The con gives milk as if she were on pasture. To gre the silage ont, I use a hay-knife. I cut in streaks a font whe, which enables me to casily handle it with a fork. I nsed the ling corn and let it get two ripe, which has occasioned some waste; but were sweet eorn uscd and cht in the glaze, every bit would have been eaten up.

My silo was about fourteen feet square, and as deep. I found I could have put four times as much as I did into it. By putting in the corn as cut, there is saved the trouble of husking and shelling; and the cob being soft, is caten up. It is lield ly feeding on such silage a cow may lee kept for three cents a day in good condition, so milk and butter will soon cost us very little.
W. A RNOLD.

LUMP-JAWED CATTLE IN THE CHICAGO STOCK.YARDS.
Monticello, Ill., Jan. 24.-The Farmers' Instltute elosed its session liere to-daj. The Hon. S. W. Allerton luhrodaced a net of resolutlous denonnchig the conduct of the state llve-stock commlssion with regalrd tolampyfaw cattle and they were adopted. They are as follows:
"Whereas, The live-stock commlssioners of Illuols have assumed the authority to condemn and destroy good, fat, healthy steers at the Uulon stock-yards which are only affected
with a small lomp on Hieir faws, under the with a small lamp on their faws, under the
pretense of preventling the spread of contapretense of preventl
glons diseases; and
"Whereas, Weare informed by the nddress of Prof. D. McIntosh, veterinary sureeoll of the Illinols university, dellvered before thls lustilute, that the disease called lump-Jaw in cattle is not contagious, aud that the flew of such cattle is not whwolesome food so long as the anlmal is in thriving condllon and fats well; and
"Whereas, Years of experience with cattle convlnce us that his conclusions are correct;
"Resolved, That we conslder the action of the live-stock commission in condemning such cattle and consigning them to the renderlng tanks as a high-handed ontrage, resulting in the robbery of fariners and prodncers and enrlching the Unlou Rendering Company of Chicagn; and we respectfully request the governor of Illuols to make prompt luvestlgalion into the matler and take steps to stop this unjust and arbitrary exercise of power by the live-stock commissioners.
"Resolved, That the secretary send a copy of
these resolutions to the govemor of Lllinois." -Chicago Daily News.
I have time and ayain drawn attention to the fact that "lump-jaw" is only a loeal disease and does not affect the beef. In Germany and other European countrics thousunds of such cattle are butchered overy year, and, still, there is not a solitary ease on record in which actinomycosis has in that way been commmicated to human beings. The condennation of lump-jawed cattle in the Chicago stockvards is nothing but buncombe. The millionaire packers want to make people belleve that animals, whose meat ls unfit to eat, are promptly condemmed, and "lump-jawcd" cattle affiord the best scapegrat. Such a swelling in a steer's jaw is easily seen and casily diagnosticated while the animal is ret in the liands of the producers or of the small dalere, and its condemnation but animels affected with other diseases, whithare affangernus to luman heines, for instanee, cattle afferted with tuberrulosis, or hogs aldected with swine-plague or with triclinosis, are not
condemned. These diseases cannot be condemned. These diseases cannot be close exantination, yot only while the animal is yet alive, hut also affer the same
has been buthered. The diacnosis of has been butcliered. The diagnosis of tricllinosis, for instance, requires a microscopic examination of the meat. These discases, therefore, are not discovered un-
til the animals have passed into the pos til the animals have passed into the pos-
session of the monopolist packers, and it would never do to condemulanthing that belongs to them. Their squeal might be heard all over the country, and an inspector that would hurt their husiness wonld surely be ruined. The condemmation of lump-jawed steers is a humbug, but it is
allowed beeause it only hurts the farmers. and not only serves the purpose of tho monopolists, but also entichies them, because the carcass of a lig, fat stece is of considerable valne to the rentlering company, which, of emmse, is under one hat with the monnpolist packers. Thanks certainly are due o Mr. Allerton for his Big Four?

## (GItr fillut.

garden gossip.

## By Josepir

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02weet Potato Playts.-The production of a fair crop of sweet potatoes in suitable soil and location is a simple have good, strong plants at the proper season. Plants bonght at a distance, and
shipped hundreds of miles, shipped hundreds of miles,
often poor from the start, nd greatly hurt by rough handling, exposure and wilting, are not such plants as would satisfy me; and while it is not impossible to ship any kind of vegetable
plants long distances, and hare them plants long distances, and hare them ditions, I have usually much better success with plants grown by myself than
witl plants purcbased from a distant witll
dealer
Here at the North we liardly ever have the conveniences to keep sweet potato
tubers for seed over winter, cren if we tubers for seed over winter, eren if wo the autumn. So we will bare to send for them to some growers a few degrees
farther south. A few pounds of tubers farther south. A ferr pounds of tubers
well handlerd will gire plants enough to raise what sweet potatoes an arerage family may want to use; and I always prefer to buy, the tubers from a distance, risk connected with buying plants from a distance.
It takes at least six weeks to grow the plants in a good hot-bed; and since the
proper time for setting the plants does not begin until the ground has become thoroughly warm, or about June 1st in this latitude, the bed should be arranged in the earlier part of April. A good, strong, bottom heat is required, and consequently the manure layer should not be less than 20 to 24 inches in depth. This layer is to be covered witb a ferv inches of sand, the
tubers spread out in single layer, so they will almost touch one another, and ered with three or four inches more of
clear sand. If sand is not handy, sandy loam will answer. Now keep the bed warm, giving ventilation in bright, warm days, and airing more and more as plantng time draws near, in order to barden the plants. They are simply pulled up reloped first, thus giving the later ones a better chance to grow until their turn for
being pulled up comes also. All this being pulled up comes also. All th
work does not require especial skill, 2 great amount of care and attention.
Raislig Stweet Potatoes.-The usual war is to mark out furrows four feet apart, in warm soil and exposure, to put good,
barn-yard compost thickly in the furrows, barn-yard compost thickly in the furrows,
then ridge up the soil over the manure by means of plow or hoe, and set the plants about two feet apart along the top of
ridge. The operation of planting can be done most safely as follows: Select good, stout, well-rooted plants. Dip their roots and immediately plant by inserting the plant into a hole made into the center of the ridge with the index finger, and pressing the soil firinly about the roots so that standing firmly in the center. A little water may be poured into this cap, afterizer"' (some good special potato manure) good cultivation is given. In hoeing, the soil is drawn up to the plants; and when the vines hare hegun to run, they should
be occasionally lifted up from the ground to prevent them from taking root be-
tween the rows or hills, as they are otherwise very apt to do. On the approach of the first fall frost, the vines are cut onf tubers lifted out with spading fork or other convenient tool. Care should be exercised to prevent bruising tbe tubers, as every bruise or cut invites speedy de-
Early Cabbage.-I believe I have already stated in an earlier issue of this paper, that thatd be likely to replace the Early

Jersey Wakefield as an early market sort.
The Etampes and Express, so highly The Etampes and Express, so highly
lauded by seedsmen, did not proce earlier, in my trials, than the Wakeficld. nor were they as large and solid. A recent bulletin of the Ohio Experiment Station tells a very interesting story in this regard. These and other early varieties of cabbages were given a very extended trial on the grounds of the station, both in 1888 and 1899. The Early Wakefield prored in every instance superior and more reliable than either Etampes or Express, as it also had done in tests made at the Neer York Agricultural Experiment Station in 1880.

Whole string of new introductions were also found so closely resembling the Etampes, that ther shonld be stricken from the list. The Ohio station
"Buist's Earliest" (Buist). Clearly a strain of Etampes. and hare given very indifferent results here. Heads soft, but few being marketable.
"Extra Early Advance" (Burpee). Apparently no better.
"Everitt's Earlicst of All" (Everitt). Appears to be Etampes under another name.

Faust's Earliest of All' (Faust). No difference could be seen between this and Etampes.
"Johnson \&' Stokes' Earliest" (Johnson \& Stokes). Does not appear to differ from Etampes. The "Wonderful," from the abore, but does not differ from it materi-
"Landreth's Earliest" (Landreth). Must be classed with the Etampes, as it has the same general characteristics, although it varies greatly. Ten different forms were
noted, last season, in a lot of 150 plants, noted, last season, in a lot of 150 plants,
but the majority resembled Etampes more than any other. One of the most reliable of its class, the greatest objection to it beiug the wide range in time of maturity.

Premier" (Henderson). Has much the same characteristics as Etampes, but is dwarfer in growth.
"Rawson's Votuntecr" (Rawson). No
ifference betweeu it and the Etampes was observable.
"Salzer's Earliest" (Salzer), Seed procured in 1858 was mixed, but appeared to 1889 was Early Jerser Wakefield, appar-
Here we have ten different varieties, introduced with great claims, and not a
single one strikingly diferent from the Etampes, which is the name that should be applied to all; besides, we have no eartbly use for any of them. There can be no doubt that the introduction of these sorts has cost the gardeners of this country a round sum of moner, and a good deal of rexation. And then this confusion of
names, when our list of varieties is overloaded already. Yet it is not very likely that these seedsmen bave willfully sent out an old sort under a new name. Undoubtedly, ther were imposed upon by ing of the sorts named las been discorered, it may well be hoped that the respective catalognes will in future be purged of the offeusire names. In the ineantime we have learned that if we
wanta good, first, early cabbage, we must plant the old reliable Early Jersey Wakefield.
The horticulturist of the Ohio station recommends the following varieties for general cultivation: All Seasons, Cbase's Excelsior, Deep Head, Early Wakefield, Early Summer, Fottler, Henderson's Suc-
cession, Louisville Druuhead, Low's Peerless and Winuingstadt. My own experience corresponds so nicely with these statements and recommendations of Prof. Green, that I felt it a duty to call attention to them, to put our readers on their guard.
The Early Reby Tomato.-I am told
by Messrs. Peter Henderson \& Co., of New York City, that their new "Farly Ruby" tomato is not the rariety I had in view when saying, in a previous number, This "Early Ruby", so the introducers say, is emphatically a variety for market gardeners who desire to put the crop on
the market as early as possible. The foliage is thin and open, resembling in this
respect the King of the Earlies. I advise all market growers to give it a trial, for if the fruit will turn out to be better, and perhaps larger, than King of the Earlies,
there may be a honanza in the "Ruby" for all who have access to an early market at big prices.

## Orchard and Small Fruits.

## sunday work in berry growing.

Rer. J. S., Darenport, Iowa, writes: "Mr. L. B. Pierce, I am thinking of engaging in the berry business in order to get outdoor exercise, but I am told that I shall be compelled to gather the fruit on the Sabbath, or suffer loss. This I should not like to do. Is it necessary? I should be greatly obliged if you would give me SIDE."
There is very little necessity for gathering fruit on the Sabbath, but it is sometimes a profitable conrenience and a boon to the community to be able to put table fruits into the groceries by $10 \mathrm{~A} . \mathrm{M}$. Monday, and if one lives more than one hour's
drive from market. Personally, I do not drive from market. Personally, I do not
pick berries on Sundar, save for family use, and at rare intervals for some neighbor who has unexpected company, and wishes a few berries for dinner.
There is no necessity whatever for gathering raspberries and blackberries on that day, if the grower keeps well up with the ripening, as one day's delay will cause but a trifle loss, the fact being that as a general rule both berries are put upon the market too green. With strawberries it is a little different, as they are not only liable to get overripe, but the marketing of three dars' ripening on Monday evening or Tuesday morning often causes a glut and a decline in prices in markets that are not fully supplied later in the week. If Fridas and Saturday are rainy, then Sunday picking seems as necessary as any otber work, like chores, etc.
In berry growing as in auytbing clse, the amount of Sunday rork depends largely upon the disposition of the grower. In notbing does human nature exhibit itself in so many marks as in the question of labor on tbe Sabbath. Tbe good Quaker people of western Belmont countr, Ohio, Who last year shipped 15,000 bushels of
berries, will not pick on this day, but they load whole trains on Saturday for the B. \& $O$. road to draw to market on the following day.
Last year, in bargaining with a woman for her children to pick herries, she stipulated that tbey should not pick on Sunday. No colday morning, and her oldest boy was missing. Inquiry revealed the fact that he had
played base ball nearly all day Sundav, and was so stiff and lame as to be unable to work on Monday.
One of the largest growers of berries in a market wbere I sold some years ago, coinplaiued, one Tuesday, of the glutted condition and low prices of the strawberrs market. Said I, "The remedy is in your hands. You do more than half a dozen
small growers to depress the market. If, instead of picking 40 bushels of berries on Monday and marketing them on Tuesday morning, You picked $3 \overline{5}$ on Sunday
and distributed them groceries ou Monday morning, you would not only prevent Tucsday's glut, but get half a dollar more a bushel on both Monday and Thursday, and thus benctit yourself while it would help the small producers of fire bushels a dar, who conld
not affect the market if they tried." He answered very shortly that he didn't pick berries on Sunday. I was sorry I made the suggestion, and felt that I had wronged the man and lowered myself in his esteem by doing so. A few days later I heard him giving a grocer, whom everybody bated, a piece of his mind in such a of profanits that had lie not been a young man I would have been certain that he once served as a uule driver in the Army of the Potomac. When I got a chance I asked him how he could consistently have onscientious scruples about Sabbath work
"Oh," said he, "it's not me, it's my neigh
bors; they all go to church and Sunday bors; they all go to church and
school, and I can't get pickers.'

I live in a community where many farmers keep large winter dairies, and the daily labor is equivalent to the work of one man seven hours. Where they are church goers, as many of tbell are, their Sabbath programme is to get up at six, feed, ea ther dress, hitcl up and go to church, rethey dress, hitcli up and go to church, re-
turning after Sunday-school, and where trio or more miles distant, arrive at home at 1:35 P. ar. An bour suffices for putting up the team and eating dinner, when the chore clothes must be donned and chores done until six o'clock, when, after a bit of lunch, it is time to get ready for evening serrice, and it is generally 9:30 before the team is put in for the night and the SunThese work of fifteen hours completed These dairymen are as much seven-day
workers as are tbe street-car drivers in workers as are toe street-car drivers in the city of Clereland, and Sunday is the busiest day of the neek; Yet they put a gang of seven pickers into my berry patch for a single hour on Sabbath morning, or chop fuel for the greenhouse three or four hours in addition to my regular chores, which average less than an hour and a half dails.
In a village near me is a setwer-pipe factory employing thirty hands. Some keep a horse, some keep a cow, but many have no chores whaterer, so that the comexceed twelve hours' work of one man. Four of the men are required to run the kilns on Sunday, making forty-eight hours, or, altogether, an average of two hoursper man of Sunday labor performed, or five bours less than many farmers do yet these same farmers look upon the owner of this factory as a man who gets his living by Sabbath desecration, and who will some day be punished for imperiling the souls of his fellow men.
But to return to the berry question. My reverend friend will find that, while he does not have to pick berries on the Salb bath, be or some muscular men ber of his family will have to sit under a tree or in some fence corner all day and fight flie aud mosquitoes and drowsiness while he protects bis berries from the depredations fresh from the busbes L. B. Prerce

## INQUIRIES ANSWERED



Quninted with the experienee of growers in
fonr neightorhood you could probably: make
SUPERIOR DRAIN TILE.



## 

## THE POULTRY YARD

loing a home market. our years ago, ducks in the
New York market brought a very low price, and "green" ducks were unsal versupplied, and thos who had raised large numbers of early ducks, with good prices, were disappointed. But the overstocked marke proved a benefit ill the end, for persons who had before nerer enjoyed the
luxury of green ducks (younr ducks) were indaced to purchase, the result being that during the next scason nore ducks were in demand. The people had really been educated to a knowledge of the excellence of eariy ducks by the
low ting price. As the demand increased, so did the price, and now the market receives all that is sent, and good son. What is to prevent the building up of a demand nearer home by calling the attention of buyers to choice stock, instead that there is a sale for poultry and eggs in eyery section, if producers will attempt to create a demand by offering something better than the markets afford.

## USING THE WASTE.

The hay seed, broken leaves of clover and damaged grain of all kinds can be utilized for feeding poultry to better away. One of the reasons poultry pays on of waste food consumed and converted into eggs and meat. There is no necessity for feeding poultry a large portion of the
year when the barn-yard is accessible to the hens. Eren the droppings of cattle are made to yield something to them. When, however, the hens are unable to cone to their rescne with a supply from his granar.

## A BROODER.HOUSE.

Mr. A. J. Aldrich, Orlando, Fla., sends a sectional view and ground plan of his
brooder-house. For a cold climate it should be double boarded. The -house may be built of any material preferred. As no description is necessary, it may emado plain by stating that $A, A, A, \Lambda$ made movable. B, B, B, B, etc., are yards. S S , are two movable sash over the brooderraised or drawn forward. E, E, are passage-

ways, $4 \times 6$ incles, into brooder-rooms. The left side of the house is for large chicks, and has no glass. Each yard out so that they can be lifted up. There is no fioor except earth. The doors, $5 x 9$ inches, 0,0 . This brooder-house is for hens haring bronds.

## CRACKED WHEAT FOR CHICKS

Feed stores now leep cracked wheat in being made for it by those who inake a specialty of raising chicks for the early supply in market. It is and it is eagerly eaten by them. For chicks in a brooder, the cracked wheat is put in a little trough, so that the chicks
can help themselves. It is fed dry, and consequently requires no preparation, which is quito an advautage, considering the labor required for preparing food for are with the hen, the best way to feed
cracked wheat is to place it on a board
and allow the chicks to eat it at will. The board must be kept clean, by being brushed off daily. A little sharp, coarse sand, ground shells, or some other kind of sharp grit, should be giveu withthe of the kind as well as fowls, aud if not supplied tboy may have bowel disease. of course, in feediug the cracked wheat there is nothing to prevent a variety of other food also.
the best fattening ration.
In thoso sections where sweot potatoes are grown easily, the use of small potatoes for poultry will make an excellent ration for fattening poultry intended for market. Cooked potatoes thickened with corn ineal
will put more flesh on a hen iu the shortest timo than any other food known. In fact any kind of food rich in sugar will fatten stock or poultry quickly, and there is nothing superior to sweet potatoes for that purpose. Such food, however, is not is detrimental to laying.
mud in the poultay-vard.
In the winter we not only have the rains and snows as obstructions to poultry raising, but we also have the disagreeable


B


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The hen feels this difficulty severely, as she is closer to the ground and cannot on easily escape from it, compared with humans, and to avoid as much of the mud as possible, the yard should be drained and the use of coal ashes to fill up tho holes will be found serviceable in assist ing to prevent mud.

## CORRESPONDENCE

A Cholera Remedy.-I notice a great many nquiries for a remedy for clicken cholera I have one which we have used for ten or
twelve years, and I I lave never known it to
fail fail curing the worse cases. I have cured them Half pound flax-seed meal, three ounce cayenne pepper, two ounces rlutuarb, osin; mix, and give three tablespoonfuls nixed in a gallon of meal. Fced twice a weel: Make a dough of the meal. If thes are too
sick to eat, take as mucl of the mixture as will ay on the point of a pen-lnife and give to the lay on the
A Device for Warming tie Water.want to tell you of a little derice of mine that just the thing to keep water from freezing for poultry. Take a nail-keg, dig a hole in the
ground floor of the poultry-house, set the keg half of its length in the ground, get a pan that Will fit into the top of the lieg tiglht, so there
will be no waste of heat. Bore an lich hole In the leg, near the ground, on one side, and near the top on the other, for draft, and set a small lamp in the Leg, on a brick or $t$ wo, sufficient to bring the lamp close to the bottom of the pan. Set the pan on, till up with water and you have a chicken fountain that wil
defy cold weather, and will not cost over one cent a day to run it. Now, I will venture to say that I don't believe there is one flock o chickens in twenty that get the amount o water they need in cold weather, but by thi mple and inexpensive derice it becomes a east danger of fire. A. W. Randalia, Towa.
Ieeeping Chicks out ge the bard.-I sena a description of my hen-house and hog-sty
comhined. The full length of the building is wrenty-six feet and two stories high; the
widh is twelve feet. Twenty feet of tle lower tory is used for a hog-sty, and six feet off one end is for the hen-ronst. The top floor is laid Fith matched lumber. In one corner of the hen-roost there is a trap-door, so that in cold and snowy weather the fowls can go up to the
top floor without going outside. I always eep a lot of clean litter outside. I alway eep a lot of clean litter on the floor and
hrow feed in. The side faces the south, with three trindows in, and a lot of nests around the wall. This does away with chickens in Be barn, as it
Bryan, Ohio.

Reply:-The symptoms are those which how the presence of the large, gray lice on the
heads and necks, the hest remeay belng to ap-Guineas.-H. A. H., Wilmot, Kan. Writes:
Is it necessary that guineas be pairedin order
hat the eggs of all females should hatch?" Reply:-It is better to have the sexes equal but the male will mate with more than one males, and the eqgs from the entire flock o
How to Operate an Incubator.-J. K.
Mickleton. N . J., writes: "Would you be s lickind as to teli us how to runl an incubator
also broder? Which is the best, a bot-wate
Reply:-It would require large space to glve Reply:-It would require large space to glve
reply. By writing to P. H. Jacobs, Hammon
on. N. J. and enclosing stame form and stationery, you will receive illustrated

Bremen Geese.-F. M. T., Willshire, Ohio rayor common goosc, and can they be picked Reply:-They are twice as large and can be
icked as often. They are also known as picked as often
Dificulty with an Incubator.-H. L. M.
Seatile, Wasly., writes: "We use anincubator, Seatile, Wasll., writes: "We usear.-H. Inc. M. M.
but with very little succes, and have wasted
hundreds of eqge sus hundreds of eggs. Usually, the eggs have
nearly all contained at lat ching time fully-
developed chicks, but they do not seem to developedicincks,
liave sumfint thitity they do not out of theem shell.
Sometimes, if we cracked the sliell, the chick would lire two or three days. We have
changed beed, and bouglit eggs, with no suc
cess. We have tried giving more air and more
moisture by placing moist moisture by placing moist sponges on a wir Reply:-Difficulty may be due to lincorrec thermometer. Give no molsture the first week
Wlien eggs hegin to pip, shut tlie draver and keep incuhator closed until hatch is over, a ing. Give plenty of moisture after the
Preserving
Kansas, writes: Ergs.-G. F. E., Munden,
would like to know the est way to pack away eggs in summer time
or winter use. Perbaps some of the reader
f the FARM AND FIRESIDE of the Farar and Fireside could, give some o
their experience in packing eggs."
and tur and turn them twice a week. It is the hest
nethod. We will he pleased to heal from our Sundry Qnestions.-W. W. K., Russell my hens don't lay, or, rather, more of them
They have free range, plenty of pure wate and greengrass and clover (all wlid) and all
the corn ther will eat, noother oraln. Is fine
sawdust good to use hn nests instear of straw sawdust good to use m nesis instean of straw ?
Is it necessary that ah of the eggs should
he put in an incuhator at once?" Reply:-No douht the feeding of the corn Cut staw is hetter than sawdust in flic
nests. All the eggs should go lu the incuhests. All the eggs should go In
bator at one thme.

## CATARRH CUREO.

A clergyman, after years nf suffering from that loath-
some disease Catarrh, and vainly trying every known some disease Catarh, and rainly trying every koown
rentedy, at last found a prescription which completely
curred and saved lim from death Any sufer cured and saverl him from death Any sufferer fromi
this dreadful disense sending a self-addressed stamped this creadful Pisease sending a seif-add ressed stanp
envetope to Pro. J. A. lawrence 88 Warren str
New York, will receive the recipe free of charge

Butiter
Color.
PURIT
BRIGHTNESS
Always gives a bright natural color, never
turns rancid. Will noteolor the Buttermilk. ries and Dairies. Do not allow yourdealer to convince you
that some other kind is just as good. Tell him the


## POULTRY PAPER <br> 

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## PCIDER

Pennsylvania Agrienliturel Works, Yors, Pa.




## Steit ig ilincel



EXPandedo metal
CUTFBOMSTEEL SOMETHING NEW.

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## 

Frojr West Virginta.-Marion county has plenty of coal, petroleum, ete., and is one of the greatest coke fields in the state. Severa
new oll wells are going down here norr. We new oll wells are
ralse corn. Wheat,

## is about 80 to 85 cents a bushel ; corn, 50 cents ;

 potatoes, 60 cents. We hare a well-tlmberedcountry, a good, healthy cllmate, and rich soil. Brannington. IV. Ta. H. T. H.
Froni Kentucey.-Central Kentucky is a good country for tobacco and hemp, also potatoes and all kinds of vegetables. Blue grass grows every where except where the plentrof it. We have about 100 miles of good country I ever sair, talking everytining into
M.erlisburg, Fiy

From Illinots.-Uuion county made larger year than nny other county in the state. We
y soclational. This is an excellent place for mew firms for sale in this county. However, a fer good firms cau be bought for from $\& 4000$ rom twenty acres of land nearly $\$ 1,200$ worth of produce. We hareas healthy a location as
iliere is betireen the Ohio and Mississippi iliere is betireen the Ohlo and Mississipp Aına, Ill.
Froni Wiscunsm-Marquette county is sit aated along the Fox river. and is all timber icad in farmers' Institutes. More interest is our land is steadily adrancing in value. Clover seed, Inst year. yielded from three to
twelve bushels per acre. Several of my nelghbors hulled seven hushels per acre. Thls is hard clay nud some sandy. Ourgreatest draw oxford.
E. M G

## FromKansas.-I have been in Kansastwenty-

 mortgaged and have had only five good crops 10 to 15 cents per bushel. Thls country has been advertised so much that uea:ly every--body that comes is disappointed. I like your suggestions that correspondents give both
sides of their country. Some of them don't ll ally of the drawbacks. .elave one paper and serentceu foreclosures advertised, and the same paper puts that counts as the garden Yates Center, Kan $\qquad$ -Hamition Foond farming and stock-raising country. We find that it pays better to ship fat cattle and
hogs than to ship grain. Prices are low now. 40; flax seed. $\varsigma 1$; fat cattle, $\$ 2.50$ and $£ 3.50$ per ceuts per pound, and eggs, is cents per dozen. iry, and hare seen wonderful changes. Railprning np, and where the sod hou lanses on the open prairie, are now seen frame deep, dark loam. Land is selling from \$23 to Slockholm, Neb. mam. We raise corn, winter wheat, oats, flax 1 rish potatoes, pcaches, apples, pears, black-
herrles, raspberries, strawberries, gooseberries, rapes and everything else grown in the same We hare the best of society, good churches
and schools. Hutchinson lias large salt wells. The prospect is guod for wheat. I am nota polirights, if therc are any to rote for. Let us stand day darning for us. Let us conteud for our
rights. We waut ouls what rightly belongs to ns-bnt we want that, and want it bad.

$\qquad$
$\qquad$
$\qquad$

of people living here, and we extend a liearts melcoine to the immigrant. The railroad
facilities facilities are good. The climate is silubrious.
Kelso, Kansas.
$\begin{aligned} & \text { F. W. H. }\end{aligned}$
From Washisgtor:-Wasbington, with the rest of the Pacific coast, lias had a large amount of rain this wiuter. There was a de-
ficieucy of rain fall bere for two seasous before, and last season's crops were nearer a failure than
veraged about 15 , oats 35 and barles 35 bushels to the acre. Iu six harrests before 1s39, I never knew a crop of wheat 10 yield less per bushel; onts. $\& 1.25$ per 100 pounds; barley. 1 per 100 ponuds; har, sis th 23 per ton. Land, proved, sio to 812 . It is nearly all rollng prairie land in Whitman counts. There are the western part. wlere it is only fit for grazap. Apples, pcars, piluns, pranes, cher Oakesdale, Wash.
From Kassas,-Rooks counts, in northwestern Kansas, lias never been boomed by
railroad adrertising and is not very well railroad adrertising and ls not very well
linown in the East, but it is a very good place
fora home seeker to come to. But let sucl beware of buying laud on which to make n home for himself and family solely on the dieap. Good land with fair culivation wll1 produce from 20 to 40 buchels of wheat per
acre, and in the nortll side of the county from 30 to 60 busliels of corn. Water cau be found alnost anywhere, but some places it requires
boring to the depth of from 100 to 200 feet, at which depth the water is eilliersoft or slightily sally; the water in slaallow wells is hard. The
high, smooth lands are the best for all kinds of crops, and the most healthy; side liills nnd ravines are shaly nud poor, , ot tom lands are
fairly good, but mostly quite sandy. Healti is not so good on low ando along hers. Fruit trees do well when grafted on whiole roots. Piece-root grafts do not root on winiently to support the trees.
sufficiton, Kan.
Frosi Iows.-_Vorth-eastern Ioma is a very
good farming country, aud a beautiful country good farming country, aud a beautiful country
to look upon. The seasons are fine except to look upon. The seasons are fine except
winter, which is usually cold. Soll is a black, ricl loam. I have been in this county thirty-
five sears and have nerer seen a fallure of ine years and have never seen a farture op
crops. We hare occasionally a short crop caused by drouth. All the grasses peculiar to
thls latitude do remarkably well. Grass, corn and oats are the malu crops. We usnally feed our grain aud liay to cattle, hoss and horses, for which we have a good market. Corn pro25 to 100 ; hay from one to three tons. Land can be leased for from 1.25 to $\$ 2.50$ per acre.
We have plentr of good, pure water for all purposes, also timber enongh for all unes. at
reasonable rates. Land sells at from 15 to $\$ 30$ reasonable rates. Land sells at from $\$ 15$ to 830
an acre. Corn is worlh 20 cents to 25 cents; oats, 17 to 1s. We nearly always have good roads. Therc is no hard pan under the soil
and the surplns water is absorbed at once. It is common, after a heaver rain, for the roads to Wry within twent
West Cnion, Iova.
Fromi Idaro.-In June, 1859 , I left the state of ceclones and blizzards nud settled nt Moscow in northern Idabo, a fine 11 t tle city of 1,500
inlabitants. It is located in as good a farming inlabitants. It is located in as good a farming
country as there is in this western country for country as there is in this western country for
all kinds of farm products cxcept corn. All kinds of fruit grow here, prunes and aprlcots
being a sure crop. We liave fine, soft water and plenty of timber, suclic as piue, red and
white fir, cedar and tamarack. Tuls is a very rouglh and mountainous conntry, but the soil is excellent. Our winter was a inhe one, no
sudden cbanges, and but rery little wind. We siad abont troo feet of snow and six weeks of
fine sleighing. Our spring generally comfine sleighng. Our spring generally com-
mences here about the midde of Felruary. Farm hands get $\$ 35$ per month and board,
commion laborersget $\$ 2$ per day, and meehaules get from $\$ 3$ to $\$ 5$ per day. Inproved land is
oot very high. Wood sells at $\$ 3.50$ per cord ;
 all other kinds of fruit, one and a half cents
per pound. Corrs sell at $\$ 30$; horses, $\$ 50$ to $\$ 100$; Mascow, Illa ho.

ground for almist all kinds of graln. Finit and herries are largely cultivated. Laud sells for $\$ 50$ or $\$ 60$ per acre, unless it contains the
belter improvements. Our citizens and others going into the West for better localities re-
gorn turn, saying that they have seeu no better country than this.
Inwin, Ohio.
From Nebraska.-Only elghteen rears ago this was an nubroken prairle, possessed by the it ls well settled and limproved, with plents of it ls well settled and limproved, with plenty of
schools and churcbes. When we read of the steady rain and the depth of the mud iu the East, and the floods on the Pacific coast, we mate and good roads, With the our dry cilthe first three weeks in With the exception of have played out of doors, withont need of rubbers, nearls every dar. Of course, the wind blows here, but if it were to qult entirels, it would make an outcry among the catlle raisers, for wind-mills are their dependence fruit can be grown successfully here; all linds bore well. I never saw finer peaches than grew in our garden. Land ranges from sio to active out here. They re people are quite Hampton. Laud is genernily ready for the plow as soon as the frost is out of it. Very,
seldom do they have to walt for it to "dry off",

Renters get two thirds of thelr crops, and generally house rent and "truck patch"
free.
M. E. C. free.
Hamp
Frosi Areansas. - The larger portion of Baxter county is hilly, and the connty-seat is appropriately named, Mountain Home. It is itants, ten stores, tro churches, good cour lonse, an academy with orer 100 students and a good mill. The laws are enforced and the soclety ls good. There is no politlcal prejudice here; every man can vote as lie pleases, without the least fear of rinlence from any political
source. Health, off the rivers, is generally good. The ling a great deal of rain 10 make good crops. product:ons. Sweet and Irish potatoes and almost all kinds of garden vegetables do well here. Fruits do well while the trees live Apple trees seldom bear over six or seven years; peach trees lire longer, and smalt fruits do well. Wells cannot be dug casily, but they can be drilled, and good water found at a
depth of from 60 to 100 feet. The range ls good, cxcept in the thlckly-settled parts. There are tliousands of acres of government land which lands are glady, steep and rocky. Tlie timber is generally scrubby, though sufficient for all purposes. It is fifty miles to the nearest rall-
rond statlon, consequently the market is poor. Claims can be bought cheap; deeded land and small Mountain Home, Ark.
Fromi New Mexico.-There are thousands of subject to entry Improred lands are wort from $s$ to $\$ 50$ per acre. We depend altogethe on irrigation, therefore we are not subject
failures. When we need rain, we get failures. When we need rain, we get it
tbrongh the irrigating ditch. The soil of these ralless is wonderfulls productlre. All kinds Irish potato in the lead. Wieat, oats and some of our farmers tell of the wonderful crops of alfalfa they hare raised, but it is too high an estlmate. We also raise timothy compared witl al falfa, the latter being $\in q$ quall nutritious, and giving three cuttings a year.
Our fruit Industry is an fiem of great innportance, as sncb fine frult as we produce cauno be excelled anywhere. Peaches rarely ever
fail. Our temperature is very even and mild; the mercury never runs abore $92^{\circ}$ in the sum-
mer, or below zero in winter. Oar rains season late to do the grain fields auy good; but it changes ture dre hill andranges into a green sands of sheep, cattle and borses live fat the year around. Nature has done much for this the rugged ploneer to come formard nnd take phatehood in the near future, which will be a
statione grassing lin many ways. The question of land
grants, with which this territory is much encumbercd, will be speedily settled. Fortungrant in It. The population of New Mexlco is
about 135.000 , of which 70 per cent are Mexlcans. Our taxes are reanolably low, two per cent being the highest. The time ls near a liand when woolen fnctorles will be a payng Industry for Neir Alansico. There are
Indiathe West of us, nnd the Utes on the northowest.
They pass througli our setiements ocenslon ally: but nre nll peaceable, and so far n family and their clothing aud beddiug; for you
can buy everythiug here cheaner than you
can briner Farnington, tiew Mexico.
Frum Soltil Dakota.-Sully county, situ. Dako wear the center of the new state of Soull the greater purt of which consists of benutiful, rolllug prairie. The Missouri river is skirted by rugged and somewhat pictaresque heightis,
called buites. The intervening gulches nud the banks of the riverarecorered whll a thick aud 1 of and cotnawood irees, plum The plum is especiult prolific and affords a a bundant crop nearly every year. Thequality of this fruit is excellent, and would compare fhis cous is many tume sorts. The soll of bumus, aud is a strong and euduring soll. The repeated cropping to wheal for a number of Wheat is our principal field crop, and $y$ lelds from ten to thirty bushels per acre. contin the latter rainfall and method of cultiration, experience and care, which the farmers begiuning to discover and appreciate. The same may be said of oats, corn, flax and other crops. Potatoes are an alnost certaln the fertility of the sois, due, no doubt, larye size, and have a fine flacor. They require no cultivation when plonted on new breaking. Garden regetables do eqtally well, conslder able attention belng giren to the raislng of
onions, which attain a largesize. This count is admirably adapted to stock ralsing. nnd considerable attention is being glven 10 breed locality, for healthfulness, cannot be excelled anywhere, as it ls quite free from mnlaria and atmosplieric influences so destructive o bealth and comfort. Here mud is a noneutly cycloues a msth, good roads a thing of beant county began in the spring of 1 ss , and contin ued rapidls unill all desirable land was filed upon. Much of thls land was racated after aud was perfected and is now unoccupled rates toubl, can be bouglit at reasonable pied and improvire that this land be occuAll who decide to cast thelr lot among us wil be given a hearty welcome and a helping haud. The present populatiou consists mostly of Americaus, from the mildde and eastern of the with a sprinking of scandinnvian said as they nothing nisparaglug can be fustly and law-abiding people This countr is the region of artesian pater, hils rounty is the region of artesian water, which sau he reached
at a depth of from 1,100 to 1,600 feet. H. L. S. Ohobojo, South Dakinta.
A lady who will do triting for medter home will receire good wages. Address, with seif-add ressed stamped en relope, Niss Flora Y Jones, South Bend, Ind., proprietor of the Fa-
nous "Blush of Roses" for the Complexlon.

EGGS
 $\qquad$


Nin

Tranifeed drub Dr, Thompson's Eye-Water



## VETERINARY









Barren Cow. J. A. N., Martin Idaho.
Pertaps the best that can be done with such
cow is to talten her and to selld her to the


Lice on Horses.-F. K. S. You may use


Abortion.-J. R., Perin's Mills, ohio, writes:
"Lhtely, two or inhee of in coinslinvedroped


 abort. It is infectious.
Cough.-C. S., Curmel, N. Y. Coughing is
obsered in inealy every ruppiratory disorder,

 your horse. Thiere are many possibilities. It
inay ve a chronic catarri, it may belieaves. .t mary be an affection of ilhe layynx, or may bc
some other respiratory disorder.
Hinnches on the Shonlder.-E. A. Tyrrell bunches ou hiss shoulder abont he size in
hickory nuts, made by the collar. What will
 answer vor question. In they are fibroid
tumors, it will tequire a surgical operation to
remore them. Call on a velerlariau.
Indigestion nnd Grabs.-P. L., Forest
 ANSWER:-Your cow suffers from indiges-
tion A mid pllsic, twelve osixteen ounces
of sulphate of sid


Distortion of the Pastern Joint-Bone




A Cribber.-J. R.,. Redburn, III. Cribbing
slumpsuckiug and vindsuckiing are onty dif-
 iet a colt, yon may put the sume ill " "Ioose
box, that has mmoth walls, and contalns



## Wants to Wean a Mule Colt.-J. B., Altus,

Arkansals, avks: "How call I prevent a mulue
collt fron sucklig the mare wlion semarat-

 Ansury

















 vecomilled with, better not breed lep.
Vertigo.-J. E. A., Canton, Kan., wriles: "I


 ANSWER:-Your descrlptlon polints toward
attick of of vertio. There is no cure, and the

 Colic in Horses.-G. G. B., Salem, Ohio
Yourliorse, undoublenty, , had colic, a disease whilch frequenty requites no treat ment whit-
ever, and whilcti, on the othler hand, very ofien requlres the closest attenilin. Ind all cases
however, hle realnent will depend upon lle
coudition on Condition of the animili and as the latiter can
Le ascertaind only hy nn nctual examlan ion,
and
 Butelinn 2 of Serips II, of the ohlo Agriculu-
ural Experimeut Siation, is a treatise on colic




Discharges from the Nose. - W. J. W., ear-old mare that ents and drinks but littee She had a running at the nose. When sile
held lier head down it woud run almosi in a
stream for a siort speil., ANSWER:- There are many possiblitles.
Sucll a discliarge, and the debility you connplain of, may liave several canses, which, to descrive, woulise requre piralory dlsorders. At
complete treatise on resp
any rate, ascertain frst wheller the source of the disclarge is in the nasal cavithes, In the
troutal or maxillary sinuses, in otlier partsot The the respiratory passages, or in the lungs. The
best, therefore, you can do, 1s to bave ilie ant-
 have an early spring, will do her much good,
aud restore'lier to heaith.
Head Swelled.-S. C. D., Langley, Kan.



 the manger are sinnting enough, nnd nat toio boues, and doll'l monkey whit the woir eeth,



Fialse Quarters.-F. F. R., Strathclalr aluabie mare nine jears, old, wlit left frout
foot cracked or plit from he top to borton of





 must be properly drepsed but in that case it
wll be best to entrust the treatmeut to a
veterluarlau.
$\$ 2.50$ FOR $\$ 1$. Agee page 215 .
(Giti fiteside.

## buried, not dead.

We said good-hy to our buried past,
And wept and monrned hy the lonely grave For the heautiful life that could not last.
The treasire no tenderest prayer conld save The treasure no tenderest prayer conld
Then into the world we turued away,
And zorrow walked with ns day hy day, A faded flower and a torn, white glove
Letters, a lock of hair half curled, Poor, sad heqnests of onr dear, dead love Fet worth the wealth of the whole wide world A shell, a pebhle may tell aright

We made a grave and we said Ah, fuolish dreamers! We mored apart,
And thonglit, in onr folly, lore could die, While life throbned on in the brain and heart "Now all is orer," we sighing said,

Not 80 , helored! Ah, nerer sol
Whenerer your dear face comes in sigl Heart springs to heart with the old, warm glow And silence speaks with the old deligh
do empty grave in tire sunshine lies, But lore still lives in our meeting ere
$\qquad$

## A Bartered Birthright.

oy James franklin fitts

## CHAPTER XII

BETTEEN LOT
he therning of soung man had
istor in the train putting up at the hotel looking out upon the river, freed himself from the
dust of trarel. He glanced down upon
the busy scene below, where the steamhoa Was getting ready to leave for Toronto sts, and theu watched her as she trailed a black ribhon of smoke far down the river till he was lost around the poiut. Preseutly discorered to his surprise, that, notwithstandng the perturbed state of his mind, his bods e was rery hungry; he did not remember have eaten anthing since learing Scioga, and he now llberalls made amends for the neglect He had plents of leisure ou his hands; he orner of creation that be might think, and etermine on his future course undisturbed He knew the situation well, aud had though that here, some hundreds of miles from Scioga enight settle the questions that had per ion 1 mm there, and arrive at some couclu one for h 1 m . He was of a reflective nature then is couscientions; and thongh be had taken his hurried departure from an occupaored, in the full expectation that calamity he rillaiur of Mr. Newbold, he now looked action with hesitation and dis rust. Upon one hand was his love for Vi, father, his arersions to exposing him, on the other, was his duty to the bank, to sare it eader put himself in George Barnard's place and say without besitation What he would hing to which he was most strongly mored was more tormented than ever. He lay sleephapps he might be with Vi, if it were not for her father; when he fell asleep, the stern monltress, Duy, staked lie woke at daylight, half resolved to returu at once to Scioga aud couse Ir serbold to the director
But he delayed; he put it off till the morrow Not hoping to release his mind eren hriefly from the conflict that disturbed it, he thought hat he might di vert it by a row on the rlver boat, in which he pushed out upon the broad hat next morning.
He fioated down with idle oar for a tlme on the smooth, slow current, rolling along an grand rangt of heights above, whth the jagged preclpitous eliffis ou elliser side, where the ing to his oars, he nut the bow upstrean, in tending to row up hirn enough get a sight The usual crowd from the traln lad gone aboard the steamboat, and hils little craft
rocked buoyantly on her sweils as she went down the river with a long, foamy wake. He above it, till he had rearlied the curious little
whirl pools that agitate the quietiug flood, aud
he could see the long, wire cables of the old wrige, with fragroueu
He was fifty yards from the shore, and his eves happened at the moment to be fixed upon t. Down the steep, red-clay bank he saw an uncouth figure seramble, never stopping till his feet were wet at the water's edge. It was a man, hatless, his long duster torn to ribbons, his clothes covered mith dirt, his face and hands bleeding from sharp risitations of briers and thorns. A
under his arm.
His wild ejes swept the river, np and dorn. He saw the boat; he stretched out his hands. "For God's sake, come and take me in !" he rionted. Taln distress; 1 must get across hundred dollars.
The roice had a familiar sound to Barnardalbeit he had never heard it pitched in that key before. Yet he could not associate any remembered roice with thls scarecrow. The offer of reward did not stimulate him; here was a hnman being in need of assistance, in some severe extremity, as Barnard could see, though he did not nnderstand its course. No matter; he was one who responded quickly to strokes hrough sympathies. A fere; the man liurried aboard, and with a weak, "Row outquick!" he sank down exhausted iu the stern. The oarsman pulled with a long stroke out crossing. The stranger saw his full face, started, and averted his omn.

Hill
Barnard lay on his oars.
"Don't stop!" cried his passenger, almost frantic with fear. "Push across quick, and you shall have one hundred-fire hundred dollars.
Two men were at the top of the ligh bank, hoarse shouts.
"I say-hulloa! The man you've got in the hoat with rou is a runaway-a bank-thief!
That bag is full of stolen money and bonds! There's a reward of thousand dollars for him! Bring him back, and you'll get part of t ! We are officers; we order you to surrender
Wim."
betweeu sou two. And just think what Ican do in Canada! You can bring
you can be married as can all live together, or -
"silence-50u wretch!" Ba oars, and expended his furs in driving the boat through the water. "You almost make m take you back, in spite of myself. Stop you rascally noise, or I shall do it, set."
Mr. Newbold corvered domu and held his
peace. The boat steadily approable peace. The boat steadily approached the Canadian shore. Witbiu a few rods of it th oars stopped again. Barnard glared at him. "Giy

## mand.

A cry like the screech of a wild beast answered. The man who had bartered every-
thing for the contents of that bag now hugged it to his breast in his fright and misery.
"You can't take it back ; you don't dare to $g$ hack yourself!" he cried. "I laid it all on you, sou're as guilty as I am. No, no; stick to me George ; tre'll send for Vi.
"You infamous scoundrel!" Baruard birs forth, losing all control of himself. "Vile as knew you to be, I couldn't have beliered thi me that bag-or back you go to those officers, as straight as I can carry yon
despairing groan rose from the miserable man's breast. The satchel was flung over to the rower.
few more strokes drove the hoat upon the narrow beach. Nerrbold got up and dragged himself to the bor. With one font on the Barnard, and seemed ahont to speak.

## ashore."

Out iu the stream again, pulling across, Bar nard took his last look at Carson Newbold He was sitting by the water, his head bowed on his arms, heaten, shorn of the fruits of his crimes, outcast and alone. The romng man
shuddered at the picture. "It is the way of the transgressor," he thought
The officers had come down to the wharf and though hopeless now of capturing the a sconding thief, ther lingered about, waiting to learn somethiug of the man who had enabled him to escape. They presently found at the
boat-house that this man had come to the

> George's Yindication in His Cell
neu on the bank repeated this informatiou and command to him at the oars. The latter looked closely at the fugitive; his face was hidden, so that Baruard could rot recognize "Is it yout Mr. Newbold?"
"Yes!" came in a smothered groan from the stern. "Take me across-row-row!" The boat drifted down; the rolces of the men houting on the bank grew falnt. Poor Lar ard! He had fied almost a thousand mites had lately put it off for twenty-four hours; he had secluded himself in the middle of the Nlagara to get amay from it; and here it was, thrust right upon
The struggle was brief-but fierce whlle lasted. He heard the roice of the fleeing thilef In tones of abject terror and entreaty; but What he said did not affect Barnard at all. IIc
was fighting with hlmself, trylng to reach a was fighting
stern resolve.
"Gcorge-Mr. Barnard-I beseech you, don't ake me back ! I're suffered eversthing to get me aeross! If you've got any hard feelings on me aeross! If you've got any hard feelings on
account of my shabbr treatment of you, pray forget them. Remember V1, my boy ; y "siop!" thundered Barnard. "I ought take rou back ; I believe I will.
"lou don't, sou cau't mean it! Vi would
never forglve you; it would end everythiug
"A neatly put-up job," Tas the shrewd comment. "It's the young fellow that the tel came here ahead to help. 'Tras a cute scheme, and it has suceeedcd.
"Well, do you see what's coming?" the othe asked. "There's that very boat comiug back,
with the young fellow in it" "So it is! Here's claeek for you! What does mean?"保 the to a ring. Oue or the officers seized it
"You are our prisoner," he said.
"Of course I am. You necdn't get out any
irons; I'll go along whth you. Here's the toleu honds and mong wis
He handed up the bag, aud climbed out himelf. The officers looked at him with sileut mazemeut.
"Why didn't you hring the other man back, long with the plunder?" ouc of them asked, "I had an reasons. ond timc. Just walt with uic come out ha the hoat, and at the hotel, and then I'll go
"W"cll, you arc a cool onel Come along. Well have to walk up to the top of the we chased your pal down to the water; we'll take you to La Salle, aud then to Buffalo. cquisition on the sovernor of this state, if
"Not an hour! I want to get to Scioga as
fast as steam can carry me." He mounted the long stevs with them.

