

# FARM AND FIRESIDE



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## Current Comment.

In a letter to Senator Allison, Statistician Dodge completely refutes some errors of statement made in a senate debate about the crop reports published by the department of agriculture. Concerning the statement of the senator from Missouri that during the administration of Commissioner Colman, "one of the monthly reports in regard to cotton was prematurely published and got into the hands of speculators in New York, and thousands of dollars were made by it," he says: "No cotton report, either under the previous administration or of any other administration since the time of Isaac Newton, ever was 'prematurely published.'" \* \* \* "It is a further conclusive fact that no report, whether of cotton, wheat, corn, or of any other crop, has ever been proved to have been prematurely published or sent in advance by any person from the department of agriculture."

After summarily disposing of two other equally erroneous statements about cotton by the same senator, Mr. Dodge takes up the misstatements about wheat reports. He says:

The senator from Minnesota states that during the past three years, with "two or three exceptions," these reports have had the effect of depreciating the value of farm products. Other influences may depreciate the value of these products, but a true presentation of crop conditions never. The reports are uniformly conservative, more frequently underestimating than overestimating crop products, as shown by records of production and distribution. The state statistics of North Dakota made the wheat crop last year more than that of the department by ten million bushels, and those of South Dakota were also in excess of our estimate for that state. I state deliberately from careful examination of department correspondence and published statements of grain buyers, during the past three years, that in the autumn, when buyers are buying in their supplies for the season, their estimates generally average higher than ours; and further, that often in the spring and early summer, when the mills are seeking markets for accumulated stocks of flour, the same persons who thought the official figures were too low in the fall are persuaded in the spring that they were really too high. I have thus always found that their crop opinions varied with the seasons, especially the seasons for buying wheat and selling flour.

That speculators, and not the department of agriculture, are the cause of reduction in prices, was convincingly exemplified in the recession of the April report, when condition of wheat was reported at 81, the previous estimate being 85, leading to advance of prices, which immediately followed, until the bear operators got in their work, and harried down prices several points before the close of day. The influence of speculation is thus frequently mistaken for that of the crop report.

In regard to the misstatements all out the tobacco-crop reports he says:

But the most extraordinary series of misapprehensions came from the senator from Arkansas. He brings up the apocryphal tobacco stories that have so long been the stock in trade of opposers of official crop reports, and says first that they refer to the crop of 1886. It was that of 1887. His next statement was that our report made the crop of Kentucky 92 per cent of that of the year before. It made, on the contrary, an average of 78 per cent and a condition of 77, which reduced the promise to 60 per cent instead of 92. (See report of July, 1887, page 295.) Six weeks later a report of continued effects of drought made a prospect of only 44 per cent, which I explained was in part real reduction and partly due to panic. The result was like the fulfillment of prophecy. The Kentucky commissioner of agriculture, from assessor's returns, ultimately made the crop 55 per cent of that of 1886, while mine was a million pounds less. The best census ever taken in any country could not come nearer the actual condition, as it was on the first of July, 1887, than my report of that date. It was an unprecedented reduction, truthfully reported and a wonderful vindication of our crop-reporting method, under difficult circumstances.

Other gross errors about the crop reports are corrected by the letter, and the department is victoriously vindicated of the charges promulgated against it mostly by speculators whose deals have been disastrously overturned by its crop-reporting service.

In our opinion, farmers in the long run have everything to gain and nothing to lose by the publication of monthly or weekly crop reports. It is true, they give as much information to consumers as to producers. And it is true that producers might sometimes gain the advantage of temporary higher prices than are justified by the law of supply and demand by a belief on the part of consumers that crops are shorter than they really are. It may even be possible for them to advance prices by hiding crops or keeping back information about yields. But how often could that game be worked? Between producers and consumers stand middlemen and speculators. Abolish official crop reports and place, as far as possible, both producers and consumers in the dark concerning crops throughout the country, and the buyers and speculators in farm products are placed in the best possible position to take advantage of both. They would collect private crop reports for their own use and be in command of the situation. Prices would be more subject than ever to their manipulations. With the publication of accurate official reports, prices will depend very closely on the natural law of supply and demand.

In regard to the co-operation of farmers and grain buyers in efforts to hide wheat for the purpose of raising the price, *Bradstreet's* of recent date says:

Nine years ago *Bradstreet's* began the accumulation of data respecting stocks of wheat held in interior elevators in the northwestern states of Minnesota, Wisconsin and Iowa, in addition to lots of stocks similarly stored on farmers' lands in Dakota. At first the information was asked for once each quarter. But in January, 1888, our inquiries were made each month, and in January, 1890, they were made each week, since which time the reports made in this journal by the elevator companies have been incorporated with returns from any other storage points and the whole published freely and promptly by telegraph or mail to the grain trade of this country and abroad.