## Chapter XIII.

IINDICATED


Nembold, had succeeded in escaping to Canada, his confederate, young George Barnard, the ate assistant book-keeper, had been captured, aud was in the city jail.
The bank had opened its doors again for husiness on the third das, when the whole ex Barkley promptly assumiug discorered, Mr rauce of any action of the directors. With confidence fully restored, the panic stopped, and the instilutiou weat on its prosperous way again.
The bulk of the pilfered treasure being returned, public curiosity was excited by the report of some extraordinary circumstances at tending its capture. The reports were very conlicting; and even after the directors had apportioned the reward among those entitled examination of Barnard was continued from time to time until he had in confinemen a month. The prison officials said that bore himself clieerfulls, but with reserve: or three of his fricnds risited him, and urged him to employ counsel, and have an hmediate hearing iusisted on. He greeted them pleasantly but gravely, telling them that When the Whole truth came out, as it soon would, he thought thes would be pretts well
satisfied with him. But he refused to take satisfied with him.
It must be added that Tioleta ras not left in ignorance of his position. As soon as he was permitted the use of stationers, he wrote her a very long letter, the reading of which
torought the sunshine back to her face again. brought the sunshine back to her face again.
She not only replied the same day, lu! She not only replied the same day, hos.
she was alone prevented by her lover's pos. itire comman
The press is
and wheu about porter in Scioga, as elserriere er*s friends caused to be inserted iu the dail papers an inquiry as to whs Mr. Barnard whose character had alwass been irreproachable, was keptiu jail at the convenience of a a decided stir was caused by The item was the talls of the town.
Hhy, what's this?" Mr. Burkley asked, a
he read it. "No proof whatever against him That can't he so. Still, I used to think he wa a fine, soung feller; hope he wasn't so badl mixed up with that rascally Newbold tleal this Mr Hill I har, do Jou must ask about this. Irr. Hin-1 sar, do Jou knor ansthing is coming on? "

Sot much, sir. I heard the prosecntiug a torney sas here nue day that there was litt proof agaiust him.
"Trell, that's queer. This part of the busisince we got most of the plunder back. I gue I'll look after it a little. These nerrspaper make talk."
When Norman Barkley became Intereste ansthing, it was his euergetie was to ex haust the subject at once. Within ten min utes lie walked into the public prosecutor's o
fice aud propouuded the same question that fice aud propounded the same question
he had asked at the bank. The lawser quite ready to auswer
"It gets along very slowly, str," was the re ply. "In fact, it doesn't more at all. I have about it. That piece in the paper to-das lias got some truth in it, and may compel us to do something-or quit."
"Do you meau to sar that we're been keepght that chap in jail all this time without an case agatnst lim?
cough to conrict him ; Butwe haven't g hold him for the graud jury.
"IIow is it?
The lawser put on a deep, professional look ad began to colut off propositlons on his exchded fingers.
"I've investigated the case pretty thor-
oughly, and cau tell you what there is of it. First, the roung man is in rour bauk for months, with an excellent character. That i good. Then the cashier getshis discharged.
Sotso good. Then lie compcls the cashler to lave him restored. That would be unaccou. able, except that by putting this and that to had discovered that the casbier was gambling and he held the fear of exposire over him. Budd, who wlll certainly get to state's prison "Thself, if he lives long euough. you choose to demaud lt." "That's so. Well?"
 "Wust so." book-keeper come from?"
"From Newbold. He bin "Was that a likely thing for hime to do, if they were confederates?"
"Ah!-there's a mystery right there that I Newbold across to Canada when the officers were at his heels. That looks bad.
"Bat instead of staying there, he not only he briugs the plunder, as you eal ${ }^{1}$ it, along with him, and gives that up, too. Now, what "Did be re'ly do that?" Mr. Barkley asked. "It didn't get to me in that shape."
"That was just the war it liap out there fast week, and had the whole story from the officers
"Why, it beats the Jews!" exelaimed the president, getting excited. "What do you
think of it?"
"Simply, that there's something behind all "Simply, that there's som. Without it, we are
this that hasn't eome
all at sea as to thls young man's motives, and with little show against him. If he's to be
prosecuter for aiding Newbold to eseave, we'll done. We've no case here."
"Will you go with me and see him? ?" They went to the jail. A Iong interview
with the prisoner followed. He deelined to to conceal. He told his story, fully and unre-

servedly. The prosecutor was enlightened and looked quite gratifed, while Mr. Barkley
appeared lifilly lnterested.
"You've supplied the missing llnk, Mr. Barnard," the lawser said. "Wc can now per-
feetly understand the whole affair. Mr. Darkley, I think the bottom has dropped out of our.

## "es, I ain't sorry, neither."

oung gentleman before the waglstrate im mediately, and consent to his discharge. "By all means. But I'd like to kinov of you, whole mouth, waiting for us to find ou
about this? Why didn't youl let me linow? "IIr. Darkles," said Earnard, with emotion, gettlng a good start, I was eruelly wronged by
that villain-I have told you why. I have also that villain-I hare told yoll why. I liave als guilt. my duty required me to diselose it $t$ yout atonce. I hesitated; I was weak when I I did so ; perhaps aither of joun would have done the same in my place; I say again that I sending ber father to the penitentiary. I am to you; and still-still, I hare felt as thongh I deserved some punishment. I do want to see fered enollgh " in mind and body already for her father-
There was a trifle of huskiness in the kind,而 this roice as he grasped George's hand. minutes more! If that ronng woman underbe's got the real thing this time. You're a good ehap, Mr. Barnard; I'll have more to say

## Chapter XIV

## better things.

Of enurse, public interest in the Security bank affair was revived upon George Barcame quickly known. There was such a roGeorge might hare been, by the column, and What pleased him best was the publisiled ertifieate of the president and direetors of the
 united in thanking him, and reeommending him to publie confidence.
Ile spent the tirst day of his freedom with
Barkley, and was warmly reeeived in the
"We were rather basty in dividing that reward money," said the president. "But the fing was badly mixed. The reward was ofand the plunder capture of Newbold, taken at all; you were; but you brought in the
whole prize, and should have shared in the reward. Then again, you were an aecused party yourseli-"
"is just as well that the reward is disposed
going in to the bank again-"
"That's impossible, after what has happened.
is the last thing I should wish
suspicion, norstand, I see. No reproach, no suspicion, nothing to be sory for-but the
story continually eoming up, and explanations always to be made to strangers who happen to can do better elsewhere. I've got important inferests in Kansas City that sadly need enerble; two thousand a year to you to take hold there for me, with your chance of growing up
They agreed upon the spot. The following week Mr. Barnard and his bride started for Violetta wrote to her mother on the occasion. She received a polite bnt distant reply, expressive of the latter's satisfaction and settled. A present of cardease, whieh never cost less than a dollar and a
half, came by mail, with some un paid postage. We have been taught that there is nothing on carth higher than the name of woman, nothing boller than that of mother. Yet there
are such women and mothers as Mrs. Frances Newbold (she has now adopted her maiden appeared last season at several eastern watering places as a faseinating and dashing wido
and is said to have turned the heads of sever elderly millionaires who had supposed the We are likely to hear more of her in this role, so well suited to her ahilities.
And the Canadian exile? Cnlike the Montreal colony of Ameriean
refugces, fattening in dull and disreputable idleness on ill-gotten spoil, Carson Newbold ing in vain for squandered honor, for lis for feited birthright. Mis career is finished; he is he merciful when it elaims that. Still, even suffering. I have heard that in one of his darkest fits of despair he wrote a pathetie
letter to his wife, begging her to join him and comfort him, since he could not come to her. She replied only with a marked copy of the Indianapolis paper containing the notice of the grantiug of her decree of divoree.
George Darnard, living very happily with lis wife at Kansas City, knows of her fre-
quently receiving letters with Canadiau postharlss; he supposes that slie answers them; letta sometimes sends money to her father Buthe never mentions the subject; she, after
learniug all that the released prisouer at Scioga liad to tell her, conseuts that tho name between them. There is a gulf between them
and lim.
We may prediet their continued happiness, notwithstanding the shadows of both past and present. So may it be!


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## THE LITTLE WHITE HEARSE.

S lebody's babs was buried to-day The empty, white hears
grive rumbled back.
tie morning, someliow, seemed less smilling and gas,
As 1 pansed
its may,
nd a sladad
guldent track.
Somebory's baby was laldont to rest,
White as a snowdrop and falr to behold, All the sof little bauds were crossed over the lireast.
And the handsand the lips and the eyelids were pressed
With kisses as hot as the eyellds were cold.
Somebody saw it go out of her sight
Onder the coffinlid, out of the door Onder the enffil-lid, out of the door,
Somebody finds only darkness and blight All tbro the ginry of summer snnlightSome one whose baby will waken no more
Soinebody's sorrow is making me reep. 1 know not ber name, hut I echo her cry
For the dearly-bought baby she longed so keep,
The babe th

In the litue white hearse that weut rumbli by:
Iknow not her name, but hersorrow I knowWhille l paused
nnce more-
And bick in lieart surged that river of woe For the little white hearse bas been, too, at Ella Wheeler.
-Ella Wheeler. Trilcox. in Demorest's Magazine.

## CROCHETED EDGINGS.

## o. 1.

Make a ch of 10 , fisten, turn and c 12 dc into the loop. Turn again and put a st between earh of the above st with a ch of 1 between each st, turn again and finish with an elge made 3 loops, fasten, until
there ares loops; into the last loop make a sh just like the first one.

## No. 2.

This is worked from the middle. Make ch of 10 , into which c 20 sc , fasten. Second row-Ch 4 to hring up a long st, put 3 d c into each of the former row, ch 3 , putil cou hare 6 of these groups, then make 9 d c without the ch .
Thirll row-Into the ch between the st put a d sh, 3 st. ch 2,3 more into the same place, make 7 of these, then 12 d c into the 9 former ones.
Fourth row- 7 d sh into the middles of the former sh, and 14 dc on the 12 .
Fifth row-Sh of 12 st into the middles with a sest; 7 of these, then 16 d c
Sixth row-Ch 6 and fasten to the middle of the sh, ch 10 or 12 and fasten in the next sh until you come around to the plain part, then 1 S d c st.
Serenth row-Fill all the ch with as cst, ben 20 dl c.
Eighth row-Ch 4, make 3 d c into the sixth, serenth and eighth st below, right
at the middle of the sh in the former row

ch 7.3 more st in between the sh, make 13 of these, then 22 d
Finish as in cut, as it is very plain to all ho use the crocliet-needle.
Abbreviations-c, crochet; s c, single crochet; d c, double crochet; sh, shell d sh, double shell; st, stitch; ch, chain.

## HOME TOPICS.

Breatfast Rolls.-Alice makes such delicious rolls for breakfast that I must tell you how she does it. Add an even teaspoonful of salt to a quart of flour and sift it. Rublhalf a cup of butter into the pressed ycast in a little warn water and stir it into the flour, then add enourli varin milk to make a dough just stiff enough to handle, take it on the board
the pan, cover it lightly and leave to rise over night. In the morning, as soon as the fire is started, flour on the bard, itg-pin, take the tho and with small biscuit-cutter (a quarter-pound small biscuit-cutter (a quarter-pound put thein on a large pan, not touching each other, and puta tiny bit of butter on the top of each. Let them rise until very light and bake quickly in a hot oren.
"Beacon biscuits," which are so popular now, are made in the same way, except a small piece of the dough is taken on the foured board at a time, and rolled with biscuit-cutter or in squares and two biscuit-cutter or in squares and two of
them laid together with tiny pieces of butter between. Bake these in a brisk oven until a nice brorn. They will be crisp and tender, and the only fault that I have heard found is that there is not enough of them.
Rice Croquettes.-One quart of boiled

rice, a teaspoonfnl of sugar and three eggs. Put some fine cracker or bread a spoouful of the rice on the board and a spoouful of the rice on the board and
make it into a roll. When all are made, make it into a roll. When all are made,
fry them a delicate brown and serve hot

## for breakfast.

Table-linen.-No one thing adds more to the appetizing appearance of the table than clean, white table-linen. I know some adrocate the use of red table-cloths on the score of saving washing; in fact, I have seen one red table-cloth used, in a family of six people, for two weeks without washing. I think it was turned orer at the end of the first week, and the table was only cleared off when the cloth was changed. One can imaginc how clean the cloth was at the end of two weeks. Of one would, but it was just as soiled.

One white cloth may be used a week if carving-cloths are used and children. A piece of white oilcloth, pinked around the edre, does not look badly under a child's plate, or even under the meat-platter, and will sare many spots from the table-cloth.
I am old-fashioned enough to prefer my table-linen hemmed by hand. Of course, for every-day use, machine hemning is excusable, if it is necessary to save time, but let the fine linen for feast days be all hand made. Napkins are convenient for
little girls to practice hemmiug on. Let little girls to practice hemmiug on. Let day use first, and afterwards they will take pride in setting eren stitches in mamma's finest table-linen.
I remember well when I first learned to sew. A dear, patient, maiden aunt basted
all the seams and taught nic to sew "orer all the seains and taught nic to sew "orer
and orer." When I could do that nicely, then I was taught to hem in the usual way, and later, to make a hem by turning the folded liem backward so that the folded edge and the part of the cloth the hem just meets are like the two edges of an "over and over" seam, and then sewing
orer and over, taking care not to take up
enough of the cloth to allow the stitches to show on the right side. I alwars hem my table-cloths and napkins in this way now. It is an easy way of making a very neat hem.
It really seems, sometimes, as if neat hand sewing would soon become a lost art. In some cities a step has been taken in the right direction by making sewing one of the branches of instruction in the grades of the public school from the third to the sixth iuclusive. Although only one hour of each week is given to this work, yet the pupils ars required to do some pieces of work at home, and in the four years they become quite proficient sewers and learn to meud aud darn neatly.
Although our country schools are already crowded with a multiplicitr of studies, yet one hour a weck could be vell spent in learning to sew. As a rule,
mothers in the country hare little timc to teach the little girls to handle the
needle, and the machine does the mork so much quicker that there is often a temptation to make a new garment instead of mending one only a little worn; but girls ought not to be deprived of the accomplishmeut of beiug able to meud and darn
neatly. Maida McL.

## excellent bread in ten hours from

 Starting point, with veast cakes.Perhaps some of the sisters of the Fary and Fireside Household band may be interested in a description of my method of manufacture of this household staple by which I am able to secure a first-rate product in ten hours' time from the time I first put my yeast cake to soak.
Not that I suppose none of them have been able to accomplish the same,perhaps, some of them even in less time than this, as in fact I bave frequently made a good article in even eight hours' tiuse, when, for any reason, I wished especially to hurry it up by giving a little extra warmth and instead of stirring down the sponge after it had risen once, kneading out into loaves as soon as sponge is first light.
But with proper care and attention, in ten loours' time I find I can hare uniformly satisfactory results and with never a failure, given good, sweet flour and good yeast. I commonly use the National Yeast, but have sometimes used Magic ycast as well as other sorts, and any goorl yeast will answer as well. Haring frequently heard housekeepers complain that in cold weather they were bothered to get their bread light and ready to bako before clark, when the sponge was started the night before, I conclude that some at lcast lave not learned the art of rapid bread making, and for the benefit of such
am prompted to outline my method, and, perhaps, can as readily do so by giving an exact description of to-day's operations in that line as in any other way.
To begin with, then, I took about three fourths of a cake of National yeast at eight o'clock this morning, broke it into a pint bowl aud poured upon it lukewarm water, water. Le this stand or quite half full o water. Let this stand until it softened,
say, perhaps ten minutes, then stirred in flour enougli to thicken a little thicker
than pancake batter. Set this bowl into a wo-quart basin and filled up around it nost as warm as I could lold my hand in, being careful not to inake it of a scalding beat, and set on the table near the kitclien stove. At ten oclock this yeast was quite ight and nearly filled the bowl; I then calded about three pints of flour, in which I had put, perhaps, two teaspoons of salt, or alt according to taste, with boiling water rom the tea-kettle, emongh to moisten the four. Added to this a pintind a halfof cold water, stirred in sufficient flour for sponge, and then it being cooled enough not to scald it, added the yeast already prepared. Set this sponge oll a warm stone near the stove, and at one o'clock it was, as my mother used to say, "light as a cork." Now, had I wislied to hury the process all I could, and have light, swcet bread, I should have kneaded this sponge out into loaves at once aud so gained the time of stirred dow, but not carimg to do adding a little flour, and set to rise the second time before kneading. By this means we secure bread, when completed, in which the air spaces are more fine and evenly distributed through the lowes, and I think kecps moist somewhat better.
At about three il was again light, not having been made quite as warm as when first set in sponge, and I lineaded it into oaves, of which the abore annount made three good-sized loares, or would make four smaller ones, and at fireo'clock it was ready for the oven, where I baked it with moderate heat for an hour, thongh, of course, I amaware tliat many would bake it in much less time and even, no doult, scoff at the idea of kecping bread in an oren a whole hour, but as mother used to say, "I am too slack myself to like slackbaked bread," and I prefer it baked longer with a moderate heat rather than twenty or thirty minutes wilh the oren botter. Of course, however, this is somewhat a matter of taste, and then there is a grea difference in length of time required to bake in different ovens; but at any rate my bread by this method is good enough that $I$ an not ashamed to set it before any of my friends.

## THE KITCHEN GARDEN

In 1852 that reuowned statesman, Daniel Webster, wrote: "C'ultivate Jour garden. Be sure that you provide sufficient quanti ties of useful vegetables. A man may half support bis family from a good gar den." Webster linew this from personal experience. He lad passed his youthful days oll a faru. His father was one of the intelligeut, thinking farmers of NeN England.
One rould naturally suppose that on the farm, if nowhere else, the garden would be well cultivated, aud at least the mor common rarieties of regetables would bo found in abundance. There is just where one finds himself often mistaken. Ther are hosts of farmers who cultivate thei field crops well-thoroughly, as the world goes-who do not give an hour's work to the garden. They may plant a fow pota toes, aud possibly set out a few cabbago plants, but that is as far as they go. I the wife can leare her already too numer ous cares long enough to "scratch" a plo of ground for the sowing of a few lettuce and radish secds, very well; but if she can't get out to do it, there will be no seeds sown in that garden. The idea The shame of it! The garden work de pending on the wife's frail arms! (No this is not fiction. It is clear reality, and can le attested to by many.)
Certainly, any reasonable man under stands that regetables contain materia for building up and otherwise benefiting the human system. Many of them pos scss medicinal qualities of creat value All are calculated to promote good health Indeed, the free use of fresh vegetables, as well as fruit, cheat the doctors out o many fees. Then, knowing this, why does not crery farmer see to it that his farm has a garden that will supply his family with plenty of fresh regetables? Well, basing niy opinion on observation and expressed sentiment, most inen "despise to work in the garden;" and then it appears to them that the time spent there is just so much time needed in the field The field, you know, shows otf to better
adrantage. It must be that; for there are but few men whodo not enjoy vegetables.
Then why deprive themselves and famllles of the pleasure that a day's work will obtain? The garden need not all be made the same day; the work may be carried on at different times, a few hours at a time. After the oats are sorn is a good time to see to the garden. But it is not too early to do your planning now. Vegetable seeds are to be had very cheap in collections. The seeds are sent out by reliablo firms in family with vegetables all summer and family
winter.
So many farmers there are who never think of growing celery. They look !!pon it as one of the luxuries to be obtained only at the market-placo. How they err. Celery is as easily grown as potatoes. Tho work is not nearly so hard in reality as writers on the subject would have us be-
lieve. With the abandonment of the old trenching system, the most of the labor attending celery culture has disappeared One thing should be remembered; that is, never to handle celery plants wbile they are wet. Vegetable oysters, too, is so delicious, and of such easy culture tbat it should be
niore generally cultivated. If you, reader are one who thinks his time too precious are one who thinks his time too precious
to be put in oll the garden, do, just for once, set aside your ideas, and resolve, for the good of your growing girls and boys, to lave a garden this vear. You will need but one trial to conviuce you that a good kltehen garden is onte of the best paying in vestme
time lost.
elza Renan.

## HARMONY OF FLLOWERS.

A floriculturist has said that he
knows of very few flowers that make up prettily with sweet peas in a bouquet for bowl or rase. I think I have found one that forms with it a perfect combination of grace and heauty. It is the nasturtium. I can imagine notbing more lovely for a white bouquet than the nasturtium pearl,
placed lonsely in a bowl or large, mounted placed lonsely in a bowl or large, mounted
vase, every possible chink of space filled in with somewhat longer stems of sweet peas. Eckford's Queen of England is a grand white variety. If one must have a bit of color, I should choose Apple Blossom, also a variety of the Eckford pea; but for
me, my table is perfect without this last addition.
I wonder if my friends love the white blossoms as I love them, and study with me the varied changes of tint and shade found among the so-called colorless fiowers. It may seem strange, but if you would group together a large bouquet,
confining yourself as to selection only among the whites, it will prove a surprise to you what a task you have taken upon your hands. Harmony will not prove an easy thing, and the blossoms will quarrel at the slightest intimation of proximity and you will lay down stem after stem to lighten the crimsons that are mo
affectioned one toward auother.
At my time of writing I have placed in my warmest window a pot of carth con-
talnlng five seeds. In the center is a lemon balsam, at one side a dwarf nasturtlum pearl, on the other side two seeds of mignonette machet-two, becausc they are so small sometimes they perish under atmospherio changes. Will they grow? I have faith to believe they will, because
they have done so and been beautiful to ey have done so and been beautiful to
k npon. If they crowd, I carefully the unruly member and placo it hy itself. Generally, it is machet that disturbs by thrusting out her branches in such a dense and buslh-llke manner as to encroach upon the rights of the rest of
the family, and this is wrong. If no remed
suffer.
Do you desire to cheer a sick or invalid friend with a floral cross? I will tell you how I fashioned one, not long ago, to lay upon the casket that contained the earthly who all her life had loved and cared for
wher flowers. I laid my paper model of a cross upon heavy pasteboard, and carefully traced the form with a pencil; remoring
the pattern, I carefully cut the penciled llne. As green leaves are not plentiful in
tected bed of myrtle that is at all times just enough water to cover it nicely; then $^{\prime}$ and seasons ready and willing to aid the willing worker. Froul this bed I cut nice sprays of myrtle und covered the bare cross neatly with them, the underside not so particularly nice as the upper or outer. If this is done as it should be, the decorative part is an easy matter. I took a large, half-opened cluster of tho single, white geranium and nestled it anid the leaves of the myrtle whero the sections of the cross touch; the unopened buds produced a fine eflect, thongh there should be some blossoms in the cluster that are fully developed. Nicotiana affinis bears large tubular flowers: theso I fastened loosely and they hung like silver bells and trumpets from the bead and arms of the cross.

Joserhine McCarter.

## A CUFF WITHIN A CUFF.

Fashion has ordained that linen cuffs are once more to be worn. At tho same time, fortunately, an improvement has heen introduced which should effectually dispose of tho complaint that cuffs cannot be kept in their proper place. Thesc ncw cuffs are of the usual appearance externally, but they contain an inner band, which can be buttoned tightly around the wúrist, aud in this manner all danger of slipping up the arm or ver the hand is completely obviated The idea is simple, neat and sensible.

## mabel's home-coming.

Mrs. Hosmer and her Aunt Kizzie sat a the breakfast-table talking, as only two women can who haven't seen each other for at least six months, after having lived together for years, and, as Mabel always laughingly declared, would always be her home. But young Doctor Hosnier coming into the neighborhood changed all her plans.
Sweet Mabel Wynn was left an orplan when but a few weeks old, but Aunt Kizzie Wynn took her to her home and notberly heart, and the little babe neve missed a mother's care and lore.
This was Mabel's first visit home since er marriage and removal to a distant city. After chatting away, telling and hearing news of old and new friends, Nabel said:
"Now, auntie, while I ain here I want to be just your own little girl, like I used to. We will divide our work and visit as we go along; now, what will I do first? There are a great many things I want to know by actual practice while I havo a chance." "Well, well, if you want to help, you can put on one of my large, hitchen aprons, and while I wash up these dishes you can clean and fix the chicken ready for stewing."
Mabel sauntered around the diningroom, picking off a dead leaf from the geranium in the window, dusting a stray bit of dust from a chair, and trying to fill in her time waiting to commence her task Aunt Kizzie looked up from shining a goblet and said:
"What are you waiting for, Mabel?"
"Why, for your dish-pan to cut up the chicken in. I always use that.'
"Well, if that is the trouble, you needn't wait. Just go to the drawer in the cupboard and get that piece of brown wrapping paper that came around the last steak I bought. By the wav, I save every bit of clean wrapping paper I get around parcels. You can use the corner of the table bere to work on. Now lay the paper down with the fowl on it; divide the chicken, and when through, gather up the paper by the four corners and carry it away, and you have all the muss cleaned up, "
"Oh, auntie, how glad I am! How easy that is! I'll profit by it. That is one of the littlo things I didn't like to do very well."

Another thing I want to tell you, Mabel, and that is the way to cook sweet corn. Our old way was to put the corn on to cook about ten o'clock, and boil and boil till it was as hard as grapeshot. Now, I've found out such an easy, quick way.
about fifteen minutes before the dinner is ready, bring it to a boil, and season it witl butter, sugar, sweet cream and salt, witb a dash of pepper. Dish up and serve, and you have something really palatalle. I know your husband will like it."
"Oh, wait, auntie, till I get out my blank book; I want to jot down all thoso things for future use."
"Dear heart! How glad I'll be if I can help iny baly over some of the liard places. While you are with mc, ask all the questions you have a mind to, and I will try and answer as far as I can."
When the chicken was stewing Mabel came in, her cheeks all aglow, her apron filled with all kinds of wild flowers. She had been to the wood-lot, a favorito nook in her girlhood days, and came liome aden with spring beauties. While arranging them to beautify the table sbe "،

Aunt Kizzie, I want one of your very own best pot-pies for dinner."
With a pleased laugh auntie said:
"I knew what my little girl liked, and have one already for the table."
"Now for my blank book again. Tell me the formula and I'll write it down." "Better wait until you have tasted it. You know 'the proof of the pudding is in the eating,' so bring your chair and the book, and you.can eat and write afterward."
After it had beon eaten and duly praised auntie said:
"Now for the recipe: I take a shallow pan, fill with flour, mako a dint in the center with a spoon or the closed fist now take a teacup of butter or meat drippings, a teacup of water or sweet milk, a teasponnful of baking-powder, a little salt; mix, roll thin as pie-crust and bake done. Have it just ready to come out of the oven when you dish up the chicken, which, of course, you have seasoned and made a gravy around, with egg, water and flour. Break up your baked crust, and pour the chicken and gravy overit. Now you lave something good, and as Josiah Allen's wife said, 'it wouldn't hurt an infant babe." "
"Well, now, that is down, and I want to know how you made the comfortable I slept under last night. It seemed so light that when I first jumped into bed I thought I'd have to call for more covering, but in a few minutes I was plenty warm onongh, and not burdened with weight, either."
"I'll be glad to tell you, for it is something I learned since you left me. Really, I can't see why I didn't think of it long ago," and auntie drew a long sigh, thinking of the many stitches on crazy patch work and log cabins for comfortables that had been taken by her busy fingers. "For a large comfortable, take fourteen yards of cheese-cloth, a few sheets of bright tissue paper, tbree pounds of wadding or batting, and some yarn of pleasing colors. Now take half the eheesecloth, lay it on the floor, put a layer of tissue paper, then the batting, then another layer of tissue paper, and last the top layer of cheese-cloth. Now pin the edges all around to keep it straight, and knot it with the bright yarn. Either bind it with bright goods, or simply turn it in around the edge and ran it up on the macbine. When soiled, it can be taken apart and washed, and will be as good as new

## again." The w

The week was taken $u p$ in exchanging notes. Mabel had learned some things in her new home that helped Aunt Kizzie, and these busy women worked and visited, and were honestly happy and contented. When the young doctor came for Mabel, she gleefully showed him her blank book well filled, and he laughingly said, as they rode away:
"Auntie, I feel the responsibility of carrying off so much wisdom. I only hope I'll live to cnjoy it all.

> Matilda Copp.

## cough balsam.

Putinto a pint of whiskey three ounces of white pine tree gum; when it has dissolved, mls it with strained honey, using equal parts of each.
It is one of the best things for a cougli, and should always be kept on hand.

Mutton is very whulesome and rery conveuient to the farmer, ats whole one can be consumed in an ordinary-sized fannily beforo spoiling, yet many people have a prejudice ngainst it, which is greatly owing to the way it is served. Like all other articles of food, it can be cooked in a variety of ways.
To be good, mutton should be fat, and the fat clear and hard. The lean of the meat slould be a dark red. The bindquarter is best for roasting. The ribs may bo used for chops, and are very delicate. The leg should be boiled, and served with sauce. Cutlets may bo taken from the neck
Broiled Mutton Chops.-Cut the steaks, scason with pepperand salt. Broil on hot coals, baste with butter and sprinkle with grated bread crumbs. Serve with stewed onions.
Mutton Chops Lardrd.-Beat chops flat and lard thenı with salt pork. Put in a sauce-pan, sprinkle with minced onions, pepper and salt. Cover with soup stock and let simmer one hour; thicken the grary with browned flour, add the juice of a lemon, one spoonful of mushroom catsup and a wine-glass of enrrant jelly:
Lay the chops in a dish and pour tho gravy over.
Mutton Cutlets.-Trim and season, dip first in beaten egg and then in cracker dust; put two ounces of butter and a little water with the cutlcts in a drippingpan, set in the oven, laste and bake brown. Serve with walnut catsup.
Mutton Stew.-Take three pounds of lean mutton, slice and lay in a decp bak-ing-pan, put in óne"teaspoonful of celery seed, one each of cinnamon, clover, mace and salt, with a pinch of cayenne pepper; mix with a teacup of vinegar, a tablespoon ful of French mustard and the juice of a lemon, pour over the meat, sprinkle the top with brown sugar. Set in the ven and bake brown.
To Grill a breast of Mutton.-Score the top, wash over with beaten egg, sprinkle with salt and pepper, cover with grated bread crumbs and set in the stove: baste with butter. Pour caper sauce over, and serve with currant jelly.
Boiled Lea of Mutton.-Make a paste of flour and put over the joint, tie up in a well-floured cloth and put in boiling water; allow twenty minutes to the pound. Remove the paste and serve with caper sauce or plain, drawn butter.
Leg of Mutton a la Venison.-Lay in a deep pall, and rub with the following mixture: One tablespoonful of salt, one each of celery, brown sugar, black pepper, mustard, allspice, clores, mace, sweet herbs, inixed and pounded; after rubbing in well, pour over the meat a cup of vinegar; cover and sit in a cool place for three days. When ready to cook, pour a quart of boiling water in a deep kettle; in the bottom put an inverted pan, on it lay the leg of mutton, and steam four hours. Add a teacup of boiling water to the pickle aud baste tbe meat with it; thicken the grayy. Serve with currant jelly

Eliza R. Parker.
an aggravating Sore throat is soon rehieved by Dr. D. Jayne's Espectorant, an oldAffections.
The following is a fair sample of many letters received by the publishers of tbis paper, testifying to the excellency of our Housekeeper's New Cook Book:

Kipton, Olio, Feb. 18, 1890.
I received my new Cook Book and am
more than pleased with it. It is just what I have been looking for for years, and never been able to find. It fills every vacancy. Please accept iny heartiest thanks.

Mis. R. W. Allen.
This is the most popular Cook Book ever publishcd, over 300,000 copies haviny been sold, and still the cry is for more. The
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P. 11. Chambers



## FINISH THY WORK

(8)
The wan is in the west,
The night is coming on; til Think not of rest.
Yes, finish all thy work,
The rest prenared for thee by God Is rest forever
Finish thy work, then wipe thy
Ungird thee from thy toil; ake breath, and from each weary !imb
Slake off the soil. Slake off the soil. Life's battle fourht and peace, Life's battle fought and
so to thee thy Master's And so to thee thy Master's voice
Siall say, "Well done!"


SAVED bY GRACE. POOR, unlcttered old accosted by a sheptic in tho following way: "Well, Betty, so you are onc of the
saints, are you? Pray, what sort o
folks are they, and what do you know about religion, el? ?" plied the favored old so can't say much for the meaning of it I only know I ami 'saved by grace,' and I expect to go to heaven by and by
"Oh, that's all, is it? But surely you can tell us something nearer than that "What it feels to me"" said the taught one, "just as if the Lord stood up in my shoes, and I stood in his'n!"
Happy old woman! Glorious grace

## A WORD TO YOUNG MEN.

Young incil make a sad mistake when they think it neccssary that they should
have a personal acquaintance with the dark and seamy side of life. Many a man who has peered into the abyss "just to sce what it was like," has lost his balance and fallen almost hopelessly.
vas talking to a pilot on one of our big teamers. "How loug," he asked, "have you been a pilot on these waters?" The
old inan replied, "Twenty-five years; and I came up and down many times before I was pilot." "Then," said the young man, rock and sand-bank on the river." The old man smiled at the youth's simplicity, and replied, "Oh, no, I don't; but I know where the dcep water is." That is what
we want-to know the safe path and kcep to it.

## ENDORSING.

The system of endorsing is all wrong, and should be utterly abolished. It has been the financial ruin of more men than a journal devoted to merchants, clerlis and business men, advises our young men especially to study the matter carefully in all its bearings, and adopt some settled policy to govern their conduct, so as to hem to sign his note. What responsibility does one assume when he endorses note? Simply this: He is held for the payment of the amount in full, principal and interest, if the maker of the note, through misfortune, misinanagement, or rascality, fails to pay it. Notice, the enwith no woice in the management of the business and no share in the profits of the transaction, if it proves profitable: but reasons stated, the principal fails to pay the note.

Tmie Merit Appreciated. - Brown's Bronchial Troches are world-renowned a aimple $s$ et effective remedy for Coughs and Pery, Castle Grey, Limerick, Ireland, they are Bros referred to: "Having brought you to reside here, I found tlat, after I had givel them, the poor people will walls for miles to et a few" Otain only "Brows's Broverual Troches." Sold only in boxes.

## A reasonable tribute.

Tho vincyard was IIis, and he had right to expect his proportion of the fruit Now, here was the trouble: Israel w
prone to forget that they were only te ants at will, while the Almighty was the absolute owncr. And this is the way with the most of men. They come to think that they own what they occupy
and while boasting of their honesty are robbing God of his rightful duties. They may scrupulously render unto Cæsar the things that are Cæsar's, but are utterly carcless about rendering unto God the things that are God's. They are like that ungratcful wretch who, when appealed to for a contribution to the Lord's cause, axcused himself upon the ground that he wais in debt, and when reminded that he
owed the Lord more than all else besides, replied with consummate impudence "Yes; but he is not pushing me like miy other creditors." But let such a man be surc of this, that though the Lord may be slow in pushing his claims, he does not forget them, that they are never outlawed by lapse of time, and the longer the is postponed the more dreadful it will be.-Henson.

## EDUCATION FOR ALL

Do you suppose a man has no right to an education unless he is going to be a doctor, a minister, a lawyer, or some kind of public man? I affirm the right of very man in the community to an education. A man should educate himsel
for his own sake, even if lis education for his own sake, even if his education
should benefit no one else in the world. very man's education does, however benefit others beside himself. There is no calling, except that of slave-catching; for Christian governments, that is not made better by brains. No matter what a mau's ork is, he is a better man for having had thorough mind-drilling. If you are to be a farmer, go to college or to the
academy first. If you are to be a mechanic, and you have an opportunity of retting an education, get that first. If you mean to follow the lowest callingone of those callings termed "menial" o not be ignorant; have knowledge. A man can do without luxuries and wealth and public honors, but not withou knowledge. Poverty is not disreputable, ut ignorance is.-Henry Ward Beech

## NOT A COMPLIMENTARY GOSPEL

That is what makes some people so mad. Itcomes to a man of a million dollars and mpenitent in his sins, and says, "You're pauper." It comes to a woman of fair est cheek, who has never repented, and says, "You're a sinner." It comes to a
man priding himself on his independence, and says, "You're bound hand and foot by the devil." It connes to our entire race and says, "You're a ruin, a ghastly ruin an illimitable ruin." Satan sometimes ays to mè, "Why do you preach that ruth? Why don't you preach a gospel with no repentance in it? Why don't you
flatter nen's hearts so that you make them eel all right? Why don't you preach a humanitarian gospel with no repentance in it, saying nothing about the ruin, talking all the time about redemption?" rather lead five souls the right way than ten thousand the wrong way. The re demption of the gospel is a perfect farc if there is no ruin. "The whole need no a physician, but they that are sick."
THE BEAUTY OF AN EGYPTIAN LANDSCAPE. I can hardly describe the beauty of an gyptian landscape. There are no fences, and the farms and fields are separated only by the character of the crops and no barns nor houses in the fields, which are so small and so rich in their crops that they make the whole country look like a vast garden. Every thing grows like the famous gourd of Jonah. The patches of clover bend their heads over with the weight of sweetness, he cotton in the next patch bursts forth in its pods of whiteness, and beds of heary green point out the rich coming harvests of beans. Therc are few trees to be seen,
only here and there a cluster of tall palms only here and there a cluster of tall palms
marlis the site of a mud farming village and a grove of date trees reminds you that you are in the tropics. - Frank G. Carpen-


## I took Cold

I took Sick. SCOTTS EMULSION

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getting fat tor, For Scoti's and Hypophosphites of Lime and soda cor consumtion fucip-

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## BEAUTIFUL FLOWERS-EASILY GROWN.

 BX JOSEPH.1alf Hardy Annoals. In my last article I have named a number perfectly hard 5 , and can be sown in open beds or the spring as the ground is in good working der. When this is done with the same care that regetable seeds should be sown, there will be no difficulty in getting them germinate promptly.
The list given will furnish us some very fine flowers; yet we will not be satisfied with them. Ainong the so-called half hardy annuals and biennials we fund
flowers of such exquisite beauty, and such fowers of such exquisite beautr, and such same time, are such free bloomers, that we do uut feel we could get along without
them. All seeds of this list can be sown them. All seeds of this list can be sown past, or at the usual time of planting
The aster, or China aster, is one oi the chnicest of this list. It is represen $=$ in colors. I can hardly inagine anjtiliug more delicate, more charming, muru exquisite than the flowers of some of the
newer sorts. The bloon is produced in newer sorts. The bloonl is produced in but if wanted earlier, the plants may be started in boxes or pans in the house,
in frames, and transplanted to the open ground at corn planting time, in rich and well prepared soil, giving each plant about one square foot of space. A constau supply of moisture is indispensable for boeing or digging around the plants, careful remoral of weeds, which otherwise share food and drink with them, and perhaps a mulch of moss or leaves, etc. manure, will be found of great help.

Among the dwarf sorts are some very fine ones, especially Boltze's Dwarf Bougrow only about eight inches high, and have very delicate, small, but very perfect double flowers in abundance. Among the larger sorts I would select Victoria, peonyflowered Perfection, Comet, etc. Almos bardly consider a flower garden or border complete without at leasi some clumps or rows of asters.
Other flowers of the half hardy class, and the very cream among them, are Canterbury Bell, gaillardia, double hollyhock, pansy, bybrid petunia, single dahlia and verbena. Pansy and hollyhock are nearly hardy, and winter well outdoors with very little protection. The liollyhock may be sown in spring or autumn, and planted out to bloom the season following, from Angust to October. Pansy is one of he earliest to bloom. Flowers are often ound fully expanded as soon as the snow thars off. The gaillardia has pretty, yellow flowers, and also blooms from August rom July to October. The single varieties are the ones wanted for npen-air culture, the double ones being preferable for the house or greenhoitse. If double seed is own, fou may get ten per cent of double lowers, and if you do, rou are doing well Single dahlias can be grown from seeds as
annuals. They bloom when about four months old from the seed
The verbena ls my special favorite, and one of the easiest flowers to grow of this class. Like phlox drummondi, it makes a hrllllant display, when grown in inasses and of mised colors. I hare seen the year after ycar, from self-seedcil plants, all the care taken with them being the proper thinnlng and weeding, stirring the soll and pegging down the plants. Glve each plant lts proper allowance of space, say one foot square, and when
the loranches come out, peg them down, and keep the bed entirely matted over and thickly eovered with the brilliant colors.
and then some of the slips may be taken off and transferred to the house, to be
kept in bloom right along. The plants of this list can stand a light autumn frost, but no freeze.
All the anuuals named in this and the former article may be planted in the open horder, preferably in clumps, rings or in masses, and properly thinned to from six to twelve inches apart each way. I also commend the free use of fiowers. Pluck meals mure cheerful aud enjoyable by meals more cheerful aud enjoyable by
having tlowers on the tahle. Let the
children, and the neighhors' children, too, have all the fluwers they desire. The
more you pluck, the more will grow. more you pluck, the more will grom.
TESDER ANNUALS.-To the hists already TENDER ANNUALs.-To the bists already
namued we must yet add a few tender annuals. These are to be sown when the ground has wecome warni, or at the time
we usually plant melons, squashes and other vine fruits. Forenost among this class of flowers, aud as easily grown as which, is the balsam, or lady's slipper,
hightcen or twenty inclies
high, and bloonis in all sorts of colors, high, and blooms in all sorts of colors,
from July to September. Next, we have
the coxcomb, usually of crinson orsimilar shades, blooning in Angust and September. The monker flower, or mimulus,
also of various colors, blooms in July or September. For hot and dry positions, rocknork, etc., the portulaca, both double
and single, and of various colors, is admirably suited. It belougs to the "purslane" family, and is about as proof
against drouth and rough treatnieut, reprolncing itself freely from seed, yea For a plant of tropical appearance, eacily grown in warm, rich sows and decidedly attractive, plant, or ricinus. of this there
care some fine sorts, with dark or bronzed
are foliage, but all hare the same character, LOOK HERE, FRIEND, ARE YOU SICK? Do rou suffer from Drspepsia.Indigestion, Sour Stom.
arh, Liver Couplaint, Serrounes. LLost Appetite. Bil-
iousuess, Exliaustion or Tireil Feeling. Painis in Chest



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(O)II athistellumi.

## ONLY ONE MOTHER.

You have only oue mollicr, my boy,
Whose licart you can gladden with joy, Or canse it to ache
So cherisli thut ninother, my boy You late only one mother who will Stick to you through good and through ill And love you allhouyli So care for that love ever still. You have only one mother to pray the good path you may sta
Who for you won't spare; So worsilup that mother alway. You bave only one mother to make Who loils day and night For you wha dellghtTo luep ber palus aver tato

You have only one mother to mlss When slie l:as deparied from this,

Solove and revere
Sometime sou won't know lice dear kiss.
You lave only one mother, Just ono, Reurmber that alwars, my sod

None can or will do
What slie has for soun
Wbat have you for her ever done?

The queen of all bees, xay:s Uncle John, is Two pounds of copperas to a gallon of water prinkited over a foul-smelling draln, coop, pes r cault, will sweetev it.
Carpet salesman-"Yes'm, that's genuine Bruss.", machester Budget.
self." Rever
Never use the first water that comes from a pipe all nlglit, and is not healthful.

No," said the boodle alderman, "I shall and lend my vote to such a thleving scheme.' binder.
The boarding-house keeper who gives her boarders oleomargerlue instead of butter provides th
Boston Post.
If the fishy taste in wlld game is oblectlonable, it can be remored by pultiug a small onlon, cut flle, Into the water it
Judge-"Why don't you answer the question Just put to you?" Prisoner-"Well.give Tbirty days! Next case."-Yonkers Statesman. He sawed wood-"I don't see how Jones eve to auother. "He never snys anythlug." Somerville Jour?al.

A foating newspaper paragraph says that a Halifax lady, aged eiglity, has just begun can get square with tbeir neighbors when tbey go about it rlght.
Walker Fearn, late United States minister exlsts in Greece. He says that he and his daughter and $\Omega$ few frleuds, unarmed and without an escort, visited on horseback the but cordlal hospitality
"No use talkin' to me 'bout layln'up money an attentlue group; "no use tallin' dat way to a man wid sleb luck as I always hab. Why, rainy das, we'd inab a droutb for forty 'ears. No, sab; you don't keteb dis ulgger iu dat sort o' trap."

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suiles.

## A SEASONABLE TASK <br> There's a smashing

In the residence next door.

Neighhorhood has known befpre

What's the matter
Blddiug comfort eiserrhere rove? row doth labor

## and

THE MISSIONARY SPIRIT.
 He missionary spirit in it noble, even if it shonld some. in its application, sass the Boston Courier, and one should hare patience with
those who find themselres incliued to forget the poor their gate in brooding orer One of these people was receutly visited by "I have come to you for a dress for a poor girl who has heen sick, and must be decently really exhausted our resources at home, there has been so much sickness this winter Fou do so much for the missionaries that it is poor at home, I thought that this once you might break over sour usual custom and le thome." The other looked at her caller with a solemn
air and kept silent a moment. "That is precisely what I said to myself, my dear," slie answered. "I considered the whol think that for this wiuter I would give all that I had to give at home. I thought that the o that it really could not make so much difference to them, and besides, it is so much do not suffer; but when I remenibered tha they are not only indecently clad, but that they don't in the least kuow it, I assure you,
my dear, it gave me a shock that I couldn't get over, and I hadn't the heart to spare no matter hor hadly off girls are liere, ther do know enougli to know that they shouldn't go bout balf naked.
Is it to be wondered at that the caller fel rgument against a state of mind like this, hut gave up her errand on the spot?

He shuffled in, leaned up against the appleare pore balr a plnt of "Noue o' yo fellers an't seen nothin' o' m "What lind o' lookin' woman was she?" "Kind o' thin and tall; erhout my age, an'-
"There's a tall, thin woman over in the jai "w, arrested for stealin' a hoss." I dunnu. Maudy was uerer given much to
"Well, this woman pleaded guilty, an'-" erer plead guilty to nothin'. No matte ense. Erery time. Mandy was to meetin she was a sawiu' rood with ten knots to the sleepin' in meetin', she got rery wrathy, an so conldu't cotch Mandy without an excuse." ther lialf any excuse for her absence.-Phila

[^3]$\qquad$
$\qquad$ ondescend to in form me how sou would raise
$\qquad$
$\qquad$
destructive to the memory
$\qquad$

A little had a liabit of waking about midnight and calling for a drink of water. At last his bed, that she would not get np any more to wait upon him; that she rould put a pitcher of water and a glass on the stand near the bed, and that if he wanted water in the night, he must get up and get it himself. She placed the water ou the stand, in his sight, and left him That night, at the usual time, she heard the boy's call:
"I Want a d'iuko' mater! I mant a d'ink o water."
Butshe paid no attention. He called two or three times, and after be had whimpered a bit she heard him get up and thumpalong the
floor to the stand. And then through the darkness came this very positive ejaculation "I hope I thpill every jam jop!"-Boston
beating the nickel in the slot. "Gimme a nickel's worth of buckshot," said St. Paul gamin, wearing somerrhat disPress, just topped the counter in a bazar deoted to sporting goods.
I suppose he will load them into a rusty istol, and accidentally shoot some one of his intimate friends," suggested a bystander. "On, no," replied the proprietor of the gun beat the nickel-in-the-slot sclieme, and I suppose I am particeps criminis."

## "How?"

"Why, he will put them on the street-car track; the car will consert them into the exact size of nickels and pennies; and o course, rou can anticipate the financial panic lable to ensue in St. Paul, shortly, with a gnm

## WOULDN'T BREAK THE SET

A little boy of fire went with his mother to make a call. The lady of the house, who was very fond of children, told him she intended jou think that your mother would let me bus you?" she asked.
"No,"
he said, "you haven't got mones "How
much would it take?" she asked. promptly; "and you haven't got that much," "I thiuk I could manage it," she said. "If can, will you come to me?" "Mamma rouldn't scll me, anylions. There are fire of us, and mamma wouldn't like to break the set."-Harper's Young Peo

HE BOUGHT EVERYTHING now Moses Grapenheimer say he hafe a shattel now Moses Gr
"Yell, you puy eberytings on dose shelve
"Tell, dot shattel mortgage vas on dose
selves un counters dot five sears."
A NOBLE EPITAPH.
"I recall," said Dr. Lyman Ahhott at the cartoon in the Harrard Lampoon, which depicted tro ladies looking at a milestone near
One of the ladies remarked, to her com paninn, "That a noble epitaph-"I'm from

## A NARROW ESCAPE

"If it hadn't been for me little Harry Parker would hare gotteu a good licking to-day, ma would ha

## "And what did sou do "I didu't hit him back

LIMITS TO HIS RAGE.
Angry suhscriber to cditor-"I'm mad al
 "Yes, sir; do, you want to pay what you
n't mad enough for that."
LITTLE BITS
"Poets are born, sir," he said, haughtily, as he rolled up his manuscript. "And I'm doggoned sorry for 1 t," said the editor.-Merchant She-"You are very kind to inrite me to go sleighing, but-did your horse ever runaway?"
He-"Often. You see, I am careless about horses,and of ten let the reius fall to the bottom of the sleigh, a nd drive with
"I'll go."-New York Weekly.

## CONSUMPTION CURED

An old physician, retired from practice, had
placed in his liands by an East India mlssionpiaced in his hands by an East India mission-
ary the formula of a simple vegetable remedy for the speedy and permanent cure of Con-
sumption. Bronchlik, Catarrh. Asthmaand all sumption. Bronchils, Catarrn. Asthma and and
Throat and Lung Affectionsaliso a positive and
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siring to relleve human sufering, will send
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## Ğraniug

## BURN YOUR OLD LETTERS

So much mischief has been done by the foolish habit of keeping old Ietters, that it is wise to adopt the rule of destroying them at oncc. Their mission is ended what are they good for? "I may like to read them while recovering from an in ness," says some one. Pshaw! As if these would be the tonic you needed at such a time. Better far a breath of pure air. We are all prone to brood too nueed no such help in that di rection. Let this plea for the burning of letters be a strong one. Business letters should be filed and labeled. Hare a blank book into which copy such dates or ex racts as may be of value in the future for eferences. This can be done when letter the ashes. It is the sorrows instead of the joys that most letters contain. They are he safety-valre for deep feeling from friend to friend, good in their time, but future. Fwery day brings new experinces. We are constantly changing, and in many cases would be ashamed of our own letters written ten years ago.

## EGYPTIAN EGGS.

Apropos of Egyptology, which is fash onable just now, the farmer and the ractical woman of affairs may take a lesfrom modern Egspt in latching hickens. Under the shadow of the pyr mids, there are immense batching estabishments which turn out little chicks at he rate of fire hundred thousand erery ear; and the whole chicken crop is estiban twentr millions of chickens a rear.
By all the principles of political econony n inquiry ought to be instituted into the Egyptian methods of incubation, so that at any rate chickens enough for home conumption, instead of importing, as we do now, more than sixteen million dozen of eggs every year.
earned something of this subject from the dest nation, then family may, perhaps, hare what Henri of Navarre wished for his subjects-a chicken in the p

## IDLE WISHES

Idle wishes are those which begin and ffort, they derelop no energy, they in augurate no plan of action. It would probably asconish most of us could we realize truly how many of our wishes elate to a past which is irrevocable. Men ish that they had inherited property, or healthier constitution, or better tenden ies-that they had been brought up unde rwisdom-that ther had made different decisions, or pursued different courses, or been led by different advisers. Such ishes, While they naturally glance upo the passing guests of a moment. Sare as hey may sugrest improrements for our future, they are useless and exhausting.

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## nok Farm the past season numbering four

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[^4] and gardeu.

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[^0]:    Black Leg.-J. A. R., Agee, Neb. Your diag avail. It is best to raise young cattle away
    rom such places where black leg or malig rom such places
    nant edem凤 occurs.
    Wound on Knee.-A. W. L., Blackburn,
    Mo. Dress the sore with iodoform and absorbnt cotton, and then apply a bandage. Re
    new dresslng and band age twice a day, and new aressing and bandane twice a dhe, and
    nvarget. commence bandaglng at the hof.
    Garget., Keepville Pa. See to lt that

[^1]:    "Wby, the men that wake 'em up."-Judge.
    A MISAPPREHENSION.

    ## Young widd harry me?"

    Mrr. Preachley-" Well, realls, Mrs. Buckner,
    Mr. Preachey- "nd-",
    Young widder, What "Oh, well, take your time to d lik over. Mr. Harkins and I tbought
    

    Mr. Brown (to stranger who has sared him
    from drowning) " Mly dear, good friend, I'll from drowning)-" My dear, good friend, I'll
    never forget fou an long as Ilive! Come up
    to to my store and get some nice, clean, dry
    clothes; I'll let you hare them as cheap as clothes; I'll let you.
    anybody !'

    ## MONEY TELLS.

    Squildig-"What a thing irir Miss Rocks is!"
    McSwllligen-"On the contrary, she has a well rounded figure."
    Squildig-
    Meswilligeu

    - $11,000,000$ in $\qquad$
    Old Mr. Grump (at the door)-" Maria
    Miss Grump-"Yes, papa."
    troubled with insomnia, jest tell him we've go a spare bedroom upstairs with a copy o' Dr Fourthly's sermons on the table."

    ENGAGEMENT ANNOUNCED.
    "Clara," he whlspered, ardently, "do you
    ink sou could bring yourself to marry me?" "No, George," she answered with a sad smille "I couldn't very well bring myself f'm so PRECISE.
    Mrs. Pancake (in dry goods store)-"Will these goods wash?"' Clerk -
    washed."
    . LITTLE BITS.
    Some men get appointed to office, and others get disappointed.
    The musical critic should necessarily be a man of good sound judgment Dog fanciers tell us that ocean greyhounds come higher than skye terriers.
    Time flies, jet the orchestral leader sits still and beats time.-Richmond Dispatch. Being asked the name of the world's greatest composer, a smart university young man said:
    "Chloroform."-Philadelphia Record.
    "Not evers one is happs who dances," says man who has just stepped npon a tack.
    The gentleman who discovered that his wif
    was pnttlng her pln moner in the bank agains was pntting her pin monesin the bank agains
    a rainy day, now calls it her safety-pin mones Teacher-"Why should we all reverence George Washington?"
    Sammy-"Cos he never got caught in a lle. Sammy-"Cos he never got caughtin a he.
    -Terre Haute Express.
    Muldoon-"I say, McCarthy, did you vote McCarthy-"Did I rote wid me party? S "Poverty is no Elening Herald. "Poverty is no disgrace," said Jinks. many cases it is something to be proud or." gle for me to keep my pride down." - Merchan
    "Now, really, what was the most astonish ing thing jou saw in Paris, Mr. Spicer?" aske Miss Gusher, and without a moment's hesita
    ion Seth answered, "My hotel bill."Bulletin.
    A SaCRIFICE--"Do you sell postage stamp here, bub: asked old M. Bargin, enterin
    "No'm," returned the bay; "we just give
    A good memory is a blessing, sars a writer
    A good memory is a blessing, says a writer
    And it may be remarked that it is one that wealth cannot buy. Look at the man who be ber the faces of his old friends. There was tronble in a New York boarding
    house the other day. A boarder asked a redheaded walter girl if she had any white horsewith a sugar-bowl!-Chicago Herald.
    SUSPICROUSLY Poor.-Editor of daily newspa-
    er-"Is this poem orlginal ?
    Poet-"It is; why?"
    Editor of daily newspaper-"NothIng, only it doesn't seem to mean anything. (Suspi-
    oiously)-Yon arn't trying to palm off an old
    Time.
    Two Boston men have lald the foundatlons for bich fortunes. One has in falling on the sheets, and the other has brought out a wire holder to be fastened on the bed-
    post to recelve a quid of gum and keep it safe-
    15. One Boston sirl has ordered tro dozen of 15. One Boston girl has ordered tro dozen of
    these bolders. - Detroit Free Press.
    A Chicago man who was a guest at the Eagle Hotel in Poughkeepsie, after the dinner was
    over, sald, "What have Jou got for dessert ?" The waiter sald, "Pie." "What kind ?" "Mince,
    apple, lemon, custard and pumpkin." "Well," apple, lemon, custard and pumpkin." "bring me mincc, lem$\frac{\text { in thunder is the matter with the custard?" }}{\text { HOME STUDY, Book-keeplng, Business }}$ BEECHATS For Billous and Nervous Disorders, such as Wind and Pain in the Siomach, Sick Headache, Giddiness
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    ## (blanuty!

    TheWOMEN'S WORK San Francisco Call suggests a society for lightenuses to leep in ordor, and who hare houses to keep in order, and says:

    Does the shoemaker try to lighten women's work by sewing the buttons on honestly, or "tipping" the footwear with honest leather? Does the tailor who makes the pants with his boasted benevon the right place or large enough? Does the carpenter ever put the nails and hooks where a medium-sized woman, let alone a child, can reach them?

    Is there ever but the fewest possible shelves that a woman can reach without standing on a chair, at the risk of breaking her back?

    It is a very little thing to have no waterback to a stove, so a man thinks; but to a wife-of-all-work it is-well, there is no word strong enough to express the trouble it causes. A sink on a level, with cold Why not make a little decline? Also bring the zinc over the edges somewhat. The continued settling of grease in the fine cracks or interstices is very trying to a delicate-stomached woman

    The bureau drawers that never open or shut without a trial of temper, why cannot they be made to run smoothly?

    It should be declared a punishable of fence to make a window that cannot be brought in to clean.

    Men invented all these awkward and inconvenient things, and men made them, and they are responsible for the brokendown, haggard-looking women we see on the streets, or rather in the houses.

    ## RESPECT YOUR OWN CALLING.

    Much as we may feel chagrined and disgusted at the non-appreciation of our interests on the part of those who pull the wires and weld the rings in political manœurring, jet farmers can but admit, if they are candid and stop to stady the situation, that they themselves are in a large measure at fault in the matter. Certainly, it helongs to farmers themselves first to respect their calling. Are they
    cultivating the feeling within themselves that theirs is the noblest calling among men, and are they educating into the minds of their children the same sentiment? Surely they can give hut one answer to this question. Secondly, are they, with a hrave front and a strong strength and asserting the rights, the privileges and attentions their business calls for? Certainly not. Then it is foolish to expect others to do it, and folly to lament that it is not done. Farmers, it must not he expected that others will come forward to do hetter for you than you are doing for Jourse
    Gilbert, in Maine Farmer.

    ## THE HISTORV OF BUTTER

    Butter, which is almost indispensable nowadays, was almost unknown to the ancients. Herodotus is the earliest writer to mention it. The Spartans used butter, but as an ointment, and Plutarch tells how the wife of Deiotorous once received a visit from a Spartan lady whose pres ence was intolerable hecause she was smeared with butter. The Greeks learned of bntter from the Scythians, and the Germans showed the Romans how it was use it for food, hut for anointing their bodies.-Boston.Globe.

    PROPER USE OF VEGETABLES
    Potatoes are the proper vegetables to ac company fish. All linds of vegetables may be served with beef, although green ton or poultry. Corn should never accom pany game or poultry. With renison, cur pant jell $\overline{\text { Cahbage, applo sauce, parsnips, }}$ carrots and turnips should he served with pork. Macaroni with cheese should always accompany woodcock. Green peas and watereresses, wild ducks. Apple sauce, turnips, cabbage, wild or tame geese.-Table Talk.

    SHE LOOKED DISTINGUISHED.
    Newsboys naturally dovelop a quickness at reading faces as well as a freedom in asking and answering questions. One o this class was peddling his wares in a railway train, and in passing back and forth was struck with the appearance of a woman. She looked distinguished, and as he dumped his paper-covered novels into the laps of the other passengers, he passed her hy
    At last his curiosity got the hetter of all other considerations. He found among his books one by Mrs. Stowe, and on his next trip he proffered it to the very dignified lady, but she declined it.
    "Excuse me," said the hoy, "but ain't "ou Mrs. Stowe?
    The stranger shook her head and disclaimed the compliment. The boy went down the aisle, but on his return he stopped again.
    "Then perhaps you're Mrs. Stanton?"
    The woman smiled, and again shook her head.
    baffled.

    Would you mind telling me who you e, ma'am?
    It is not likely that the fellow was much the wiser when the woman gave her name as Maria Mitchell. Probably he had never heard of our famous astronomer, but he was equal to the emergency.
    "Well, I knew you was somebody!" he answered, triumphantly.-Youth's Com panion.

    ## UMBRELLA HANDLES.

    Umbrella handles are getting quaint and grotesque. The most remarkable handles come from Paris. One that I have seen is a model of the wand carried by the jester of Henry IV, of France. Another umbrella had a dagger of oxidized silver for a handle. The "golden calf" formed a pretty handle and a costly one. An umbrella with a handle of tortoise shell, in laid with silver, was useful as well as ornamental, for a powder-hox and Dresden china handle, mounted in silver, formed a scent-bottle. The stopper was the model of a ram's head, in silver.-Pall Mall Gazette.

    ## MARRIED WORKMEN

    A western manufacturer has increased the wages of his married employes, and given single men notice that after a cer tain time, if they are not married, their services will not he required. This will perliaps he regarded hy many as a niere whim, but it is based on sound business principles. As a rule, married men are more trustworthy, and consequently more men. They have given "hostages to for tuae."

    ## CONSERVATISM vs. THE RAGE FOR

    NOVELTIESThe Seed Annual for 1890, issued by D. Ferry \& Co., of Letroit, Michigan, has reached artistic and attractive, and its contents as usual, interesting and instructive. Ferry's seeds are thoroughly reliable, and always come true. The directions given in the An regetables are so full and explicit that no one can fail of success who use their seeds aud follows the instructions.
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    just what
    I wanted. I would not take Ten just what I wanted. I would not take Ten
    Dollars for it .
    Effie Daytun.
    ChAMBFRSBURG, OHIO, Dec. 12, 1889 . say tbat it ls far beyond my exnectations.
    tbink I can sell several in my neighborhood.

    The United States Postmaster-General paid over One Hundred Thousand Dollars for the Famous Painting Premium No. 100.

    ## entitled "CHRIST BEFORE PILATE."

    The intense interest shown by all classes in this great painting induced the publishers of this journal to spend thousands of dollars to secure an accurate copy, in the
    Original Colors, of this Wonderful Work of Art. In order to do this, they engaged the best artists and engravers in this country to make an accurate, faithful copy of this magnificent painting. The artists successfully finished their work, and have produced a highly artistic and very beautiful Oleograph copy or reproduction of Munkacsy's THIS GRAND PICTURE FREE TO EVERY ONE
    A Copy of the Picture will also be Given Free to Any One who sends Five 3 -Months' Trial Subseribers, at 10 Cents Each, or to Any One who secures a NEW subscriber to this paper at 50 cents a year.
     duce itlions of people, $\ln$ this country and Europe,
    duts Millions of people, in this country and Europe,
    have travelled many miles and paid an admis-
    siou fee to get a view of the remarkable paiuting, "CHRIST BEFORE PILATE," And it has been tbe topic of conversation In bun-
    dreds of thousands of homes for many months. It is pronounced by critics to be the most notable picture ever brought to America, a masterpiece,
    truly grand and wonderful as a work of art beyond the power of language to describe, and
    worth a tbousand sernious as a moral iessou.
    aLL the COLORS in the ORIGINAL PAINTING
    Are faithfully reproduced in our pictare.
    Months of patient, earnest labor were required to engrave the stones and produce such a picture be faithrui and give the finest possible result, re-
    gardless of expense, and they knew full well a common-place picture would not be accepted, therefore the artists have made a picture that is
    accurate and faithful in every detaii, and have
    furnisbed an olengraph picture Equal in Size and Artistic Merit to Pietares Sold in Stores for $\$ 10.00$ Each.
    

    DESCRIPTION OF THE PAINTING. The scene chosen for the painting is the "Judgment
    Hall" in the palace of Pilate, and the hour "early in
    the morning." Aronnd the Governor the priests ere the morning." Aronnd the Governor the priasts are
    gathered, and the high-priest, Caiaphas, is accusing cathored, and the high-priest, Caiaphas, is accusing
    Christ and demanding his death, The proud and
    furious higot is allalive with exitement. There is a
     superh audacity witth which he draws pilates atthe
    tion to the execrations of the mob who crying ton to the exerations of the mob (who are crying
    onil" Crucify hinvero ai expresive of the national
    Fill which the Governor is hond to repect. at the
    same time insinuating that to let this man go will he
     clamor, while bis conscience, aided by his wife's mes-
    sagewarning him not to ocondemn that rightoous man,
    is protesting in tones which make him tremble. THE CENTRAL FIGURE. And the most impressive of all. is Christ himself, clad stands alone in the simple majesty of his own per.
    sonality without sign or spmbol save his indivinai
    greatnes greatness. A heaventy Are represented hy the prond and confident Pharise日,
    the hankhty and contemptnons Scribe. the RRoman
    soldier of splendid phespo
    
     would not part with it for 810.00, if I didn't
    know wbere to obtalu another. sultably framed and will give it the best place suitaby parlor.
    in my med
    M. A. Wilkinson.
     part with it for $\$ 100.00$. I think it is really a wonderfui work of art. ithank you a hundred
    , or Springfield, Ohio.

    THE FARM AND FIRESIDE.

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

    -i mave ai.....s belleved," says Marion Har-
    land, "that every girl should be taught some definite, hread-winnIng occupation. My eidest daughter took a thorough course in English
    literature, my youngest has learned steuography and type-writi
    all my correspondence.
    A statisticians says that sisty years ago the population of the United States was 12,000000 ,
    and that the aggreegate wealth of the people vidual, a ud that the present popuiatlon is which is 5934 for each individual; but
    every individual does not get the s934 cash in band.
    A SERIES OF EVENTS AT OPPENHEIMER'S. Henry Oppenleimer, our genlal blacksmlth, was at work in the shop shoelug a horse,
    Wednesday, and his wifeleft the house to shoo with Nebuchadnczzar, the dog. Nebuchadnez$z$ ar got his head in the mill-pitcher and was
    unable to extricate it, Conrad was compelled o cut the head off to save the pitcher, and the head out. Henry Oppenheimer nearly lost
    his son Conrad. It was a close cali for him
    when his ma came into the kitchen.-Glad-

    ## When his n stone Della. <br> THE PYRAMIDS.

    A personal inspection of the pyramids of Esypt, made by a quarry ooner, who spentsome time recently on the Nille, has led him better builders than those of the present wer He states that there are blocks of stone in the uuch as the obelisk on the embankment. length, whieh fit so ciosely together that penknife may be ruu over the surface with out discovering the break between them. is no machinery so perfect that it will make neet together in unison as these stones in the
    pramlds meet.-Chicago Journal of Commerce. SULPHUR FUMIGATION.
    $\qquad$ recommended by physicians and boards ot
    health. Dr. Squibb, of 'Brooklyn, now calls the laity, and which shonld be emphasized in 1 s , that in the absence of moisture the penetrating power of sulphurous acid gas is only
    slight, and for this reason there should be an Dent in which the sulphur is burned.
    Medical News suggests that water be kept boiling in the room in which was is generated. Dr. Squibh aiso amrms the relative useless-
    ness of chlorine gas as a disinfectant in the BILL ARP AMONG THE FARMERS Bill Arp, the Georgia humorist, has been
    mollg the farmers. He sass: By invitatlon, I made a speech not long ago at a farmers' barnyself in encouraging our people to keep up aud honesty and independence of a farmer's
    life in muittindinous language. I was cheered and congratulated, ound spectacles, came up and says he to me: My friend, you talk mighty well; you talk
    Iike a lavyer; hut I would like to know if you milch cow?" "A helfer calfi", sald $I$, and the
    rowd just selled. I got the grln on the old Tho can't answer hls own qnestion must treat head."
    "How does a ground squirrel dig hls He studled awt alled on me to ninser. "Why," sald I, " beglns at the bottom."
    "Well, but how does he get to the bottom? sald the old man, as though tie had me. ud as it is your question, you must answrer or the old man
    home love.
    Home love 15 the best love. The fove that you are born to is the sweetest you will have
    on earth. You, who are so anxious to escape on earth. You, who are so anxious to escape
    from the home nest, pause a moment and remember this is so. It is right that the hour should come when you in yonr turn should beto others; but that will he just it. Nobodyrue as yer-nol a husband-will ever be so again, after straugers have hroken the beautiful bond, will there be anything so sweet as
    the little circle of motber, father and children Where you are cherished, protected, praised and kept from harm. You may not know it
    now, but jon will know lt some day. Whomnow, but yon will know it some day. Whom-
    soever you may marry, true and good though he may be, wili, after the love days are over and the honeymoon has waned, give you only what
    you deserve of love or sympathy, and usually he wary lest you lose that love that come in he wary lest you lose that love that came in
    through the eye, because the one who looked through the eye, because but one who looked
    thought you heautiful. But those who bore yon, who loved you when you were that dreadcol iittle object-a bahy-and thought youl -thes do not care for faces that are fairer and forms that are more graceful than yours. You ways than ot

    A picturesque road.
    Although the road to Quito lsover an almost trodden wilderness, it presents the grandest eath the equator, surrounding the city whose rigin is lost in the mist of centurles, rise Chimborazo, the lowest being 15,932 feet in height, and the highest reaching an altitude of 22,500 feet. Three of these volcanoes are active, five are dormant, and twelve are exsuch a cluster of peaks, such a grand assem blage of giants. Eighteen of the twenty are
    covered with perpetual snow, and the summits of eieren have never been reached by a liring creatnre except the condor, whose filght vertical sun throws a profusion of light upon like a group of prramids cut in spotiess mar-
    $\rightarrow$ -
    "There," sald a neighbor, polnting to a vil
    lage carpenter, "there is a man who has done
    more good, I really believe, in thls community more good, I really believe, in this community He cannot talk very much $\ln$ public, and he does not try. He is not worlh two thousand
    dollars, and it is very little he can put down on subscription papers. But a new fumily never moves into the village that he does no
    find it out and give them a neighborls welfind it out and give them a neighborly wel-
    come and offer them some service.
    "He is on the lookout to givestrangers a seat in his per at church. He is always ready to watch with a sick neighbor and look after his house plants in winter mainly that they may beable to send bouquets tafrieuds and in ralids. He finds time for a pleasant word to every
    child he meets, and you'll always see them climhing into his one-horse wagon when he
    has no other load. He has a genius for helping folks, and it does me guod to meet
    the streets."-St Louis Gilobe-Democrat.

    POST AND RAIL PEOPLE.
    A friend of mine says there are two sorts of people in the world-"posts" and "rails," and
    a good many more rails than posts. The meaning of this is that most peopie depend on wife. or perhaps on a neighlibor.
    Whether it is right to divide the whole popuWhether it is right to divide the whole popu-
    lation of the earth quite so strictly, it is trne one of the Railgirls sits by- her in school. Miss Rail never
    had a knife of her own, though she used a sort of a pencil that continualiy needs sharp-
    ening ; so Blanche's pretty penknife was borrowed until one day the Rail-girl snapped the knife that she was not very sorry.
    Ifiss Rail's brother works beslde Henry Miss Rail's brother works beslde Henry
    Brown In the office of the Daily Hurricane They both set type, aud Henry's patience is im today by Master Rall. He Henry tell When ed is added, he wlll hare forgotten tomorrow; and Henry has to tell hlm whether time he "sets it up." The truth 1s, the Rall-boy doesn't try to remenber these thlngs; he has
    taken Henry for a post and expects to be held up by him. Being a post ls often unpleasant, but how
    much worse it is to be a rall The post can much worse it is to be a rall The post can
    stand by ltself-but take it away and where is the rall? Boys and girls have this advantage
    over a wooden fence-lf they fear that they are rails, thes can set about turning them selves into posts at once, and ther will ind

    ## If you want the best Garden you

    MAULE'S SEEDS.There is no question but that Maule's Garden Seeds are unsurpassed. Their present popularity in every county in the United States proves it, for I now have customers at more than 32,500 post-offices. When once sown, others are not wanted at any price. My new Catalogue for 1890 is pronounced the most original, beautifully illustrated and readable Seed Catalogue ever published. You should not think of purchasing any SEEDS before sending for it. It is mailed free to customers and to all others enclosing ro cents in stamps for it.

    My Special List of Striking Specialties for 'oo mailed free to all who write for it,
    mentioning this' paper. Address
    WM, HENRY MAULE, 1711 Filbert St. PHILADELPHIA, PA.
    Trees \& Plants
    Of all kinds at almost half price. Lovett's Guide gives descriptions and prices, tells how to purchase, plant, prune, etc. It is a book of over 60 pages, finely illus trated, free; with colored plates ioc. Trees and Plants by Mall a Specialty.
    
    J. T. Lovett Co., LITTLE SILVER, N.J.
    

    GARDEN AND FARM MANUAL FOR 1890.
    

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    WOVEH WIRE FENCE
    

    Frito 50 THE INCHES HMGH AT 60 CERTS PER ROD,
    
     (1) $132 \begin{aligned} & \text { it ar pay forfeit. Nem portralls just out. } \\ & \text { A } 83.50 \text { Sanple sent free to all. } \\ & \text { W.H.Chidesler } \& \text { Son, } 28 \text { Bond St,N.N.Y. }\end{aligned}$ 200 SCHOOL DIALOGUES,RECITATIONS
    
    COINS Hzon aran mone gained
    
    

    In Old Time Cnrrency and an Ele
    

    Always mention this paper when answer ing advertisements, as advertisers often papers.
    

    Allegany, N. Y., November 30, 1889.
    The Peerless Atlas is received and we are more than pleased with it. It more tha meets our expectations. The paper and Atlas comes within the reach of every family, to teach children geography at home and as a book of reference for grown persons. Acc our thanks.

    MRS. H. H. JONES
    Chioago, Ill., Nov.!25, 1889
    The Peerless Atlas received all right. It is just the thing for daily use. R. PITNEY
    Mapleton, Ohio. Nov. 30, 1889
    Ireceived your new Peerless Atlas of the World and I would not take five times whe I paid for it lfI could not get another. I paid for it lfI could notget another.
    See Our Liberal OfPer of the Peerless Atlas, on page 133.

    ## Silections．

    ## SUNSET．

    he golden gates of day In quiet．close After the king hins passed，and fold on fold
    His crimson banners are togethcr rolled， hid to which the stately monarch goes Wrapped In the drapery of living gold nd leaves the night us，which darkergrows． At such a time，how beauty ns a queen
    Lingers among the arches of the west， and nations look enchanted on the scene And pralse the vesper star upon her breast
    Age seeks lis plllow，chlldhood falls asleep－ Hush，hush，O world i a night－long sllence kee ADVICE TO MEN IN TRADE． Trouble is tolerably certain to follow verbal contracts．The wise merchant， taught by experience，will endeavor to have a writing executed by the person to
    be charged，in every case of importance arising in his business．This especially is necessary of guarantees．A man enters fectly responsible．He tells you to sell Brown a thousand dollars＇worth of goods． Brown is all right，he will answer for that， etc．；make him sign a memorandum．A customer gives you a large order for future
    install ment deliveries．Make him sign it in writing．You engage a salesman for a
    year，or for a month，or for a trial trip． Have it all put down in writing and signed．You save your chances before a jury，who，nine times out of ten，prove party whom they consider is the＂under dog．＂It is only a little trouble at the
    time，butit usually sares a heap of trouble in the future．

    ## ALMOST THROUGH．

    A country editor，who was not supposed the neighbors were all interested， and naturally made frequent inquiries as The editor finally tired of being asked whether the plastering was dry yet， whether he expected to move in this week，
    etc．As he expressed it，he could not ap－ pear in the street without somebody＇s asking：
    ＂How＇s the house getting along？＂ One day he was quite out of p
    and just then a subscriber asked： ＂Well，Mr．Barnes，have you moved into your new house yet？＂
    ＂We began this morning，＂answered the editor；＂I carried over a chair，and salt－cellar，and left the dog in the yard．＂
    ＂Well，well，＂said the subscriber，＂mov－ ing is bad business；I＇m glad you＇ve go so near through with it．＂
    When a girl is ten years old，she should be given household duties to perform ac－
    cording to her size and strength，for which a sum of money should be paid her weekly．She needs a littlo pocket money and the knowledge how to spend by a mother to her little girl．She should be required to furnish a part of her ward
    robe with this money．For instance，i she gets ten cents a week，she should pur as her mother may decide；and doing this under the mother＇s supervision，she wil soon learn to trade with judgment and economy．Of course the mother will see
    that the sum is sufficient to do this and ye eave a trifle for the child to spend as she pleases．This will supply a healthy
    stimulus；it will give her a proper ambi－ tion and pride in her labor，and the ability to use money properly．As she grows creased，with the proportionate increase of money paid for the performance o the wages of a serrant among he with a thoroughness and alacrity rarel ound，either with a hired girl or daughte nothing to encourage or stimulate her in LOOK HERE，FRIEND，ARE YOU SICK？ Do rou suffer from Dvspepsia，Indigestion，Sour Stom
    ach，Liver Complaint，Nervousness，Lost Appetite．Bil
    lousnese，Extausition or Tired Feeling，Paius in Che
    

    ##  <br> 

    CHOICE STRAWBERRY PLANTS
    W．Finstrat ALLEN Jr．，ALLEN，MARYAND．
    Yellow Danver Onion Seed，
    
    WGRADEE VINE，Niazara，or Flowerlon Hy
    
    
    

    ## FAY wame GRAPES NEW GRAPES <br> Roseswised

    LARGESTGROWER GRAPE VIMES
     THE DINGEE \＆CONARD CO．，Rose Growers and Seedsmen，West Grove，Pa．

    ## VICK  and style as

    and style as proplate $8 \times 100^{3 / 2}$
    person
    cents，which not of land or cultpates a plant should bave a copy Maral Guiled
    
    
    
    
    
    
    
    $\$ 60$
    
     Ha＝w wewayeziz
    
     YOUR MAME ONTHS NOVVETY 10 C ， Sund
    
    ま＝uwwaw
    

    DO YOU SEE THIS．
    $\qquad$

    ## RICHES

    

    DETECTIVES
    
    

    978
    KEY－
     AH THERE SPECAL Manat

    ## AGENTS ${ }^{\text {HiOOHE}}$

     AGENTS！MEN！！BOYS！！
    

    ## 屇骨AGENTS WANTED  AUTOMATIC STEAM CODKER

    MARION WALKER．
    
    
     CANCER
    
    PILES
     Athone No pan or neronsthock．Smalle freige
    

    THIUM VS．MORPHINE MARTT CURED
    

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    ON 30 DAYS＇TRIAL．
    
    INDIAN HERB AND EIECTRIC PADS
     SAlve has
    
    
    
    Do not fail to mention this paper
    

    PIANO FORTES Tone, Tonch, Workmanship and Durability. Willisir kNabe \&ict co.
    

    ## Only 10 Cts. fOR The Tousewire THREE MONTHS

     And your choice of six Great Pube
    licalions One Year, CENTURY, HARPER'S, SCRIBNER'S, or
    BUTTERICK'S DELINEATOR, a:
    *January Number opens with 2 C Chapte
     ElizabethStuartPhelps In which she graphically parrates how Trip
    made his way through the dark forest, his recep. made his way nen
    (ion, and his subequent firtunes
    January "The Gentus, A Story of Fate," by kita aunt, the aristic niece and the aristocrat NA's GRATTICDE, TAEEV MOONERLNESS, DY ALICE WEL LINGTONROLLINS, full of commonsense TREASURE: an illustrated poem by RISRTC every mother's heart. "(iIRDLED, i. a poem
     ENNY JUNE considers "The Winter Cloak." "At Home Dress.", "Fashionabi
     subscribers, giving valuable personal experiences. "THE NeEnEworker," edited by EMMA
    MUNROE, containing directions for making seasonable articles, such as a scarf, hond, cap
     -
    

    ## THEFOUSEWIFE

    is the Best Hustrated Monthly in the Worla for 50 Cents a Tear, Wrote to us; "Eain number is so monch better than the preceding, $I$ dont know what you will do hs and learn how it is yourself.
    N. B. - Mentinn FARM AND. FIRESTDE, as the 1st, 10th, 20th, 50th, 70 th, and 100th persons
    answering this adrertisement will each receire a year's snbscription to either Century Nagazine, Harper's Monthly or Seribner's Magazine, Harper's Weekly, Harper's Bazar or Butlerick's Delinealor us jou prefer,
     are already a snbscriber to that pnhlication,
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    ## urrent <br> omment

    YE wish to call the special attention of our readers to the ex traordinary bargain Farm and Fireside is now offering to its patrons.
    We refer to the Peerless Atlas of the World, a full description of which appears in our advertising columns. This new and complete atlas of the world is our atest and greatest premium, and the price, including one year's subscription to this paper, is ouly one dollar. Never be fore in the history of map publishing has such a valuable work been offered to the nublic at such a low price. This is the day of cheap books, but Farm and FireSIDE is the pioneer in the line of getting out and publishing a cheap, good and complete atlas of the world. Heretofore the price at which good atlases have been sold restricted their sale to the few. The Peerless is a work for the million
    anticipated by the publishers, the Peerless is winning popular favor, and our first edition of fifty thousand is going rapidly. The testimonials received show that the purchasers are more than delighted with this premium. This is what the publishrs wished and expected
    Owing to the rapid settlement and deelopment of new couutries, and the building of railways and new towns, an atlas gets out of date in a few years. This has limited the sale of the high-priced ones. But the Peerless is so low-priced that it can easily be replaced from tin
    tine a copy from a later edition.

    There is a class of agitators who be lieve that poverty can be abolished
    by the abolishment of private ownership in land. At the present time they Single tax, or the raising of all funds necessary to defray the expenses of the governmeut by tax on land alone, is means to an end. That end is, briefly, the coniscation of land by the government
    without compensation to the present proprietors. Uuder our present laws, land can be taken for the use of the public, but not witlout just compensation. Single tax want the government to take the land Without any compensation to the land owners. They propose to accomplish this by nalking the tax on land so high that no one can afford to own it. It is an in direct way of confiscation without coll stand that, single tax cannot be established in this country without a revolution.

    Any person accepting any of our liberal that valuable picture, "Christ Before Pilate," free of cost. See page 167.
    $\int^{\mathbf{T}}$ is a matter of serious importance for family, leave his old friends and neighbors, and move away to a different and perhaps distant part of the country. He does so with the earnest desire all hope of bettering the condition home better and happier than the oil If he makes a mistake in selecting a new home, he cannot take the consequences alone; they fall on every nember of his family. A serious mistalse may result in great suffering. Bearing this in mind, our correspondents, in the descriptive
    letters of their localitjes, will not paint the landscape in colors too bright. Some home seeker may be unintentionally misled into taling a step that will cause disappointnient and suffering to himself and family.
    "Extracts from Correspondence," are assured, are read with much interest. Some of our readers have moved to ne places and made new homes on the strength of these letters, and have been the gainers. Others may do so and be the losers; therefore, this word of caution to our correspondents. Give us the draw. backs as weli as the advantages of your part of the country; they are of greater inportance. The settler who goes to a new country with a full knowledge of its drawbacks, goes prepared to overcome them, and succeeds when he would otherwise fail. Let us have an accurate description, disadvantages and all, so that no one will get a falso impression and go to a new location with too great expectations, and at the risk of serious loss and suffering.

    For many mouths past, so much has been said about the decline in agriculture, the low prices of farm products, the abandoned farus in New England, the inortgaged farms of the West, etc., that the subject has become wearisome. The depression in agriculture is a serious fact, and it demands and deserves the most careful consideration mined and removed, if possible. All the study and discussion we can have in this line is profitable. But when agitators and demagogues are "working" the subject for ancial schemes and political theories on the people, it is time to call a halt and point out the false assumption on which their theorics are mainly based. They assume that the depression in agriculture exists in this country only. This is not
    true. It is not confined to this country; it is general. It affects the countries of Europe as badly as our own. The agricultural depression is evell greater in the United Kingdoin than in the United States. The demagogues have much to say about the condition of farin laborers and the depreciation of farm values in New Englalld, but not a word about tha of old England. If they did, the weak ness of their argmments and the worth lessness of the remedies they offer would appear at once. They hido and may eveu deny the facts.
    Mr. Robert Giffen, the eminent authority ou British statistics, states that from 18.5 to 1885 , a period when there was a very
    large increase in the aggregate wealth of

    United Kingdom decreased ncarly sixteen per cent. The condition of agriculture in England to-day is far from being a high one. Excepting in a very few special lines, farming is unprofitable. The farmers there are not land owners, but renters,
    and they are having a hard time of it paying their rent and taxes.
    Attention is directed to this simply show that all theories for the relief agriculture based on the assumption that the condition of agriculture is all wrong in this country and all right in Europe are practically worthless.

    1HE farmers of Ohio have reason to feel encouraged iu the hope that hereafter their interests will receive due considcration in the state legislature Thirty-five members of the present legislature who are interested in agriculture have formed an organization, irrespective of party lines, for the special purpose of taking united action on all bills presented relating to agriculture. This looks like business. It is an important step, taken in answer to the reasouable and repeated demands of the farmers of the state, who have spoken in no uncertain sounds. This organization is strong enough to secure hearing from the legislature on any proper subject, and, we hope, strong enough to secure the enactinent of any fair and just law demanded by the farmers. Keep right ahead.

    ## fight it out

    One of the main reasons why farmers interests are so often ignored in the legis lature is that party questions are allowed to overshadow all others. The legislatiou farmers ask for is non-partisan.
    is a sensible and commeudable move on the part of the farmer members of the legislature to ignore party lines, unite, and push business questions instead of party questions to the front. If the succeed in this they will be publi
    benefactors. benefactors. $\qquad$

    1HERE is more interest manifested among farmers in the work of organization at the present time than The older organizations, such as th Grange, are experiencing a great revival and new ones arc growing very rapidly In matters of organization, as in religion, human nature seems to be decidedly denominational. Just as people cannot all be induced to unite with some one church, or with any, for that matter, so farmers will not all join one orgauization, and some will not join any. But of all bodies of men they are certainly the most backward in "getting a nove on themselves " But once well organized and started in forward motion, they will form an irre sistible army. There is danger that the force of the farmers' defeusive movement may be lost by having too many differen organizations, but, after all, there is not much to prevent them from becoming regiments or divisions of one great arny. The organization that has grown mos Farmers' Alliance
    In answer.
    inquiries, we give the declaratiou of purposes of the Ohio Farm
    ers' Alliance:

    Profoundly impresscd that we, the Farmers' Alliance, minted by the strong and faithers' ties of financial and home intcrests, should therefore resolve: To strive to secure the establishment of
    right and justice to ourselves and our poster ity.
    To labor for the education of the agricultural mentiu a strictly 110 -partisan spirit. governTo endorse the motto, "In thiugs essentlai, To secure purity of the elective franchise, cise it induce all voters to intelifgently exercise it for the enactment and execution of
    laws which wili express the most advanced public sentiment upou all questions Involviug the interests of laborers and farmers
    ly, socially a better state, mentally, moraly, socially and financially. To constantiy
    strive to secure entire harmony and 'good-will among all mankind, and brotherly love among

    To suppress persoual, local, sectionai and nationai prejudices, all unhealthy rivalry, and ali selfish ambition.
    To assuage the sufferings of a brother and sister, bury the dead, care for the widows aud toward offenders; to construe words and purposes in their most favorable 11 gh t, granting honesty of purpose and good intentions to othcrs, and to protect the principies of the Ailiance unto death.
    Copies of the constitution of the Ohio Farmers' Alliance can be obtained of the state secretary, Dan Kreis, Cardington, Ohio. The secretary writes us as follows:
    Editor Farm and Fireside:-The meeting of the Ohio Farmers' Alliauce at Iberia, Jauuary, proved that this organization has passed If the farmers of Ohio will now join hands in the work, the day of our deliveranals is hand holdiug back may delas but caunot stop the wheels of progress. Ohio Is bound to take a frout position in the organization, and farmers should foil hands at once and give it that place immediately. Farmers, send at once for a copy of the constitution of the Oinio Farmers' Aliiance.

    T
    here is a growing demand that the members of the United States Senate people. It is not an easy matter to change the constitution, however desirable that change may be. The best of reasons must be given, and the subject agitated unt popular sentiment is overwhelmingly favor of the change. There may be man good reasons for amending the constitu tion so that the senators shall be elected by the direct vote of the people, but the reason most frequently urged is hardly sufficient. It is not sufficient, because the object aimed at would not be reached. The election of senators by direct vote would not, as argued, prevent a millionaire politician from buying a seat in the Senate. He would find it just about as easy to buy the nomination from the delegates to the convention of his party, and the necessary votes afteriwards at the general election, as to buy his election from the meinbers of the state legislature. They are fewer of the latter, but they "come" higher. They run a much greater risk than mere delegates to a party convention. They are in a position to be called to account. Detection is political suicide for them. Boodlers in politics will not necessarily be downed by the change demanded.

    F ARMI AND FIRESIDE. ISSUED 1st AND 15th OF EACH HONTH BY
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     The Advertisers in this Paper,
    
    

    ## (9) fixtur.

    AGRICULTJRAL CHEMISTRY
    From the Standpoint of the Practical Fa BY JOSEPEI (TUISCO GREINER). No. 27.
    Other Sotrces of Phosphoric Acid.If we were compelled to depend for our supply of phosphoric acid on the boues of
    animals of our own period, we would be animals of our own period, we would be
    in a bad fix indeed. But it so happens in a bad fix indeed. But it so happens
    that rast quantities of fossil bones-the bones of all sorts of animals that inhabited the sea, and swamps, and ponds, etc., probably long before the era of man-are stored up in various parts of the world,
    especially in North and South Carolina, especially in North and South Carolina,
    in Florida and elsewhere. An immense in Florida and elsewhere. An immense
    accumulation of the best article of this kind is found in South Curolina, and this contains from forty to sisty yer cent of
    phosphate of lime. It is known under the name "phosphate rock, or South Carolina rock." In this material we undoubtest source of phosphoric acid. To give to the reader an idea of the quantities at our disposal in South Carolina alone, let me state that the amount taken out of the
    mines there since they were diseovered mines there since they were diseovered-
    less than twenty-five years ago-is estimated to be near 4 ,orio, ourl tons; yct the a vailable supply is not risibly lowered. In order to fit it for use, this rock is ground South Carolina rock or floats. In ins we have about twenty-seven or twen-ty-eight, sometimes even more, per cent
    of phosphoric acid, which, of course, is wholly insoluble, or very neariy so. The stations rate this form of phosphoric acid worth noninally $\$ 11$ or $\$ 12$. Floats can be bought at $\$ 13$ the ton.
    If applied in this form to some soils, especially to those destitute of earbonaceolls inatter (humus), and insiffied with potash, sueb as thin, sandy soils, this plain phosphate has usually little or no immediate effect. In soils having potash and earbonaceous matter
    in sufficient quantity, however, the phosplatic flour is very slowly dissolved, and thus made available for plant nutrition. Whether this is done by the help of earbonic acid, or otherwise, I do not know,
    nor do I care so long as it is a fact that nor do 1 care so lich have a long period of development - grains, grasses, cotton, fruits, etc.-often are thus fed with very excel-
    lent results and great saving in expense. I have seen as good effects from the application of phosphoric acid in this form, costing two cents a pound, on Virginia wheat farms, as from thosphoric acid costing eight cents a pound. Where the two-cent
    goods will answer every purpose, it would
    be folly to a ply the dissol red article costbe folly to apply the dissol red article cost-
    ing from five and one half to eight and one half ceuts.
    On the other hand, there are instances where the cheap, ground phosphate roek or fluats will do no perceptible good. This is especially in all cases where we desire is especially in all cases where we desire
    immediate action of the phosphoric acin? in quick-maturiug erops, etc. Here a different eourse must be adopted; and instead of using plain, ground rock, we
    must apply phosphoric acid in the soluble state; and thus we have it in what is known as "aeid phosphate," or "dissolved South Carolina rock." This is raw, ground in same manner as fresh bone is treated, in same manner as fresh bone
    as described in preceding article. Acid phosphate contains about fifteen per cent of phosphoric acid, twelve of this soluble and three insoluble. A ton of the plain, ground rock has about 540 pounds of phosphorie acid (nearly all insoluble); the acid phosphate has only about 300 pounds, of which 240 pounds is soluble; but since we pay from $\$ 15$ to $\$ 20$ a ton for phosphoric acid, containing the insoluble at two cents a pound, will cost us from
    five and three fourths to seven and one five and three fourths to seven and one
    half cents, which is yet considerably cheaper than in loone phosphate, whilc the soluble acid will give us the same result in the field whether derived from rock or from fresh bone.
    
    have some effect. Probably phosphoric
    acid and nitrogen are in scant supply, while potash is abundant. Dissolved rock would furnish the phosphoric acid, and perhaps aid in making nitrogen available. This latter would also be the result of applications of lime and manure, which sulstances furnish a fine basis for the natural process of nitrification. There may be still another cause or causes. The moving spirit in this matter may simply be the sulphuric acid in the dissolved rock, and its action upon the needed plant foods. This may be determined by a fer experiments. Apply land plaster, which is simply sulphate of lime, and note its effects. If it gives the same results as the rock, we may be sure that it is the sulphuric acid which does the work. If so, it can be bought chcaper in the form of land plaster than in phosphates. At the same time, experiuuentally, nitrate of soda might be applied on another plot, which will show, in its results, whether it is simply the nitrogen that is lacking.

    ## CORN.STALK BREAKER.

    Take a pole large enough to be hewn down to four by six inches, and long enough to take three rows of stalks at a swath. Bore a hole two and a half feet from each end. Take another pole, same
    length as first, and much lighter; bore holes in it to correspond with those in the front picce, and pin the two together by stakes three feet long. The main objeet
    dissolve it by treatment with sulphuric aeid in the way mentioned for bones. To do this we moisten 265 pounds of the
    ground roek with abont 80 pounds of ground rock with about 80 pounds of
    water i: a tank or vat, then slowly and carefully add the contents of a carboy ( 160 pounds) of sulphuric acid (oil of ritriol), sixts-six degrecs in strength, and stir thoroughly. The result will be about 450 pounds of rissolved roek or acid phos-
    plate, containing about $i 0$ pounds phosplor:c acid, four fifths of it soluble, at a cost as follows:
    265 pounds ground phosphate rock........... si 72
    160 pounds oil of vitriol........................
    2 Tutal... . $£ 96$
    Allowing two cents per pound for the insoluble part of the phosphoric acid, the
    soluble part will thus cost us about six and one half cents per pouncl. I do not sce any great saring in this as compared with buying the dissolved rock out and out, and do not think I would be justified of fertilizer manufacturers.
    In the applieation and effect of phosphates we sometlmes meet with questions of a rather complicated nature. To give an instance, I will eite what one of our readers, T. H. S., has recently written to us. He says: "What effeet will dissolved
    South Carolina rock have on land if conSouth Carolina rock have on land if continuously used? It has now as good effect manure, when applied singly, have no effect; but manure in combination with fresh quicklime shows about the same good results as the dissolved rock. Perhaps the soil contains some insoluble
    plant food which the caustic lime or the plant food which the caustic lime or the
    aeid plosphate makes a a ailable." There may be a peculiarity about this soil which I do not fully understand. If element of plant food, wood ashes should
    t does the breaking; the hind pole being used merely to steady the front one. The great fault with brealers is the sliding; to prevent this, bore two more holes in the
    front pole, nine and one lialf feet apart and equal distance from the ends, extending outward. Insert pins from the front two :nd one half feet long, and you have splendid corn-stall breaker.

    Orvitle.

    ## SALICYLIC ACID IN FOOD.

    Salicylic acid was one of the food preservatives with which experiments werc made. The difficulties with which experimenters encounter in work of this kind can only be appreciated by those who have attempted similar in vestigations. Circumstances
    apparently most frivial, as the shaking of the misture after the addition of the saliva, the temperature of the added saliva, the time intervening between two
    sugar determinations after the solutions were made up, etc., were fonnd to affect the results in a serious inanncr. Hence, a great deal of preliminary work is lost in working out a method which will give results satisfactory to the experimenter
    liinself, and eapable of bearing scientific criticisin. The method finally adopted is as follows:
    Ono gram of starch, if mixed with ten minutes; fiveters of water, boiled for five water, added, eooled to forty degrees C.; five cubic centincters of saliva, of the same tempcrature, added, vigorously shaken, kept at the temperature of forty degrees C. for the reqnired time-the ac-
    tion of the saliva stopped by heating the tion of the saliva stopped by heating the mixture to the boiling point, rendercd alkaline, diluted to one hundred enbic ecntimeters and the grape sugar deter-
    mined with Fehling's solutiou. In the
    first series of experiments, parallel tests were made with one gram of pure starcl
    and one gram of starch containing ten milli-grams, or .0 .1 grams of salicylic arid. The production of sugar was as ollows, (a) representing the amount obained from the pure starch, and (b) ther obtained from stareh and salicylic acií the time given
    Time, one minute, grape sugar, (a) 7.5 per cent; ; (b) 9.61 per cent.
    Time, five minutes
    (binutes, grape sugar, (a) 9.6 Time, (b) 10.0 per cent.
    22.77 per cent; (b) 20.83 ger Time, thirty minutes, grape
    .31 per Time, one hour, grape sugar,(a) 27.67 per cent; (b) 33.33 per cent.
    From these results it will be seen that the salicylic acid present had no effect on the formation of grape sugar. In fact, in some of the tests the production of sugar
    seemed to be slightly in faror of the salieylic acid, although in no case was the difference a marked one. After the addition of fifteen cubic centimeters of water and five cubie centimeters of saliva, it will be seen there was one gram of salicylic acid in twenty-one grams of the mixture, or one part of salicylic acid to twentr-one hundred parts of the mixtnre, aud this proportion of salicylic acid, we tion of grape sugar hy the action of saliva In the second serics of experiments, ten times as much salicylic acid as in the tirst ase was used; that is, one gram to one gram of starch. This wonld make one part of salicylic acid to two hundred and ten parts of the mixture. The results ob tained are as follows:
    Time, one uninute, grape sugar, (a) 13.58 per cent; (b) none.
    Time, five minutes, grape sugar,(a) 14.28 per cent; (b) none.
    Time, fifteen minutes, grape sugar, (a) 22.71 per cent; (b) unne

    Time, thirty minutes, grape sugar, (a) 25.00 per eent ; (b) 110 ne.