Our correspondent at Mankato is, where the chief offices of the elevator companies

referred to are situated, informed us that the information referred to would not be furnished for publication any longer, out of deference to the farmers, who are of the opinion that its publication tends to depress prices.

So far as *Bradstreet's* is concerned, it has been old foggy enough to presume that no presentation of facts could unduly depress prices; that if the information published is indeed based on fact, and if such data tend to or actually do depress prices, then such prices should be depressed, and the willful withholding of information in order to thus inflate prices unduly might be criticised in a school of morals, even if not in a court of law.

Few will blame the farmer for wanting to get the highest prices he can for his wheat, but when he takes the position that, by allowing the world to know whether he has sold 1,500,000 bushels or 1,500,000 bushels to the public elevator companies, the news will unduly depress prices, he needs a missionary "in his midst." It is not the truth which does him or another injury, but misrepresentation and concealment.

To show that the companies controlling the system of elevators referred to are endeavoring to co-operate with the farmers against the consumer, *Bradstreet's* publishes their replies to an inquiry for the reasons that impelled them to that course. It is clear that the farmers would be worsted in the end by any such combination. Why should the elevators attempt to hide wheat if the farmers are going to reap the advance in prices?

For the remarkable lowering of records on the race-course this season, much credit is due to the adjustment and use on track sulkies of safety bicycle wheels with ball bearings and pneumatic tires. The new queen of the turf, Nancy Hanks, a few weeks ago made a record of trotting a mile in two minutes and seven seconds. On a kite-shaped track, which is faster than the circular track, she recently made a record of two minutes, five and one fourth seconds. But her wonderful record has been surpassed. Very unexpectedly have improvements in bicycle wheels aided in lowering trotting records, but more surprising still the fastest horse-trotting record has been beaten by a rider on a bicycle. September 9th, on a circular track, Mr. A. A. Zimmerman made an official record of wheeling a mile in two minutes, six and four fifths seconds. Since then another rider is reported to have covered a mile on a kite-shaped track in two minutes, four and three fourths seconds, standing start. Predictions are now freely made that the official records will be further lowered before this season ends.

Mechanical improvements in the construction of wheels have revolutionized both trotting and wheeling records, and there may soon be more surprises in that line.

ESTIMATES based on the September report of the department of agriculture make the total wheat crop for this year a little less than 500,000,000 bushels. The oats crop 400,000,000 bushels and the corn crop 1,600,000,000. Compared with the crops of last year, wheat has increased over 100,000,000 bushels, oats over 25,000,000 bushels and corn over 400,000,000 bushels.

The price of wheat is about twenty cents a bushel, and it was a year ago. The foreign market and prices were about then, and higher prices were anticipated. The market afterward obtained. No such advance exists now, and foreign buyers are getting wheat only as they need it. The price of the reduced crops of the present year is sufficient to assume that wheat will be sold in

price than it is now, although we would not take the responsibility of advising that it be held for much higher prices. The present price being low, there is little risk, however, for the farmer to hold his crop for a while, at least.

THE special report on retail prices and wages by Senator Aldrich, of the senate committee on finance, contains the following figures on the average cost of food, clothing, etc., of workingmen and their families in cities:

Food.....	\$22.42
Clothing for the husband.....	3.80
Clothing for the wife.....	22.76
Clothing for the children.....	43.75
Taxes.....	8.34
Insurance.....	10.98
Organizations.....	4.82
Religion.....	6.71
Charity.....	1.77
Furniture.....	18.36
Books and newspapers.....	7.27
Amusements.....	9.68
Liquors.....	12.14
Tobacco.....	7.71
Sickness and death.....	24.56
Other purposes.....	55.01
Total yearly expense for family.....	\$277.61

SMALL potatoes and few in a hill will be worth something before the next crop comes in. The September report of the department of agriculture says: "There has been a serious impairment of the condition of potatoes, the general average declining from 86.8 on August 1st to 74.8 for the present return. This is a better showing than in 1887 and 1890, and slightly better than in 1881; but with these exceptions, the September condition of the crop was never before reported as low as 80. A drop of 12 points in a single month is indicative of widespread unfavorable conditions."

Good prices will undoubtedly stimulate southern growers to largely increase their crops for the early market next year. The reduction of the area in cotton and the earnest efforts to diversify southern agriculture will help bring about this result.