    Time, one hour, grape sugai;, (a) 27.65 per eent; (b) slight trace.
    From these experiments it will be seen that salieylic aeid, in the proportion of one part to two hundred and ten parts of the mixture, completely stops the action of saliva upon starelh, and thus blocks the first step in the digestion of starchy food. One part of the acid to twenty-one hnndred parts of the mixture does not, as we have already shown, seem to have the same effect. Hence, the limits at which salicylic acid stops the production of grape sugar, or seriously interferes with its pro duction, must lie between these two extremes. These points mist yet be determined. In the meantime, the public as well as science, owe a debt of gratitude to Mr. Fox for the industrious and painstaking manner iu which he is pursuing this in vestigation.
    As the action of salicylic acid is thus directly opposed to the process of diges tion, its use in daily articles of food should be condemned for this reason alone.
    Plysiological effects-The ciose of sali cylic acid, as a medieine, is from ten to forty grains. For cliildrcu, the dose is much smaller. Although the maximum dose would rarely, if ever, be reached in the consumption of fond prescrved with the drug, yet the minimuin dose, if con-
    tinued for a long time, might produce tinued for a long time, might produce
    equal disorders, and this dose can readil be exceeded, es pecially
    foods and drinks thas prcserved are consumed at the same meal. This danger is increased by the fact that several days may intervene before the drug is ennpletely eliminated from the system after it is taken, although it speedily enters into the cireulation.
    From the plysiological action of the drug, as reported in the National Dispensatory, the following may be cited
    "Plants watered with a solution of salicylic acid specdily die. One grain of sodium salicylate introduced under the skin of a frog renders the animal languid, and then occasions complete motor paralysis and arrest of the leart. Guinea pigs, after dose of sixty or seventy grains. grow rap idly weak, lie down and drag their limbs, Whleh inore spasmodicully; then respira tion grows shallower, until it ceases.
    "Experlments on dogs: 1. Moderate doses occaslon nausea, salivation, romit-
    ing and diarrhcoa. 2. Tho senses of sight and hearing appear somewhat dull. 3. The respiration is quickened, the temperature increased, except in fover, when it is reduced. 4. The central nervous system is affected only by large doses, whieh abolish sensibility and mutility, and spasms precede death. 5. After death, the stomach, intestines, liver and kidneys aro congested; the brain and spinal cord, also, appear congested.
    "Effeets on man: In full medicinal doses salicylie acid usually causes buzzing, humming and rushing sounds in the cars, with moro or less deafucss. Headache is not uuusual, and may be attonded with dullness and an uncertain gait. Blinduess for ton hours is roported. When fever exists, delirium is readily induced by the medicine, especialiy in nervous patients, and it is as apt to be, as in delirium tremens. Difficulty of breathing aud palpitation of the heart are ordinary effects of the medicine. Hence, it should be a rulo never to prescribe tho medicine in case of heart or lung troubles. In cases of disease, enormous doses have been given without any apparent serious efficts. On the other hand, cases of deatli are reported by doscs not excecding one hundred and fifty grains per day, and oule case after four taken."
    Fortunately, the toxlcal effects of tho drug are counteracted by the nutrients of the food taken. Otherwise, the re-
    sults of its gencral and indiscriminate use would be banoful indecd. But this statement does not justify its employment as a food preservative. The property of the drug pointed out above is not changed by the presence of nutrients, and its physiological actions are of such a naturo that it sloould bo ad-
    ministered only under the dircction and eare of a competent physician, and not bo taken indiscriminately by every one in all conditions of health and discase.
    In some countries steps have now been taken against this use of the drng. The boards of health of France and Anstria have absolutely prohibited its use, even in the smallest amounts, in all articles of
    food and drink. Other countries may have done the samo, but I have no information to this effect. From theso cousiderations, we hold that salicylic acid can find uo legitimate place in our daily food. Its use in private families should be discontinued, and its occurrence in commerial food products should be condemned by all.
    Olio State University.

    ## GOOD REGION FOR SHEEP.

    "Prof. Randall on Sheep Husbandry for the South," written forty years ago, shows
    how peculiarly well adapted this industry is to the climato and soil of the southern states, and though the war and the uprootal of old conditiousof la bor and land have prevented his suggestions from being generally adopted, the lapse of time ouly mak: their sounduess more forcible, and their study oven more profitable and interest ing than when written. The superiority of sheep for supporting the fertility o tillage lands, and tho advantages of the short, mild winters and cheap lands, are well proven. It also shows that clover is uot indispensable, though it grows freely, for the reason that the pea is to the South what clover is to the North; and also, that the South has all that is uecessary to feed stock and fertilize the fields, for though ordinary animal manure is not attainable in sufficient quant:ties and is too expensive when transported, the remedy is found in a mixed systent of green and animal manuring, the latter made attainable by sheep, and that the South possesses the same great advantage with the North-west-chcap lands-and the decided advaltage over the North and North-west of short, inild winters.
    The discussion
    The discussion going on about the profit of shecp raising will doubtless throw light fons, and the following figures are given to show that more than ordinary profit is assured to those who may settle on the cheap lands in Prince Genrge's county Maryland-the farthest not over twenty
    five miles from the national capital, and all convenlent to the highost , markets. Theso lands are forced to sale out of proportion to the number of buyers, and very few attract attention at any price, but once good lucome by sheep lusbandry, it may not be long before they will command attention of individnals and syudicates seeking remunerative investmonts for capital, in these days of low luterests in this country and England, and bo absorbed at prices bearing some equivalont relation to tho ineome that they can be
    made to yield.
    GEo. I. Jones.

    ## FODDER WAGON.

    Invert the hind carrlage of a wagon, take out tho standards and in their places fasten with small chains two pieces of timber slxtoon feet long, and as largo as is required for the weight you wish to haul. Bolt-these pieces together at the forward end. Bore an inch hole through these pieces whero they are bolted together
    

    ## Fodder Wagon

    connect these piees to the front carriage side of the axle. Have a nut put on the king-bolt, to fasten on top after removing the bolster. Bolt a two hy six picce on in front of hind wheels. Bolt the hounds to this. Prepare an iron rod with holo in one end largo enough for king bolt, put thls in place of the couplling pole, and bolt this on to the long piece about three feet from the king-bolt. Put standards in the long pieces in front of hind axle. This wagon is convenient for all kinds of feeding, if properly made. In loading it with fodder, first load it full be tween tho hind wheels. War. Fismer.

    ## fodder drag.

    Take two poles, A A, 14 feet long, con nect them with two cross-sticks, B B, to the width of wagon-bed in front and 6 inches wider on the lower end. Next make two standards, C C, 6 feet high, stationed with two bearers, D D, also with three braces, E E E. I fasten them, and the cross-sticks also, with quarter-inch
    bolts. FF are pins through the ends bolts. F F are pins through the ends to
    hook over the wagon axles. I use a one hook over the wagon axles. I use a one
    
    mako a tongue in it, and in this way I can hy-frame. Henry B. Lammert. Missouri.

    The simple bre finest in the world water made this arid desert of rich soil bloom with tropical luxuriance.
    He had a brave heart who first set out to make a home at Fresno. Fourteen yours agn it was a dreary strotcl of most inhospitable, level, sandy ${ }^{\text {p }}$ plain, without a green thing lin sight in sumincr, except the settler himself, over which the summer winds rushed like a hot blast from a fiery furnace. Tho slight rains of winter had their moisture all dissipated by the breath of tho first hot days of spring, and I am confident that the subsoil, ten to twenty fcet below the surface of the plain on which Frosno now stands had not been
    thoroughly moistened for hundreds of years. One of the first settlers told me that in digging for water, the earth was as dry as dust sixty feet down, and when they reaclied water at slxty-five feet, it was warm cnouglı to wash greaso from his hands without soap. He was most ecrtainly a brave man to undertake to
    grow trees and crops jn such a location But he could sce that tho soil was very rich, and if he could bring water to the soil, the water, soil and climato wrould do His twenty-aere tract has brought him independence, and he can now, in his old age, ront it out for an inhis wants.

    Fresno is a success. The world has heard of cess. Its greatest prod uct, raisins, has reachcld every hamlet in this $\begin{array}{ll}\text { broad land. } & \text { It has } \\ \text { competed in forcign }\end{array}$ markets, and "no
    got left," with the finest products of other favored climes. Besides, she produces mmense quantities of other fruits and rops of such size and quality that the and Riverside, are rich, prospcrous communitics, as woll as hundreds of others in the south half of California, mado so entirely by irrigation
    Fresno is in the great San Joaquin valley, an apparently level plain of thonsands of square miles,surrounded on every hand by high mountains, whicla aro capablo of furnishing sufficient water to irrigate tho wholc plain. Nearly every square mile of that great valley is as grod, or better, than Fresno. To many points
    side, in the south part of this state, and Fresno, in the sonth center. The rainfall at Riverside averages eiglit and sixteen ono huudredths inchos yearly; at Fresuo, uino $1 l l$ in tho screll ono hundredths inchesnot sufficient for any crop. Except in scasons of the grcatcst rainfall, crops of the small grains, orchards and rineyards eithcr placo without artificial watering. Yet, after ten or fourtcen years, theso places aro surronnded with largo and profitahlo orchards and vinoyards, and slip to
    tho markets of the world thousands carloads of fresh and dried fruits, raisins and wine.
    In tho once arld and forliddling valley of the Santa Anna river, ton acres of which would hardly pasture ono jack rabbit in tho summer season, is Riversido,
    surrounded by a nearly perfect paradise of fruits, vincs, flowers and beautifu rees, and the pleasant homes of hundrods of happy people. Riversido Navel oranges
    has now water enough to thoroughly irli gresuo double the amount of land that Fresuo has, and has, I think, much better soil and is nearer market. Tho climato of this great valloy is essentially the samo throughout.
    It is hard to judge how many people this valley would support, when all under sufficient water. Certainly more to the square inlie than Holland or any other of tho noro densely populated regions of Europe, for its growing scason is very much longer and has tho heat to rush crops to maturity, so as to mako several in succession; and its soil is rich enough for anything. There is no data to estimate by Great heat, rich soil and water mako crops; it has the threo, when it gets tho ater.
    Under the present system of surfaco irrigation, without underdrainage, tho life of all of these now seeming paradises
    for immenso crops is that they nust, the will, fil and crops is that they must, they tory tolls us go back to utter ruin. His der cultivation by surface irrigation with river, spring or artesian water, but what has, in a longer or shorter period, become anproductive and starved out the people or nation who so treated it. I mean, of coursc, level, arid regions, with hot, sum-
    mer climates, rainless in sumnier and mer climates, rainless in sumnter and and without a chance for the water of these flooding raius to flow away to the
    D. B. Wier..

    CARE AND MANAGEMENT OF COLTS.
    Breakiug colts is an easy matter, if not dcferred too long. Colts, to make good, safo liorses, must be handied young. As a matter of course, they vary in disposition. But there is one thing, you must make the colt understand you are its masHalter it at four weeks old, tie it beside its dam, gire it oats; if it struggles at the halter, pat it, talk to it, treat it abont as you would a boy. Never leavo it until it has dono as you wish it; do not tease it, resent its inclination to bite strike or kick; rub the fork-handle and shovel against its hcels and legs; make it ased to noisc, bells, blankets and robes; If frightened, pat it, talk to it, give it to understand you are its friend, and it will have confidence in you. Teach it to come at your whistlc, and give it something when it docs. No matter how dark it is, $r$ where my colts are, if they can hear my whistle they como on the run, and I al ways greet them kindly. I think a colt safer and a truer, better horse if broken young to harness; but nothing but light driving should be expected uutil rising four years old.
    Break your colt with a quick, activo horse. It makes a better walker and driver. Wheu yon want it to draw commence light, incrcaso gradually, and the colt will think it can draw anything Teach tho colt to stop at "whoa" and use the word "steady" if you want him to go slower. Shove tho gearing outo him, ratthe tho whiflle-treo against his heels, teach him it is nothing that will hurt him, and should anythiug give way, it will hold tho load coming down hill-at least, such is my cxperience. Feed tho colt anything it will cat. I never had a casc of colle by changing feed; but I always used salt when I changed. Nerer feed heavy; water reely while on the road. Thero is moro danger in watering a horso after letting it go too long without it. If you have drivon hard all day and cannot feed or in ab, put him up, giving hay irst, wate that he is well taken caro of, and ho wil he all right in the morning. I havo had
    twenty-fivo years' experience handling wenty-fivo years' experience handling
    horses, and verer lost one yet nor had
     and accidents I havo PRACTICAL FARMER.

    ## a Salary

    expenses pald will conie handy to any no who is now out of employment, especially where no previous experience is required to
    get the position. If you want a position, se advertisement on page 173 beaded, "A Chance lo Make Mouey."
    Publishereilege Corner, Ohio, Jan. 11, 1890.
    
    
     paper published in the United Statec
    WSH CASFET.

    ## (G) fix funt.

    ## GROWING VEGETABLE PLANTS.

    ## BY Josepr

    No man reas ever more competent speak with authority on the subject of
    growing regetable plauts than Mr. Peter Hendersou, whose death by influenza is just annouuced, and who duriug his active life has grown and furnished to his
    patrons millions upon millious of all kiuds of regetable plants. At first, Mr. Henderson grew all these plants in coldframes and hot-beds; since a morerecent time, however, they are all started in greenhouses. Mr. Henderson, in his lecture, extract of which was published in Farmatid Fireside of Jauuary 15th, gave the following account
    "We make our first sowing February 1st, in our greenhouses, where the temperature will a verage about , degrees; that degrees during the day. When there is not the conrenience of a greenhouse, hot-bed will answer the same purpose. A
    hot-bed, made with mauure, about two hot-bed, made with mauure, about two
    feet deep, in a proper manner, produces just about the same teru perature and general conditions as a well-appointed greenhouse will. We now invariably sow the
    seed in shallow boxes (those used in the importation of tin) which are $13 / 4$ inches deep aud about 20 iuches long by 14 wide Ye use any light, rich soil for the purproduce 1,000 to 1,500 plants, or if sown In the hot-bed, without the boxes, each
    $3 \times 6$-foot sash should grow abont 5,000 plants, but we fiud it unore conrenient to use the boxes than to sow iu the soil, put direct on the bencl of the greenlouse, o on the manure of the hot-bed. The plants averaging 70 degrees, will give plauts fit to transplant in about three or four weeks, We then use the same kiud of shallon
    boxes, putting in the bottom of each about three fourths of au iuch of well-rotted manure. Orer that we place an incli of it so as to have it as level as possible. Iu these boxes, which are $14 \times 20$ iuches, we put an arerage of about 150 plants. After transplanting iuto the boxes, they are
    continued to be growu in the same temperature for about ten days; they are then placed in a temperature arcragiug 55 de-
    grees, where they are allowed to regrees, where they are allowed to re
    main for teu or twelve days, and tinally are placed in cold-frames. The boxes should be placed as close t will stand-about eight boxes fill a sash, thus holding about 1,200 plants. If the weather is cold, they, are matted; if not,
    the sash will be suficient protectiou. For the past five years we hare each seasou
    grown about half a million of eabbage, cauliflower, celery and lettuce plants in this war, and have never failed to get by the old cold-frame plan of sowiugg iu the fall.
    "Plants sown on the first of February are trausplanted iuto the boxes abont the firs cold-frames about March 10th or 15th, aud make fine plants to transplant to the open ground any time after the first of A pril,
    if they have been carefully atteuded to by watering, airing and protecting from frost. These dates refer particularly t the ricinity of New York City, where we
    can plant out usnally in the open ground all kinds of cabbage, cauliflower and lettuce plants from April 1st to 10 th. If in
    distriets where they eannot be planted out sooner than the cnd of April, then the sowing slould not be made before the
    fifteenth of February, and the process of transplanting, etc., gone through as before stated, so that the plants will, be in condition to plant in thic open ground by elld not be planted in the open ground before the first of Aay, the sowing should be de-
    layed until nearly the first of March, and the process of transplanting in the boxes

    I think these plain, practical and ex pllcitinstructions will come aceeptable to in most worthern loea:itics, all through Sew York north of clty, Ohio, and all
    through the West, middle of February ing the plants.
    ing the plants.
    Tomato plan
    Tomato plants, for carliest use, may also be started now in greeuhouse or hot bed, hut crowding them should be aroided
    at all times. For main crop, March and even April will be early enough to sow

    Orchard and Small Fruits
    Orehard and small Fruits.

    ## gRAPE ROT.

    The result last rear from the application of the Bordeaux misture to grape rines, to prevent rot, was very generruit, and yet a ferr cases hare beeu noted where the good results did not show themselves. One case is that of a grower in Luthersville, Md., who has a rineyard f one hundred aud tweuty-five rines, mbracing fifteen raricties, who suffered an absolute loss of crop frou rot. The
    disease appeared first about the 26 th of ray, and was appareutly continuous from its incipiency. During the season there was au unusual amount of moisture. Bordeaux mixture was applied three any beneficial result whaterer. Such results are very diseouragiug, but the poor effect of the fuugicide ras probably due the unprecedeuted rains, which washed off the Bordeaux inixture. Those who hare a like experience should try again,
    for the benefits have generally been as narked as in this case they were otherise.
    S. L. Allex \& Co. deserve the thanks of all who use a cultirator, for putting a Lever Expander on their "Planet Jr."
    
    the principle of the improvemeut. The ultivator is narrowed or widened instantly by simply pulling or pushing the standing lever. They have also made
    otler improvements for the season of 1890 .

    ## GROWING SQUASHES IN YOUNG ORCHARDS

    Last season I used most of my young orchard in which to grow Hubbard of shading the grouud as well as any erop I know, and furuishes shade only during hottest months of the rear, when it only is needed. I have often maintained tha corn was the best crop for a young orchard since it did not cover the ground untillate in the season and was cut in time to late in the season and was cut in time to
    allow the ripening of the trees. Theu, again, I liked it much better than many other crops, because there was no working of the soil around the trees in the fall, which so generally iends to promote late growth. But as I am situated I can
    get fire times as much money from the squash crop that I can from corn, especial ly since I now have a most exeellent
    squash cellar in which I can keep Hub bards until the first of March, when the al ways bring a good price.
    S. B. G.

    At a recent meeting of the Ohio Horticultural Society, Mr. L. M. Bloomfield disrussed "Apples of Ohio." In order to learn whicl varieties are considered most
    valuable for niarket in different sections of the state, prominent hortieulturists were asked to name three varieties that
    they considered best in their localities. The state was divided into three sections, northern, southern and central
    sult of this rote was as follows:
    In southern Ohio fourteen rarietics were mentioned, Rome Beauty, Ben Davis, Grimes' Golden, Maiden's Blush,
    Baldwin and Smith's Cider leading. In northern Ohio seventeen rarieties wero mentloned, Baldwin, Ben Davis, North ern Spy, Rhode Island Greening, Grimes leading. In central Ohio nine varieties
    were mentioned, Grimes' Golden, Rome Beauty and Ben Daris leading.
    Combining these lists into one for the state, the resnlt is, that twenty-six varieties are named, Beu Daris reeeiving eight rotes, Baldwin seven, Grimes' Golden and Rome Beauty six each, Maiden's Blush fire, Northeru Spr four, Jonathan three,
    Rhode Island Greening, Red Astrachan Rhode Island Gree
    Mr. Bloomfield examined a large number of apples and ascertained the proportiouate weight of seed and total waste, amount of water, etc., in each. 'The following is the per cent of waste: Grimes, Golden, 18; Smith's Cider, 16; Baldwin, 16; Jonathan, 14; Golden Russett, 14; Northern Spy, 11. The water and ash were as follows, as far as determined:

    ## Smith's C

    $\qquad$ | Per ce |
    | :--- |
    | $\ldots . . .82$ |
    | $\ldots$. |

    ## The large

    per cent of ash in Northern if quite noticeable. It would seem in the calculations.

    ## MULCHING ORCHARDS

    West of Lake Michigan, I have reason to beliere the best mulching for young orchard trees is good cultivation. In all cases coming under my obserration, the mulching for four or fire years in succesion tends to bring surface-feediug roots o the top, when a sudden cessation of the practice always results in severe injuryif not total loss-of the trees br root freezing. A frieud living in Nebraska lost a fiue, young orchard by neglecting the mulching of it after it had been continued for seren jears. Iu this case eveu the Duchess and crabs were root killed, showing conclusirely that mulching farored n shallow habit of rooting. And yet, I beliere iu any system of shading the soil during the heated term. We cannot do this by corering the whole surface after the spring cultivation with marsh hay, as is done by some pear growers in New Jersey; but we can do it by annual sowing of Japan buekwheat about the first of July. As mauy are prejudiced against this crop, I would request a careful trial of it in the orchard by sowing half of the land three years in succession with buckwheat
    and managing the other half in the usual

    I think all will find-as I have done -that the half shaded with buckwheat mill, in three sears, show larger, cleaner and healthier trees than the other half, and its first crop of fruit will be more abundant, more uniform in size and excellent in shape and color. I said Japan buckwheat, as, since its extended trial, I
    find it a more certain crop than our old sorts, and it answers the purpose of keeping the soil moist and cool quite as well.
    Prof. J. L. Budd.

    ## INQUIRIES ANSWERED.

    BY SAMEEL B. GREEN.
    Everbearing Strawberry.-S. W., RussellCharleston, Mo., that we have an everbearling strawberry here, which we have named 'Everbearlug, as it bears continnally from spring until late lin the fali. It has been successfully cultirated here for five or six years, and was originated at Mount Tabor."
    Budding in the Spring.-E. M. W. L., Cardington. The spring is not a good time to seasou in order to hasteu srowth. It is not nearly so successful as August bndding. The operatlon is the same as for August buddlug, except no attempt. slould ever be made to re-
    move the wood from the bnd. The buds may be cut in the fall, during the winter, or at any time before growth starts in the spring. They untif the sap flows enough to allow of the bark peellng caslly.
    Varietles of Frait for Canadn,-P. W. Ontarlo, Canada. The Howell is certainly a good fali pear, where it whl grow, but I should think you trcre located too far north for lt. Do ant know the best varletles for your location,
    but am quite conflent that the Russian pears, Dessemlanka and Waxen, will do well with be of much ralue for you. It cldom, if ever, fruits well so far north. The DeSoto, I thlnk on will like It. The Weaver and Forest Garden are also very excelleut matlve rarietles

    ## of the northern type.

    Strawberry Root-Borer.-J. H. S., Jackscribe is undoubtediy the ordinary stramberry root-borer. It is yery destructive to stramberry
    piants, aud also to the terminal frult buds of The peach, when very abundant. The eggs are lald by a moth, in the latter part of July, on
    tio crown of the plant. This soon liatche out a caterpillar, which burrows through the roots and crown of the plant, remainfug in one of its burrows until the following June, When it changes to a chrysais and then to a
    moth siortly after. The effect of the borer on moth shortly after. The effect of the borer on die. If the plant survives the attack of the borer, it is generally barren of fruit.
    Resedy:-There is wo was of destroying Iu planting aner, bet plants from a bed plat is free from this insect.
    Cranberry Culture.-C. A. B., Geriug,
    Xeb., Writes: wh have a marsh on mo land,
    from which runs quite a iarge stream of water from whlch runs quite a iarge stream of water
    all the year around. It can be drained, and
    the water made to run winere wanted. The marsh is covered wili where wanted. the present
    time, and also with flag, bullrushes, graws fud some Wreeds. There is considerable allialli in
    ine soil, but notas much as int the surromindig
    lind
     to prepare for planing the samile, the best way
    to plant and where to procure plants, etc." Reply:-Certainly, the conditionswhich you successful crauberry eulture. Four climate is
    Fond all rlght. for them. In preparing the bed, sou should plan to coutrol the water supplyat any time. The plants are rery cleap, and may be obtained throngh any of the large nurserymen. A better way, however, of securing the plants is to get them from some bearing bed frult. If you are thinking of going futo the bnsiness, you had better send for "Cape Cod Cranberries," by James Webb, Orange Judd can get a detailed iden of the successful carry ing on of the business.
    Seedling Fruits-Gas Lime.-J. G. W same from seed, but the northeru native plums fonnd in Dikota come much more nearly truo from seed lhan the European kinds which are geueralis grown in the midale not come trine from seed, though seediling cherries are more apt to be good than seedling pears. In planting fruit, however; it is never sale to depeud ou seedilings, for thes are unreliable at the best.-Gas lime could probabiy be used to advantage on your land, though this can oniy be told bs experiment. Fresh gas lime is polson-
    ous to regetation, and uothlng will grow for a ous 10 regetation, and uothlng will grow for a
    year where it is applied in farge quantity. I shonld be hauled iu the fall and damped in smali piles on the land and aliowed to remal generally harmless. Tise differeuce betireen this lime and common lime from the kilu is that gas 11 me has been used to prify the gas, ge of harmful sulphuric compounds took from the gas. By exposure, the harmf sulphuric compounds become venefliclal reason of the chemical change which taken place in them, aud the llme and snlphu form a compound analaguus to land plast aud acts mucli the same

    ## 

    leincoin smmmer, and nate the leaves curlnip. Win the

    ## the se le <br> seen leave about

    the trees lonk black mind specked. How ran
    get rid of them? (2) What is the cance of m
    faifure to raise phum and clierry seedingc? faiture to raise phin and clierry seediings?
    froze applie. pear, 1111nt and chierry seeds
    foxes in dampsand, and tife apple and pe
    grew nicely. but not one of the plum or cher
    
    Reply:-(1) They are the apple aphis, or lonse (aphis maln, and may be destroyed by syring ing with lierosene emnision, tolacco water made by stceping tobacco lenves or stems Intil the color of strong tea), or by a stal
    solution of whale-oll sonp. The remedy hare to be applied several times. Thls mer all myy yonng apple trees were covered on
    the new growth with this pest, and we went over them and dipped the ends of the brancines Into a pail of lerosene emulsion. Slls
    cond do very ranidly by carrying the pail the lefthaud and yathering the branclics the right, dip them luto the pall. This for when a syro econge is used much of the liquid is wasted. (Kernsene emnision has offen liccul
    recommended in these colunnils.) (2) Protail)ly
    
    
    
    


    ## (Gur farm.

    ## THE POULTRY YARD

    ## tested layers.

    The hens kept for producing the future stock should be of the best. It is unwise to use eggs for hatching unless such eggs are from certain hens that are knowu not only to be prolific, but which lave shown themselves capable of pro-
    ducing hardy, strong and vigorous offspring. In other words, the breeding hens should be tested. No breeder of anlmals attempts to raise stock unless he knows the sire and dam of cach calf or colt retained, as improvement can only be accomplished by knowledge, and by laving a purpose in view. So long as the
    poultryman uses eggs from the general poultryman uses eggs from the general
    basket for incubation instead of from a basket for incubation instead of from a
    few of his best hens, kept apart from the others, he will be unable to make headway. His future stock may be better or inferior. It will be all a matter of guessWhen the next generation is bred for superiority, however, it will be only one or two seasons before a marked difference will be noticed in the vigor, size and capacity for production of eggs, and as the hatching scason will soon arrive, the
    best hens should now be selected, mated best hens should now be selected, mated
    with a choice male and tested. If they fail to give good results, change them and use others in their places.

    A NEW AND CONVENIENT POULTRY-HOUSE.
    The plan of ponltry-house shown was drawn by Mr. John M. Guion, Jr., Seneca Falls, N. Y., and in his description Mr. G. says:
    structed the sameas in any other poultryhouse. It is 9 feet at front, 5 feet at rear, 10 feet wide, and of any length desired, built of rough boards and siding, with tarred paper between, the roof being of
    tarred paper and cement. The windows are in front, facing the south, consisting of a row of single sash, three feet from the
    sill and one foot apart, with a row of small sash lying ou the sill eight feet
    "The upright part, containing two large sash, is two stories high aud is used as a granary, and incubating and brooding rooms. This part can be dispensed with
    if necessary. The interior shows the valuable points. Two feet above the sill and dry earth floor is constructed a second
    floor of matched boards, extending from the south side to within two feet of the opposite side, thus affording double the floor space under the roof, leaving a space two feet wide for a hallway. In one
    corner of the upper floor is a trap door, through which the fowls go below, the door being raised and lowered by means of a cord and two pulleys, operated from the hallway.
    low the the row of larger windows, behoard, and over this is the roost, the fowls thus roostlng where there ls the most
    forred. Wire netting also separates the peus. The dust bath occupies a sunny positlon near one of the windows on illusupper floor, but is uot shown in the illus-
    tration. The small willdows below not tration. The small willdows below nol
    only afford light but canl be used as slides, to allow fowls to go in or out. The attendant enters the pens by small doors opening into the hallway.
    A house $10 \times 10$ feet should accommodate a dozen fowls comfortably, or even twenty hens (lf house is leopt clean), and the yards should not be less than 10x100 feet. Changeable yards are better, as they can be kept in a clean condltion.

    PURE BREEDS FOR IMPROVEMENT.
    Pure bred ponltry can be seen in every neighborhood, yet lt requires but a few seasons for a flock to deteriorate, unless
    the matlngs. Koep a varlety of food always convenient, wlth gravel, coarselygromnd bone, charcoal and a salt codfish in the yard. Water must be plentiful and always fresh. As the old birds feed the squabs, no feeding of the young need be done by the attendant, but care must be exerolsed in keeping the flock well supplled. About fifty plgeons can be kept together.

    ## CORRESPONDENCE.

    another farmer's wife's Plofits.- 1 saw In the Faras and Fireside of Decemher 15th keepiug pay ?" and thought that my expert ence might answer that questlon, and also encourage some others. I ain a farmer's wife hut was not brought upon a farm, and whell 1 nothlng ahout farm work; but I soon became
    
    sou whl nnd many excellent des!gns sultahle, and wo are
    every lssue.
    Is There Any Money in I1.-N. M. Mr., J., Ausine wis. ,ind writs wis to kinow tr thery ine hen
    boney in it and the breeds to use.. Reply:-The amount of money to he expected depcuds on yonr experience aud man. For your cllmate the Bralumas, Wyandottes or Plymouth Rocks should answer.
    Sintistical.-M. J. S., Frankfort, Ollio,
    writes: "What is the anilual product of tie
    
    uo statistics, as it is im possihle to make a census of poultry products.We doubt if any hreca can claim a superlority In that respect, as each has its characteristlo erits and defec
    
     Reply:-(1.) Eggs need being kept only three months to sell at a higher price. To do so,
    follow thesedirectlons: Use eggs from hens foliow hesedirections. Use ess from hen col place ; turn the eges halfover three time cool place; turn the eggs iall over turee times week. (2.) Yes. (3.) Ye
    Questions about Turkeys. -F. A. HI,
    Warren, Ill, writes: "(1.) 1 sany person hatch:
     Bronze hreed? (3.) Is a male of the Bronze
    hreed, weighing 40 pounds, larger than the average?"
    Reply:-(1.) They can he hatched in incuant wnow of no one who is makin a husiness of so doing. (2.) Carunculated, red head; horn-colored beak; hazel eyes; hronze plumage; blank legs in young hrds, pinkish or feen color in older bira, adult gohhier weigh1 32 pouuds each, standard; youug gobbler, 22 pounds;
    pounds. (3.) Yes.
    A Nutshell of Questiona.-F. M. $\mathbf{O}$. chickens to run at large. care for them well
    and expect as large pirnts as 19 I kept them suggest formy nse. eggs helng mostly songht horn with kood results? (4.) How many hens sliould I keep to expect 40 dozen egys per day
    (5.) How mauy fowls can I keep lua house
    REPLY:-(1.) Yes. (2)) The Leghorns should answer (3) Yes. (4.) If you sear four egg a week from each hen you will do well. It is hetter to expech rewer. Ahout 10 dozen eggs a yoar (whler, sumer and dece you would re ng ) is a good average, hence you would require dally, on an average (5) The house eggs dally, on an ived in apartment 8 yld feet, aud may contain 30 hens

    ## Butter <br> D Color.

    EXCELS IN $\left\{\begin{array}{l}\text { PURITY } \\ \text { PURIGHT }\end{array}\right.$
    BRIGHTNESS
    Always gives a bright natural color, never Used by Used by thousands of the best Creameries and
    Dairies. Do not allow yourdealerto convince you
    that some other kind is just as good. Tell him the BEST is what you want, and youmust have Wells,
    OIL CAKE MEAL. idid Ficies The most healthy, economical and profitable
    of all feeds. Use THOMPSON'S OlL 1 IEAL the best food known for MILCH COWS. It increases guatlity and quanty or milk. Forlattening Bee etc. it has noequal. Write for circularand"Rules
    THOMPSON \& CO.
    POULTRY PAPER
    
    
    
    IMPROVED EXCELSIOR IICUBITOR
    
    MONITOR INCUBATOR,
    Send for new clrcuiar.
    A. F. Williams, Bristol, ct.
    MAKEHENSHEM
    

    ## 

    Froas Missouris-We have a splendid frutt
     ries, blacki berries a
    phanted exteenstvely
    Mlanted extenstvely. We . grow wheat, corn,
    oats, rye, buck wisheett, Irisli nad sweet potatoes. oats, trye, buck clivient, Irsish Is is cheen.
    timothy and clover. Land is chenp.
    Froir Mrssorrt:- In wealth, Jack son counts Is the second In the state. The land is product ite. the water good aud the cll mate heallhy.
    For over torls years there bas not beell an eutire fallire of crops. Ourr principal crops
    are corno, wlieatt, hav; onts and regetiables, all ot
     has the great clty of the West-Kaussas Clity.
    Blue spinings, No.
    W. S. B. Frosi ILLisors.-- F. F., or Creal Springs, did not say ennugh for our connty. It 1t underlaid
    With cunll and mauy minines are being opened
    
    
     Creal Springs, Ill. H. L. From Ceatral Kassas. - We have a beanti-
    ful, undulating pratile country. This part of the state lias suffered grealid from drounhs, grand funtre. Lest season we hatad plenity of
    rallu, followed by tood crops. Last tall
     well. It is a graud place for clickens and Lu Cioss, Kan,
    Frons KANSAS-Prant county is a healthy
    country. Good waler is cissily tonnid by dlg.
    
    
     tlous, and there are slx or eight different
    tinds-some early and some late. Farnuers generally com meine planting corni in March,
    nnd somine and make good corru. Land is clieap yet, but proved up yet can be bonglit for scoo or $\operatorname{ssc} 00$. Interest here now
     farming nind stock ralsing, is ns good as any
    counts tin the state. Crops of all kinds were good last year. Wheat ylelded from ten to
    tirenty-fve unslels per acre; eoru, fifty, and oats sisty. We are too far from casleru markets to make farning prof table witliout feed-
    Ing our corn to loggs and cattle. Thlis counury had a boont four years noo, and farmers went witlont. They paid a lilgh rate of tuterest lost thelr farms and are now renting. Farniers are
    and are sli pping thelr own slocki snd graiu. The order is rumning into politics too fast to be Mayview, Kan.
    H. K.
    Fross Missoctri- -Griss and frults of all
    kluds malie good, klnds make good, average crops. Thls is a fine
    stock country. Alming the banks of the streams there is plenty of bard-wood timber for fuel. of sandstone, under whlth there is excellent Ozark divide, at. an altitude of 1,200 feet above both in summer and winter. Health is good, there belng no swanps or marslies to breed
    malarla. About one teutl of the country is thmber, the remainder undulating pralrle.
    There are no hills or bluff, and the surface soil is geuerally clear of slones. Improved
    farms can be had at from $s 15$ to $\$ 40$ per acre; unimproved pralrle or thmber, from $\$ 5$ to $\$ 20$. gond prospects for the future. $\quad$ F. H.

    Frumarkansas.-I dn not linow of such a
    cotion fleld easl. of Carlisle us described by W. M. In Farmand Fireside of Jannary 15th.
    Some of the cotton on the pralrle inade from 1,400 to 1,600 pounds per acre. From whut I
    can learn from ing neiglibors and frlends, the thats nelghluorhood was 900 pounds, What
    I sald lin December lst issue uf Farm A.s. on the sod, I know from experience. Pumpsureet potatnes do well here. The early crop
    of Irlsh polatoes cannot be kept through the same ground. The secolid crop can be
    kept through the whinter. Sireet potatoes cau be keppt Yery easlly: Milch cows are fed
    un cotton seed and crub grass or prairle hay
    instead of corn and tane haily na fin the Noril Colton seed costs but oile fourth as much as corn, and 18 jnst us gond for producing butter
    ns corn 1s. Tinoe grasses :irc arown here althongh not extensively. Some of the farm ers are ralslug as flue clover. red-top und
    timolly as can be trown thmollyy as can be grown answhere. The he:ilth of th!s section is very good, gencrally.
    Cartiste, Ark.
    From honderas.-I suppose a few hines from Honduras, Central America, would be acceptable to your readers. I have only been
    here a few weels, and have fumb a great here a few weeks, and have fund a great.
    many strauge and curlous things. The loft:
    red clay mountalns are covered with green vegelatlon, and everything looks tike sum
    mer. There is a great variety of pretty blrds. The people look sickly and thin, but 1 whin
    that is mostly eaused of their fitlyy way of living in dirt houses. They Hve chiefly on
    fish, bananas and thic remnants of cassava after the starcla has been taken ont. I see rer intle tide In the occan, and that cery liregu
    lar. This is the ralny sensou: It comolenced Inave haber, and will last ton the first of April. both are in cudless quantits. Out in the inpended work until the rainy soason ls ended. This conntry is filed with valuable woods,
    such as cedar, malozany, cle., whltch larg steamers are carrylng to forelgin conintries Agrlculture is not practiecd here. The nallves
    wIII sonetimes take large linives and clear ap a small patcl. Ther make loles in the gromu with a sharp silck and plant a few
    hills of corn for thelr own nse. They have tent rees, a bread eres, tree or three oralige hiree otlier volunteer varlelles, and about one and one half acres In binana and cassiva, and hard for a taxidermist to come to this country nany ollher things in pripportion. J. B. H
    Truxillo, Honduras, C. A.

    Frost Texas - IIllil county, located in central Texas, is bounded on the west by the Brazos runs directly across the irestern portlon of the rallroids and ficc flourisling towns, besides manys smanter ollcs. This is one of the riches productlon of cotton the past scasou. We of the land is black, wary, and blackl, sandy ioam and red sandy. The face of the conntry
    is le vel. just undulating enought to draln well. It is estimated that more than 90 per cent a linds were better last season than for the pa:
    three or four years, and our pcoplc ure in best of splrits, nad most of llirm will be able
    to go througl the present season williout goiug very much in debt to their merchants. I amm
    glad to note that the farmers of twese parts lave become eonvinced of the importance
    ralsing thelr orva supply of ineat. Some of
    our state papers our state papers bave raised the "how anc
    hominy" cry, and so thoroughly convinced tbe farmers on tbls point that I predict that
    the St. Louis and Kansas Cily packiog lonses will furnish but little bacon to our people in cllmate is very mild, and feedstuffs of nearly In any country I ever saw. Thls part of Texas
    $\qquad$ simarned" cattle and the Muslang ponles. lierds and improving the breeds, free grass
    beiug a thing of the past. Lauds here are worth from $\leqslant 10$ to $\Sigma_{2} 25$, according to quality, improvement and location. Immigrants from
    the older states are welcomed by our people. and treated with a marked degrec of hospi woolly" dispositiou that used to be ascribed the Texall necd not be feared any more Hubbard, Texas.
    Froy Califorsia- -The topography of Cal
    $\qquad$ to forelgn populalion. We are blessed lin the rapid hinsportation. I have sust been read
    hng the "Hlstory of the Donner Parly." by C
    F. McGlashan,
    
    $\qquad$ melody of song resolnded hionglint. the
    camp. At Forl. Bridger the train Neparaled, the greater portlon golng by Fort Hiall, and dlstanc captaln of the tralu, aud from this time aul
    was known as the Donner party. The ronte
    was mhmost mpassuble; many of thelr oxien
    were ston were stolen by the Indluns, and some of the men had to walk untll thelr feet bursted. and hauston and starvation. At lengtb they reached the base of the Slerras, but winte comlny on, they could proceed wo further, so they erected cablus and prepared to remuln untli spring. Here they were completely
    burled benealh the sunw, whin steps were cut to allow the occupiuts of the cablus to ascend to the crested surface. Provislous gave ont, and mauy of them died of starsatton helr moccasins they becoulrlugs. The hilde of ammals, whly they had use to cover thei cabins, were boled and eaten as a luxury Finally they were compelled to sustaln life by eating the bodies of the dead. Feeling that all would certalnly perish if they remaincd ogether, a company of fifteen started over he mountalns to scud back relief. Snow
    thoes were made by sawing inp ox-yokes, nud wo Indians accompauled them as guides. The Iudians refused to eat hmmnn flest, and they One of the paits then took his gun. shot them is they lay upon the fnow, aud stilpped thel chit back to the cabins, and forty, telief was the nlnety were brought throunll to Califoruia of whom trenty-fle ure still living.
    What a contrust ls this with the experienc country. They traveled In warons drawu b oxeu, we in o Pullman palace car; they wer exposed to savages, starsatlon and death, had our lonch-basket, supplled whth thic raching the Sicramento valley, we entere the same fertlle region in a period of slx days ur trip; wen the tudians were at pace who us, aud and us srapes, peaches and meluns a the statlons. What a wondmus change has from Independence, less thun half a century gin. Dut Calforniat is a great state. He Unlterl Klugdom of Grcat Brlanln and Ireland It contains forty milllou:acres fit for the piow and as much more for stock ratising and from which are capable of producing amazling quanmitles of superlor meat. Our ritate is
    destined, in due process of time, 10 become

    We lanpy home of millious of human belngs.
    We have read of ment und cattle in Colorado belng frozen to death in a bllndlng suow storm, nenrly two montlis ayo. Up "1 December 25 th we did not liave cold enough in this latlude to chlll the sensitlve tomato vine. mmlgratlun is pouring Into flils state from he East? I myself have compassed ber entlre orders, from San Franclsco to San Dlego, on hatnral resources of wood witer soll, minerals and scenery, I belleve she stands unrraled by the whole sisierhond of sintes. There $1 s$ an aken; many who lave occupied ineir clatins for two or three years will sell out for the hemsetves hin some ntlier localily, and gnod opportunltips rire offered in lindiriduals and
     market every month in the yenr.
    
    
    
    $\qquad$
    $\qquad$ flowers Mid
    BCCKEYE.
    
     Accept any offer we muke n2 this paper
    ani yuu will get ropy n
    picture free. See page 16
    
    

    ## 

    
    

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    W
    
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    (1) If firtsille.

    ## alr lady, on this day of love Byy splrit, like a timld dove, And nestles on thy gentle breas Thou seemest of my life a part, A hannting presence ln my heart, A glory in my day-dreams brlght, in angel lu my dreanis at night; A vision more of henren than earth, Eoft, lorels, beantifnl, divine- <br> l're looked into thy deep eses oft. Where hearen seemed sleeping, blne and soft re gazed on all thy beants long 're listened when thy deep words came 're marked thee smile, I've marked the I've blest thee in the honr of sleep; I've felt thy heart beat wild to hear Lore's cadence stealiug ou thine ear And I hare bren snpremely llest When thou wast folded to my breast, Then thou rast folded to my breast, And thy dear lips were pressed to mine nt wit thor be my valentine Dove of mg spirit! gentle dove, To me when waters rast and dark Are tossing wild beneath my bark. Sweet queller of my bosom's strife, Blest hannter of each thonght of life, Deur brighterer of my sonl's eclipse, nltana of my longing lips, Young Naisd of my soul's deep streams, Bright rainbow of life's stormy das, Lone palm-tree of miy desert way, Toung song-bird of $m y$ spirit's Ir star whei all bera dim, is hope, my hlles, my life, my byn, My all on earth, my heaven above On lightning pinions, wild and fr 3y panting spirit fies hips at thy burning shrine

    ## A Bartered Birthright

    aromes ramenum fris
    

    ## fon

    ealoneand wanted to be alone and think orerlis position. He ralkrapidig out to the sub
    urhs, ind struck into a country road. The
    niglat came on slowly niglat came on slowly
    as he went on; he did not heed it, nor the dis-
    tance between himself and his home.
    Only a few hours more than tweuty-four had passed since the first threatening shadow of the shadows bad heen gathering dark and deep. He had begun to look with a certain enmplacency upon Genrge Barnard's knowledge of his irregularitles. The soung man
    was in love rith his daugliter, aud he could Was in love rith his daugliter, aud he could
    trust to his assurance that he would not hetray him. Some uneasiness had arisen ln his tray him. Some uneasiness had arisen in his mlnd on account of Barnard's words and
    manner as they had walked together that erening; but still they were not threatening. Whatever mlght happen in that quarter, he Fas sure that he need feel no alarm. Time ded that no sudden acensation would come from the bookkeeper; he hoped none at all. But the letter from hits whe-that filled him with fresh tremors. He was a trifle surprised, but not in the feast agitated hy lier declaration that been the only announcement of the letter he wonld have dismissed the sublect from his mind at once. Madam might live lin Scloga, Indianapolis, or where she pleased, he was in different, so long as no public scandal rose from the fact. The only part of the whole
    letter that strongly impressed him was that letterthat stronglylap to the detective. He saw a danger here that was alarming. His wife's cautlon as to What might happen from this person's
    greed and venally touched a sensitlve chord. greed and renallty touched a sensitlve chord.
    He did not recall thie man, but hls wifc's deseription of hin tres man, but his wifc's description of him wris not reassuring. He
    might do incalculahle mischlef by sceling to trade elsewfiere on lils informatlon. Or, if he pay hush-mones, to pathimself in this fellow's power?
    "After all," Mr. Ncwbold reflected, summonway to treat these things is in face them down. Suppose it can he proved that I have spent
    nome nights with the gamblers, what of $1 t$ ? Not a pretty accusation for me to face, to he sure; but worse things than that lave been lived through. Great Scolt! But it would create a sensation In the board if it were known, and
    then it might eaally lead to an inquiry-"" then it might eadly lear in an ingury-
    Here hls thonglits stopped. A dozen times he had tried to reason out this conthagency balted at the point where susplciou led to ln-

    ## estlgation an could not go. <br> He paused in hls walk. He had reached the summlt of an elevation, three miles from scioga. Dusk was giring way todarkness. He could dimly make out the outllne of the town below him by the thousand llgits that twinkled from lt, while an electrle fiame shot up here and there. <br> "I don't thlnk I'm ready to give all that up, yet," he muttered. "

    stay and brave it out
    From the darkness of the roadway he saw a figure emerglng-the flgure of a man. He close to him that the latter jumped hack close to
    angrily.
    "Fellow.
    "If you put do you want?" he exclaimed sand dollars."
    The cold chills crept down Mr. Newbold's splne. The man was shably in dress, rude in speech, and had a coarse face, now that a sight of it could he bad. But he did not seem like a
    highwayman, for nelther bludgeon nor plstol were in sight
    "Do yon mean to rob me?" Newbold asked.
    "Why, no, I helieve that's not what they call 1t. I'll introduce myself; you may hare heard my name hefore. It is Saul Budd.
    The cashier started, remembering his wife's
    postscript.
    $h$, I see you hare heard of $1 t$. I guess we can come to terms pretty quick.
    "Fellow, what do sou mean?"
    "Oh, come, now, Mr. Newbold, dou't pnt on any frills; it won't do whlth me. Either you pay get as much somewhere else for bowing on 5on. I guess yonknor well enough what I mean."
    There was no immodlate reply. The would-
    "There is no money in the honse."
    The man sald it just as coolly as he rould hare asked the tinue of day. Mr. Newbold was in a transport of rage. "Now, don't excite yourself, sir," said the blackmailer. "It'l he a great deal hetter for sou to take this thing cool. Of course you keep money handy
    to go off uights and gamble with. That was only a guess; hut I know the habits of such meu as you. What do you say?"
    "Come along," was the hrief reply, and Mr ny the hlackmaller.
    In the same hour the humlliating transactlon Which pat the cashier in the power of thls
    mau was consummated. Budd waited outside mau Fas consummated. Budd waited outsid disappeared. Half dazed, Newbold re-entered the bouse. He had not seen his danghter a this tlme; If he thought of her at all it was With the ldea that she had probahly gone to bed. Exhausted in mind, fererish in body, he lay down upon a lounge ln the lihrary and
    He was arrakened by the sound of voices. The room in which he lay was dark, hut the door was ajar, and he saw that the hall heyond was liglited. Violetta's voice reached hls ear and that of a man. He listened. It was George Barnard's.
    "Going away." she sald, with surprise aud grlef. now: it lis I must. It is hard to leare here knew everytilng you wouid not blame me." "I know too nuch, George. I wish kind heaven had kept from me the knowledge of some dreadful things that have come to me. o George, you must stay 1 I can't bear what hare learned without yon to help me hear it.
    Tbrough the half-opened door the conceale
     be blackmatler gave hls victima momeat to
    thllnk. "I "Yon can get a thousand easy enough in "Have yon been following me out here to. ${ }^{\text {night?" }}$ "To he sure."
    "What for?
    The man laughed
    "Why shouldn't I? That's my business. I're
    been followlng you 'round a great deal lately for-for other folls. Just now, I'm looking after you on my own account. I hardly
    thought you was up to taking French learethouglit you was up to taking French leare-
    not just yet ; but there's nothing ifke keeping your blrd in slght. Are you going to pay me "What if I refuse?"
    "I'll go straight to old Barkley. I wouldn't waln morning. I'd go to-night. If the old you, sir, people do take a good deal of trouble when Saul Budd calls, for he's always got something to tell, if he's a mind to tell it. He things. So I'll say to old Barkley and hils night-cap: 'Nice man you've got for cashler of your bank, now, haven't yoll?' 'What do you mean?' he says. 'I mean he's lost more than twenty thousand dollars of the bank's money in that den up in the Industrial in the
    last four months.' 'It's a lle,' says he. 'It's the truth,' says $I$, 'and for a thousaud dollars I'll prove it to you.' A nd I can prove lt,
    "Slop!" groaned the victlm. "If I glve yon What son ask, will you promise to let me alone for the future, and to say no more abont
    this?", "Why, of course," answered Budd, wink. "I'll hand you the money to-morrow." "I'linare and whell?"
    "On niy way to the hank. Meet me just this side of my honse, a little after nine."
    "It won't do, Mr. Newbol
    "What do you mean?"
    "I know what I'm about. I've putit In your power to make a complaint against me for attempted blackmall, and have mearrested, if you rere hardy enongli to try it. I don't
    think you wonld, but I'd ratier be safe. I'll walk home with you to-nlght, and you can get walk home with you to-nlght, and you can get
    me the money."
    half-opened door the concealed
    

    Ilstener saw her shapely head droop to his shoulder and his ready arm support her.
    "If I only could, V'l! But mercy to pity for your fatlier, urge me away. You don't want anything ili to befall bim?"
    "No, no! Poor father-mothergone-O God,
    What am I to do? When will What am I to do? When will you come back?", "Soon, I hope. Things can't go on long as they are going now. Dear Vi, keep up your courage. If the worst happens, write to me, tlme, I dare not stay here. For his sake dare not. There is a little place I know called Lewiston, on the river below Nlagara Fulls. I will write you from there, where I sfiall stay a While. Don't fall to write, even li nothing strange should occur. I may be back before the summer ls over: who knows?
    He heard a sound, and ralsed
    He heard a sound, and ralsed his eyes. Mr. Newbold stood in the doorway. Violetta also saw hlm, but she hardly started from her
    lover's arms. "You appea
    IIstener sneered, "dolng the yourselves," the llstener sneered, "dolng the agreeahle to each other and slandering the absent. So you ar
    golng to leave very abruptly, Mr. Barnard?" going to leare very abruptly, Mr. Barnard?"
    "That is what I canc here to tell you, sir was the sturdy reply. "You have heard your daughter speak. I believe that slie has in som way learned nuch that you would shrink to have her know. I need not hesitate to speak before her, though she has as yet fienrd nothing in the was of facts from me. Sir, don't you see that I must go? Don't you see that my dally presence there will be a reproach and an uneasiness to you? And how, I will ask yon, can I stand at that desk day after day, with that in my breast which my simple duty Would compel me to revcal to the directors, cerns you, Vloletta's father. No, I must go
    from Scioga, or go crazy. I cannot walt an not, sir-since I am doing so much for youwhy yon not in some way explain and excuse name that I have wrested from the plt wher you threw it.
    merely nodded a spoke not He upon the mind of the tad man as he he heara Barnard's words. Ouly a posslallity; it would do to think of.
    The mau no donbt lored his child; yet what love ls so high and so holy that it will not be crusbed down before the greed of gold, the and a sob-the Hosing of a door. and a sob-the
    alone wlth her.
    the fne said, sternly, son told him tha come to rou. What did yreadful thinge bad Her eyes were tearless now.
    paper from her pocket and hianded it to hlm. It was his wife's letter.

    ## Chapter Vill.

    ## overy scarce-

    slock. The loours of late liad hroughtbim so mans snrprises and threat that one more was wilh dismay. He thought quickly, as men of bralns do
    in such sudden, startling situations, and be truth the tlme had come when the Whol wris necessary in reasons that he at once proceeded to unfold to her. It would be painful, but it must be done.
    He crumpled the letter and enrelope and beld them iu the gas-fet till they were consnmed. "It would be a fine revenge," was hils unspoken thouglit, "if her cnol and heartless writing should betray me to all Scloga. I'll destroy that mlschief make
    claspedta sat and watched blm, her hands dlstressfully inquiring.

    ## asked.

    "Yes, you had gone. I I did not supencet after anythlng private ahout it, hut when I began read i, 1 couldn' stop."
    Oheying a sudden impulse, she went to
    and Joined her hands upon hls shonlder
    and Joined her hands upon his shonlder.
    "Ponr father!" was all she could find voice to say, but to that storm-tossed sonl it spoke volumes. He ylelded to the caress, and for a moment was sllent. He looked fondly nt her. me?" "And leave Scloga?"
    "Yes. I'm sick of the town and the penple By and by there wlll be ruwiors going nbont tostay and hear the fles and the gossip that will be told. You won't gire me up, VI, will

    His volce trembled. For answer she stonped ann lissed his forehead. She remembered all his kindness.
    A flash of snnllght for the moment illnmined the darkness that was gathering aronnd him He rent on mith something like cheerfulness,
    "Yes, we mnst. leare here. We've got nothing to slay for, and, in fact, lt's necessary in go. I want rou to get a few things read right away-to-night. You see, it's impossibl to tell how soon or how suddenly we may Te can go. You'll only need a carpet-sack He began to talk with the intention of tell ing her all. As he went on, he shrank from qualled before those pure, trustful eyes. His vague expressions surprised without at firs alarming her. She looked Fonderingly a alarm.
    him.
    "In
    "In Canada?" she repeated.
    "Yes. We might go to Toronto, first, then to Minntreal and Quebcc, and yon can see whlch ron like best. We shall have means enongh we can live anytrere. And in Canada I shal be perfectly safe.'
    him thought that had heen conslantly with hlm for the last few hours pu
    almost without his volilion.
    Slie siarted somie of the strange thinga iu She started. Sonie of the strange things iu the destroyed
    new meanling.
    "And George can risit nsover there, if you Wish," he added, hoping to turn her thonghts into another channel. In rain; she had the ker at last to much of
    had not understood.
    "What have you to fear?" was her plain questlon. He could n't evade 1
    , fon must know the whole trath. want you to go with me, and yon liave a right to know crerything. Your mother, in that ietter. repraches me with belng a gambler. It
    is true; I say it to my shame. I began playing for excltenient. I kept on for galn. Sometimes I won, sometlmes I lost; but on the I have lost money that did not belong to me."

    ## He stopped, hoplng that she would not press

    "祭. Tho hope was vain,
    "The money of the bauk, or of people who had deposited it there."
    "Can't you give it back?"
    "Inpossible. I haven't got it ; I don't own "Wh min, there is a whole drawerfui upstalrs. Why don't you take some of that to make good what sou have used?
    "That is not my money, either. It came from the same place. Besides, we shali wan t tollve on in Canada.
    She comprehended his position at last. She knew that her father was a thief. But she dld not shilnk
    daughter.

    ## "Father, give it back!"

    "I can't. It is useless to try. I lack thousands of dollars to replace what inave taken,
    and they can put me fu the state's prlson for what I have donc alrcady,
    Her face was marble now. The two, in the agony of that moment, looker strangely allke.
    
    other generatlons ran ln her veins, splte of the corrupted currents through whlch it came to crying out to her father, but shie resolutely hushed it.
    "I can't go with you," she sald; "I can't-not
    "You don't mean it, V1? Why mot?"
    I oan't consent to live on money that has outhav, In Camada or anywhere clse. I do so plty you, father, but-but-O Gnd, help me Her arms were around his

    ## obbling on hls shoulder.

    Notin all the devlous ways that he had thes far walked had he known the keen auguish of that moment; not in all the weary years that wise. He could look into the future a few days (It might be hours) and witness his own dread ful tall. He comd anticipate the scorn, the re proach that were to be visited upou his name. He saw the telegraph burdened with the report of hls crimes; he heard newsboys bawking it in every clity. All thls conld be, must be borne; but to bear the mild reproach, before her as a thlef-ăh, that was hldeous! That one bour gave more gray to hls halr. He must glve her up
    He thought of
    voman. She had ever been his as glyl, as a ing. She had beeu the one gleam of sunshine u that heartless home, with its cold iuxury not to death, not to a lover, but because be had himself put a gulf betweeu them that she "uld not cross.

    ## thust be."

    "I must say all I wish to say nory, and this bear it. Your be repeated, for I cuuld no house is hers; so is the furniture. You are not llkely to be distarbed herc on account o ou whll find a roil of bills, all honest money: ou as to your futurc. I have no right to desert you ; sone to whom I have done great favors in the past wlll now, I hope, rememthis is all. Let us not prolong the pain of this parting. I may ncver see you agaln. I may I shall go swlftly and sllently. Think sometmes of your unhappy father. He has always

    They torc themselves apart. The man's etter nature was stined. Again he was cold, He ascended to lifs orrn room. He was not yet ready for flght; he hoped to have a day or wo more $\ln$ which to perfect his preparations, hour. He thought of Saul Budd, and ground his tecth. "Damn hlm!" he hissed; "I'd llke o put a pistoi-ball through his heart. Fors for a tlon and trying on of a disguise. He looked at hls watch; It was only eleven. The old
    struggle. Ife took a large roll of bills from the drawer, exthngulshed the llght, and softly let himself out of the honse.
    "It may be the last time," he inuttered, as he tralked rapldiy aloug the deserted streets. hope it will be. The straln whll kill me."
    Daylight found hlm still at the gaming aight. He was a heavy loser. On no slngle hight had ho lost so much. He whlshed to begin hls fightat once, but thought it better o wait for the might traln. And howlshed to desk that he inust destroy.
    Vinletta had goue to a sleepless couch, pray ing for him.

    ## Chapter IX.

    the impending blow.
    To have entered the bullding eariy; to have becn found by the danitor or the serub-wonian
    sitting at his desk destroylng papers, might havo excited remark. Ife dared not venture upon that, any more than he dared take the risk of enterlng and leaving agaln bcfore the bank was open. Ho wished to have n might between him and discovery-discovery which meant pursult. Those unlucky papers in his fore? Now he must walt a few hours longer with the shadow of saul Budd haunthing him,
    and the possibllitics of new danger In walt. and the possibllitics of new danger in walt.
    He went to a restaurant, bathed his feverlsh hearl, made a carefui toilet, and ordered his breakfast. When it was brought he tasted of lie morning paper. A columin with displaved heads cauglit haper. A column with displayed heads caught his cyc. He read: Another of Boston. A Bank Clerk Skips with Forty Thousand!" He heard two meu at the next table discussing the news. He could nor read the partleulars, for hils head was dizzy and his eycs werc misty. He held the paper so that comments. One sald it was curlous to notlce how these terrlble breaches of trust were other sald yes, he belleved the West was safer on the wholc. Scloga had a proud record for commerclal honor and fidelity, No. 1 conspeclally, were absolutely safe. Then the conversation gilded off to toples of buylng selling, borrowing, lend hing and speculating. He was at his desk when the teller's window
    was ralsed. He went through the plgeon-holes, cullug out letters and folded sheets, whlch he thrusinto his breast pocket. A mant soose to and made a wheeled about and saw Saul Budd.

    What do you want?
    "Oh, nothing, Mr. Newbold, only to pass tho The das. Glad to find you here." went out. IIe had remlnded Carson Newboli that he was $\ln$ an unrelaxing grip.
    Eleven o'clock came. The cashifer was rest-
    impatient within; outside he was cool, polite, qulck and correct as ever. His eyes
    were often turned to the clock. He wished the hours were winged; that those tardy hands might point to three, and bring him his re-
    As uoon approached, Mr. Barkley left his private office upstalrs, came down in the
    elevator, and waiked leisurely through the banl.
    "Good-mornlug, Mr. Newbold," his deep and hearty toues boomed out. "Hope you're well,
    sir. No, by George. you don't look so very well, ueither. You want a littie color in your
    
    "I'll Destroy That Mischief-mafer,"
    ace, Newby-a little more bcef and ale, and a
    There happencd to be a lull in the ordmary business. The president of the Securlt leaned on was in a complacent humor. He "Guess I'll go into the parlor and read the paper before I go out and get my snack. By the way, Newby, how's young Mr. Bookkeeper gltthing on? Any more fuss
    "No, slr." Tho
    bim that moring He lotved ther of hls place. "He was here yesterday, sir, but don't see him here now."
    lump here jet? Why; the devil, sirl It's after. I wasu't allowed to waste the tlme oi
    my boss no such way when I was a young
    eller, now, I tell you. Jest find out li ho's sck, Newby. Better slek than tardy." The cashler beckoned to one of the cleris. "Does not Mr. Barnard board at the same "Yise with your, Mr. Hill?
    "Is anything the matter with him "I don't know, sir; I have not seen him thls mornlng."
    The clerk hesitated.
    "Out with itl" Mr. Barkley crled. "There's "I heard at the housc that he didn't come ast nlght. I hate to meutlon it."
    "Well, I'll be -, Newby! I ghess you was lght about that feller, at fust, whatever it was you thought of him. If he don't - "o ng Mr. Barkley. Fine day. I've called for It was time, now, for the cashler again to weaken and blench, but he never quivercd. He ugged at hifs vitals.

    Ir. Hill," he sald, "pleasc look in the iuner
    

    DISAPpointed Depositors and OTht
    alre ginowing Suspicious.
    vault of the safe-chamber and bring me "Bage marked with Mr. Skelton's name." "Big, yellow seais," the applicant added ident, who stood carelessly llstening. "Tel thousand. Might want to use it any thine mlght be months. I've never got user to "Or any oiher man," sald Barkley, with reat man had made a trie joke hinc inse o morderatel. A Aother.caller was now heard.
    "Hello, Newbold! I've cone at last for thos
     The vuess rure tugged agaln, sharply and lerk to find that package, also. He could find nelther, aud he so reported
    Wlth an exclamatlon of assumed linpatience
    Ir. Newbold entered the great fire-proo vallt, searching for what he knew was not
    here. He camc out k teu niluutes, perfectly "ol and unruffled. "Very slngular, gentlemen, but by no means our packages. Thlngs will get mislaid, even
    he mate they are some where in the safe or the vanlt, I'll liave both
    places thotoughly overhauled 1 mm medtately Come agaln to-morrow, and you shall have
    thein. Such matters are under my spelal charge. Don't be alarmed. Nay, ten clonder
    Thee inen sowly wlthdrew, with clolder
    faces. They stopped on the corner outslde to talk. They talked so earnestly that a man,
    tholl another, jolned them and were permitted o liear What they were conversing and
    gestlculathy about. Mr. Marsh aiso stopped
    Istened and talked. nstened and talked.
    MIr Barkley sared, speechless, at the cashier
    The latter calmay returned hls store. "Why, good God, Newby!" the presldent
    asked, lin whlsper, "you don't thlnk there's asked, in a whisper, "you don't thlnk there'
    anything wrong about this-donou?"
    "I hope not, slr. I tried my best to make it appear", to those gentlemen that there was not Mr. Barkley mopped his face with a vast
    breadth of handkerchlef, and his great bulk trembled with nervousness. "Make another search; turn the place inslde out. Find 'em, Newby-"" the calm response
    "It's nseless, slr," was
    "That money" and those loonds are not there They have been abstracted." Lost, here, with us! I can't thlleve lt! Why-why, what's
    be done? Who d'e suspect, Newby ?"
    The cashier was capahle enough nf lyln With spoken words, but a simple motlon would jerked his thunb over hls shoulder toward Genrge Barnard's place.
    "That boy! "Mr Barisley gasped. "Could he
    eet to 'em? "It is possible, slr. He mlght, hy watching
    his chance. It looss as though he had lmhls chance. It looks as though he had lm
    proved lils ime slnce we took hlm liack. But
    his stargers me. Inever thought-",
     ton to bottom; we'll find nut how much of thls
    deviltry there ls. I'th call 2 meellng of the
    directirs ; I'll get an expert; the books must
    be nverh
    "For heaven's sake. Mr. Barkley, he calm;
    on't do anything in haste. We mnst He paused. Mr. Barkley was staring at the nole ter the same way. The spare In fronto he teller's wlithow was filled-crowred with finhelr hands, struggling, nrging, almot lie saw the side watk throngen. The street halt
    ocupled with more men. The great. plate
    glass panes were partinly dawselued by the glass panes were partinlly darkened by the
    boys wino cllmber up on the shoulders of
    others and could thus see over the iron lattice
    to the money on the counters A the money on the counters.
    A ou the security bank had begun.
    
    
    $25 \%$
    $5+5=:$

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    Pa
    Anivisisinisin fin
    

    CHANCE FOR ALL
    
    
    
    

    ## ©IIT: flouspluth.

    ## when the baby came.

    off
    ays in the house there
    WHY in the house
    and contention-
    ittle sparks of feeling flashing into

    flame, | flame, |
    | :---: |
    | Signs of |

    Signs of irritation,
    So sure to malke occasion
    For strife and tribuiatlon-til the babs came.
    All the evil sounds, full of cruel hate and rancor,
    all the ang
    All the angrs tumult-nobody to blamel All were hashed so s
    Disappenring fleetly
    Or quite completei $5-$ wben tbe baby came.
    Faces that had worn a gloomy veil of sadness Heartsintent on seeling for fortune and for

    Once again were llghtened,
    Once again were brightened
    And their rapture helgbtened-when the babs came.
    All affection's windows opened to recelve it,
    Pure and fresb from hearen, and glve it Pure and fresb
    earthis name,

    Claspiug and earessing
    In arms of lore confessing
    That life had missed a blesslng-till the babs came.
    Homes that were 1 ln shadom felt the gentle
    sunshine, sunshine,
    Sniliug, as if anxions their secret to proclaim;
    Grateful songs were swelling, Grateful songs were swelling,
    Of mirth and giadness telling,
    And love ruled all the welllng, whell the baby
    came. came.
    Hearts that had been suudered by a tlde of passion
    Were again
    Were again united in purpose and in aim In the haunt scciuded
    Where discord had intruded-till the baby came.
    Little eloud dispeller, IIttlc comfort bringer,
    Baby girl or baby boy, welcome all the same girl or baby boy, stcleome all the same Even oer thi embers
    Bome fond beart remembers-when
    came. $\qquad$ HOME TOPICS.

    $\Omega$acarosi- - A sinple ana easy way of preparing macaroni is to break it in riccessabout an inch long and
    throw it into two quarts of boiling water with a tablespoonful of salt. Let it boil rapidly twenty or
    thirty minutes, and then turn it into a colander to drain. Put a teacupfol of milk or cream into the satuce-pan, shake in a trifle of red pepper, and when it boils, previously mixed with a little cold milk Add a tablespoonful of butter, and return the macaroni to the sauce-pan and stir cheese may be added before the macaroni is put back in the sauce-pan.
    TEA-MAKING.-It is almost impossible to teach the arerage servant girl to make
    good tea. In the first place, she will let good teakettle boil until all the life is boiled out of the water. If you are fortunate enough to have a hot-water tank on the store, she will almost invariably fill the
    teakettle from that, instead of putting in fresh, cold water. Then she will some times make the tea a half hour before it is to be used. Sometimes it will be boil and instead of a delicious infusion, you will have a decoction not only unpalatable but infrious.
    To have tea at its best in flavor, the poured on the tea the moment it boils. Have the teapot perfectly clean aud hot, put in the tea-a teaspoonful for each Set the pot ou the back of the stove where it will be hot, but not boil. Fivo or six milutes is long enough to bring out the "cup that cheers, but not inebriates."
    Corrs.-A friend recently sent me the following simple remedy, which sle says
    has given har such counplete relief that has given her such coumplete relief that
    she wishes ceery sufferer with corns to know of it. Soak the feet in warm water hard skin as possible; then put around the toe a strip of surgeon's adhesive plaster, sufficiently wide to entirely cover the
    corn. Wear the plaster until it conies off or wears out, and then rcpeat the soaking and put on another plaster. The phaster
    can be bought at any drugstore, and five can be bought at miny drugstore, and fir
    cents' worth wiil last a long time. I
    must be warmed before applying to the indeed, it is, but some of the results procorn, and it will then adhere very lirmly. duced are certainly very beautiful, and Traning Hesbasds. - Don't let this heading induce you to think that I have discorered any plan by which wives can train their husbands. It is the boys, the husbands of the future, that $I$ am think-
    ing of. We hear a great deal about industrial training for boys aud girls: about business and professional training for both, and something about girls being
    tanght domestic economy and all the arts and sciences which make a gool housekeeper, but I lave heard very little ahout boys being trained to be good husbands and to do their part in making liappy homes
    It is a proverbial saying among all women that husbands hare no adequate idea of the work which a housekeeper must do, and consequentl 5 arc careless of the extra work they make for her. Would this be so in the next generation if every mother would begin with her ithe bors belongings, and to wait on themselves? Sot only this, but teach them to help mother in crery possible way; to leep the wood-box. filled with wood and the
    water-pail with water; to save mother's tired feet by going upstairs and down cellar for her. Let him put up the clothesline, turn the wringer and empty the tubs on wash-day, as soon as lic is old enough. He will be proud to think that lie is growing strong enough to do these things better than mother. Be rery sure that ou show your appreciation of cvery helpiul act, and let him see that you look to him for assistance.
    Bors are not naturally selfish, and every mother who has not a willing, efficieut helper in her bor, is herself to blame, and not only must suffer the consequences of will have them to bear also. For your own sakes and for the future wives of your boys, spare no pains to iunpress upon
    them the magnitude of woman's work. After they have bcen accustomed to helping in all the ways ther can aloout the house (and there are few things they will not be the better for having learned to do), hey will not think housekeeping is "just puttering around." Teach them that the looks after the comfort of her family in every way, earns as much as the man who furnishes the money part of the partner ship, and they will be ready to do as I
    heard a boy sar not long since: "I shall give my wife half of all our income to do with as she likes," instead of asking what she had done with that last quarter he the money and she and her children spent it, as ono poor wife told me was the way her husbaud did. Begin to train the hus-bands-yes, and mives, too-in their child
    hood, and no one will ask, "Is marriage a failure?" in the next gencration.
    a McL.

    ## LAVA WORK.

    A ners effert in decoration is called lava Work. It is produced by the use of a
    peculiar paste or cement, which is soft and sticky when first cxposed to the air, bu soon hardens, and in a day or two becomes very lard without being brittle. It adheres firmls to wood, glass or other rarious purposes. It contains no oil o turpentine, has no uupleasant odor, and requires no mixing or preparation;
    therefore convenient and suitable ladies' use in home decoration.
    applied with a pallette-linife in sort of "go-as-you-please" manner, taking no pains to smooth it, but rather to aroil rough as possible, its beauty being, to a certaln extent, like that of the Sky terrier-dependent on its ugliuess.
    After being applied in this way, the paste is allowed to dry for a day or two,
    and is then decorated with bronze colors, such as are used for lustre painting. First, paint the wholo surface in a dark-colored bronze, as, for instance, a dark blne-green, and when this is dry, touch up the higher projections with gold or copper, and the work is finished, the effect depending considerably on the tasteful combination of
    colors.
    This secms a very simplo proeess, as,
    duced are certainly rery beautiful, and antique vase or jar ther have been admir ing was made from a cominon glass hottle at a trifling expense, or that the picture frame they noticed as so new and odd, was, in fact, a rery old-fashioned, com-mon-place affair, which owes all its present beauty to the work of an hour or min

    Fig. 1 shows a common glass bottle, ered with the lava work and ornanent -
    
    ed rith ribbon. Of course, in a wood cnt, the effect of the bronze painting is lost. Figs. 2 and 3 show two panels, one round and the other square. They are made in white wood, with a wide, beveled edge Thich is.corered with "Tesurium," or ava work, and the picture in the center painted in oil or water colors. These panels may be obtaiued in many sizes. Any lady writing to me with her fall address, and sending return stamp, I will answer any questions. Eri M. Nilles,

    ## 8 Allston St., Boston, Mass.

    ## SPRING SEWING.

    After the holidays are orer the houseEeeper settles down to her regular work, which has diminished greatly as compared with either fall, spring or summer rork. The children are away at school, and the shortness of the days makes the preparing of three regular meals unnccessary, a midday lunch being quite
    sufficient and requiring much less time. During this slack season is a good time to do the summer sewing, such as making up underclothing, everyday clothing and bed-linen. Indeed, many of our best housekeepers make a rule of having all their summer sewing done during the
    
    winter or early spring mouths, except their bese dresses. Fashion changes so often that it is best to wait with these until summer. For underwear it is not so
    important that we follow fashiou's caprices.
    Many ladies prefer unbleached muslin for everyday undergarments. It has several things to recominend it-it wears better and is inueh softer than bleached muslin; it can be bleached by the dews
    and rains in May in short time; it does
    not turn Jellow in washings A good plan ments at once. The seams and facing may be sewed at one sitting at the machine, and the bntion-holes and general finishing mas be dolle at ant time Unbleached muslin is also to be com mended for bed-linen for common us. It always pays to bus the best muslin. Underclothing, bed-clothing and table linen ought never to be let get low in stock; one nerer knows when an extra supply will be needed.
    Always add at least one pair of sheets and two pairs of pillow-cases to each bed erery rear. In making up sheets and pillow-cases, don't tear the muslin. Al ways fold it erenly and cut it squar across. Otherwise, your sheets will not rold squarely, and your pillow-cases will be biased. This sanne rule applies to table-linen and crash.
    Before nakiug up cheriots into men's shirts it should be shrunk; this is done by wringing it out of hot water. Dry and iron sinoothly. It shrinks so that unles some precaution is taken the garmeuts often have to be lengthened at the sleeve and new collars and wristbands must be added after a few washings
    For kitchen aprons, all things taken into consideration. calico is best, if there is any best. Cheap, cheviot fades so that after a few washings it is unfit for service. The ginghan sold for aprons does not wear well: besiles, it fades as badly a the shirting, and both cost nearly twic What calico costs per Yard. Six kitchen aprons ought suffice for a year for one

    Opinions differ as to the best material or dresses for house work. Ginghan $l y$, but it certainly of it fades quick selecting gingham, that should be chosen which is most closely woreu, in whic the colors are rather subdued in tone. Some calico will not fade tery minch Most indigo blue is to be relied oll. Two seren-cent print drcsses will wear mucli longer than one twelve-aud-a-half-cent ginglani dress, besides girinz onc a change. Some merchants show a fair grade of print for five cents per fard Which wears so well that three dresses
    will be sufficient for a summer's wearwill be sumficient for a summer's wearand fall. My experience warrants me advising calico for kitchen work dresses and aprons. In buying calico select the close, smooth-woven grade, see that the colors show clearly on the wrong side. In making up everyday dresses it is bes to line sleeves and waist with the dress material. If the ontside should wear out and some of us do wear ollr dresses ere to that state where repairs are needed, the contrast is not so great if the lining is of the same material. One thing don't do that is, line a new dress with old cloth It may do in some instances, bn it will be a failure in most oth ers. The grade of muslin just above chcesc-cloth makes good cheap lining for light was dresses. But don't use the best
    quality of muslin if you expect to wash the dress. The lining will shrink and leare the outside loose and baggy.
    For little folks' dresses I know of nothing better than penang Most of it will stand boiling For litile boys' waists this is best, then some rery pretty But calico does not last long for boy's wear; gingham is certainly preferable.
    There is one thing I mould like to speak of in connection with muslln underwear. Some
    their corsets. They complain of feeling as if they would fall to pieces without the support corsets give. Then there are other women who scorn the corsets for everyduy wear. While they do not com plain of that "falling to pieces" feeling they make one think such a thiug migb ocenr. There is, I am pleased to say, happy mediuin possible. It is a tight wais modeled after the corset corer, made o the best muslin, and fitted snugly; uot so the best muslin, and fitted snugly; not so
    snugly, howerer, as to restrict breathing

    Casings are put up the dart and underarm seams and bones are inserted. These can, of course, be omitted If deslred, but the bones are easily removed when the waist by buttons and button-holes. This garment is far more comfortable to wort $\ln$ ment is far more comfortable to work in
    than a corset, and much less expeusive than any sanitary or coinmon-sense waist. A well-fitting basque pattern may be used as a model in lieu of a better one, only the waist is cut quite large in the arın-eye and low at the reck. This is dorle after the garment is fitted.
    ETIQUETTE FOR THE FARMER'S HOUSEHOLD.
    The country housekeeper who wishes to entertain her friends is often deterred from giving a dining on account of the general inconvenience that surrounds her. In many localities, a good cook, way a can be engaged for even a day, is unknown, and as for waiters they are among the unheard-of luxuries, thus leaving all the labor of an entcrtainment to the hostess. For such ladies, the breakfast party can be indulged in with much greater ease aud comfort, and is a lbetter form of entertainment for the The hour for a breakfast party is from nlne to twelve o'clock, according to circumstances. Invitations to a social breakfast are usually written and sent out several days beforehand, and may bo a simple, informal note, or writton on the lady's visiting card. If the latter is used, below the nalle write, "Break fast, Thursday, at ten o'clock, February 25th.'
    The bill of fare should never be elaborate, but always dainty and tasteful. In the country, where fowls or game may be had ln perfection, many choice dishes may be arranged, which may be made to surpass city fare.
    It is considered good breeding to serve breakfast with as little formality as possiryants. In servry little difference e table and other entertainments,
    are fewer and hostess usually chocolate from the bead of the table, and the other dishes may be served by the host, on
    or brought from the side-table.
    In glving a breakfast party, a lady will wear a slmple, stylish costume, and the guests come in walking dresses. The host should conduct the oldest or most distinguished lady present to the table; the hostess follows last, after all the company have entered the breakfast-room.

    The following seasonable bllls of fare will be useful to ladies wishing to give treakfast parties, and may be modified to suit individual tastes and surroundings:
    

    ## RUSSIAN EMBROIDERY

    Thls work ls now very much in vogue among our young ladies. About Christmas time, but too late to speak of it, I saw a very pretty square heing made for the center of the dluing-table. The material used is fine, shirt bosom linen and hard•twisted, coarse silk, that kuown as saddler's silk being preferred. The patterns are of the arabesque kind, with threads reaching across from one part to another.
    The work is mostly done in button-hole stitch, as used in enibroidery; not the one used for button-holes. In some parts of the work where lt ls necessary to raise It, the pattern slould be run with linen floss several times, and a still better way is to use a cord to work over. Much of the material is cut away beneath the
    
    ant catsup, etc
    To three quarts of currant juice add 3 pounds of sugar,
    pint of vinegar
    1 tablespoonful of cinnamon,
    1 tablespoonful of cloves,
    1 tablespoonful of pepper,
    1 tablespoonful of nutmeg.
    Boil twenty minutes, then cork and seal ight.
    This is a fine relish for meat, and as lt
    as asked for we giveit at this thone.
    Currant Sauce.-Any housekeeper who has currant jelly, however, can make very pleasant sauce for meat by takiug 2 tablespooufuls of nustard,
    1 teacupful of vlnegar,
    1 tablespoonful of butter,
    1 small teaspoonful of salt,
    elks of two eggs and a small glass of jelly. Cook until it thickens, when it is ready for use.
    Celery Sauce.-At this time of the year when celery is so plenty, a nice sance can be inade of chopped ceiery boiled until tender in as little water as possihle, scasoned with half
    cup of cream, one tablespoonful of hutter, salt and pepper to taste.
    Bohled Celerx-Used as a vegetable is a very palatable dislı. Cook till tender and season to taste; serve with drawn butter.
    Spearmint Sauce.-Carefully wash the mint and pick it from the stems, chop fine and cover with sugar, a little salt and pepper. Serve in a cup set in a saucer. With English people this is always considered a necessary accompaniment to boiled or roasted lamb.

    French Mustard-Is very much relished by some epicures; this is prepared by slicing an onion in a bowl, covering with good vincgar and let it stand for two or threedays. Pour off the vinegar in a basin and add one teaspoonful of pepper, one
    fillished and pressed, it can be lined with any color of silk. White or a golden yellow are the ones mostly used; lndeed, yellow has entered so iargely lnto interior decorations that it has quite superseded the pinks and blues that used to be used in almost everything.
    This embroidery is used for pillowshams, pln-cushion tops and the centers of table-covers, tidles for the backs of chairs, etc. Its uses are many, and it requires a deftness with the needle that will teach one to be very neat wlth needlework. Many of the lace stitches could be introduced where it is intended for an elaborate piece.
    This work, too, is pleasant evening work. Sltting aronnd the evening lamp; with some one reading, there is a witchery about the shining needle going to and fro through the work. It is a pity that glrls of the present day are abandoning the noodle, as there is nothing that gives a sweet, pretty face the repose of the downcast oye as sewing, and the dainty handling of the needle is shown off by the pretty, white hand. There are too many ldle hands among our girls. Much of the neat work usually done by hand years ago ls relegated to the machine. Our girls are swamped with books to study and read; there is so mnch else to do-so many kinds of art work to keep up wlththat nlcely hand-made garments are rarely seen. The girls of the present day are fow who can roll a hem, scratch fine gathers, hem-stitch and sow everything as was done even twenty years ago. It almost bids falr to be a lost art.

    CHRIstie Irving.

    ## ANSWERED QUERIES.

    SaUEr-Kraut.-W. D. W., Pa. The trouble was with yonr cabbage. It should have been firm and white to insure firm, white kraut.

    Bluing.-Take one ounce of soft, Prussian blue, powder it and put it in a bottlo with one quart of clear rain water,
    and add one half ounce of pulverized and add one half ounce of pulverized for a large washing.
    Don't Take Any Chances with a Stubborn Cold, but get rld of it ratlonally with the help of Dr. Jayne's Expectorant, a healing medi-
    cine for the lunga. tablespoonful of salt, one tablespoonful of brown sugar, and mustard enough to thick-
    en. Smooth the mustard with a little of en. Sinooth the mustard with a little of
    the vinegar, as you would flour for gravy, mix all together, set on the stove and stir until it boils, remove and use cold.
    These little relishes add very nuch to a meal, which without it would be tasteless.

    Christie Irving.

    ## A NOVEL QUILT.

    Chrlstmas is over agaln, and many pleasant memorles and choice gifts are all there is left us now. One glft taken from our neighborhood Christmas tree was the source of much amusement and interest. It first appeared as a big doll, with false face, bonnet and cloak. Some parties
    knowlng of the present began to pull it to pieces. The dress skirt to the doll was a quilt lining, and the "stuffing" was the batting and outside cover to the quilt. The latter was composed entirely of blocks elght and one half inches square. There are ninety-nine blocks, and scarcely any three were of the same pattern. A great many of them had no duplicates. It was an odd-looking quilt, and very pretty, as the one who sct it together took a great
    deal of palns and spent many moments of deal of palns and spent many moments study over the placing of the blocks.
    Now comes the interesting part. Long before Clirlstmas, friends of this lady were solicited for a block of the desircd size. Each and all responded generously by sending calico blocks representing the dresses or aprons in the family. Many sent in blocks from sliertlng, so that the "gude mon" miglit be reniembered also. In each block was stamped the name of the giver. The quilt is as good as an autograph album.
    Now, llttle girls, thls is something you can do for your mother another year. Think of all her dcar friends and get them to piece a block for you. Don't forget to piece some of your own and other members of your family. Don't think it is too early to begln another Cbristmas work; it
    takes quite a while to get so many blocks takes quite a while to get so many blocks
    together. Be sure and tell them all the same size. So much of our Chrlstmas work is put off until the last month, and then it ls hurry, hurry all the time. I am afraid we do not keep our angelic tempers
    as we ought, when we are all so tired. Begin early, even if the artlcles are folded away for a time before Christmas. One of my friends commenced her werk in July, and none too suon. Little bits at a thme nake quite a heap after a while, and in that way we do not notice the cxpense or that way we do not notice the cxpense or
    work as we do when it all comes at once. If any one wishes for quilt patterus, I think this lady with the novel quilt ought to be able to firnish quite an assortment.
    Many of them were taken from back numbers of the Farm and Fireside.

    Topsy.

    ## STRIPED CAKE.

    This recipe for a cake lias the several merits of being good, economical and pretty. White Part-One half cup of butter and oue cup white sugar beaten to a cream: to this add one half cup sour
    milk in which one half teaspoonful of soda has been dissolved; next the beaten whites of three cggs and two cups of flour. Flavor with lcmon. Dark Part-One half cup butter, one cup brown sugar. yelks of three eggs, one tablespioonful molasses, one half cup sour milk, good half tenspoonful soda, tablesponful each of cinnamon and allspice, two cups flour. This can be made in layers, a dark and white alternatcly, or in a loaf, as marble calie, by putting in a spoonful of white and dark alternately. If preferred, baklngpowder and sweet milk can be used insteud of sour milk and soda.

    ## CANNING FRESH BEEF.

    We take all the rough pieces that we do not waut fresh nor to corn. If very fat, remore the most of it. Boil very tender, salt and roast same as for the table; take from the kettle, remove all the bonc and gristle, pick or cut in convenient pieces to go into the cans; then put into a pan, season and set over a kettle of boiling water, cover tight. When hot as you can get it, commence filling a can, and press thoroughly with a stick made llke a potato masher, as you fill it, having liquor enough to expel all the air. Fill and seal, using self-sealing cans; if they are perfect there will be no trouble about keeping. All that have used it pronounce it a succcss. It can be eaten cold or warmed, or in meat pie. Any sized cans may be used. Palmyra, N. Y. Mrs. T. L. C.

    ## A CURE FOR DIPHTHERIA.

    The foliowing remedy is said to be the best known, at least it is worth trying, for physicians seem powerless to cope with the disease successfully. At the first indication of diphtheria in the throat of a child, make the room close; then talise a tin cup and pour into it a quantity of tar and turpentine, equal parts. Then hold the cup over a tire so as to fill the room with fuincs. The little patient, on inhaling the fumes, will congll up and splt out all the membranous matter, and the dipltheria will pass off. The fumes of the tar and turpentine loosen the mutter $\ln$ the throat, and thus afford the relief that has baffled the skill of plyysicians.-Scientific American.

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    ## PRACTICAL NOTES.

    50Have been a silent reader o ever since I have kept house (allnost seren years), and
    have received so many nave received so many helps I thinks it time I was contributing my "mite." But it is ittle children to get much time for writing.
    First, I Firil tell you of a dish-pan, which I got the timner to make, to drain dishes in. It is a large pan with a false bottom, sets up two inches above the bot onm of the pan, on little rests the sides and center of the pan. This ially whe it cons to and knive and forks, which are so disagreeable to fish Try it and let us hear how you like it. Grahair Gems.-One eoffee-cup of Gra sugar, pinch of soda and pinch of salt, our milk enough to make a good, stiff batter. Beat well, drop in greased gempans that are real hot. When eggs are
    scarce, I make them without, but they are better with
    I was glad when one of the sisters told what to do for those dreadful pies that to tell you, it's so easy, and for fear some oung housekeeper did not see it, I will ive it again. I always sprinkle a little flour in the pie, then inoisten the cdge o firmly down with a fork or spoon handle, and the juice cannot run out.
    $\qquad$
    $\qquad$
    curing and keeping hams.
    After the pork is thoroughly cold, cut it out, trimming the hams in nice shape To every ham allow one tablespoonful of
    saltpetre, well rubbed on both the skin and flesh sides, then take some molasses, and also a small quantity of black pepper, and cover them well with it, after which put on a layer of salt, and pack thens in Then take them up and hang up a paper sacks, and put one in each, securely ying it around the hock, so that no in sects can get in. Then have a strong twine
    string and hang them up so that they will not touch. This plan has been a perfect success, the hams at the end of the year being perfectly free from vermin and in hickory ashes after taking them out o ho brine, but find no method so good as langiug them up in paper bags.

    Have a brine made by boiling twenty allons of water, to which has been added one fourth pound of sall nolasses and five pounds of coarse, brown sugar. After boiling, skim well and pour If all the fat ends and put them in the rine, keeping them at all times well eovred, with a weight over them. This wil keepers. great Lile thouso keepers. $\qquad$
    CONVERSATION IN THE home.
    Few things are more important in
    ome than is conversation, yet there are hought is given. We take great pains to ave our houses well furnished. We seect our carpets and our pictures with the flool that they may become intelligent. Ve strive to bring into our homes the best onditions of happiness. But how often
    is the speech of our household left ulltrainer and undisciplined? The good we
    might do in our lomes with our tongues, if we would use them to the limits of heir capacity of checr and helpfulness, it is simply impossible to state. Why should Especially why should we ever pervert
    the gift and use of our tongues to do evil to give pain, to seatter seeds of bitterness dumb, but it were better to be born dumb and never hare the gift of speech than haring the gift, to employ it in speaking only sharp, unloving or angry words.New York Press.

    ## FOR COLD IN THE HEAD.

    There are a number of rays of aborting old in the head, but most of them are by the means of quite powerful drugs, which person unfamiliar with their use is never ustified in taking on his own responsibilone of the simplest and most efficacious It is applied in this way: Half fill a jug with boiling water, and into that put a teaspooniul of well-powdered camphor. Fashion out of writing-paper a funnel camphorated steam should be jug. The through the nose for ten or fifteen minutes, the inhalation being repeated, if required, every four or five hours. If, in pite of its unpleasantness, the inhalation is persisted in, it is said that three repetitions will always effect a cure, howe
    serere the "cold in the head" may be. SOMETHING WORTH HAVING.
    We have just recelved from Johnson Stokes, the well-known seed Growers, heir
    Garden and Farm Mannal for 1890. It is a eautiful book, profusely illustrated and couains authentle descriptions of many rare nov deners. It will be malled, together with a packet of seeds of the fine, new cabbage, "All Year Round," a variety equaily good for Spring, Summer, Autumn or Winter, to any of
    our readers who send 10 cents in postage stamps to Johuson \& Stokes, Plilladelphia, Pa.
    Noodies.-Beat two eggs in a cup until light, fill the cup up with sweet milk, and add a pinch of salt. Mix as stiff as you can possibly roll them, cut very fine, lay out upon a cloth to $d$ r
    Cook thirty minutes.

    CATARRH CURED.
    
     en velope to Prof. J. A. Lawrence, 88 Worren street,
    New York, wili receive the recipe free of charge. FREE
    

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    ## (1) It Simulw gitemour.

    THE SUNSHINEAFTER RAIN.
    $\iint_{\text {Hovar dark aud threatening be the }}^{\text {With clouds that Intervene, }}$ nd heaven no longer to our eyes Smiles in its peace serene lignings flash and thunder know that when the storm shall break, There's sunshlne afterraln.
    then on life's patis of strife and toll, hen disappolntments roughly foll The hopes that go before,
    trials rude as tempests fil palr not, but remember still, There's sunshine after raln. I It is true, however grea The sorrows linat befall,
    day, at least-lt may be lateSome good wlll come to all and such liveugh palu, arelived arigh God's rest, for them, is full of llght-

    ## VALUE OF KIND WORDS.

    ${ }_{6}$the blessed ness of those who have words, bitter expressions or wanton neglect to have been subject to such things. None will ever regret speaking too many kind words, while many will have to weep over hasty ones hastened tho death we had to mourn. If, therefore, you would escape this, and have fower tears to shed by and by, seek and stndy to be kind now to those you love If you desire a happy future, sow the seeds tender, while you have the opportunlty Seek to cast brightness and cheerfulness at all times in your home. Banish as comuness, meanuess, nconsiderateness $t$ when the dark th give jou sor $h$, when lt will be which feeds and helps the one starvesaud hinders the other. Sow kindness, loving words, cheerful smiles so constantly that the heart will be full, and the mind possessed by such influences that there will be no room left for the rank weeds of nnklndness to find an entrance or obtain a place.-J. IV. Kirton.

    ## BEHOLD, HE COMETH:"

    In the Old Testament there are twenty allusions to Christ's second coming, where we find one that refers to his first advent. Iu the Nell Testament it is mentioned three hundred aud eighteen times, or in one verse out of every twenty-five.
    There are no future events more clearly revealed in the Scriptures than that Christ is, within a brief period, to come from heaven in person, raise the righteous who have died, judge those who are living, de-
    stroy the civil and ecclesiastical powers stroy the civil and ecclesiastical powers
    which usurp his rights and persecute his people, renew the nations that survive, and reign over them with his glorified saints through a round of ages.

    The study of prophecy inakes those who pursue it both practical and holy. It fills the mind with the counsels aud judgment of God about the affairs and events of earth; it reveals what shall be, and thereby lessens the power of that which now is, things unseen and oternal, and thereby weakening that of things seen and temllnquish our trust, if any such remains, in the broken reeds of hnman development, political progress, advancing clvilization, science and culture, and to fix it on the One Hope, divinely given-the Second Advent of the Redeemer-with which all promised glories and blessings are inseparably associated.-Word, Work and World.

    LOOK HERE, FRIEND, ARE YOU SICK? Do rou suffer from Drspepsia,Indigesllon,Sour Stom.
    ach, Liver Conplaint, Nervounsess, Loot Appetite, Bil-
    lonsnese, Exlaustion lonsness, Exlaustion or Tired Feeling. Pains in Chest
    or Lungs, Dry Cough, Nightsweals or an f form of Consumptlon If so, , end to Prof. Hart, 88 Warren St.,
    "Bob" Burdural RELIGION. regularly advauced to the dignity of the pulpit by solemu ordination to the minis ry, thus expresses himself on what ho calls "natural religlon:"

    A friend named Blake, llving In Cbl cago, has sent mo a letter ou 'natural re think I care to order any 'natural religion' just now. In fact, I hare quite a large ock of it onl hand that I would be glad to do with it. I kind of hate to give it to the purchaser. It never did me any good, and I can't guarantee it as an article that
    ought to bo kept in cvery household. 'Natural religion' gets into the market early and holds on long. I have seen babies in full possession of it rending thelr playthings to rags, kicking and yelling wlth infantily rage as though possessed o many devlls, howling for pure 'cussed-
    ness' long, long before they were able to aess' long, long before they were able to
    isp a prayer. I have seen little children In full possession of 'natural religion' learning to lie, to decelve, to steal, ill natured, vain, overbearing, treacherous,路 teaching and training, just 'naturally bad.' have seen the guileless savage of the plains, with nover a college or a theolog ical seminary in all his tribe, so full of natural religion' that he couldn't get scalps enough to satisfy the unspoiled cravings of the 'natural man,' nor drunk nough to celebrate his triumph when the last prisoner was finally carved up into mall fragments.

    For people who enjoy the natural man in all his native naturalness 'natural re-
    ligion' is, no doubt, sweet and uplifting, and tranquilizing. I prefer it with milder flavors, myself; I like it refined, softened, improved by cducational processes. Brethren, there is nothlng in the world of animal life that is good in its natural state but an oyster, and he's next door to a lam.
    "Wo will now take up the collection for the fund for ininisterial education, and brethren with the naturalistic tendencies will please not chew up bits of paper pulp to fire into the hat. We find that the natural pulp is greatly increased ln value even for natural religious objects, by go ng through a process of overworking and manufacture in the mills and presses of the treasury department. Even the raw material from the California gold mines has to lose somewhat of its native dross the mint before it attains its highes

    ## COURTESY TO ELDERS.

    Our American people may not lack in depth of feeling, but they surely do fall short in the expression of feeling. This is most noticed in the lack of the little deferences, the tender courtesies, the free, spontaneous signs of affection that render homes so satisfactory and so full of contentment. To give to the white-halred father or mother not only respect but confidence, to tell the joke and the secret to them first, to accord them cordially the central place in the merry-making, may seem trivial matters, yet they are not trivial to those who, in the twilight of life, begin to think they are useless and forgotten; and to question whether they shall be missed when they sliall go out in to the nearing night. Conrtesy is but a little thing, and costs nothing, and if it is due to any one, 1 it is surely to the aged among

    ## MULISH OBSTINACY.

    God's, Word says: "Be ve not as tho merte. Tho precept is suli timely and havo four legs, whatever may be the length of their ears. There are many people who, like the mule, are better at kicking than at anything else. They are forever raising objections. Some of thent
    are in the church. They are always on hand when there is a fuss, too, and usually mulishness. Stubbornness is their chief claim to distinction. They may be convicted of wrong, they may be outroted,
    still they continue in their course still they continue in their course. They
    will have things go their own way, Will have things go their own way, or from going at all. And woe to those who make things go in spite of the efforts of the mule. That is where tho kicking play. The Lord save us from men who
    
    
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    of "economic plants," and I think some of
    the readers of FARM AND FIRESIDE can be the readers of Farm and Fireside can be
    of material service to me in this respect. If you know of any plant cultirated extensively in rour neigliborhood for the production of oil, perfume or for medical great ohligatiou to you for being tuld of reat obligation to you for being told of , and especially for the adaresses of
    eople largely engaged in the cultivation of such plants. I know something about peppermint and about hops, but there are
    a host of other plants with which Iam a host of other plants with which Iam
    entirely unacquainted. And these are just the ones I would like to learn about. MARKET GARDENS IN FRANCE.
    In Paris and other large cities in France, manure is produced in the stables of the
    omnibus companies in such large quantithe market gardeners pay enormous rents for land upon which to make their gardens. This manure is not used to fertilize culture is carried on upon a series of extended hot-beds. The regetables forced are disposed of in the markets of more in the autumn previous, when the manure is collected and brought into proper condition for use. All so as to be much earlier than they
    forced, would be in the open ground. A bed of dung about sixteen inches deep is co vered with six inches of rich soil, and franes
    with glazed sashes placed upon this. Quick-growing crops are those generally raised. Lettuce is raised in perfection; so are radishes. Cauliflowers are extensively grown, and asparagus is
    forced in large quantities. The manure used in these beds has lost little, if any, of its fertilizing qualities, and is sold to farmers to be used on their crops. The
    products of a majority of these gardens go to Berlin, Moscow and St. Petersburg, and even to England. Buyers come from these markets, make their purchases portation, and send them off. High prices are paid, but only the first products ar raised. Some gardeners devote their land mushrontris, or some other profitable specialty in vegetables.-American Agri-

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    Of which the coming life is made And fill our future's atmosphere With sunsiline or witil shade.
    The tissue of tile life to be And In the field of destiny
    And in the field oi desting
    We reap as we lave sown.
    e teaspoonful of ammonis -Whittier.
    One teaspoonful of ammonia to a teacupiul of water will clenn gold or silver jevelry ;
    few drops of clear aqua ammonia poured on the underside of dlamonds wili clean them Ray Joyce. I know how hard money comes on tho farm,
    sometimes. I hare seen the time wheu I tiad sometimes. Thare seen the time wheu the behad detter go whithout almost anything els than your agricultural paper.-T. B. Terry.
    Ir takes a a prodigious amonut of vegctable mated that the present growth of the worid would make a layer less than one eighth of an nch in thickness, and that it would take inillon years of vegetablegrowths to form coal bed teu feet in thickness.
    Artificial gems at the Paris exposition are saill to have surpassed anything evar be even dealers and experis. The artificial pearls were especially successful, no means belng fonnd to disthignish the genulne from the ar haclal, except the use of a fie.
    Arw Enrland Siclely, at Delinonico's, in Now York, a bon mot was made by the Rev. Dr. Wayland, whith brought down the house with bright things, that it seemed rather hard on old New England forher sons to sit here enjoywhen even Plymnuth Rock pants for three dollars, and moved that a collection be taked ap to rellicve the distress.
    A patent has recentiy been granted for a whilch consisty fin first melting the butter ander sufficlently warm water by holding said utar- hinhla helow the surface thereof, next - the buttermilk is I then beathg the
    sen to the surface owlug the froth to

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    ney. Many other experiments can be trled ney. Many other
    with this apparatins.

    ## A MOTHER'S RESPONSIBILITY.

    Unfortunately, not every mother thinks it necessary to teach pollte manners to her chil wheu they come into the presence of ladics her girls interrupt rudely in con versations, to see an elderiy gentieman give up his seat to some old person, while a slx-year-old young
    ster spreads over room enough for two, anid ster spreads over room enough for two, and With his mother looking on a pparently igno manthatshe is rearing a son with the selfis dren is a pretty clear mirror of of her chil own nature. It is from her they learn courtesy and gallantry and chivairic respect to womet Lonkers-on at the rude or bad behavior of the of that child's home influences.

    ## The Voice.

    Those who overtax the voice in slnglng or Troches"exceedingly useful,emabling them t endure more than ordinary exertlon with com paratlve ease, while they render articulation a simple yet effecilve remedy. Contalning noth ing infurlons, they may be used as often as re quired, and will not disorder the stomath llke they have been recommended by pliysiclans, and widely used, belng known all over the world as one of the fely staple cough remedies apld puly tif boxes

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    SPRING TOOTH HARROW
     RIGHTTO BuY, SEt Datt Marow ihn mitet
    
    WIVES
    
    
    

    ## Simites.

    time's revenge. Years, years ago, wheu I was young,
    I Ioved a fair and gentle malden; I loved a fair and gentle malden,
    Her praises day and night I sung. Her praises day and heart whith deepest passlon ladeu But learuing that she foved me not I did not drop a tear or qu 10 But howed to my unlappy lot

    How quickly time doth turn the scene ry pretty girl is just eight chauges pleuts My first lovc's boy is four aud twenty; Her chila loves mine. How merrily His mother would not marry me, And I'll not let him wed my daughter.

    ## A BETTER PULL.

    "Do you expect a raise of salary on thefrst? "do," was the confident reply. "I know it, but circumstances are different, "Golng to marry the old mau's only daugh "Better than that."
    "Whew! You must have got an inside track."
    "So have
    "Sol
    "Last year be had three men of us who knew how to mix beans, chicory and coffe are dead."
    "Aud you?" "A rival concern has offered me an advance of $\$ 5$ per week. He must come up to 11 , or 1 go. His only daughter! She isn't shucks com-
    pared to 68 per cent adulteratlon."-Detroit Free Press. NO ONE ELSE.
    Managlng editor enters a humorist's room Humorist, shoving back his chair, says:
    "I was just thinking what a great difference there is between humr rists."
    "Yes," the man eging editor reples, "quite a "fferenc
    "Now," the humorist contlnues, "Artemus Ward used to chuckle, yes, even laugh, over
    his own jokes. I am of a different temperament. I never laugl at $m y$ jokes."
    " Ne elther does any one else,", says the manag. "Welther does any one else," says the manag
    iug edltor.- Arkansas Traveler.

    A RARE KIND OF A GIRL.
    "Mlss Johnson, do you play the plano?"
    "Do you embr
    No, George
    Do you decorate china?
    Do you put your halr np in curl papers? ${ }^{n}$ "MIlss Johinson, do jou' object to marryius me?"
    "No, George."-St. Paul Pioneer Press.
    MARRIAGE NOT A FAILURE. "How is your darter, Nancy, gettin' 'long,
    sinceshe marrled an' moved out to Californy?" since she marrled an' moved out to Californy?"
    said the first Indiaua man. "Is she doing "Doing well? Why, bless ye, sho's gettin' 'loug perfectiy lovely. Her first
    leavin' her $\$ 5,000$ in cold cash, sin' 'twarn't three months 'fore she tled on ter a consumptive worth $\$ 10,000$. Oh, but sbe's a ratler, tha
    gal is!" A MATTER OF TASTE.
    "If theres's anything I do ust natchelly
    deesplse, It's one o' these nasty seegars," said deesplse, th's one or arkansan woman of delicate sensiblitities. "The sinell of oue of em will turn my stumsmoked a year or two till it's well seasoned, smell; but I dan't wan't no séegars smoked

    ## A GREAT SUFFERER.

    The record of death, publishicd in one of the
    rellglous newspapers, says of the departed
    brotlier: "For two years preceding his deatb great sufferer, but grace sustained lilm.'
    "How sad that the did not talke to the reading CONSUMPTION CURED.

    ## An old physlecian, rellred from practice, had

    
    
    
    
    

    With."

    ## "Nonsense

    An tol nonsense about it. A reliable gentle be obliged mat hereafter congressmen wonid be obliged to pass an examination by a civi
    service commission, in Euglish grammar and speling, before they would be allorred to take theirseats."

    SHE LOVED TO GROAN
    Aunt Mary-What a cold-hearted world this is! I was so sick all night, and not a soul in
    the house came to see what was the matter the house came to see what was the matter
    with me." Ella-"That's not it at all, auntie; we al
    heard you groaning, and we badn't the heart
    to Interrupt you. We know how youl good groauiug, you know.' - Boston Transcript.

    ## TOMMY'S MISAPPREHENSION.

    Tommy (at dinner, the new minister being New Minister-"Why, no. What makes you think so?"Tommy-"Mother says that you stick to your notes more closely than any man she
    ever heard before."-Boston Herald.

    ## MATED MINDS.

    "I can tell you one thing," sald Mr. Fizzgig with emphasls, "when I marry, it won't be
    any 'higher education' girl. My wife won'l Enow Latin!"
    Hely "na Edgely, looklng at him atteu
    $\qquad$
    HIS TAILOR.
    "Wili you trust me, Fanny?" he cried. all myself, Augustns," she whispered, nestllng on his manly bosom.
    . murmured to bimself, and took her tender ly in his arms.

    NOT AN ENTIRE FAILURE
    DId you go to the seance last night?"
    "Yes."
    "Dld the splrits materiallze ?"
    "No; but the medium told some."
    "Toid some what
    HIS SHEFF DE OVER.
    "What is your favorite Shakespearean play
    Mrs Lakeside?"
    and Joliet' has some very. I think 'Dromio and Joliet

    WILLING TO GIVE IT A TRIAL Canvasser-"I have bere a worls that goes o ike liot cakes
    Lady of the house -"Please let me see it go
    off."-Munsey's Weekly.
    LITTLE BITS.
    The sun-dog is probably a setter.
    It is a strange thing that tise bald-headed man generally has hair on the bratu.
    In this weather the fisherman may have to cut through the ice to get a bite; but he isn't obliged to do it in order to get a "nip.
    When a man is young he thinks to reform sallsfled if he is able to reform himself. Atchison Globe
    Flossle (iooking up from her history)-"Well covering Amerlca is, America when he'd never seen it before." First ehe Russian emipire petering out Tolstol, and now the fufluenza. The nature o lation.
    A little girl who made frequent use of the say "presume" Instead. One day, telling a sald: "Mamma don't mad hy dresses and

    ## HONE STUDY. Ronk-keqnin, Rivinine

    
    

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    ## fierent felulirations.

    THE ART OF LEAVING.
    The art of leaving is less understood by women than by nien. The habits of husi-
    ness. the recognized fact that to a business man time is money; the throng and press and exactness of business life, all tend to make nen who live in cities the best possiquickly and neatly. A business man's social call is usually a model of good manners in this respect. When he has
    said what he has to say, and listened to what there is to hear, he takes his hat, says "good-evening," withant giving any time or chance for the too often tedious and embarrassing comnouplaces of mutual inseem to be a kind of social formula with women. In striking contrast with this nterviow or call, cial practice of ing to leave, seem their purpose and ug party to appear Who does not dread the visitor who starts, then thinks of something else to
    sap, rises, and then thinks of another subject of conversation; nearly reaching the door, and most probably holding it brilliancy that threatens his health and that of his host or hostess by long detaining of both in a cold draught while be
    discourses? What a tax on the patience and pollteness of the listener, who strives, by assenting instantly to every proposition, to end the interview and break the
    restraining bond of polite attention!Philadelphia Record.

    ## ARISTOCRATIC CARRIAGE.

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    throwing forward and upward of the chest, flattening of the back, with the shoulder-blades held in their proper small of the back, thus throwing the whole weight of the body upon the hips. No other women hold themselves so well of their beanty lies in their proud carriage, the delicate crectness of their figures, and the fine poise of thelr heads.
    reach of any American girl who takes the pains to have it; it is only the question of a few years of external vigilance, never relaxing her watchfulness over herself;
    and, sitting or standing, always preserving her erectness and poise, the result heing that at the end of that time it has beconve second nature to her, and she measnre, preserves the
    and prevents the sinking
    mosh around the waist and hips, so comperfectly easy to escape. Another thing to avoid is a bad habit of going upstairs, the chest contracted, which, as well as an indolent, slouchy manner of walking, jajurious to the heart and lungs.

    | catalogues received |
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    | Kansas Seed House, F. Bartheldes \& Co., Lawrence, Kan. <br> Wilson's Sced Catalogue, Samuel Wilson, Mecbanlesville, Pa . <br> Vegctable, flower and fleld seeds, trees, plants and vines, Frank Ford \& Son, Ravenna, Ohlo. <br> Seed Annual, D. M. Ferry \& Co., Detrolt, Mlch. <br> Cole's Garden Annual, Cole's Seed Store, Pella, Iowa. <br> Seeds, plants, trees, cte., The Storrs \& Harrlson Co., Palnesvilic, Ohio. <br> Garden Guide, R. H. Shumway, Rockford, |
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    ## catchina cold.

    万ETTEES the shonlders and across the back of the neck are the points
    wherecold seems to strike. The nerres at those points seem particularly sensitire. To "never sit window" is a maxiun that has to bo repeated every year; and all the sear around it holds good. Face the cold, and brace up the shivering spine with one or
    two layers of anything, eren paper, betwo layers of anything, eren paper, be-
    tween the shoulders. that will give the feeling of warmth and retain the heat that is so rapidly lost in some states of the weather. Cheerfulness and determinaton, hoirever, when you have to breast a stormy dar, help to insure people against catching cold

    ## hygiene for the eyes.

    Dr. Lincoln, of Boston, in the Annals of Hygiene, formulates the following rules or the cure of the eyes for school work: 1. A comfortable temperature, and pecially let the feet be warm and dry
    2. Good rentilation.
    3. Clothing at the neck loose; the same as regards the rest of the body.

    Posture erect; never read lying down or stooping.
    5. Little study before breakfast or directlr after a hearty meal; none at all at twilight or late at night.
    6. Great caution about study after re-
    7. Light abundant but not dazzling. 8. Sun not shining on desk or on objects in front of the scholar
    9. Light coming from the left hand, or left and rear, under some clrcumstances from in front.
    10. The book held at right angles to the ine of sight, or nearly so.
    11. Frequently rest by looking up.
    12. Distance of book from the eye about fifteen inches.

    DIPHTHERIA'S NATURAL REMEDY It is said that nature has her own rem edy for every ill to which flesh is heir. Some of her remedies hare not yet been discovered and some that have been found lelice not become generally known. ereign reniedy for the scourge of childhood, diphtheria, yet the colored people of Louisiana, and perhaps of other localties in the South, have for years known and used a cnre which is remarkable for
    its simplicity. It is nothing more or less than the pure juice of the pineapple. "The remedy is not mine," said a gentleman when interviewed by a Chicago Tribune reporter; "it has been used by Negroes in the swamps down South for with diphtheria and was in a critical condition. An old colored man heard o the case asked we lad thed pineapple I have known it tried in liundreds of cases. I have told my friends about it
    whenerer I heard of a case, and never knew it to fail. You get a ripo pineapple, squeeze out the juice and let the patient swallow it. The juice is of so corrosive a mucus, and if you will take the fruit beforc it is ripe and give the juice to a permucous incmbrano of hils throat sore. Among those who have tried the curc on cis J. Kennett, the board of trade man, whose children were all down with diph theria, and were cured by this remedy." Mr. Kennett confirmed the statement.

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    ## urrent omment

    Thave upon his lnterest, a farmer has uly to imaglne how much hls farm would be worth if every vestige of improve-
    ment-bulldings, fences, clearing, drainage aud cullivation were swept away, and the fand redand of his nelgitiou of the uncuitivated land of his nelghborhood. Let him suppose erery in provemeut gone. What then, would be the ralue of his farm? How much would termined this, the farmer whlil know on what basls of value his laud will be taxed. Suppose the tax rate rlses as high as 7 per cent-which by the year more than 7 per cent of lts selling value-and the farmer can then tell how high, done that, let him calculate how much he now pays for taxes on his farm, how much on personal property, how much in tariff taxes hlgher prices for protected A merican goods, and how much for olher taxes that may occur to him, such as work on the highway, and so on.
    Then fet him compare these two sums, the amount of his slagle tax and the amount he now pays in direct and Indirect taxes. By this exerclse in slmple arithmetic he can satisfy or higher under the singie taxes whil be lower he must not stop here. Under the slngle tax it wlll not pay to keep land out of use. There Wlli be no tax on what is produced from the provident or improvident, whether he uses his land or lets it lie Idle, his taxes will be just as much, provided he appropriates to hlmself the afford to own land. Therefore, no one cau all unused land will be free. This will reduce the selling value of all land, and the farmer's tax wili fall Just as the- selling value of his
    land falls. Nor ls this all. Since there whll be no tariff on foreign goods, trade will be free, aud the products of our farms will have the world for a market. Nor yet is thls all. Un-
    nsed coal lands will be thrown open to the mlner, and fuel will be cheaper, factorles, no Ionger protected lu their monopoly profits by a tarlff, will have to sell to the farmer as mechanle fierce competition for an opportunity to worl and no ionger stlnting himself and his family to make his wages meet his bills, w1ll buy more farm produce, and thus make a new market for the farmer. And beyond all this, wlll be land hand and the farmest sous alone, but in their uative countles, to be had or lhe taking, without price or rent or tax.
    The above is taken from the Standard,
    Henry George's paper. It is given as fair specimen of the arguments used by single tax advocates when they talk to farmers on the subject. It is a vain en will have less taxes to pay when they pay all than when they pay part only. They
    might as well try to prove that the whole is less than a part.
    Their arguments are sclf-contradictory. Under a system of tar on land alone, one of two things must result: Either the users of land must pay all the taxes, or the users of the products of land must par taxes indirectly through the increased prices of those products. Taxes on land practically increase the cost of its products. If the consumers pay this If the users of the land pay all the If the users of the land pay all the
    taxes, then they camot possibly pay less than they do now, and the absurd ity of the appeal to the farmers is plain If the consumers of farin products help pay the taxes throngh increased prices, then the claim that single tax docs away Either one clain or the other is false. Then, again, notice the absurd claim that the farmer's tax will fall just as the selling price of his land falls. amount of taxes must be raised for the support of the government; if the value of the land falls, the rate of taration must increase in order to raise that amount, and the farmer's tax will not fall, but will remain the same. The extract given is a broadeast of what is bcing scattered of single tax theories. Let tho farmer examine the arguments, and he will
    their inconsistencies and absurdities.

    I
    a recent number of the Country Gen tleman, President W. I. Chamberlain of the Iowa Agricultural College, has an interesting article under the title, "Nature's original packages." By this expression he means those farm products which are ready for the consumer or user when they leave the farm, such as fresh fruits, vegetables, poultry, colts, etc. This class of products he compares with an other class that includes articles which leave the farm unfinished, or subject to
    manufacture and preparation before they reach their final destination. An example of the latter class is wheat, passing on its way from producer to consunier through the elevator, mill and bakery. The writer points out that on farm products of this class there is "a great gulf fixed" between producer and consumer, in prices, which is widening and deepening, while farm products that reach the consumer in "nature's original packages" bring fair prices, with a reasonable margin between producer and consumer. The "unfinished farm products" have gone down in price to the farmer, but not to the consumer. In grain, beef cattle, hogs and the like, there is now an immense margin of profit between producer and consumer. The writer names, as the chief causes of this widening gulf, the crime of adulteration and the exorbitant profits of manufacture under profit. They are then among the main causes
    As a striking example of manufacture under profit, he takes oatmeal. At the store it rctails for fifteen cents per twopound packages. At the elevator the oat bring fifteen cents per bushel of thirty two pounds. That is, the farmer can buy
    two pounds of oatmeal with a bushel of
    oats. This is possible, bccause the patent
    laws make a patent an absolutcly unrestricted monopoly for seventeen years. The oatmeal millers, having a patent law monopoly, are joined together in a combination to control production and prices. Another example is the best roller-process flour made from 60 -cent wheat and retailing at $\$ 6$ per barrel. Ten bushels of wheat buy a barrel of this fine flour. Formerly, five bushels of wheat paid for a barrel of four. The patents on inilling machinery ncreased the margin between producer
    The writer of this interesting article thinks that the expression in the title "Nature's original packages," suggests a remedy. Farmers should turn their at that, from their nature, cannot be adulterated, corncred, or subjected to the exorb itant profits of manufacturc under patent

    LEss than ten per cent of the receipts of live cattle at the Chicago yards,
    says the Breeder's Gazette, would grade "good to choice." Hero is a text for a sermon six columns long on the adrantages of raising well-bred cattle instead of "scrubs." If people will raise they have no licensc to pick at the Big Four or anybody else when they only get three cents when they come to market.
    There never was a better time than during the present period of low prices of
    cattle for the farmer to get a start in wellcattle for the farmer to get a start in well-
    bred stock. Let the scrubs go for what bred stock. Let the scrubs go for what
    they will bring. The scrubs must go if you wish to stop losing your labor and money in the business. Good, pure-bred stock can now be purchased for less than their actual value. By the time your prices will almost certainly be better than neg an oom
    Experienced cattle growers are of the opinion that such low prices as cattle now bring cannot long continue A few years ago, when their business was prosperous, thousands rushed into it. A host of cattle kings appeared on the western ranches.
    The result was overproduction and a decline in prices. When the prices of cattle fell, they were just as anxious to get out of the business as they had been to get in. They wero ready to make any sacrifices to get out. Thousands of cattle not ready for market wero thrown on the market, an with the result of demoralizing it. Raising three-cent cattle is a losing business, and the grower is soon forced to quit it Then will come a time when the ever growing demand for beef cattle will exceed the supply, and prices will go up is one that requires meef cattle industry The grower must study the probabilities of the future when his young stock is ready for the market. The chances now are in favor of better prices.

    Athe request of the secretary of the National Grange, we publish the following, which fully explains itself: The committee appolnted by the national members in regard to natloual leglslation, have beeu in sessiou for several days, aud have
    prepared and submitted papers for thelr con deration. There seems to be no questlon ln tural dids of members as to the fact of agricul ther depression. It is a recognized truth; but of such depresslon of opinion as to the cause In order por In order to obtain all the light posslble upon nected with we ask men who are directiy con us a brlef and ueli disestal erpesto to sell opinlons as to the canses and the remedy the unsatisfactory coudition of the agrinu he unsalisfactory coudion of the agricu Do not indulge in glittering generalitles, search for what might seem to be a rood poll for your political party, hut glve us the speclf cause or canses and the remedy. Please wri direct all letters upon this subject to Leglsla ive Committice of National Grange, 514
    hington, D. C
    T is hard to be compelled to bear the taun of those who are coutinualls throrring t"
    "skim-milk"characteristics of the Holstei. into thieir owners' faces, but as long as thi,
    despised cows produce over ten per cent inc butter and over onc hundred per cent mc mllk than the Jerscys or Guernscys, th breeders will probably contlnue in thelr fo.
    lsh ways, and stick to the Holsteln-Dud Miller.

    ## The above contains an admission on

    part of the writer which weakens defense. If Holsteins give one hund only ten per cent more bntter, then charge that they are a skim-milk bro remains unanswered.- There will always be disputes amo brecders about the merits of their favo breeds, but the country is large enough,
    has a place for evcry good breed, and has a place for evcry good breed, and practical man will select without preju
    question with him is not the greatest quantity of milk, butter or beef, but the greatest profit.

    AN Indiana subscriber writes us that there is in his state a non-partisan
    organization known as the Farmers' Mutual Benefit Association. The organ ization has state, county and township assemblies. Its object is to help the members buy their farm machinery, etc., direct from the manufacturers at wholesale prices, and also to buy their minor supplies from merchants at a contracted per cent advance over the wholesale prices. Farmers are forming too many different organizations with the same objects in view. What can they accomplish in this one which they could not accomplish in the Alliance or Grange? The official machinery and necessary expenses of conducting the organizations are needlessly multiplied. Union of organizations is the next thing in order.

    Nearly everything in the line of plants and trees, and garden, field and flower seeds, is kept by the tisements appear in our columns. If you need anything of the kind, do not fail to send for their catalogues. They will cost you only a postal card apiece. Many of these catalogues contain useful informafion about the culture of vegetables, fruits and flowers. When you send for a catalogue, please mention where fou read about it. Publishers and advertisers will both appreciate this.

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    ## Oitr fitur.

    AGRICULTURAL CHEMISTRY
    From the Standpoint of the Practical F BY Joseph (TUISCO GREINER)

    ## To. 28.

    §ources of Phosphoric Actid.-In my last 1 mentioned that there is an phate rock in South Carolina and elserwhere. The latest reports mines there found, and soon to be opened, may also be considered inexhanstible, and perhaps eren easier worked than those in
    other parts of the South. At the same time the Florida phosphates are claimed to be of a higher grade than the others, and to contain notonly phosphoric acid, but also the nitrogen which was in the bones originally. In short, it would seem
    that the United States are so abundantly snpplied with this most important of all plant foods, and for so long a period, that we may be reliered of all anxiety for the
    future concerning this material. With all these mines in full working order, and so long as they do not happen to fall into the hands of heartless corporations who the coal mines are being worked, there is every reason to believe that prices of this plant food will have a downward rather han an upward tender
    Geano and Apatite, Etc.-The phosphatic guanos imported from some of the islands in South America, and supposed to be the droppings of sea fowls, rith contain from 15 to 40 per cent of phosphoric acid, and in some cases also more or less nitrogen and potash. Usually they are treated with sulphnric acid, and thens the abundant supply we have in onr own
    country, I fail to see why it should be country, I fail to see why it should be
    necessary for us to look to South America or any other country for phosphoric acid. The same is true of apatite, which is mineral origin, found in Canada. If treated with sulphuric acid, and thus rendered soluble, apatite is probably as useful as any other form of soluble phosphoric acid;
    but the raw material is usually considered of less value than the South Carolina rock. It is not used in this country to any great extent.
    Basic Slag.-I have repeatedily called German and English iron industry known as Thomas' or basic slag, or phoshate meal. I had heard good reports Sew Jersey, and this year I also heard Prof Caldwell, of the Cornell Unirersity,
    speak favorably of it at the recent meet tural Society, at Rochester, N. Y. It coutains from 20 to 30 per cent of phosphoric acid, which, although not exactly soluble, is yet in such fine state of division and so subject to chemical changes, that plants seem to be able to make ready nse of it. A series of experiments with it Wagne last season in Germany by Prof Wagner. It was thought that two bilo produced effects equal to one kilogram o phosphoric acid soluble in water. If this is the usual effect, Thomas' slag is mnch the cheaper, since the two kilograms of its phosphoric acid cost only fonr serenths as much as the kilogram of soluble phosphoric acid. Two kilograms of Thonias phosphoric acid also prodnced the same effeet as ten kilograms of phosphoric acid in bone meal; hence, the latter is by far oo expeusive when compared with Thomas' slag. The effect of the latter was
    far greater the second jear than that of soluble phosphoric acid.
    Altogether, this is a fine showing for the slag, and while it is rated, as insoluble, at only two cents per ponnd, I beliere we could afford to give three or even four ents per pound for it. I would call the poorer grade, analyzing 20 per cent phos phoric acid, cheap at $\$ 12$, and the better
    article, having 30 per cent acid, cheap at article, having 30 per cent acid, cheap a
    $\$ 15$. I believe it is offercd in Nerw York City at $\$ 12$ to $\$ 15$. Thus far all of it is innported, but there is a fair prospect that fnrnish it, and probably cheap enough so we can use it with great profit.
    Important Considerations.-I haveno hesitated to prononnce phosphoric acid the most important of all plant foods, and this for the reason that it is the one most
    generally lacking, especially on grain farms. The cause of this is plain enough All onr grains contain nearly twice as much of this element of plant food as they do potash. The potash goes mostly into the straw, and is returned to the soil in the mannre. A ton of an four or five ponnds of phosphoric acid, but nine or ten pounds of potash. So re see that a double portion of phosphoric
    acid is sold off the place, and so long as we confine onrselves to the nse of stable manure, but a half ration is returned to the land. Grain farming and the ex lusive employ ment of ban-yard mathe exhaustion of the land in phosphoric cid. Stock raising and dairy farming also hare similar results. In one sense this is fortunate, at least in so far as it is not
    the reverse. Being so well supplied with sources of phosphoric acid, we can get all we might need and use it freely without fear of ever running short of it. If it the place, we would soon be at a loss where to find onr supply, and its price would rapidly run up until it would be the most expensive instead of the cheapst of plant foods
    These considerations show plainly that we cannot expect much, if any, good from. ircumstances mentioned. The remarks of Prof. Stover, quoted by my friend, Wm. i. Yeomans, in Farm and Fireside o February 1st, 1890, do not reflect much matters. He said: "With the exception of tobacco and perhaps potatoes, and sometimes upon the o yield the hoped-for profits. The curious fact is brought out by European experience that while the phosphate and nitrogenous fertilizers often repay their cost at once, and sometimes in a very striking manner, dressings of Strassfurt salts have, as a general rule, given little or no
    money profit, except in the case of tobacco and potatoes.
    There is nothing curious about these facts. They are simply the natural results These grain farms need phosphoric acid more than other elements of plant food, and especially more than potash. Nitrogen will be the next thing that the soil calls or, and it may be furnished in the form of clover roots and stubble. This, I think,
    is a very important lesson for the grain grower. When his crops fail to give the accustomed vields, the plant food most
    likely to be deficient in the soil is phoslikely to be deficient in the soil is phosthe first to be supplied. It can be done most cheaply in one of the forms of plain phosphate mentioned in these articles.

    ## WAGON.JACK

    The wagon-jack of which I send you an illustration is light, strong and durable, and does not shove in lifting. It should be made of hard wood-white oak is best. The base is 18 inches long, $31 / 2$ inches thick and 4 inches wide; the uprights are 3 feet long, 1 inch thick and 5 inches wide; they are mortised into the base, and bolted, leaving a space of $11 / 2$ inches between them. A block is inserted at the top, $11 / 2$ nches thick, and bolted. The lever is $41 / 2$ feet long, $11 / 2$ inches thick, and $31 / 2$ inches
    
    wide at the short end, and 2 inches at the ong end. It is held in place by a loose bolt in the slot of the upright, and may be raised or lowered. The ratchet is a
    piece of bar iron 1 inch wide and $1 / 4$ inch hick, bolted to lever 2 feet from upright and has several notches on its lower edge which catch on a bolt ruu through the uprights 8 inches from base
    Kansas.
    E. E. Gard.
    irrigation.
    Surface irrigation is wastefnl in the arid regions of great heat, because, when we irrigate on the surface, from eight to ten pounds of the water taken to the soil are hrown into the air by evaporation to one pound used by the crop. (This is simply a crude estimate of my own. The erapo-
    ration on these intensely dry plains, over ration on these intensely dry plains, over ummer, under ands sweep constamust be mmense. I think this eraporation has not been tested in any way, at least I find no data anywhere, so for the present my ness of eight pounds for eraporation to one pound for the crop must stand to compare by.) Now, if we can derise a plan by hich the crop can get eight ponnds of he precious fluid for only one lost by reached perfection. I think it can be done by the new system of subirrigation combined with underdrainage
    Soils are formed by the disintegration frocks. These rocks have in their component parts certain mineral matters soln-
    ble in water, which, when in excess, are poisonous to vegetable and animal life. These poisons are known as salts, such as ominon salt, Glauber's salt, sulphate of potassium, etc. These are injurious only when presentin large quantities. Next, $\theta$ have the soluble earthly and metallic sulphates, such as chloride of calcium, Epsom salt, bittern, alum, copperas, sulphate of copper, etc., and also the alkaline
    carbonates and barates of soda, potassium, tc. Each and every one of these, when in great excess in the soil, will render it unfit for plant growth. But the most injurious of all, as well as the most common, are the alkaline carbonates and especially sal-soda. These, by their corrosive nature, at into and destroy the tender young plants mechanically, and may, in arid regions, make it inpossible to grow cer-
    tain crops on soils in which they are presant in very small quantity. They are soluble in water, and have been brought down to the plains by the streams, the water of which gathered them from the decaying rocks of the monntains. The water of the streams, when it reached the plains, was for the greater part alkali directly on the surface. This has been going on fur centuries, and the alkali
    has been constantly increasing in the soits and subsoils of the plains, and it is a fact proven by chemical analysis that the soils and subsoils of arid regions are charged with these alkaline caustic salts. In some of the drier regions of this continent they
    have accnmnlated in "the sinks" on the have accnmnlated in "the sinks" on the enongh for the purposes of commerce, both in the forms of sal-soda and borax.
    The soils of the great San Joaquin ralley and all the ralley soils of south California and also of Nevada, Arizona, Utah an New Mexico, and we may say valley soils verywhere from which the surface water of rains does not flow off to the sea, contain a large percentage of alkali. As a rnle, no fore the and the sub soil clear down to the bed-rock is full of $i$ t. Now, we will sar that ten inches of rain falls on the surface of one of these alkane vallers during winter: It is all abthe alkali in the for feet the alkali in that four feet of soil is ren-
    dered liquid and held in solution by the water; all the rainfall in these valleys is evaporated from the surface by the sun's heat, and as the alkali cannot eraporate, it is left directly oll the surface of the ground, where, by its corrosive action, kills nearly every kind of growing plant, their seeds. Now, if we bring water for irrigation onto such land which carries a certain percentage of alkali in solution, as all the river waters, etc., before named do, What will be the resnlt? There will be a conbrought onto land for irrigation evaporate from the surface, except what is used by the crops, and eren from what is used by hem the alkali is left behiud in the suil. Then, soon, in irrigated soils the alkali is concentrated at or near the surface, the plants do not grow so well as at first,
    more water is used, the subsoils are wetted deeper and deeper, and eventually the great mine of alkali beneath is brought to or towards the surface, with the result erentually that nothing can be grown on eventually happen in all the radey soils of these arid regions ander the present system of surface irrigation. The world's
    history proves it most conclusively. "Babylon is fallen," not by the dire curse of God, bnt by the curse of alkali.
    Egypt has not fallen, because the yearly overflow of the Nile washes ont the alkali and carries it away to the sea. Lombardy has not fallen because her winter rains re snfficient to do the washing. Spain, once the glory and wealth of Europe for productiveness, is now in the depth of de spair and poverty from alkali; the same rue of Turkey and the Caspian region.
    Then what is the remedy for alkall? Simply underdrainage and winter flooding With water sufficient to carry the al kali off through the underdrainage, or
    what would be very much the best, sub irrigation coinbined mith underdrainage. Such is the ouly simple process by which Th
    country, surface irrigated wittiont under drainage. Namely, malarial ferers and all the other ills that go with them; the
    rast amount of open ditches, with more rast amount of open ditches, with more
    or less of stagnant water left in depressions, the constant chat the decaying animal and vegetable matter left by such water as it eraporates to die and putrify, generate
    disease. Besides, the whole substrata in time becomes completely saturated with at Fresno, had to dig se venty feet for water dourteen years ago, before water was brought on the land, finds the mater to within four feet of the surface of the ground, and water in the wells of that er-
    tire region now stands in the wells within ire region now stands in the wells within face, and it looks now as if the result in the near future will be that all the lower places in the plain will be stagnant, stin
    D. B. WIER.
    ing swamps.

    - that $\$ 29.70$ parlor set.

    The remarkable offer of the Wilber H. Murray Mig. Co., of Cinclinnati, o., in a recent issue great many of oursubscribers, and the was they
    
    

    ## тне strawberry.

    Ahout a year ago I promised an article on the strawberry. Altheugh I have carefully studied thls fruit for the last seven years, the information gaiued
    during the last year has modified my views in a few instances, and changed them entirely in one or two respects. few of the sayings in connection with strawberry eulture, and so universal that mauy regard them as maxims, are as follows
    First-A grower should find the varieties adapted to his soil, and, then plau them.
    Second-A berry may be profitable in oue locality and an utter failure in anther, or rather, berries that are standard to be so in auother.
    Third-Strawberries should not be planted in freshly-manured ground, if you vant fruit.
    Fourth-Plant strawberries in the fall, and you may secure a crop of fine fruit he next spring or sumnier. This is be lieved by many inexperieneed persons, but not by market growers.
    Let us eonsider these propositlons. In order to save time aud space they have
    been numbered:
    First-Many have believed so thorough ly iu this that it is common to hear growman, and be an utter failure for an adjoiuing neighbor." If a variety is doing well in a locality, no one there should be a fraid to plant it, for it is proballe that its relative ralue will prove the same ou all
    soils and in all sitnations throughout that locality, and for many miles around. This holds good in sandy, clay and black soils. There may be now and then men whose observations and experiences are different from those of their neighbors, but we should remember that "one bird does not bring summer." Another year msually
    serves to bring these meu with exceptional views and experiences to the commou grouudoof their neighbors.
    Second-This statement is somewhat has a wider range, for the word section is here used. The comparative value of varieties is very much the same from the Atlantic seacoast to the western part of Kansas. When I first began the study of this I was nuch surprised to find that the variation was so slight throughout Ohio. Further examination showed that what
    was standard in Ohio, was also in Iudiana and Illinois My inquiries were next directed to market growers of Missouri, Iowa and Kansas, and sourewhat to my surprise the answers were the same a
    those received in Ohio.
    From the failures of growers iu the Mississippi valley with many highly lauded varieties of the eastern states, we profitably conclusion that wo soties grown east of the Alleghanies.
    A recent trip into New Jersey, and much conversation with some of their market growers, has shown that the standard market varieties of the East are also the standard market varieties of the Mississippi valley. Then, whence comes all the errors in belief so prevalont among many growers? From the catalognes rotten up exclusively for the purpose or seling the varioties catalogued; from the
    articles written for the press and the reports made to county and state horticultural societies by persons whoso views are iased.
    Goiug from south to north we find a nuch greater differeuce in the comparative alne of varieties than in going cast aud make this clear. In this latitude the Sharpless requires a long and favorable season to develop itself sufficiently to produce well the following year. Further for its being more productive in Georgia, Tennessee and Arkansas than in Ohio and states of the same latitude.
    Third-This also has added to it by mauy, strawberries should be planted in poor ground. I use large quantities of manure, and three fourths of it is hauled
    directly from the stables to the ground. Often the strawberries are planted in this freshly-manured ground. Iast year much
    of my plantlng was in such grouud, and the buds now look as promising as any to be found. The strawberry, like the potato, thrives best where there is an abundance
    of humus. If the cultivation is judicious, no one need fear drouth in the averago soil if nauured even to excess.
    Fonrth-Many persons attempt growing strawberries by planting in Septombcr and October. No greater mistake can be mado in our northern latitude. This may do farther south, where the cllmate is such that the plant continues growing nearly all the winter. It is better to plan in July than Augnst, and far better to
    plant in August than later. Although I plant in August than later. Although sand strawberries each year for seveu years, I do not think I have sufficient experience to successfully plant then in Soptember and October; at least, all my attempts have been failures. Although I
    have succeeded in gettlng some of them have succeeded in getting some of them
    to live and grow, the labor was much greater, and the results never satisfaetory or profitable.
    An article on this fruit, at this time of year, without something on varieties, would hardly be complete. We would recommend for family use and for marke only such varieties as have proven their value by repeated tests over a large area of country-over all the northeru Mississippi valley and the southern lake region. The three most reliable and profitablo are Crescent, Haverland and Bubach No. It is difficult to tell in what order they should be ranked. Crescent was put first because it has been before the public longer, and has withstood the test satisfactorily under all conditions. All three
    of these varieties have imperfect bloom, of these varieties have imperfect bloom and require a perfect-blooming variety-fertilizer-near them. For this purpose the Jessie will, in the majority of cases, prove as good as any. Some growers prefer Cumberland, Sharpless or Wilson's. A few use May King, Sucker State or
    Parry. I use nearly all these varieties as Parry. I use nearly all these varieties as
    fertilizers, but now give Jessie the prefer fertilizers, but now give Jessie the prefer
    ence. Captain Jack is used in the West. From one third to one half of all the plants set should bo perfect-blooming varieties. There are hundreds of varieties naued in catalogues, and uearly all of them highly recommended, but you should remember hat none of them have withstood the test of market growers as well as thoso named.
    few of the newer varieties deserve testing. Among them aro Crawford,
    Louise, Felton, Gillespie, Warfield and Poarl. I will close hy saying that it will pay ninety-nine men out of every handred better to put money in manure and tillage than to invest in new varieties a $\$ 2$ per dozen. I write this with an appre ciation of what knowledge is the most valuable to the fruit grower, for I test
    about fifty varieties every year, and shall about fifty varieties every year, and shall
    continne to do so. My information in this respect comes not only from my own experience, but from visiting the grounds of our experimental stations aud many other careful growers.

    Theo. F. Lonaeneceer.
    Montgomery county, Ohio.

    ## seedsmen's catalogues.

    The leaves of autumn are not morc brightly painted than the covers of the catalogues which the seed sellers annually send out. Although coming in the cold months of winter, their colors are most
    gorgeous; and their coloring is not only gorgeous; and their coloring is not only the word paiuting describing some new vegetables exceeds in fancy all else.
    Under the lamplight, with the fine book sent out by some enterprising seedsman, many a fine garden is planned on paper and in the mind, only to make the toilsome work of the coming summer the
    nore disagrceable when the facts are more disagrceable when the facts are seeds and there are such things as poor on poor soils; and, worst of all, to find out that the fine book with such fiue pictures and descriptions is a humbug.
    Much of our trouble comes from not being able to read the catalognes aright. A multitude of words are used to cover up the real meaning. The seedsman has a novelty, of which he makes a specialty and it is to this he seeks to draw the attention of his readers by means of wordy
    descriptions, colored plates, tinted paper fine wood cuts, etc. In this way our at-
    tention is drawn away from articles of real merit.
    In the catalogus of a leading seedsman this is thic way tho Early Erfurt cauliflower is described: "Large, compact and ask, for in this vegetablo the name itselt deuotes its earliness. If it is large, it can be only comparatively larger, and the sume with compactness and whitenossqualities that are very desirable. But this
    scedsman has a new variety of his own naming, to which he gives a colored plate and several pages of description. But with all that he camot give the qualities fiveu in the Early Erfurt. But what he seeks to do and docs do is to sell $n$ few seed of his new named cauliflower for seveuty five cents, while he would have to scll, on
    account of its being a common sort, a well-filled paekage of the Early Erfurt for ivo cents.
    I have used the cauliflower only for the purpose of illustration. The same is true of nearly evcry vegetable. This yoar I find, in looking over the catalogues, that there are new cabbages, new tomatoes, in garden or field. But I am confident of one thing, that when we try these things we will be compelled to say that the nev
    names are about all that is new in them. Frameldin county, Ohio. E. C. Green.

    ## gate-latch.

    Mr. Albert Buchanan scnds a plan of a gate-latch usod on barn-yard gates which open both ways. A is a steel spring which holds the latch shut; B, two pieces of iro
    
    between which the bolt, C , slides. The hortise is in the uiddle of the post, and the corner of the post is beveled ou each side.

    ## IMPROVE THE POTATO CROP

    It is the general experience that the potato, after a few years' growiug, "runs
    out," or fails to produce a paying yield, and what is grown is of small size. An experience of ten consecutive seasous, commencing with the season of 1880 , demonstrates that proper selection of seed ach season, with good care and culture, will not only overcome the
    of running out, but will greatly inprove the size and quality of the tuber and the yield of the crop.
    At digging time the largest, finest and most perfectly formed were taken for seed, and this plan was strictly followed each season, giving, in addition, the hest care and cultivation that conld be done, with he happy result of an actual iniprovenent in the size, smoothness and general form of the tubers, with au increased
    yield of crop, when the soil and season Field of crop, when the soil and season been almost cvery season placed on exhibition at fairs, and have iuvariably arried off first prize.
    This result is valuable in more ways han one. First, the potato, for all uses, is improved. Second, the yield is much
    increased. Third, the great expense of obtaining seed of new varieties to take the place of those run out is altogether avoided. It is believed that if this course were pursued by all potato growers that there
    would bo little need of nerr varietles; in fact, the best varlotios taken at first and treated in the manuer herein set forth, the improvement would outstrip all nell
    Close planting tends to deterlorate the potato. Small tubers result and the qual ity must be inferlor. Hills wide apart will give better yields of large tubers and better quality for table use. All experiment this season shows that wide spaces produce large tubers, while close planting produces small ones. One acre was plant rinco foet by nive lnehes, and while the yield was very good, and the tubers of fine size and form, they were not near as
    large as another acre, same soil, planted lirce by onethe and ono hall feet; these wero ery largo and best suited to grow from.
    To obtain the very best sced-that which vill iuvariably improve the quality aud Field of the general crop-it is an excel lont plan, first, to select the largest, fines and best formed tubers and cut these in large pieees; second, seleet the very best oil obtainable; prepare this by deep plowing and subsoiliug, making the seil fine and deop. Plant the pioces in rows three and one half feet apart both ways, one pieco in a place, about four to five inches deep, covering with a plow or double cultivator, and in three or four days after planting go over with a harrow, making the surfare smooth and fine. As soon a the sprouts begin to come through the ground, cultlvate with double cultivat or any imploment that will run deep an throw the soil onto the row; then harro this down level and make the soil fin and as soon as the sprouts are three four inches high, then cut to one stalk in hill. With one stalk in a hill, three an one half feet apart both ways, an oppo: tunity is given to make the best possib growth, both of stalk and tubers. Th; is the order of improvement for tl potato, a
    If improved progeny may be expected from ligh-bred animals, niay not improvement upon the general crop be ex-
    pected from "hilgh-bred" seed potatoes? Why should not farmers and gardeners pursue the same course to improve vegetables and grains that is adopted by live-stock breeders? Do not the principles f improvement apply with equal force to tho growtlo of farm and garden products which have wrought such mighty change in the live-stock department? With less labor and more care and thought, the same amount, with improved quality of products, might be realized by agrieulturists.
    "Knowledge is power," and no dopartment of life will verify this saying inore than agricnltural life. Knowledge is obtained on the farm and in the garden by investigation, thought and then experiment. Progress means more knowledge o-day than was possessed yesterday; to pracimples increased knowledge pat practical proofs; progress is the path ife; progress in plies increased and in ire; progress inplies increased and in Iowa. E. S. Teagarden.

    ## NEW ENGLAND FARMING.

    One of your correspondents claims that New England farming has gone to the will say there are many deserted farms in the old Bay state. Why? Because the
    young people leave the farm as soon they can. and go to the cities, and many of them have a hard time to get along. The old people are left on the once pros sequently, the farm and buildings run rice and the farm is sold at a very low price or abandoned. If the young men no trouble in getting a good living and West ships almosteverything East duat the West ships almosteverything East, but let life here as in some parts of the West and will not do that. They must have a fine
    worse to drive and horse to drive and want one faster than their neigh bors, and much time is spent on the road, and the hired man is left to
    do as he chooses. Now, I say from experi do as he chooses. Now, I say from experigence does his best he will reap his re-
    ward. New England is not dead yet. It
    wants push and wants push and energy. There will alWays be a class that will do nothing, If the farmers would combine it would for their interest, East and West.

    ## (1) Iit finut.

    ## GARDEN NOTES

    BY Josepe.
    Qutcheming the Soil.-Before me is a letter from Chapman, Kan., in which the rritcr tells of his clayey soil that produces garden stuff fairly well, but so late in the seasou that Lima beans and the like will not come to maturity. The query now is, the produce earlier?
    I have had to answer a number of similar inquiries receutly, and this only shows (if it could not be seen by looking around over the farus in any locality) that instances of this hiud are not rare. Our
    friend proposes to hurry up his crops by friend proposes to hurry up his crops by
    digging holes and filling them with sand in which to plant his Limas, tomatoes, melons, etc. He seems to be well aware that the trouble is more with the medhan of fertility. This, indeed, is the case in rery many iustances, and often where not uspected
    The gardener whose soil rests upon im perrious subsoil will always find himsel hampered and at a disadrantage. The soil is cold, and usually too wet in the fore part of the season to allow of much early growth. To attempt to correct this fault by means of liberal applications of fertilthrown awray, and a waste, at best. A permanent improvement can here only be brought about by thorough underdraining and perhaps subsoiling. This will do more to warm the soil and hurry up the
    crops, and at the same time protect them, in a measure, against the influences of a drouth than any manure that could be applied. Where the production of garden stuff pars at all, this preliminary treatment of the soil pays well; in fact, is a first condition of success. Afterwards, we sand or of compost, etc., to make it more porous and warmer. Br all nieans let our
    friend try this course, and I thinls he will friend try this course, and I
    be pleased with the results.
    The Blace Squash Bug.-The same correspondeut iuquires what to do for this disgusting insect. There is really but one thing to do, and that is to hunt them up eggs on the underside of the leares (ther are rery conspicuous) and pick them off.
    If some system is adopted in this wariare, victory can be won without great effort. Put pieces of shingles, flat stones, etc around the plants in such a way that the bugs will find convenient hiding places under them. Then provide a pair of amine your hills as often as may be needed, lifting up the material under which the bugs are hiding, and mash them with the tweezers.
    Early Ruby Tomato.-Some of my friends undoubtediy remember that I tomato which a neighbor gave me on trial a few years ago. I then called it thing superior for market or canning in existence. This variety, I beliere, is now being introduced by Henderson \& Co., of
    New York, under the name of Early Ruby Mr. Burpee's Matchless is also of the same character, and may be the very of our Ohio readers kindly sent me, with out telling me allything of its origin) resembles Ruby and Matchless, and is also 2 decidedly good thing. Indeed, the

    ## feally wonderfin.

    Orehard and Small Fruits.

    ## GOOSEBERRY

    To grow gooseberries to perfection, the soil should be well enriched with stable manure, about the same as for strawberries. They like plenty of food, and the
    more they get the better they thrive. We find a clay loam, well enriched, the best of all soils for the gooseberry, but any soil will do when properly enriched and cultivated.
    propagation
    We propagate principally from layers,
    bushes and corering them with rich soil plants. Some varieties grow readily from plants. Some rarieties grow readily from
    cuttings, such as the Houghton, Smith's Improved, etc. All rarieties of coarse heavy wood will not readily grow from cuttings.
    planting.
    We plant in the fall of the vear, every time, when we can. The gooseberry starts so early in the spring that the best growth of the season is lost when planted in the spring. We usually plant in row's five to
    six feet apart, and three to five feet apart in the rows. Strong-growing linds, such as the Downing and Houghton and some others, should be set not less than four to fire feet apart in the rows, and rows no less than six feet apart. Yarieties such as Whitesmith and Smith's Improved, and a few others of dwarfish growth, can be planted nearer. Cultivation should comground is in good working order. Keep the ground well worked and clear from weeds until frost. We use the cultivato and a one-horse plow. We are careful to
    not plow deeper than three or four inches, so as to not destroy the roots of the growing bushes.
    prunivg.
    This is of great importance, and right prunin where most people fail, in no until you think you have nearly ruined the bush, especially after they have borne fruit for several scasons and the bushe are inclined to become old. A good rule is to thin out so that the branches are more then to six inches apart, and no allowed to grow in a stool or hill. Also the ends of the bushes should be cut back each year from one fourth to one half of the previous year's growth. Unless severely pruned annually, the fruit will Tarieties.
    We are frequently asked what varieties gooseberries are best, or which

    ## ould you plant? If we were to

    

    The "Murray" Improved Elegant "Murrart with
    plaut for market, we would plant first, Champion, Downing and Houghton, in the order named. If for home use, Down-
    ing, Puyallup Mammoth, Champiou, Whitesmith and Industry. Downing is fine berry, but most too tender for long slipments when ripe. Champion is the best shipper of them all.
    Puyallup Mammoth is one of the largest berries, and is an American seedling. It is a vigorous grower; color, light green when ripe. The Downing is mediunl to large iu size, berry light green, with a bloom of same color when ripe. It is very vigorous grower, and onc of the best. It is an Anerican secdling. The Champion is also an American seedling, of from medium to large size; color the same as Downing, without the blonnl; bush of
    d warfish growth; an immense bearer, and one of the best of shippers. Originated in Oregon.
    Whitesmith is an English berry, a good bearer, light greeu when ripe, aud of large size; growth dwarfish, but sometimes subject to milder.
    Industry is a large, red berry of recent introductiou; an English rariety of large size, but liable to drop its leaves. I think it would do well ou high land, with northern exposure, in clayer loam soil.
    Houghton Seedling is too wcll known to need a description. It is immensely
    productive, but too small.

    Yield per acre
    We hare grown 250 bushels per acre Perhaps it would be safe to say that from
    100 to 150 bushels per acre is an average 100 to 150 bushels per acre is an average
    crop. Last season we picked from bushes planted in 1884, sixteen quarts to the hill. The bushes were so heavily loaded with fruit that they lay flat on the ground.

    ## prices.

    The prices raryas muen as for any fruit Ther usually bring from 82 to $\$ 3$ per bushel thave sold them as high as \$t per bushel. Te have discarded as unworthy of cultiration the Mountain Seedling and Smith's Improved. The former is a large bush with large fruit of inferior quality, and a hy bearer. The latter is a very shy bearer and poor grower.

    ## seedlings

    For many years past we have been in the habit of growing seedlings from the best varieties, and it is astonishing to see the difference in plants from the same seed. We have some very fine berries among these seedlings, and with all the colors which gooseberries have. Some are green, purple, white, red, or yellow some of large size, some medium, and others small, but nearly all of them bette than the old Houghton Seedling. We expect, in a few Jears, to produce a berry to beat even the best English varietics, which do nothing in this climate Illinois. $\qquad$ Phil. Strubler.

    ## A FINE COMMON SENSE CART

    There is not a thing that has come into than general use in the last few years there are many kinds and styles, but there are none that has impressed us more fav orably than the "Murray Improved Ele gant," it being a high class cart in every

    ## hould be applied early iu the spring.

    Probably Borers.-G. D. F., Spartansburg
    Pa., writes: "Can you tell what alls my pear trees down near the ground? The hark cracks
    for ahout four inches iulength, two or three or about four
    places around
    the tree dies."
    Reply:-1 cannot tell you. It may be tha your trees are full of borers, Which destroy the wood, and theu the bark pulter case the dead be a sort of blight. In elther case the dead
    bark should he cut away, nid the whole wound be covered with a mound of soll to pro-
    tect the wood from the sun, when it may hea
     Reply:- Ies, it is as good a thing as you can
    do with it. I think you will find the varietie of the Prunus Americana, such ns De Solo and
    Forest Garden, to he mole raluable in sour climate, as they are not so susceptible to the attack of the curcullo and gonger as the
    prunus domestica rarieties, of which the Lom
    bird is one
    Tobacco Stalks for Orchard Fertilizer -J. W. J., Carter county, Ky. It would be one foot long aud pile them up with allernate layers of hot horse manure, and keep molst If fou cannot well cut them, plle up withou
    cutling lutle same way and thes will rotand
    become soft aiter a short tim. becone soft after a short time. Turn the
    whole pile over a coulple of thes, adding
    about one ffth of its bulk of dry turf, or peat, to retain the ammonia, and then apply as a top-dressing around the trees as earis no the
    spring as posible. If the grund is not in
    turf, barrow tie manure well into the soil. Pears for Central IIIinois. - S. S. C.
    Pleasant Plains, III. It Is very difficult for one Pleasant Plains,
    not well acquanted with rour pecullar loca-
    tion to recommeld a list of fuits. By luqultry of your nelghbors you should be able lo oblain
    
     Beanty, Seckle The pcars ripen in the orde
    named, nnd are all ralualle. Perlapsof them
    nil named, and are anl ralua
    anl, the Barteet and
    profitable for marketing.
    Best Manure for Strawberries.-M. M.
    Harford county, Md. The best manure for Harford countr, Mo. The best manure for
    strawberries for you to use depeuds nuch
    upon your location and surroundings. If you upon your location and surroundings. If rou
    unt pet plenly of rell-outed stable maniure
    cit is probably the most economical and best
    fertilizer for sou to nse; but it may be that

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    you
    Mres, in which casc they are good which
    properly applied. Gront bone and some of
    The cheap, low-wrade putasll salts Hecheap, Inw-grade putash salts are excellent
    fertilizers when nased tingel iter for berries
    Wrood ashes will are generally very effective in your lacally or combintionsof fish aud polash, are most
    excellent fruit fertlizers. Grafting Wax-Grafts-Ront Grarling.
    -L. L. P., Canton. Ohio. A gond graftling wax.
    
     summer. if found too hard. a little more
    tallow shonld be added. if too soft, add more
    rosin. Tlie grafts. Or scions, Whilli I suppose
    you niean, should be cut in the fall, but may be
    
     si
    cellar, untll spring. To The cherry is in a a collmes
    root-grafted, but hoth cherr and peach are
    most readily budded in this ciinnate
    root-grafted, but ioth cherre and pe
    most reatily tuadded in this cimante.

    ## (GIIT fixmm.

    ## THE POULTRY YARD.

    ## Cholera and indigestion.

    $\Gamma$is seldom that birds have cholera in the winter season unless the weather is warm, for the frost seals up the filth and odor, and protects the birds against the neglect to clean on the part of their owner. rany persons take indigestion bolera. Indigestion is mostly due to a ack of gritty substance, the food not beng properly ground in the gizzard, and eads to diarrhea and other bowel roubles, and is more prevalent in flocks hat are overfcd and fat thau in those
    hat are in moderate exercise. Tho best hat are for it is to give the birds plenty f sharp grit, add a teaspoonful of pulverzed charcoal to the foud, once a day, for 3ach fowl, and
    irinking water
    irinking water.
    Cholera may be known by the frequent yreenish droppings and great thirst on tho part of the affected birds. Indigestion joes not cause the intense thirst which
    sccompanies cholera. As the birds will refuse to eat, the way to give medicine is in the drinking water; as the intense thirst will causo the sick birds to drink readily, they will partake of any kind of medicine that may be given in the water,
    hence, to every half gallon of drinking Water add a teaspoonful of liquid carbolic scid. It may not cure in many cases, but It is the best remedy that can be used. bird may suffer with indigestion for wceks before succumbing to weakness; cholera makes short work of its victims, and usually kills or cures in twenty-four hours, though at times birds may live
    two or three days. Wheu cholera appears, remove all sick birds and thoroughly disinfect, not only the houses, but the yards, with a solution made by dissolving a pound of chloride saturating everything that a fowl may come in contact with-roosts, nests, floors, yards and even the walls, and reyards, clean up thoroughly, burn all dead birds and use every precaution to keep the disease from appearing again.

    ## DISINFECTING AGAINST ROUP.

    The damp, warm weather is very favorable to roup, and itis difficult to preventitat times, even nader the best of conditions. A box of air-slaked lime should be kept convenient for use, and the poultry-house
    floors, as well as the outside yards, should be well dusted with it as often as it may be convenient to do so. The walls of the house should also be whitewashed occasionally, and a lump of lime should be kept in the drinking water. It is not claimed that this method will always prevent roup, but it will prove more valuable than if no such precautions are taken, and is recommended more for its simplicity fand cheapness than for any other reason. The real best remedy is warmth and
    cleanliness, aud as lime will add light to the interior of the house, and also assist in absorbing the moisture therein, it will be found of valuable assistance in promoting both cleanliness and the health

    DIFFICULTY IN WATERING FOWLS.
    How to prevent the water from freezing is a difficulty not easily surmounted. Cold water, with the surface frozen, chills the fowls, aud a larger proportion of food must consequently be eaten to warm the cold water within the body. The better plan is to warm the water three times a day, let the fowls drink and pour out the remainder. In this manner the hens will be fully supplied and they will be invigorated by the warmth from the water.

    ## A SUCCESSFUL COMBINATION.

    ## SUDDEN CHANGES OF WEATHER.

    Sudden changes of the weather from warm to cold and from cold to warm are rery trying to fowls that are accustomed to foraging, as the inactive condition cold unless well protected in warm houses, and as they may not be partial to confinement they will not lay as many eggs, due to restlessuess and dissatisfaction.
    Th
    They should be given plenty of litter in which to scrateh, and their food should be given in the litter, unless allowed a mess of

    DESIGN OF A FEED-TROUGH.
    A feed-trough by Mr. T. W. Moek, Alton, Ontario, is presented. It is three feet long, Fig. 1 showing the trough ready
    known that can approach, in the slightest degree, to the Game in quality of flesh and large amount of choice meat in proportion to offal. The "yellow-leg notiou" is American people aro affected, and as long as they indulge in it they will bo supplied according to their prefercuces and be deuied the birds that are better.
    some advantages of wyandottes.
    Wyandottes are not large, compared with the Asiatic breeds. The full-grown Wyandotte cock welghs at loast eight and one half pounds, and the hcn six and one
    half. They aro, however, larger than Leghorns or Hannburgs, and aro an American breed. The advantages possessed by Wyandottes are small, rose combs, medium size, plenty of feathers and early maturity. They have yellow legs and

    EXCELS in $\left\{\begin{array}{l}\text { PURITY }\end{array}\right.$

    BRIGHTNESS Always gives a bright natural color, never

    turnsrancid. Will not colorthe Buttermilk.
    Used by thousands of the hest Creameries and Dairies. Do not allow yourdealer to convince you BEST is what you want, and you must have Wells,
    Richardson \& ©'s Improved Butter Color
    For sale everywhere. Manufactory, Burlingtou, $\dot{\text { V. }}$.

    ## POULTRY PAPER

    
    
    IMPROVED EXCELSIOR IHCUBATOR
    
    KILLLING +
    
    
    ff when trough or to clean it. The top is three feetlong, seren inches wide and five inches high, with hooks at each end. It also prevents the hens from getting into the food and fouling it. The lower part in Fig. 2 is three feet long, fifteen inches wide (at the end pieces) and six inches high. The box proper, A, is nine iuches wide inside (which permits the upper box to fit in nicely) and two inches deep. There are only eight pieces of boards in the whole, which, with the exception of the ends, may be made of half-inch material, thus rendering it light and easily handled.

    ## TREE-TOP ECONOMY.

    If every farmer eould be made to understand that he pays dearly for the use of tree tops as roosts, he would soon resort to some better method of attemptiug economize. As long as the animal heat of the bird is sufficient to keep it from freezing it will exist, but it cannot keep waim on nothing. The farmer pays for
    all this loss of heat on the tree tops with food of some kind, and there is no surer way of wasting food than to give it off much the body as animal heat. As so much heat is thus wasted, the hen will
    not be alble to lay, the total result being a loss of food and a loss of eggs.

    ## YELLOW LEGS AND SKIN.

    The American preference for yellow legs and skin, as indicating the quality of the birds for the table, is based on nothing more than a notion. How the prejudice originated against birds with legs other than yellow we do not know, but we do know that buyers who judge of the quality of a dressed fowl by the color of the legs deprive themselves of the cholcest kinds to be had. If legs had anything at all to do with quality, the dark-legged birds are superior, as it is only a matter of Houdans and Langshans have yellow legs. One can cut off nice slices from the breast of a Hondan or Dorking, and the flesh is juicy and tender, yet neither breed has yellow legs. But few Games have jellow legs; y'et ther'e is not'a yonlow-ledgoca fowl
    skin, and are hardy, active and good layers. The rose comb is one of the best features, as such a comb is not so liable to the effects of the frost during severe cold weather, but rose combs are not en tirely exempt from the attacks of cold. The size of the hens is such as to make them good sitters, not being so llable to break their eggs as are heavier hens. We do the breeds, for other breeds excel the Wyandottes in some particular respects, but the Wyandottes combine many excellent advantages for eggs and as a finement fairly well, butare also excellen foragers when on a free range.

    ## LIGHT UNDER BROODERS.

    The aversion of all kinds of poultry to chicks in brooders that are not properly constructed. Chicks will not go under the brooders if the brooders are dark, and
    the consequence is that they become the consequence is that they become
    chilled and gradually droop. A brooder should be warm, light and cheerful, and should be so constructed that the chicks comfortably as when outside. It requires

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    BEES AND HONEY.
    

    PORTABLE SAW MILLS. slmple, Durable and Fit for all kind of work. The LaNE \& bodley co... Cincinnati, 0.
    

    THOMAS PEPPLER, Hightstown, N. J.
    

    EXPANDED METAL
    cUt Prom steel SOMETHING NEW.
     Fire-proop PLASTERRNG LATH, DOOR MATS, CENTRAL EXPANDED METAL CO
    
    

    ## 

    Froyf Oregon--Jackson county, Oregon, is che place for can be had from $\$ 5$ to $\$ 50$ per acre Good land can be had from $\$ s$ to $\$ 50$ per acre. pruues, plums and pears. Our apples are bought mostiy hy Callfornla buyers, Whife Wiliamotto valley.
    D. W. B. Central Poinl, Oreg. $\qquad$
    Froy Karsas.-Graham county has been settied about twelve years, and is well settled people; it is weli adapted to farming and people; it is weli adapted to farming and
    stock growing. The wlnters are short and mild, and grass and water plenty at all times. It is a good county for vegetahles, especlaliy
    eariy kiuds, as springs sets iu early here, and eariy kiuds, as springs sets
    the soll is sandy and warm.
    Hill City, Kan.
    H. 3. O .

    From Nurthern Illinots.-This is the garden of the world, taklug everything into con-
    slderation. We raise all kinds of grain, in such an abundance that the price is very low, and every ons that is willing to rork can
    have plents to eat, drink and wear. Nearly have plents to eat, drink and wear. Nearly
    all Fluds of fruits grow well here, except
    peaches. We have had a very warm wluter. peaches. We have had a very warm wiuter.
    Cattle and all kinds of stock look well.
    P. C. MCD.

    Walnut, $1 u$.
    P. C. McD .

    Froyr IowA.-Iorra is the best state in the Unlon. Come to Madison countr, in the woil-
    derful Blue-grass region, and see our deep, rich derful Blue-grass region, and see our deep, rich
    soil, our large stone quarries, our vast prairies, oursolld corn, our mealy potatoes, nurlusctous fruits, onr fine horses, cattle, swine and
    poultry. Mackshurg is a thrlving little village. If you are moving rest, don't run past the good land. We have climate, hut we dou't have to eat it for dit
    Macksburg, Towa.
    From Orio.-Athens county has rich land, and is good for grazing. In this nelghborhood We have gone into the peach business; one of
    my neighbors will have in the spring almost 4,000 trees set out. Last year he sold peaches at Athens which brought him $\varepsilon 1,500$. He
    hauled to Athens, five miles distant, whith one team, 120 bushels in a day, out of his orchard of 2,500 trees. Next sprlng thousands of trees
    will he set out lu this nelghhorhood, as almost every farmer has a lot heeled in. Our part of the county is bound to boom, as the oll excite-
    ment is raging in our fleinity. $\quad$ E. A. W.

    Fros Michigast- In Ogemaw county (the
    "Peerless Atlas of the World" will show where "Peerless Atlas of the World" whil show where
    it is situated) there are thousands of acres of wild land which are well timbered with beech, hard and soft maple, black aud whitc ash,
    basswond, elm, hirch, red oak, etc., whilch cau basswond, elm, hirch, red oak, etc., whilch cau
    be bought for $\& 4$ per acre. The soil is good. plenty of good water and a liealthy climate. plenty of good water and a healthy clima
    There are readers of Fabs and Framside w have no home that, by a little industry, county has at present three rallroads.
    Couty has at present three rallroads. J. B. E.
    Churchtl, Sich.
    Frosi Wiscosisin.-Oconto county is situated in the north-eastern part of the state, and has a population of ahout 18,000 . Oconto city has
    some of the largest $s a w-m i l l s$ in the statc. soine of the largest saw-mills in the statc.
    Here is a gond place for a poor man to get a
    start. Woodlands rauge from 81 to $s 10$ au acre start. Woodlands rauge from 81 to $\$ 10 \mathrm{au}$ acre;
    improved farm lauds, $£ 20$ to $£ 30$. Good water cau be had at the depth of twelve to twenty
    feet. If our crops fail, we can get work at good wages in tie pinc woods, or in the mines north of here. Wheat, oats, rye, barley, pota-
    toes, corn, watermelons, apples and garden
    vegetabies grow well here. Potatoes sell at 30 vegetables grow well here. Potatoes sell at 30
    cents a bushel; hutter, 20 cents a pound; oats, 30 cents per bu
    Lena, Wis.
    Fhosi Softh Dakota.-With a little more rainfali, this part of South Lakota rould be a
    fine farming country. It is healtiny, and has very fertlle soll. Fallure of crops, by drouth, in
    some focallles north of here, has created some suffering this winter, but partics who lave
    kept out of debt are all rigit. Most people kept out of debt are all rigit. Most people
    came here with too great expectatious, ran in deht for machinery, horrowed money at two or three per cent a month, expecting to pay it
    hack after harvest. Drouth cut thelr harvest
    short, the three per cent man forcclosed, the short, the three per cent man forcclosed, the
    sheriff sold their chattels, and they are left is all right. Land is advanclug in pricc; good

    ## Ada, South Dakota

    ## Fhom Easteis Kansas.-Almost all grains

    aud grasses common to Oillo suceced well insome parts of Kausas. Clover, and all tame grasses, do well on my farm. Clover does ex-
    ceptionally well. Whiere clover is a success, a
    farmer has a inighty force at his command. farmer has a mighty force at his command. Milami county is a border connty. Paola, the City, which, perhaps, is makiug the most rapid

    Experiments of the last two or three years
    seem to show that Kansas is golng to succeed seem to show that in making sugar iu paying quantities from sorghum and beets. J. A. H. sarghum and bee
    Paola, Kansas.
    From Alaba3sa.-Cleburme county has rich, alluvial boltoms, Which produces coru Wheat, oats, grasses, etc., and uplands for cot The farmers are nearly out of deht. One more good crop will set the farmers up in this county. We have good schools the year around and churches of several denominations. There are a great many northern people in our
    county. It is rich in minerals, such as gold silver and copper. The mines are worked in places and are turning out well. Cleburne about four thousand hales per year. The Farmers' Alliance is a large organization, and it has done much good already. Land is
    cheap. The saw-mills are dolug a large husiness. At Tallapoosa, Ga., they are putting up a cotton factory, au frou furnaceand many
    other worls.
    $\begin{array}{ll}\text { W. J. B. }\end{array}$ Rosewood, Ala.
    Froy Washingron.-The majority of the people of the United States must look
    westward to look formard, while we of the Westward to look forward, whlle we of the
    north-west in "looking backward" turn our cyes to the East. After the Northern Pacific rallroad was completed we literally stopped the mouths of gainsayers with our apples, and grains, so that from saying that re could tell "whoppers" they were forced to admlt that we could produce "whoppers" We no longer have to cut an apple or a pear in two pumpzin or a squash, painted so as to resem ble fruit. Callfornla is Justly noted for her cllmate; her people for their egotlsm. Dame Oregon stlll lulls her sleepy children upon her ample breast. Iu Washiugton, having complre has fixed her throne, to shine in splendo till the crack o' doom. North-westward, ho Dayton, Wash.
    West Tennessee. -The lands are thin, but corn, wheat, oats, rye, potatoes, and fruits of all kiuds. No couutry suits grasses better than hardly cold enough to justify winter clothing. No corn ueed be taken for cattle, as we have good grazing during the entlre winter. I see Negro. When they are gone, thls will be the greatest country under the sun. Land is cheap as dirt here, and can be hought at a low prlce.
    I know of good land that can be bought for oue crop. Everything is cheap here. We have
    good schools, good water, good climate, and the best people in the world. I do not think line hut could llve of Mason and Dlxon as any man south of it. The people of the South are a whole-souled people, quick to get harbor hard fecliugs agalnst them if he knew
    E. S 5 them well.
    Somerville
    Somerville, Tenn.
    H.S.s.

    Frosr West Virgnita-Randolph connty is eastern part of the state. It contains 1,040 square miles, and is on the headraters of the county has some of the flnest mountain
    scenery in the world. Here are the slnks where nature has formed a tunnel through the mountain, onc mile in length and twenty-fle
    to one hundred feet wide, beautifully arched over with limcstone rocks, and a large creek goes silently through on its course to the
    Ohlo. The mountalns vary in height, with beantiful, fertile valleys bet ween, from one to
    three miles in width, with a flue atmospliere, and the finest water in the world. The main crops are wheat, corn, oats and buckwheat,
    which make a good average yield. Grasses grow in ahuudance, such as timotiy, clover,
    red-top and Blue grass. There are fine stone coal veins from tiree to twenty feet in thickness. The timber is wainut, cherry, ash, A pples, peaches, pcars, clierries and grapes do plentifully on the mountalns. There is plenty of wild game, such as deer, hlack bear, wild
    turkey, pheasant and sqnirrel. The waters ahound with speckled trout and bass. Land ranges from $\$ 2.50$ to $\$ 100$ per acre. I think
    emlgrants who want homes ln a good, healthy atmosphere would do well to come to Randolph coulty.
    Beverly, W.
    From Virarima,-Fauquier county is one or Irginia. It has an area of about Git squar Irginia. It has an area of about Git square products, besides an abundance of apples, pcars, peaches, piums, cherries and all sman
    frults. This county ranks second fu the production of wheat and corn. Fauquier grazes 2,500 head of cattle, for Ballintore, Washing
    ton and Philadelphla markets. Warrenton, the county-scal, is a beautiful town of about
    from Washington City and Baltimore, and but
    twelve hours hy rall from New York. Near hwelve hours by rall from New York. Near here are sltuated the Fauquier White sulphr one thousand guests every summer. This is a supply home markets or to ship to Washingcon. Thls county is well supplied with rallroads, churches and public schools, hesides
    numerons academles and private schools. Land sells at from flve to sixty dollars, accordIng to $1 m$ provements; aud I know of no place where a mau can get a home for as little pidemles, cyclones and blizzerds. Tin mer cury rarely reaches as low as zero, and there are but few days iu the year in which ontdoor work canuot he performe. plowing for spring crops.
    Bealeton, Va.
    Froy Indiara. - Boone county is ahout thirty-ire miles from the capltal of the state Indlana and Illinols, hut none to compare Indilh this section for miscellaneous farming everything that can be raised in this latitude can he grown here. A mau with five thousand dollars could not find a hetter place to invest hls money than in Boone county. Corn suil ranges from a light clay to a deep, black loam, with a sandy loam in the hottoms. The land was formerly covered with a heary growth of poplar, sugar, walnut and burr-oak drained and evers thicket cleared. We have the best free, gravel roads I ever sav. Our school-houses are all brick, and hetter ones than I hare ever seen in any country outside
    of the towns. Churches are plenty, aud of all denomlnatlons. Thoroughbred hoys are raised almost excluslvely. There are slx or seven hreeders and slippers lu this neighbor raislng the cry of hard times, I seldom eve hear the word mentioned here. And I believe it is owing to tho large amount of hogs and clover ralsed. All the corn that is raised is fed the fodder fed to all the we raise a grea many liorses and cattle. Good horses sell a from $\$ 100$ to $\$ 200$, right at home; good brood mares bring even more. Land is comparatively cheap, rauging from 235 fosis. Fruit does well, espectally apples, plums, cherries and berrles. Some of the fluest sirup from sorghum is
    made here. It sold, wholesale, in the market for 40 and 50 ceuts. The land is generafis ieve u thls sectlon, with Just euough fall for goo dralnage
    Thornto
    From South-west Iowa.-This section of the "Harkeye" state is becoming famous as the Blue-grass region of Iotra. Adalr county is a rolling, fertile prairie with several streams fowing through it from corth to sonth. Along native timber, such as oak, hickory, elm and basswood, extend the entlre length of the county. The tlmber is sufficient to supply the county, yet a large portion of our people use
    coal as fuel, as it is cheap aud less trouble than wood. The soil of Adair county is of a dark, sandy loam, and possesses all the fertilits and frult grown $\ln$ the northern climate. In of, coru and small grain, hut Adair aud adfolning conuties went bcyond the average.
    For fourteen years there has not been a fullure of the corn crop. have spent part of each year for several years in other states through out the mindle and western states, and know
    for myself that Iowa is excelled by noue in grazing aud agricultural resources. Polnt to a ask forassistanceon accouut of fallure of crops. Home seekers can come to south-rest Iow and be sure of a good crop every year. Land from $\mathbb{S}$ to $\$ 40$ per acre. Good, unlmproved lind may be had for $\$ 10$ per acre. Corn several years, belugs now worth 16 cents per bushel, while the average price is from 20 to 30 cents. Taking one vear with another, whea rye, 75 conts to 81.25 ; potatoes, 255 to 50 cents;
    rys
    oulous, $\$ 1$; beans, $\$ 2.50$. A pples were a drug
    on the market last fall at 30 cents per bushel. Hogs are $\$ 3.75$ per 100 pounds; good linrses are Horth $\$ 100$ to $\$ 150 ;$ milch corss, $\leqslant 20$ to $\$ 35$. Butter averages from 15 to 25 cents per pound; eggs are gross. Corn yields from 50 to 80 hushels per hands are paid from $\$ 15$ to $£ 30$ permonth. Our preatest drawback is the cold winters. If a here lie nced not look elsewhere for a place to Fulld up a home.
    Fontantelle, Iown

    ## *

    From Texnessee.-Tennessee is the smalles of the southern states except one, and ranks lze, and twelfth in popilation. Its area is 42,050 square mlles, heing 430 mlll f from east to West and 105 inlles from north to south; it lles average elevation is about 600 feet. The prln.
    clpal rivers aro the Mississippi, Tonnessee
    and the Cumberind. The Tenuessee is uay igable to Knoxville in east Tertuessee. The Cumberiand is unvlgable to Nushyllle, and in is both healthifu and dellghtinn. The miean temperature is $55^{\circ}$ Fahrenheit. The average valling winds arefrom the south and south west.
    Excellent fron ore, coal, copper, lead and zlnc are found in many portions of tho
    state. Marbie of various kinds and colors, sandstoue, limestone and granite abound in troleum wells have been sunk in the state and mineral sprlugs abound In all portions. Abou one half the state is forest. The natire grasse are rich and nourlshing and other nutritlous
    grasses thrive. The forests are composed of ash, chestnut, black walnut, white Walno maple, lilckory, poplar, locust, sscamore, gum Evergreens of different kinds are plentful. Biackherrles, strawherries, raspberries, grow wild in profusion. Game, such as deer, lozes.raccoons, no ossums, rahbits and squirreis,
    are plentiful throughout the state. Partridges pheasants, wild turkeys, etc. are quite pl Hfui. Attention to the hreedingand raising of domestic animals has not heen fostered in
    this state as it should have been, but lt ls fast gaining ground.
    1826, and is a busy and capital of the state in than 40,000 inhahitants. Six great battles wero fought within her borders, besides two bund red and ninety-tro minor engagemeuts during the civil war; hut Tennessee, as a whole (in a sectional and partisan sense), has for
    hat her soll was ever stained with blood. was the first of the seceded states admitted the Union after the civil strife ended. Tho the square mile. The average slize of farms in twenty-five acres. Some of her products are as follows: Corn,
    hushels; wheat, $7,330,000$; oats, $5,000,000$ potatoes, 250,000 ; Irish potatnes, 1,350,000; bacco, $30,000,000$ pounds; Cotton, peanuts and a teel, leather, pacted meat, carrioges, f every descriptlon, cotton aud wnol machine.shop products, a mounting in besldes gregate to $\$ 0,000,000$ annually. The minin ucts are about $\$ 1,000,000$ a un ually. The quar products, chlefy marble, are ahout $\$ 250,00$ Tue pubic schools give opportunity for ir wenty-one years of age, without regard
    color; separate schools are provlded for whlt and colored. The state has many noterrori institutions of learuing in additlon to arge cities, hat for thrift, enterprise, bos ality, generosity and rim I think our rill compare
    I stated in the productions of the stato th Tenne which is ralsed in Montgomery and adjoining counties immediately around Clarksrill which ls a city of clght

    ## uresque Cumberiand ahour

    helow Nashville, and on the Memphis h of the Louisville and Nashvilie rallroad Loulsrille and two hondred miles from lromphits. Clarksville is surrounded by never-failing springs and lanumerable creeks, whicit make it a fit abode for man, and a fine conntry for those whinhag to cugage in stock ralsing
    milling. Improved farms can be hought from $\mathrm{El0}$ to 550 per ucre, one payment casi, With gond churches and schools it is neediess within a few miles of inexhanstible ore bed of the finest quallts, timber, stone and coal. I regret to say, her people have heretofore that enterprise so essential in a manufacturling city. Had it not heen for the expenditure have bcen to-day the peer of any manufacturng city in the South. Some of her mosi bcyond their hat hrims and tohacco factorles. aud west immedlately surround her, from
    which she can draw fresin and chenp supplies. Bring us capltal mixed with enterprise, and promise you a hearty welcome and a good hoopitable people. When passing around, jusi call at clarksville, and inspect her and ine
    surnouling country, and see the inducements
    J. D. MCC.
    

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     I sam a flash in my rival's ese As I kiseed the tress as it fanned my cheek, And I said to mrself as I heard ber sigh, I bent mr head 'til it tonched the glory Of zolden bair that And there in the waltz I told the story
    That shali ret le new when the worid is dead. There in the waltz I won my treasnre,
    Full in the baill-room's glare and heat, Whirling swift throngh the waltz's As I looked in her eyes, brimmingo'er like a rire
    I clasped her close, for I knew I had won ; As I laoked her close, for I knem I had won
    And then, with a blare and a crash and shi

    ## The music ended-tie ralt wane.

    ## A Bartered Birthright

    

    ## IX.

     money. Not the
    wild rush of a beaten army from the field, not the
    singing of a multitude around a tali building wrapped in smoke and flame when tull of mad resolution; nor is any panic so quickly commenced.
    The very air was filled with flying rnmors of disaster to the bank. From the moment that Tro men standing on the corner told two their deposits, and hinted their fears that something was wrong, the story went up and through the shops, the milis, the factories, al orer Scioga, as though it had been winged What was known was repeated again and
    again, with startling and highly-colored exaggerations. The cry was abroad, "Save yonr deposits!" Workmen in their shirt-sleeves, men with paper caps and leather aprons, dropped their work and pressed and elbowed for pushed and struggled for place. The poife were ther in sumpient numbers might as well have attempted to make a dry paih across the river as to lieep that sidewalk clear. It was an orderly crowd, save as it heared, and throbbed, and sent up a low, ferce murmnr. There was no violence Fet money; there were no threats. Only a bare armed Hercules from the furnace said, look ing np at the ligh front of the "Barkley
    "They say il's fire-proof.
    "Yes."
    "But $I$ say, if the poor little earnings of $u$ folk don't come hack throngh that hole there The "Security" had The "Security" had always invited deposits, paying as much interest on them as the say ings bank, and the popularity of the institufor pears recommended it to all classes as safe place for thelr surplus, large or small. No bank in Scloza was in a sltuation to be so damaged by a "run" as this one.
    Up to tirree ociock the excitement had hardly abated. Nothing else ras talked of osity-seekers swelled the crow and Increased the agitatiou.
    some of the directors and other substantial men of buslness wellt about, talking. arguing striving to allay the panic. Most promiaent Was Mr. Barkley, mounted upou the bank
    counter, looking down over the lattice counter, looking down over the crowd and haranguing them in his homely, earnest way while he flourished a ruler in hls hand.
    your money, if you want it, there's lots more your money, if you want it, there's lots more
    where it comes from. We've telegraphed to Chicago for a cool tuudred thousand in specie all this fuss about, anrway? Come to me, and I'll guarantee your books and certlficates. If you wantit. Alut Norin Barkley worth half a
    million yet? D'ye think I'll stand by and see the "Security" suffer-or 50t cither?"
    "Where's the hook-keeper, Uncle Norm?" somebody sang out from the crowd. for every dollar he's stole.'
    "Where's Skelton's moner-and the Porcn
    pine bonds?" "ine bonds iskelton is every cent, and interest. He's satisfied; what are yon makin' a row abont? Them bonds areall be paid for at fuli valne. I'il have yon fellers know that there's stuff in old Barkley

    The crowd laughed; some who had no deposits cried "Good!" and applanded; but the work at the teller's connter went steadily on, the press was as great as ever. The afternoon papers came out with a very brief account of the "ran," and assured the pnblic that there Was no adeqnate cause for it ; that the "Secarity", would experience no embarrassment. Still, it ras observed and generally commented npon, that the teller's Window was closed promptly at three oclock, the annoancement being
    It was generally known that a meeting of the board of directors was held that night, and ithere was great cnrlosity and interest felt to know what had happened in their locked parlor. As soon as Scioga was astir the next traversed the street. It was asserted that the board waited long for the cashier, Mr. Nem. bold; that he did not attend the meeting, and conld not be found. At ten o'clock the "Se-
    carity" was not open. An angry roar came from the crowd as they read a placard just hang out: "Closed three days for examination."
    

    ## D pursued.

    CHAPTER X. R. Newbold had re-
    mained in and about mained in and about
    the bank during the the bank during the
    stormy scenes described in the last chapter. He had at times jolned hisefforts to those of the men ing tosatisfy the crowd that there was no in his place, and participated in the hurried consnltation at which it was resolved to put the books in the hands of an expert over
    nlght, and to hold a directors' meeting at nlght, and to hold a directors' meeting at
    seven o'clock. It was an anslous, tronbled
    ntes, Vi," he sald. "Don't detain me; I'm in great haste. There's to be a mee
    board at seven, and I'm to be there. He pansed midray of the stairs. A thonght occurred to him.
    "vi, go to the door and see if anybody is She wh around in front."
    She went, looked ont, and reported.
    ide of is an ill-looking man on the other side of the street, in the sh
    Nerrbold hurried npstairs. "Curse him!" he mnttered. "He'll never lay eyes on me again."
    Violet
    Violetta rang for dinner to be served. She Was quietly refoiced that her father was still
    with her, that he was coming down to dine with her, that he was coming diren tould meet the directors in the evening. He had said nothing this time about fight or exposure. She had a momentary relief from her miserable fears.
    Half an hour passed, he did not come. She went to the stairs and listened. She heard nothing.
    She went up and tapped softly at his door
    "Father," she asked, "are you not ready?" There was no answer. She tried the door; was locked.
    The thought of self-destruction flashed npon er. He might be in that room now, dead from poison or dying from the razor.
    She flew down the stairs to summon help. She looked out at the front door agaln; nobody was in sight but some children piaying, the trees. She whaly beckoned him "o cowe over. "Oh, fraid something is the matter with my poor father.
    She could not know how gladly Saul Bndd accepted that invitation. She was too agitated to remember a certain statement in her mother's letter; perhaps in this strait she conld
    have heeded it, had she remembered it. She told the man briefly and tearinify tha her father had gone upstairs to his room, promising to come down to dinner in a few minutes. He had not come; she had songht
    him; his door was locked; he wonld not answer.
    "I wonder if the fellow has taken the short cut!" was Budd's reflection.
    
    "Did You Come on This Train, Stro"
    time for everybody connected with the "Securitr," but compllments were not wanting or the cashier. All turned New.
    "You're a first.class feller, News," said the president, slappiug tim on the back. "You've been doln' good work out in front there,
    among those lieatheu. I know you'll stick among those heatheu. I know you'll stick
    to us like was. Be sure and come to the meeting at sevell o'clock."
    exper"" experience alld his skill, and his character
    with the public, will be worthererything to us in this crisis."
    It was four o'clock when he was free. He cape it, and entered his house in a lelsurely and deliberate way
    Violetta met him in the hall. Her eyes were red with weeping, but a glad smile came to her face when she saw him.
    After the intervlew of the night before, the man lad thrown off the character of the af fectionate father. He would not resume stifled his feellngs, and put away the offered klss . He spoke to her with a lying tolngue. "I'll be down to dine with you in a few min.
    miss," he said. "If it's as you fear, we mnst get to him post-haste, or we'il be too late. Bring me an axe, and I'll break in." With a fer vigorous blows the door was orn from its fastenings.
    Budd afterwards minutely described the He exance of the room and its belonglngs. He exanined everything.
    day were scattered ou the carpet,
    Drawers of the bureau had been taken out and left on the bed. They were empt5-except that ln the larger one a piece of paper was found, which, on examination, proved to be a five-dollar note. A gold piece was also
    discovered. On the floor were strings and discovered. On the floor were strings and
    wrappings, cridently taken from packages of papers.
    This was all. There was not a scrap of rrit-
    ing to Vi-to anybody. He liad gone in falsehood and secrecy. But how?
    by birl was distressed by these dlscoveries, and a happy idea oc-
    curred to him. "I won't trouble you ans more, miss," he Please show me down the hack way."

    She complied, harrylng thence to her ctam. parent now: Eitchen
    "I'm an offcer," he said. "I'm looking for a man. Who's been through here lately" Feither of the women had quite got over the excitement and fright of an lncident that bad happened a little while before. An old man,
    all stooped over, with green spectacles, white all stooped over, with green spectacles, white satchel, had come hobbling down the back stalrs. The women were so surprised that die together in fright. The old man toot ho tice of them ; he limped ont into the yard ; b the domestic, following at a distance, saw blm climb orer the brek fence and disapper. From this point we may follow him distance, ere we meet him further on in h. fight.
    was was afterward proved that snch a person Was seen to be making his ray out of town teredenig. That at seven oclock he enstation fonr miles from Scioga, rode to the next station, some ten miles of, and the left the cars. From this point histrac lost for a time, to be discovered later, at a dstance.
    Saul Budd hurried to the bauk, blg with the news. He had valuable intelligence to se $l_{\text {, }}$ was only a little past his market. The time state of mind several of the directors were a ready there. He obtained an entrance and at tention, and at once offered to produce dence that rould satisfy them who the was, for one thousand dollars. No threats entreaties couid move him from this posit "I have information that you can't do and you must pay for worked hard to was consnlted. "The fellow is disreput bnt sharp," he said. "He's all business. probably got something to tell that is w money to yon." Finalls, a compromise nade ; Budd was to receive fire hundred lars down, and as much more if the informs-
    tion should lead to the detection of the crim. tion
    He told his story, sparing no details of it Newbold for years, and who would hare trusted him as a brother, heard the shametp truste
    Ing silence of dismay fell upon that meet ing as Budd told of the gaming "My God," exclalmed Mr. Barkley, "it can" be true! Newby a liar, a hypocrlte, a thie!? I'd sooner suspect myself
    The Scioga papers of the following day gare two columns to these astounding revelations The details of Carson Newbold's crimes an
    his protracted and successful efforts to con ceal them man in business circles had seemed so un
    likely to fall as he; and the news prodnced : painful shock. It was stated that the he had abstracted, were valued at one handred negotiated some of them at the East; that b had embezzled special deposits tem of forgeries on the books, whlch none he an expert and one acquainted with ever been able to absorb about twenty thousanc more of the cash without susplcion. It was
    said by some of the rould-be wits that these forgeries required leisnre and secrecy of oper. atlou, and they asserted that the only time
    when Newbold could possibly have made them was on Sabbath night, after churcb The papers further stated that the decamping book-keeper was probably a confederate o
    Newbold to some extent, although it was im Newbold to some extent, although it was in
    posslble at present to determine the exac possible at present to determine The family of the defaulter was spoken only child and daughter, the accomplishe and beautiful Miss Violetta, as malis sister o Mr. Newboid. To his wife it was feared tha this news would conse with stunnlng effect for the Catskills only two days before. Th papers also stated that every effort was made for the apprehension of Nerbold. Those efforts began before the meeting of th
    directors adjourned. Both chief of police an directors adjourned. Both chief of police and
    sheriff went actively to work. Telegrams of warning were dispatched that nlght to left, to bunfaio, and to New york. Six omcers the Canada frontier. A hot pursuit was on foot.

    ## Chapter Xi.

    The early express on the Lake Shore roal rolled into the great statlon at Buffalo or time, with six sleepers and three coaches.
    Two detectives stood at the entrance of the waitlng-room, and scanned the crowd of passengers as they made their
    was out to the street pockets Indicated that the man for whose capture ten thousand dollars reward was offered by the Surity bana sortainly
    on thls traln. Thelr information was exact; he was dinguised as an old man with sliably carrled a satchel full of plunder.
    But they did not find him. The five hun-
    dred passengers filed tiwnong slowly that they had ample time to examine every face and form. When they were al.
    past, the detectlves had nothing for their past, the detectlves had nothing for the detalned at a venture, and whose indignant jabberlug of the Suabian patois and powerful odor of bad tobacco sufficlentiy proved bim The flock of travelers gained the street outslde, and were dissolved and mingled witb the man wlth eye-glass, tall drab hat. light fannel suit, long duster, and new leather satchel, stepped nimbly along Exchange street, crossed Maln, and stopped at a small station on the
    Terrace. He looked much like a college professor, a can vasser for a c
    clergyman on a vacation.
    Many peopie were walting here to go down
    

    Niagara Falls, and this man purchased ticket for that point. The train soou came others.
    swift-gllding panorama of meadows, woods, pleasant country places, and tbe majestic sweep of the great river toward its awful tu mult belon, his thoughts were rery actlve. The exercise of keen wit had saved him so far
    from detentiou or arrest. The misdirected abllty tbat bad during montlis enabled the cashier of the "Security to carry on a large had also enabled him to anticipate the prompt and extensive telegraphing that would follow hls fight, the discovery of his disguise from the officers of the law, stimulated by a great hope of reward, wonld spread for him at cer tain polnts of h is escape. Hence we find him unw, with the haven of rest and safely that
    remains to the embezzler, the defaulter, and "boodier," in sight, with his dangerous dis-
    guise thrown off, traveling in just that way whicb, after all that had happened, would be He kas to baffe the oficers-as hinseif This part of the country was well known to him ; he had hin past years traveled this way on pleasure, and on the business of the bank.
    When tbe traill stopped at Black Rock, and agaln at Tonawanda, the sight of tbe river and the Canadian sliore tempted him to ierve
    the car, aud try to gain immediate safety. He hesitated, he dared not make the attempt at those places. Thicre were established steam-
    ferries there, where everybody crossed; he knew tbat more officers were on watcb there for him. He realized the power of that wonenough himself to understand what it might accomplish, even In a desperate case. Already had been reported at of the Buffalo officers ciews, possibly the discovery of the discarded disgulse, had reached Bnffalo and gone on
    ahead of bim down the river. Tblngs like that had happened before; they might in his
    case. And where other fugltive criminals often fall in relaxing caution and cunning when the goal is in sight, this man was not to
    be found wanting. He was cunning to the The train neared Niagara Falls. He had never Intended to go there; he knew that redoubled detective vigllance would be armed for his arrest in that situatlon. At the hamlet was made, aud here the hunted mau left the
    He strolled along the platform, looking at one side, and the great widthe quiet street on fiver on the other the islands far over, and the Canada llue lying liazy beyond. The gramin his hand. He cast a glance at New-
    bold, a sharp, quick look, and paused. He tried to look unconcerned-but failed.
    "Did you come on thls train, sir?" he asked
    swering in a breath, and with perfect compos famlly a mile up the river, and wflized down to take the train to tinc Falls. I just missed it, and must wait for the next. When wili it
    "Eieven twenty-flve, sir. Walk into the waiting-room, and I'll be back in a moment and get you the morning paper
    poise briskly, even cag understood him as well as though he had back," Hant to find you here when I come the whadow, and saw the agent turning his head over his shoulder as he walked, to be
    sure that hils request had been complied with sure that his request had been complied with Tbe fugltive waited one minute. He sectured where the man was going with that the station by nn opposite door, he ran around large railroad shed, keeping out of sight a mucli as possible, and paused in the slielter of glance at the river. A tug was puffing up agalnst the current, towing some logs that had broken loose from a boom above; two all-boats were slkimming over to Navy Is men was In mid-stream. He knew there was no regular ferry here, and he dared not go finding a boat. He knew that he was already practlcally discovered; to stay two minutes longer in the village, failinds to find the means to get across
    tain capture.
    Another plan swiftly presented itseif. He peered out from behind the shed upthe track; the ticket-agent had not yet reappeared. Mr
    Newbold darted over the rails, jumped a feuce crossed a field and plunged into a strip of timber
    Energing from this in a few minutes, he crossed a corn ficld, and found himself clear of
    the village. Climblng another fence, he en the village. Climblng another fence, he en-
    tered a broad highway, and walked northerly tered a broad his
    For inalf a mile or more he went ou as fast a co could waik. He passed haymakers at veylng a man aud woman to La Saile, who veylng a man aud woman to La Salle, who further on he came to a comfortable farm house with a large barn, the proprletor of sleeves, salting his stock.
    Mr. Newbold walked up to him, and spoke in quick, crisp sentences.
    "You've got a horse and buggy?"
    The farmer had no lack of horses and vehi cles; but tbe unexpected questiou surprised him to silence.
    "Speak-quicis!
    "Wby, of course. What-"
    "You know the way to Lewlston?
    "You do, anyway." replied the farmer, re "."
    "Illve in Buffalo; my wife is at the polnt of death $\ln$ Toronto. I came down on the train this morning, stepped off at La Salle, and got left. I must get to Lewiston in time for the down, and I'll give you ten dollars.'
    The farmer eyed his visitor, was and thoughtful and said uothing.
    gently.
    dreadful busy season," objected the man. "Hayin's ba
    "I'll do it. Cau't go myself, but I'll send my boy."
    "I will; but you'll have a close time to catcl
    tliat boat."
    In spite of Newbold's constant urgings, the
    
    aul budd's imposition on the domestics. most deliberation. He had not been in a hurry hinnself for thirty years; and tbough he could sympathize whe the amicted gentleman's desire for haste, especially after the promised reward had been transferren to his pocket, his leisurely habits of action were not
    to be suddenly dismissed. Fifteen precion mlautes had passed before the figitive wa his knees.
    The horse was a fair traveler, and the man and his driver went along at a steady pace
    over the old "Military Road," Where two
    bundred years before the Chevaller De La Sundred years before the Chevaller De La
    Salle portaged his supplics around the great cataract, to bulld the first vessel afioat on the upper fakes. The boy made a remark He threw over the buggy-top, and looked back.
    "Are there anly
    uddenly asked.
    "Yes. Some real fast. The constable has sot a team of blaciss can go in less'n four min utes."
    "Drive faster."
    Some miles were passed in slifence. The boy told afterward how the gentleman lsept look-
    ing back, as if expecting pursuit, and how his ing bacls, as lf expecting pursuit, and bo
    hands workcd nervously on his satchei.
    "How far now to the top of the mountai ridge?" he asked.

    He looked back agaln. For nearly a mile behind the road was level and stralght. H saw a rapidly moving object in the distance.
    it was coming-comlug fast. There were horses. The b
    "Them's the constable's blacks."
    
    and laid on the whip. Tlie horse broke into a wild gallop; the terrifled boy clung to the the fields by the bounded along. Laborersin dren in the doorways and by the gates, looked unfright as that flying apparition went by. hat the pursuers were gaining.
    "They'll catch ynu'fore you get to the landing," the boy whined. "You'd better stop." But Mr. Newhold had no intentlon of golng to the steamboat-landing. The loug arm of
    the telegraph could reach him there; tbe message had, an bour ago, flown from La Salle. He had one last, desperate chance; all the detalls of it were arranged in bis mind as he maddened, foaming horse.
    The road curved; they dashed out upon the summit of the mountain ridge.
    The driver turned the animal up against the ence to stop him suddenly, and sprang out, rasping his satchel. He took in the whole magnificent panorama at one glance, and ten years before, when he and h1s wife and Violetta werc at Niagaral Falls, they had ridden down here in a carriage to enjoy thls vlew. He saw the broad, smooth mirror of Ontario ying but seven miles off; the wlde river at the
    left wiuding down smoothly to it; the large expanse of field and forest, over which the
    shadows of the summer clouds chased each shadows of the summer clouds chased each other; the vllage nestling in sleepy, rurai great curve, gradually descending the height and makiug asemi-circle down to the landing, where he saw the smoke of the steamboat-he aw it all at o
    way of escape.
    The rlver lay to the left; he could reach it far above the landlug by skirtiug the village;
    it was a full mile off, and for a good part of it was a full mile off, and for a good part of
    the distance the way was hard and rough. From the top of the ridge was a steep descent of five hundred feet, rocky, hinderbrush, difficult and laborious heslation, Newbold went over the summit and disappeared.
    In three inintes a palr of blacks horses dashed up umped out. They hls panting, trembling anlmal, looking at "Where's that man?" they shonted. He polnted over the rldge. Far down its
    side, nearthe base,they saw a figure struggling thregh followed, leaving their horses with tbe
    
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    ## (G)II fiturdiold.

    ## the legend of the lily.

    anyie wall.
    Once, when this grand, old earth was young, An angel thought to bring, To offer to his King.
    He wandered o'er the fertlle fields, He gazed on blessoms brigh, Too gay to please his sight
    h, for a pure, white flow'r," he sighed, "Fit for my King to wear. Though long be songht, no flom'r of white Was blooming anywhere. rn and wears, he sat down
    To weep that none were foun His crystal tears flowed o'er his robe And sauk into the ground.
    At once a 111 F white sprang up, Singlng, he gathered it and flewr And laid it at God's feet.
    Pleased was hls King. "This flow'r," he sald, Because of this shall grow O'er all the enrl below."
    came the lliy, pure and fair Who looks may read this sigu In its white cup, the angel's tears,
    The purity divine. Puesto. Co

    ## HOME TOPICS.

    Beds and Bed Maktivg.-Not many eurs ago no girl thought she was ready to married until she had one or two large, ffy feather beds; now we seldom see one less it be on grandma's bed, who, havslept on feathers all her life, cannot nk of giring them np now. If a feather 1 is used, it is a good plan to have a slip 'er for it, which can be taken off when led and replaced by a clean one. These o covers are also nice for a mattress.
    $t$ seems to me that the ideal bed is any
    e of sereral kinds of good spring beds th a good hair mattress; over the matress a thick, white blanket and then the acets, with blankets enough for warmth outside corering for tho bed may be thing that suits the taste of the occu $t$, but I confess to being old-fashioned enongh to prefer a white spread to any ther
    The use of sheets is to keep the bed and other bed-clothes clean, and the unde sheet should always be put on with the wrong side down and tucked in all around the mattress, then put on the other sheet with the wrong side up, so the two right sides will come together. Let the upper heet come just to the headboard of the bed and leare the extra length to tuck in at the foot. Put on the blankets and spread so they will come about six inches from the head, and turn the top sheet ore them, tuck all in well at the foot and sides, and the bed is ready for the pillows. If one is always carefus to put the sheets on with the right sides together, the clean sides will always come next the othe bedding. This is one of the first thi each little girls abont bed making. ordered household that all the beds should be made very soon after they were vacated
    

    Clothes-Line Hoist.
    night long exhalations are passing off from es, we can see hov necessary it is to lare the beds well aired and, if possible, exposed to the purifying made np. Erery member of the family should be taught to set a chair at the foot of the bed, lurn the clothes domn orer it,
    lay the pllows on another chair and open wanted. rail vase or bit
    their place after sary cares. $\qquad$
    the windows of their rooms before the leare it in the morning. At least twn before it is made. Keer a Note-boot.-It takes but little time to write down a sentence or two in a note-book, and it will often sare a great deal of time and worry. Frequently, if one tries to burden her memory with all the multitudinous duties which devolve upon the housekeeper, something which it *as important to hare done at a certain keeping a note-book would preverit this.
    

    Border in Irish pont Lace.
    One may hare, as they should, a place for everything and everything in its place, yet it is hard to remember, sometimes, where cach particnlar place is, especially of things that are only uscd once or twice a year. A few words in a note-book would saro many an hour of search, bo sides the worry of not being alle to put your hand on the thing just when it is

    Too Mifch Bric-a-brac.-There is a strong tendency to fill our houses too full of bric-a-brac, or, as a certain housemaid called it, "break-your-back," and also of furniture and fancy work; tidies, scarfs, etc:, are put on ererything upon which they can possibly be placed, until there is danger of disarranging something if one tirs. It is a pleasure to look at pretty things, but when they interfere with comort the pleasuro is doubtful. I haro been in parlors where the tidies were such delicate picces of hand painting and lace that no one dare rest their head against them. Ottomans and foot-rests corered with such dainty material and upon which so much time had eridently been spent in he adornment, that the most careless ould never think of placing a foot upon them, although the motto, in dclicate tracery, reads, "Rest thy weary feet."
    unlight must enter these parlors to fade the delicate colors, and one hesitates to take a step for fear of stumbling over a cushion, upsetting an easel with its picture and drapery, or knocking down some
    of the time Fand strength which must go to the dusting and rear ranging of all frail and precious to be trusted in the hands of any one but the owner. It makes onc tired to A lady told mo only a few dars ago that sho spent four hours dusting her parlor and putting things in tho sweeping was done. A room so filled with fancy vork, pictures, ceramics, etc., that it looks more like a bazar than a part of a homo, lacks at least one element of beantr, fitness. Let us make home beautiful, but be very careful not to sacrifice comfort or burden ourselves with too many unneces-

    Malda McL.

    Make four of these stars, joining them picots at the top of each lear.
    For the scallop, begin with a single st in
     ingle in the second picot of next lear icot, 9 ch ; * repeat from first star, round he large star, 3 ch , go on to next star. Second row- $11 \mathrm{ch}, 1$ double in $9 \mathrm{ch}, 2$ Three pair of cashmere hose, bought in picots on the 11 ch , and in the top 9 there will be 2 double with 11 ch between and 3 picots.
    On the anderside of the stars, the first and second rows are the same as the scallops, having picots nly on the dest and not on the ch. Two points of a star are made and joined to the 9 ch between the arge stars.
    The illustration must be the guide for placing these. On this again is worked straight row of $13 \mathrm{ch}, 1$ louble in the 9 ch at each ide of the top of the star vitli a purl on it, 11 ch . double in the picot of the leaf, $7 \mathrm{ch}, 1$ single in join 1 double in picot, 11 ch . For the heading -1 tr in $13 \mathrm{ch}, 9 \mathrm{ch}, 1 \mathrm{tr}$ in $11 \mathrm{ch}, 7$ h, 1 tr in $7 \mathrm{ch}, 7 \mathrm{ch}, 1 \mathrm{tr}$ in next 7 ch,
    ch, 9 ch.
    Second row-1 tr, 1 miss 1, repeat.
    Third row- 1 tr in 1 ch , 1 ch, repeat
    Abbreviations used-Ch, hain; st, stitclı; d c,

    ## CLOTHES.LINE HOIST

    Dear Horsenold:-I end you a sletch of a clothes-line hoist which my wife finds rery conrenient. The center post has a lever, Which is secured loy a bolt at $A$, and is held in position by a loose pin, or bolt, at $B$, when line is in use. By this arrangement the old, forked pole is done away with. The lever is always at band and not lying around in the dirt, ready to soil all of the clothes that come in contact with it. It is better to set the center post a little out of line, as it tightens the clothesine more than when in a line with the like it in your columns. I fust anything last month, and it is the ouly one I know of at present.
     pair entirely for dress mear. To finish out the winter, I shall make her fonr new aprons, two white and two of the fine forty-cent ginghams, that you can buy now for thirty and twenty-fire. These stand the wear and rashing so much better than the cheap ones. A cheap grade shrinks rery badly, so that if you use it you must make the garment much too large, to allow for shrinking. Did you ever use Turkish toweling for summer anderskirts? Try it. You will like it. Trim with lace ruffled on nd do not starch them.
    I will keep on with my sug gestions in another articlo, as this is getting too long.
    Christie Irving.

    ## SACHET FOR STOCKINGS.

    This is made of colored India silk, lined with white silk or satin, and consists of a straight piece, open the full length, trimmed with lace, and drawn in at each end like a cracker, with ribbon. Bands of ribbon are tied at intervals in bows; those at the ends are fastened permanently as they are not to be unticd. Any preferred sachet powder can be used.

    ## DNE WOMAN'S LIFE.

    by lizzie blee. Abigail Stebbins was a gir who had what New England ers call "faculty." I call it making the best of yourself and things around your. I never saw her in a close cor ner from which she could not extricate herself and come out of her diff culties with flying colors. Such people always challenge my admiration; they ought really to be generals. She had he share of trouble, but came out of the fur nace of affliction with no smell of fire on her garments. Xes, indeed, she had her ronlance, too, for what wroman has not Admirers souglit her hand, while she fain would have said "'yes" to one, but stern
    duty bade her say "no." Her mother begged her to give hlin up and stay at bome with her and keep
    bright. She consented.
    These two joyous young people parted forever, one glorious June night, at Fleming's Forge. Abbie went homo sorrowfully to their cottage on the mountain. The night-bird sang a rcquiem over their shattered hopes. The poor girl looked back at him as he stood leaning sadly on
    the meadow bars in the misty moonlight. No one ever heard her sigh over what "night have been." She and her mother lived pleasantly, and as Abbie said, "economy" was always their watchword.
    It always seems like a piece of injustice to me to see how parents often seltshly use up the life of a devoted daughter because she happens to be single. Is it any more a daughter's place to give her strength
    son's?
    "A well-dressed girl" she was always ealled, and it all came from being a good Yankee manager. Her silk dress cost much planning. It was paid for in "dribs." silks were quite cheap in hard to get. Once she boarded some civil engineers who were surveying a route
    through that region. Then she sold pork, through that region. Then she sold pork
    lard, tallow, cucumbers, pie plant, soap berries, chickens, eggs, butter, and finally made the last payment by tending a motherless child for a few weeks for a comerless child for a few weeks for a com-
    pensation. Dear Abbie was not above pensation. Dear Abbie was not above
    doing anything that was honest. Her poor, little memorandum book was a pitiful revelation to me.
    After awhile her mother died. Then the little home was sold, for the brothers and sisters all wanted their shares. They had the grace, however, to abide by the had the grace, howerer, to abide by the
    will and let "our Abigail" have the most. will and let "our Abigail" have the most. the Shoals to learn the tailor's trade. Here she lived with their good, old, Universal-
    ist preacher and worked for her board. This pretty girl was known in this rural neighborhood as "the mountain pink." Life was pleasant here. The old for-

    ## true

    Here she met, as she thought, her fate. A traveling doctor saw this blooming young woman, and after a short acquaintance, sought her hand in marriage. He was accepted promptly, with a heart full of love. Occasionally he came that way. She was glad to hear, through this man, of the stories of busy, rushing life in the cities whose gayeties she was yet to enjoy Hls comings grew less frequent and his
    letters less prompt. One day, as her busy needle flew back and forth, she noticed that her engagement ring had suddenly become tarnished. It was good gold, and she recalled a legend she had rcad. It said that when a lover grew faithless his ring would lose its bright color. This lover never came. Tho Universalist
    preacher wrote to a brother minister in preacher wrote to a brother minister in
    the town where Abbie's lover lived, and learned, alas, the truth. At the time-the day and hour-this ring changed its color, this man was being married to another. Abbie did not grow bitter, but developed into a self-supporting woman, and said, "It may be for the best."
    This simple story of one woman's life is repeated often. It teaches a lesson that is not hard to understand. Tho world is full of disappointed Abigails, who submit patiently to whatever life brings, be it weal or woe. They do not grow morjournal I found these lines, that unlock the character of this woman: "Miserable, look within; distracted, look around; happy, look up.'

    ## A PRETTY BREAKFAST DISH.

    Cut cold toast into squares or rounds. If it is buttered toast, so much the better; if not, butter it with cooking butter. Lay a ring of tomato on this, and some flakes of a plen, cooked codifish on the top; cover with a plentiful supply of parsley sauce, put it
    into the oven to warm, and serve hot dish is very economical, and serves to use ap any stale bread, toast or fish and sauce Whlch may not be sufficient to present at table a second time. Garnish with parsley and lomon rings.

    ## BUGS, MILDEW, STAINS.

    Cockroaches and watcr-bugs can be destroyed with a mixture of ehloride of
    limeand sweetened water, or with pulverlime and sweetened water, or with pulver-
    ized borax scattered freely wherever the insects appear.
    To remove mildew, make a carefully strained solution of a quart of water and a heaping teaspoonful of chloride of lime. Keep dipping the mildewed article into the solution until the spots disappear; then rinse thoroughly in clear water.
    Tea stains can be removed by pouring boiling water through the falbric.
    Mosquitues may be kept away by sponging the body with a diluted extract of pennyroyal
    their bites.

    ## IRONING-BOARD.

    This is an article usually in the way. I will give the "Household" readers an ldea
    
    on making a stationary article which has given great satisfaction. It is screwed to
    the wainscoting about thirty inches from
    
    
    the floor, or any desired height by making the brace accordingly. I hope it may benefit some of your readers.

    ## RAG CARPET.

    Our Farm and Fireside came last cvening, and my attention was attracted to the article on rag carpets as one that have been thinking about for sone time. So many of the young housekeepers ridicule the idea of a rag carpet, saying they would rather have a bare floor than fuss with rags. Also, that it does not pay. I know all about it, sisters "bin thar;" but time works wonders in a rag carpet in the last two years testifies to a change of opinion in $m y$ case, at lcast. Tho actual expense out, was twenty-five cents per yard. It took one and one fourth pounds of rags for a yard, and one pound of warp wove thrce yards of carpet The price of weaving was from fourteen to sixteen cents a yard, according to width some was over a yard wide. The weaver did my coloring for two dollars for the ninety yards, and I paid for the coloring material. Most of the rags were scwed on the machine, as Sister Renan suggests, and it is such a rapid way to dispose of them Here is an important item-don't wait until you have got to have a carpet "right away, quick," before you com mence to hunt up rags, and thus make the work a bugbear to the whole family, with so minch muss and hurry. That, also, takes away lots of profit when other necessary work has to be put aside or hired done. Again, I believe it is injurious to one's lungs to be filled and choked up with the dust and lint that is unavoidable in a big "carpet bee," lasting for soveral weeks, where, if a little
    were done at odd moments in the cutting and tearing, there would not be enough dust at one time to affect the most delicate
    person. Again, where garments are washed, and the best portions torn right up into rags in a few days, there will not be so much dust, anyway; there has been no chance for it to collect. Cominence year or two beforchand; havo some tight, paper flour-sacks hung ln some clean, dry place where they will not be in the way One sack for hit and miss, one for the dark blue print now so much worn, another for light blue ginghams and shirting, and, perhaps, still one more for the black or brown rags. Now, don't say this is too much fussing for a cent. Was there anything worthy of note cver done yet that did not take a little trouble in the preparation? It is a great deal harder to explain the matter clearly, than the actual following of tho suggestions.
    When a garment has served its time as wearing apparel, wash clean, dry and soon tear out the good carpet rags and put them into the sack where a similar color is kept. Keep the sacks tied up, so that dust will not collect on the rags, and if there is much flannel in them and they are to be kept through the summer, drop a small chunk of caniphor gum in the sack to keep out the moths.
    When cutting out a new garment, or even when patching, put all the pieces in a pan or basket, and when through work, cut all those way into carpet a suilable size to lay away into carpet rags and put
    in the hit-and-1niss sack. You will be surprised how fast that one fills up. The old adage that drops of water constantly falling will wear away the rock, is very applicable in this case in a will orentlo bime you will be woudering, some fine day you will be woudering, some fine day,
    when you ever found time to cut so many rags. Sew them on the machine; it's quick work after a little practice, especialIy lf there is a small child who likes no better fun than to cut the strips from each other after sewing. Of course, the child must be old enough to be trusted with scissors or knife. They are dangerous playthings for babies, and should, under no consideration, be allowed in the little one's possession. Old sheets and pillowcases can be left until the last, for they take no more room folded away in a bureau than when torn up and kept in a sack, and it is such short work disposing of those articles.
    Do not color any more than you can help. When buying new print, have an eye to a futuro carpet and buy something you think will hold its color, whetherit be black, blue, red, gray, brown, green or yellow, etc.
    Our last carpet has been very much admired by all who havo seen it. The warp is brown and white. Four threads of brown, then thirteen threads of brown and white alternating ( 7 threads of the white and 6 of the brown), then 4 brown, then the 13 alternating threads of white and brown, etc. The rag striping is th us :
    shirts),
    6 rows black (pants and coats),
    14 rows hit and miss,
    4 rows dark blue (calico),
    8 rows light brown or japonica,
    8 rows shaded green, lightest shade next to the brown
    8 rows shaded red, lightest color next thc green,
    2 rows white,
    2 rows purple,
    Then the white, red, green, brown, blue, hit and miss, black and gray, etc.
    Another bright carpet for a bed-room is made of brown warp and

    9 rows dark brown rags,
    6 rows light brown,
    8 rows hit and miss,
    2 rows yellow,
    4 rows dark blue,
    4 rows light blue,
    6 rows shaded red, darkest color to the brown,

    ## 4 rows green,

    4 rows black,
    rows shaded red, lightest color to the black,
    1 row brown and whito twistod,
    2 rows white,

    Then one twisted of brown and whitc, then shaded red, black, green, slaaded red, brown, light blue, clark blue, yellow, hit and miss, light brown, etc.
    One more has fewer colors and is quite pretty:

    4 rows hit and miss,
    4 rows dark bhne,
    rous yellow,
    4 rows yellow,
    rows brow
    5 rows red,
    2 rows dark blue,
    Then the red, brown, green, Jellow, light blue, dark bluc and hit and miss.
    Really, I fear our editor will think we have rag carpet on the brain, if our article is not cut short. I hope the girls that change their minds will be as pleased at the result as we were. The most of our rags were cotton, except for some of the red, black and gray. Think it wears better than woolen rags, and it looks full as well if you have colors that will not fade. Cotton makes a smoother looking carpet, and I know it is more durable. Don't put old, nearly threadbare rags into a carpet; it won't pay. Good warp, good rags, good sewing and good weaving will pay interest on the investment every time.

    ## CLEANING WHITE KIDS.

    Some of the finest kid and satin shoes r Now York are made maker. He was asked how he cleaned tho delicate white and suede gloves be was showing to the writer. "With benzine and bread crumbs" was the reply. "There is nothing that will do it so nicely, but care must be taken in doing this. A is dipped in benzine and thell allowed to damp almost dry. When it is sinply damp crumbs you can now take off almost any stain or dirt on these shoes, except, of course, ink marks."-Boots and Shoes
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    Gir fintshald.
    A VARIETY OF WAYS FOR COOKING VEAL
    Teal, like inutton, is one of the resources of the farmer's household, and can be
    served in such a rariety of ways as to make it always appetizing. Veal is best from a calf from four to eight weeks old. The meat should be clear and firm, and the choiee part. It is usually divided into the loin and the leg. The breast of veal is rery nice for roasting. Teal, when properly cooked, is rers delicate.
    salt and peppers.-Dust the cutlets with then in grated cracker, and fry slowly in hot butter. Serve on a hot disb with melted butter poured over. Garnish with water cresses and sliced lemon.
    Brotled Teal Steaks.-Lay steaks on a greased gridiron and broil over clear mushroom grary and pour over. Season the steaks with salt and pepper.
    hot water and - Lay in a pan, cover with from the pan, dry, dip in beaten egg and pounded crackers, lay in a shallow pan, Roast Veal.-Take the breast, rub well with pepper, salt and butter; dredge with flour, and put in a pan with a pint of boilmineod onion and thyme. Set in a lot the nueat up and thicken the gravy with mashed potatoes.
    make a dressing the saine as for a turkey, fill the fat with it, and secure firmly on pepper and butter, put in a pan with a little hot water, haste frequently, and let cook done. Serve with brown grary. Roast Fillet of Teal-Take the bone
    out of the joint, and make a deep incision betweeu the fillet and the saddle. Fill it with a forcemeat of real stuffing. Bind the real up in a round form, and fasten
    with skewwers and twine. Corer the real with buttered paper, and putin a moderate oven. Roast with melted butter, and When done, take up, pour over melted butter and brown grary.
    Fricasdelles of Teal.-Put a teacup bread crumbs on to boil until thick and fine and add to the bread; season with salt, pepper and butter, and set aside to cool. When enld, form in little balls, dip in
     brown gravy, put fricandelles in done, season the gravy with Woreestershire sa
    Pate de veal.-Take four pounds of little water; season with salt and pepper When done, cut the meat in pieces. Boil four eggs hard, sliee them and ehop some
    parsley and thyme over. Take a large, deep pan, cover the bottom with slices of the hard-boilod egg, then add the veal and until tho pan is filled. Pour over a pint of gravy, set in a end place for ten hours, crackers gether and make in al loaf, sprinkle with hour. slice and eat enld. veal inte sunall hity, mix with the meat
    $\qquad$
    $\qquad$
    $\qquad$ nished wilh fresh Crortuettes, risenles, patlies and salad - Diliza r. Parierb. Beechaits Pilis cure bllious and nervous 1116

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     FIVE CINNAMON VINES FREE
    
    
    
    
    
    

    ## (Gur Sinulay gitcerwour.

    ## MY LEGACY.

    They told me I was heir; I turned in haste And ran to seek my treasure,
    And wondered as I ran how it
    of gold, or if the titles of fair lands
    And houses would he laid within my hands.
    journeyed many roads; I knocked at gates
    I spoke to each wayfarer
    met, and sald, " $A$ heritage awalts
    Me. Art not thou tile bearer
    of news? Some message sent to me whereby learn which way my new possessions lie?"
    Some asked me ins naught lay beyond their
    mesmiled and would not tarry
    Some smlled and would not tarry
    More gold than I could carry.
    And so the morn, the noon, the day, were
    Whille empty handed up and down I went.
    At last one cried whose face I could not see As throngh the mists he hasted,
    Poor child! What evil ones have hindered
    thee,
    Hath no one tgld thee that thou art joint heir With one named Christ, who waits the goods

    The one named Christ I sought for many days In many places valnly:
    heard mon name his name in many ways. I saw his temples plainly
    But they who named him most gave me no
    To find him by or prove the heirship mine.
    And when at last I stood be I knew him hy no token
    Save subtle air of joy which filied the place Onrgreeting was not spoken;
    Kneellng hefore $m$ recelved me ware,
    My share! No deed of house or spreading
    I had dreamed; no measure
    Heaped up with gold; my elder brother's hands
    Had never held such treasure.
    Foxes have holes, and hirds in nests are fed; My brother had not where to lay his head.
    My share! The right, like him, to know all

    ## paln

    Which hearts are made for knowing, To reap my joy from sowing
    In hitter tears; the right, with him, to keep A watch hy day and night with all who weep.
    My share! To-day men call it grief and dealk,
    I see the joy and life to-morrow;
    I thank our Father with my every breath
    For this sweet legacy of sorrow.
    And through my tears I call to each "jolnt
    With Chrls share.
    . make haste to ask him for thy

    - Heleñ Hunt Jackson.

    NTHE BEST TALENT IN THE CHILD. EARLY every child is endowed by nature with a faculty or aptitude for some special work,
    varying as the temperaments and individuallties differ in each member of the family. It is here where the fine discernment and discriminating judgment of the parents should be exercised to evoke the best talent, to encourage and foster its manifestation by every means calculated to bring it to perfection. Is it musical ability? Then see to it that
    patient drudgery of daily practice is honestly performed, not alone by oral command, but by personal supervision, for it is natural for children to shirk labor. The rule applies to boy or girl indifferently. Whatever the bent-eren if opposed to your own preferences-if decided talent or skill is evinced, cultivate it in a practical manner for contingent practical necessities. Teach your children something, and teach it well and to the utmost limit of his or her capacity.-Rural Californian.
    Deserving Confidence.-There is no article Which so richly deserves the entire confldence of the community as Brown's Bronchial
    Troches. Those suffering from Asthmatic Troches. Those suffering Crom Asthmatic should try them. They are universally conshould try them. They are universally con.
    sldered superior to all other articles used for simllar purposes. The late Rev. Henry Ward Beecher sald of them: "I have never changed my mind respecting them from the first, excent I think yet hetter of that which I began by thinking well of. I have also commended them to friends, and they have proved extremely serviceahle."

    Pleasing God-what a privilege, what an unspeakable pleasure! It is a great joy to feel that we please him whom we love above all other beings and objects. Oh, mind. No jarring of interests now, no contention, and the licart in complete harmony with God-his will the rule of thought and action. How pleasantly every work and duty of life mores when
    in such a state. Temptations are easily overcome, and trials borne with patience and resignation. Life has now become a joy, and is prized as an inestimable gift for doing good and blessing the world. The apostle exhorts thus: "We beseech you, brethren, and exhort you by the Lord Jesus, that as ye have received of us how ye ouglit to walk and to please God, so ye shonld abound more and more." Are wo following the exhortation of the apostle in every act of life? Are we abounding in pleasing God more and more? If so, we have found, with all the men of grace, "glory begun below." Let this be the great motto of life-to please God in everything.-Zion's Herald.

    ## The resurrection.

    The resurrection of the body is among the assured certainties of the heavenly world; and this is necessary to the full realization of all the believer's anticipations. This is the crowning glory of the redemption scheme; this was the keystone of the the gospel arch. The resurrection of Christ is the proof, the pledge and the pattern of the resurrection of the righteous. Jesus has gone to heaven with
    his own resurrection body, a "glorious body," and St. Paul, in comforting the saints concerning their deceased friends, says:- "If we believe that Jesus died and rose again, them also that sleep in Jesus will God bring with him." "For the Lord himself shall descend from heaven with a shout, and the dead in Christ shall rise," and those of the saints "which are
    alive and remain unto the coming of the alive and remain unto the comorent, in
    Lord" "shall be changed in a moment the twinkling of an eye," and "be caught up together," and with the risen dead "meet the Lord in the air, and so be ever with the Lord."-W. Reddy, D. D.

    PROPHECY FULFILLED.
    Near by was Chorazin and Bethsaida, and it was in these cities and in this vicinity that "most of His mighty works were -done." Alas, how changed-how fallen-how ruined! It is difficult to conceive a more gloomy desolation and utter ruin than has settled down upon these places. I inquired for the site of Chorazin and Bethsaida, and none could tell me where they stood! I climbed upon the fragment of a broken column, and looked inquiringly about me. Was this beautiful shore once ornamented with populous cities? Where now this oppressive silence reigns, was there once heard the hum of multitudes of roices and the tumult of gathering crowds? Why, then, has this utter ruin and desolation settled down upon the land? I opened my Bible and the mystery was solved. "Then' began He to upbraid the cities wherein most of his mighty works were done, because they repented not. Woe unto thee, Chor azin! woe unto thee, Bethsaida!" $-N$. $Y$ Independent.

    THE SAVIOR.
    What a Savior. How wonderfully constituted. He was God, as it was necessary he should be; and yet not merely God, but man, too. A Savior with two natures; one reaching up to God, the other down to us. How wonderful that he should not only have taken our nature but come down to our condition, and surrounded himself with our circum-stances-hecome suhject to such temptations as we are subject to. Oh, what a Savior! Why, he knows from experience what pain is; he has had the trials I have; he has been through this vale of tears; he knows how I am tried; he wept over the very city and people whose souls and hands were about to be stained with his blood. I wonder I love him so little; I wonder he is not more precions to me; I wonder any should be offended in him. How can he appear a root out of a dry ground? Why don't all see his form and comeliness?-Nevins.
    
    of pure Cod Liver Oll with Hypoalmost as palatable as mllk. Chlidren enjoy it rather than otherwige. A MARVELLOUS FLESH
    PRODUCER it is Indeed, and the PRODUCER it is Indeed, and the
    IIttle lads and lassies who take cold little lads and lassles who take cold cough that might prove serlous, by taking Scott's Emulsion after their meals during the winter season. Beware of substitutions and imitations.

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    | :---: |

    FLOWERS, BEAUTIFUL YET EASILY GROWN House Plants.-Theaverage farm-house at the North has little if any room for
    wintering plants. Here and there the at wintering plants. Here and there the or kitchen a more cheerful appearance by means of a fcw geraniums, heliotropes, fuchsias, or in rarer cases, of a prim rose or two, etc., placed in a light is ndow. brilliant, and the flowers anything but attractive. One of the chief obstacles to window-plant culture in many farmhouses, is lack of opportunity to maintain house during the severe winter weather, especially at night. The wood fire to-
    wards morning gets pretty low, and a ittle touch of the low temperature out side is only too apt to force its way through destruction or injury of the good womau's pets.
    I believe in house plants. The presence of thrifty plants is a benefit in more than
    one respect. Their influence is nothing if purer and sweeter. Fragrance is in itsel a dlsinfectant. They add an air of comthem. They relieve the monotony winter life and cheer all the members o the family. In short, they are a gleam o sunlight itself. Every farm-house, to se otherwise, should have a bay-window, and
    a coal stove in the room, in case it can be afforded. Then let the good woman have the plants she desires, beginning with the the geraniums, fuchsias, heliotropes, ivies, some hardy bulbs, etc. The more teuder callas, the begonias, the pelargoniums, the primroses, etc., to be added as experince is gained.
    Provide perfect drainage for the pots use good potting soil (rotted turf mixed
    with a little sand and old, fine, cow manure); water thoroughly, but not overthe plants in good bush form by cutting back.
    HARDY ANvUALS.- What are the people
    oins to do, however, who lave no opporgoing to do, however, who lave Alo oppor-
    tunity to keep house plants? Absence of
    the latter leaves a blank, an unsatistied yearning in the minds of wife and chilin suminer. Firstof all, plant a fow hardy
    cose bushes, lilacs and other hardy hare ial shrubs to give a supply of fowers in fussing. But this is not sufficient. There are
    plenty of flowers that are easily grown
    fron seed in spring, yicld fowers in
    plenty during a longer or shorter period, lien die in the fall, to be reproduced from
    seed the following year. A few others
    will live through the winter without or will live through the winter without o season of protection, Ind and arain give us a
    shorthere is no
    eed of any family that has a square yard of land, or a little strip of border to
    pare, giong without a constant supply of
    i:e flowers during almost the entire sea di:e flo wers during almost the entire sea-
    son. And what a display can be produced of the brilliant masses of verbenas, of
    ohloxes, of asters, of pinks, etc. Think of the honeyed swveetness of mignonette, of The beginner who wants a list of the
    llolcest and most easily grown hardy mnuals and biennials, may select the fol-
    owing ten; namely, morning glory, candy uft, sweet peas, poppy, phlox drum
    mondi, mignonette, larkspur, Chinese
    inks, nasturtiums, and pansy. If he desires still niore, let him add double tlow-
    ering hollyhock, sweet alysum, ever-

    $$
    \left\lvert\, \begin{aligned}
    & \text { dil } \\
    & \text { soj }
    \end{aligned}\right.
    $$

    Althese can be sown in early spring
    directly in open border, in well-prepared soil, covering say one half inch deep. ex-
    cept morning slory and sweet hould be planted considerably deeper.
    Firm the soil well over the seed. Murnng glory is a rampant growing climber, and excellent for covering porches, fences,
    atumps, or unsightly objects. sumps, or unsighatly objects. The seed ituation, or under glass, and afterwards set into the ground, box and all, where wanted.
    Slimeet peas have also great
    climbing given support, so they can twille about ire a lossonns of all sorts of colors. started early in boxes under glass, or in the house, and successfully transplanted, if carefully handled. This is a good way
    with hollyhock, pansy, perhaps also with phlox and ten-wecks-stock; but the rest the border where wanted. be bought of mixed colors. A lot of poppies, introduced last season, atmong
    them Mikado and Fairy Blush, however, vere so very brilliant and unique, that I next year. The Star of Quedlinburg phlox, iutroduced last year, is also unique, fully a f fine a display, and give eutire
    satisfaction.

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    CARNATIONS, NeW JAPAN, CHRYSANTHE, 65 Large
    
    
    

    ## (1)It gitistellamy.

    ## A MAIDEN'S QUERY

    Lovest thou for benuty's sake?
    Love menot, ah, no
    Love the sun! See in Its wake
    Lovest thou for youth's sweet salre?
    Love ine not, ali, nol
    Love tite spring. Her roses iake, Ever freshly hlooming. Mlne wili shortly go.

    Lovest thou for wealth, for gold?
    Love me not, ali, no!
    Love the sea. is waters hold
    Lave the sea. ins waters hold
    Corai groves and pearls and golden sand below.

    ## Lovest thou for love's own sake

    Oh, then love thou mel
    Love have I that naught can shake; It has beeu thlne oniy, thine will ever be. $\frac{\text { From the Swedish Transallantic. }}{\text { way to mourn the dead is to take }}$ The true wiving wio belong in them. These are the pletures and statues of departed fricnds wanch we had for a few gulneas. - Burke.
    The chrontenliy uhappy man, who persists in trylng to sour humatity, should get fint to bls closet with hils woes and glve the sunshine a chance
    Traveler.
    AN exchauge priuts the following suggestive dun: "Delinquent subserlbers are inereby paper for a hustle, as there is considerahle due olt it and they mlght take cold."-Unidentifled Indiana Paper.
    See our spectal offer on page 185. For only and one year's subscription to the Ladies Home Companion and the Farm and Firestde, ali postpald. Thls offer is good for 30 days from date of thls paper.
    1 Like the cllck of the type in the composing stlck of the printer better than the click of the musket In the hands of the soidler. It bears a limer force, and surer aim, which will hit its mark though it is a thousaud years ahead.Carpan
    All that is best in the great poets of all what is unlversal. Thelr ronts are in their natlve soll; but thelr hranches wave in the unpatriotic alr, that speaks the same langunge unto ali mon, and thelr leaves shiue with the Illimitable
    Longfellow.

    ## TO POTATO RAISERS.

    The Bowker Fertillzer Co., of Boston, Mass., told a representative of Faism and Fireside Whlle ln their office ashort time since, ifiat they inteud 10 offer a iarge cash prize to thall ralse, on Stock bridge Potato Manure alone, a larzer crop of potatoes than that which took the prize $\ln 1889$; and ihey further stated that If that crop is not heaten, the full partlculars, ruies and conditions governing the contest to the readers of FARM AND Fireside on application. Notice thelr adverusement on this page, and do not fall to state in your leiter that sou saw thelr offer in Farsi and Firesidr.
    "Why, Pat, for heaven's sake, what is the matter?" "Well, sorr, I swallied a pertaterbug; aud although, sorr. I tonk some Parrus, green widin flve minntes after, ter kill th'
    baste, sithll he's just raisia' th' devil luside o' baste, sint
    Mrs. Kendal, the English actress, wears on her chatelalne five little bells, oue to represent each of her children. These belis are curiously wroughtand iniald with tiny gems, and of birth of the chlld thus keptln memory.
    "Farewell, dearest," siee sighed, as she lay agannst the lapel of hils double-breasted coat. forehead, ere you go." "Thanks. Angeline," forehead, ere you go." "Thanks, Angel "hut
    thoughtfully murmured the young man, "hut the iast time I kissed a glil on the forehead I got a bang in the mouth." A nioment later he marshmatlows.-Harvard Lampoon.
    Life appears to me too short to be spent in nursing auimosity or reglatering wrongs. We
    are, and must be, one and all, hurdened with faults in thils world; but the tlme will come when, I trust, we shall put them offin putting off our corruptible bodies; when debasement and sln will fall from us with thls cumbrous the Impalpable principle of life and thougit, pure as when It left the Creator to inspire the creature.-Charlotle Bronte.
    How litile, after all, we know of what is ill of cataracts and pools, this stream of ilfe that rises in a world unknown and flows to that mysterlous sea whose shore the foot of little of thls life we know-this struggllug ray of inght 'twixt gleam and glonm-thls strip of land by verdure clad between the unknown
    wastes, this throbbling moment flled with
    love and pain, this dream that iles between
    tho shawy sho stand upon this verge of crumbling thme, aud We love, we hope, we disappear. Agaln we
    mingle with the dust, and the "'kuot intrinslcate' forever falls npurt

    ## A DOLL MADE OF CORN HUSKS.

    A doll made of corn husks, and dressed enthrely ln the same material, is a noveliy, and
    so dalnty a crenture that slie cannot fall to please the most fustldlons ilttle lady in the land. The inodel is about elght linches tall, handsomely dressed lin modern siyie, and is really quite a work of art.
    A corn cob is the foundation of the body. Measure and mark the waist line; below this whad layer after iayer of husks, leaving them full size and flufty at the bottom, but cutthg ouligores at the top, so as to make it shapely; stlek a pln through anywhere it is necessary to keep the skirts lin place. Sinall strips of husks are wound closely and plined to the hody for arms, after having wound a fer extra
    stips across the shoulder to make ine requisite stifpsacross the slounder to make ine requisite
    hreadth. A bit of cotton is lald over the end hreadth. A hit of cotton is lald over the end
    of the cob for the head, shaping it as well as possible This is covered with a very smonth plece of husk, and the eyes, nose aud mouth marked with a pen or pench, a chine is imt on the cheeks to glve the carmine of health.
    aush of heath.
    dress, of the best husks are selected for the dress, a rew of them helug stained with a pluk
    anllne dye for trimming. Two full widths of husks are need for drapery iu the back, the foln and puff belng fastened with plas, whlch are hldden under the folds. A full-draped aprou front covers the front and sides; the edges are vandylked-that is, squares cut out set anderneath. Where it is 1 mpossible to hide the pins, stars are made by cutting a tiny disk of the straw-colored husk aud one of the plikk, and sticking the plns through the middle, glving the appearance of a very smail rosette.
    the head for the corn silk is fastened onto the waist, whlle the back falling loosely to bangs. Tie bounet, made of colored husks, Ats the head closely. A coachman's cape covers the slooulders. By using different coloring me mater great variely of dolls dresses may mothers, ittle children, salior boys and eyps mothers, glrts can be made to spring into being almost Ilke magic, for the husks are very pllable and not at all troublesome to haudie. - New York

    ## HER COMING OUT PARTV.

    Miss Hypatia Debut was given a coming out party last uight. It was the first time she had comc out so far, and it made her feel a litte awkward at irst, but before the evoning was young men look at her pretty, whlte arms and soung men look at her pretty, White arms and dlary as every young girl of any Imegiuatlon dlary, as every young girl of any lmagiuation evening's gayety she added: "I ibluk coinlng out partics are too sweet for any use. As I can't have a first coming out party ageln, I mean to come out further aud further just as fast as mamma and the dressmaker will let me." And if you read the notices of the soclety events of the scason you will probably see descriptlons of Miss Debut's iucreasingly decoliette dresses. - Chicago Times.

    METHOD IN IT.
    "I thought you dld not like Whillamson?"
    "Well, Ne to."
    "Well, he telis me you sent his boy a Chirist mas glft?"
    "Well, I found one of the most maddening up."-Cleveland T'imes.

    ## HE BELIEVED IN IT.

    First Stranger-"Yes, 1 belleve firmly in the Influence of heredity. Take my own case, for Instance. Ali my ancestors for generations nected with llterature in some way Second Strauger-"And you follow in their
    footsteps?" footsteps?"
    Flrst Stranger-"Yes, I am a book agent."America.

    WE'RE COMING TO IT.
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    ## Suniter.

    THE BALLAD OF CASSANDRA BROWN. Thouch I met her in summer, when one
    heart lies off at case
    were, in tennis costume, and a man's not liard to please,
    I think at any season to have met her was While her tones, nnspoiled, unstudied, had the
    softness of the dove. the pines,
    the phe poems in a nook among And her artless voice lent music to the least melodious lines;
    ough she lowered her shadowing lashes in an earnest reader's wise,
    we caught blue gracions glimpses of the heareu that were her eses.
    in paradise I listened-ah, I did not nnderstand human hand.
    Might, as stated oft in fiction, become a sable in the fall
    in the fall.
    dmit her earliest efforts were not in the Ercles vein;
    began with
    began with "Lit-tie Maayble, wlth her
    faayce against the paayne,
    the beacen light a-treemble"-which, al
    thongh it made me wince,
    she's rendered since.
    Having learned the Sonlful Quniver, she acquired the Melting Mooan.
    the way she gave Young Grayhead would have liquefied a stone.
    Then the Sanguinary Tragic did her energies employ,
    she tore my taste to tatters when she slew The Polish Bos.
    Tis not pleasant for a fellow when the jewel ades throngh slaughter on the carpet, while her orbs in frenzer roll;
    was Ithat I should murmnr? Iet
    gave megrierous pain
    she rose in social gatherings, and Searched Among the Slain
    ras forced to look upon her in my desperaKnowiug well that when her awful opporould gire us battle, morder, sndden rieath at very least
    okeletou of warning, and a blight upon t:e feast.
    a, once, I fell a dreaming; some one tated strongly with those bappier Anmused, "I'll speak thls evening," nt pangs forgotten quite. shrilled a scream of anguish : d ring to night t sound ras as a curfew, quenching is, warm romance;
    safe wed a woman one so oft would :sh in Frauce?
    he "cul-limbed" that ladder, swift my onnting hope came down.
    ill a siugle cynic; she is still Cassandra cill a si

    ## is THIS HOW YOU FEEL?

     $=$ 2Ther say it is the genuine imarticle, duty paid, and not adulterated,
    re letters blown in. My throat and lan-
    I am sorry to say, are highly infamed.
    nucous gambrinns, I mean membraneon't Yield to anything I may pour
    and I have tried a little of everything,
    ally the latter. I suffer from several in my lead and lack of several in my sthing I see. Which I do not think is aiad that tie boarder in the next
    sined of it keeping him awake. id I am afraid I $\pi i l l$ have to bre
    in my ears. I can't shake off this that is upon me more than usual, perI can't find any fellow to shake it off
    When I sneeze it lifts me off my feet than in the mornivg, and when I cough $t$ ralse anythiug but te nelghbors, they
    an stop it by $t w i s t i n g ~ a ~ r o p e ~ t i g h t y ~$
    any neck. What litule I do eat distresses dmy neck. What little I do eat distresses
    d it does not alwars come from the fact have latelygot in arrears with the landhard matter for me to turn my head ok across the street when I meet a crediMy milnd has been so affected that I beem nearly on the pornt of callint in a
    doctor, but it has not got quite that bad.
    can't write at uiglit becanse I sneeze the lamp out, and my nose is so sore I will sonn have to
    chioroform it to blow it. I hare pains in my breast every time I lie, which is agyravating, While I am apt to get irritable if any one calls
    me a liar or anything of that sort. This is a me a liar or anything of that sort. This is THEY WERE HORNETS.
    We were waiting on the depot platform in a new town in Alabama, and as the dozen of ns nest hanging on a bush across the track. He pointed it out as a wasps' nest, but a short,
    solid man, who had a head like a cannon-hall and a jaw denoting great firmness of charac ter, at once replied:
    the vers common sis, bit you have made wasps with the bornets. That is a hornets
    "And I beg your pardon, sir," protested the other, who was a planter, "bnt hornets don't
    nest that way. They build mud houses under the eares of old buildings, and one won't sting you unless you pick him up. My niggers de-
    clare that no wasp can sting if he wants to While on the contrary a hornet-" the solid man. "That is a masps' nest. Yon are right about the wasp being a peaceful in
    sect, and I think I will take that nestalong for a souvenir. They say they are a sure cure for
    "Do you know a hornet from a wasp?"
    "I should remark!" I want you to tell me whether lt was occupied by hornets or wasps. Gentlemen, look out fo
    He started for the woods and we followed, and when we reached a safe distance and just cutting off the limb which held the nest. He held it np and called to ns to come and see it, but this call was followed by a sell which Tould have done credit to a Comanche wa The hig yell was followed by a series of hoots, whoops, exclamations and ejaculations, and iutricate character. He jumped, dodged, twisted, and carorted, and finally started down the track on a gallop. Seventy minutes
    later, and just as the train whistled, he came ont of the roods, dead lame, one ey'e shnt, his "Horuets or wasps? "queried the planter. "Hornets, by thunder'" groaned the vict $\frac{\text { A LOST OPPORTUNITY. }}{\text { Auried to get his valise. }}$ "I can sympathize with those passengers Who are snow-bound on the western rail-
    roads," he said to a Detroit Free Press man, as he laid down his paper. "I have been right "Give usthe particulars," remarked his an dience.
    "It was the second year of the Union Pacific road, and we were caught in the Rocky moun-
    tains. It was a sudden storm, and no one was prepared for it. We were six days in the drift." "How did you keep rarm?" car."
    "How were yon off for prorisions?"
    "How were yon off for prorisions?" had to cut up our boot-legs and chew' em. On the fifth day we were going to kili and eat a decided to wait one day more. I have always
    been sorry." "What-for waiting?
    "Yes. My stomach has never been right boy fell if trasn't tro reeks later when the was killed. He wonld have made a good real benefit to his fellow-men. Bet I don't make no simpleton of myself again."

    ## HOW THE DEACON GOT EVEN.

    It was Elder Buzzell who called on a Torthy deacon to open a meeting with prayer, and God!" "Omnipotent, brother; you mean omnipotent God," Whispered the horrified pastor.
    "Huh! " ejaculated the surprised supplicant. The preacher repeated the correction, whereupon the deacon continued his prayer
    great length, and concluded as follows: "Fiualiए, Lord, bless our eddicated parson.
    Stufflilm witir religion as well as witin words breaik him of the habit of fault-undin', if poswith the saints in thy kingdom." gather him Eider Buzzell, who was fond of telling the story, always ended by declaring that it was
    his first and last attempt at correcting the speech of hls brethren.-Lewiston Journal
    
    
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