FARMING is a business, and the man who would make a real success of it nowadays must be a good business man. He must be an all-around good business manager. Besides buying and selling and the employment of labor, there are the planting, cultivation and harvesting of crops, the breeding, feeding and care of live stock, the use of machinery, and a hundred other important things that require intelligence, skill and executive ability of a high order. There are a thousand little details of the business to be carefully looked after to make the farm do its best. Taking everything into consideration, the wonder is that there are not more failures on the farm than there are. No business in the city would long stand under the easy-going management of the average farmer.

VOLUME SIXTEEN begins with this issue of FARM AND FIRESIDE. The regular size has been enlarged from sixteen to twenty pages. In addition to giving twenty-five per cent more, our efforts are devoted to making it all the better. The subscription price remains the same. In keeping with the spirit of the times, the subscriber's half dollar will now purchase more of this line than ever before. The wage-earner's dollar will buy more in nearly every line than ever before in the history of the country, and FARM AND FIRESIDE will help to increase its purchasing power.

Rank

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Our Farm.

MISCELLANEOUS MATTERS.

BY T. GREINER.

HOT WATER VS. STEAM FOR GREENHOUSE HEATING.—The old line for greenhouse heating is out of date. It has the one advantage of cheapness of construction, but this is largely overbalanced by many disadvantages. The distribution of heat is unequal; the heat is of a dry quality and inclines to create dust, and perhaps poisonous gases if there are cracks in the flue; and the whole thing is inconvenient and laborious to manage. Heating by hot water or by steam—these are the two ways between which we have to choose. The florists, most of whom have large houses to heat, while those who run small ones dare not speak up, have at their recent meetings favored the steam system. Prof. Maynard, of the Massachusetts station, has for some years made systematic comparative trials between the two systems, in specially constructed vegetable forcing-houses, and always reported in favor of hot water as the cheaper and more efficient method. Some such trials and tests have recently been made also at the Cornell University Experiment Station, and the results are reported in Bulletin 41. The conclusions generally favor the steam system. People who are especially interested in the subject should send for the bulletin.

From the standpoint of the practical vegetable grower, whose house or houses are of limited extent, and like his vegetable garden, in straight lines, without fanciful twists, or crooks and turns, I favor hot water, leaving it to those who carry on the business on a larger scale to decide for steam. It is undoubtedly true, as stated in Bulletin 41, that "steam is better than hot water for long and crooked edifices;" that "pressures of great utility in increasing the rapidity of circulation of steam, and in forcing it through long circuits and over obstacles;" and that "unfavorable conditions can be overcome more readily with steam than with hot water." On the other hand, be sure that in houses of a reasonable size, and built as most vegetable forcing-houses are, there are neither long circuits nor obstacles, and the hot water system will usually give greater satisfaction, since the heat is more easily controlled, and requires less attention. With steam, the engineer must be on duty all night. With hot water, even the services of a night watchman are not always required.

The bulletin states that "hot water consumes more coal than steam, and varies at the same time in efficiency. This result could probably be modified in a shorter and straighter circuit, with greater fuel. Under the conditions here present, steam is more economical than hot water and more satisfactory in every way." I am really unable to understand why hot water should be less economical—in other words require more coal. A ton of coal furnishes a certain amount of heat. Part of this heat is used to heat the furnace and furnace room; another part escapes through the draft. All the rest goes into the house, and it should make little difference what medium is employed for the distribution of this heat, whether steam or hot water. The latter takes more piping, that is true; but with proper construction of the furnace, I dispute that it will take more coal to give the same effect. In short, those of us who run plain houses of only moderate size will find the hot water system far preferable to steam.

ACCIDENTS AND EMERGENCIES.—What to do till the doctor comes, is a question everybody, and especially country people living miles from town and the nearest physician, have to face now and then. There are falls, and broken limbs, and burns, and cuts, and sudden spells of sickness, etc., which often need prompt treatment, while somebody goes after the doctor. I think it is everybody's duty to study and learn "what to do in accidents and emergencies." For this purpose the little pamphlet, "Accidents and Emergencies," written by the well known agricultural writer, G. G. Groff, M. D., of New York, price 20 cents, will be found quite helpful. I have read it through, with considerable interest, and am now studying it. It tells you in a nutshell what to do in an emergency, whether this is the bite of a snake, of an insect, or of a mad dog; a broken limb, a case of drowning or other accident. I just wish to make two extracts, as follows:

"Lightning Stroke. Precautions.—See that the lightning rods on the house are in good order. Imperfect rods are the rule rather than the exception, continuous, reaching into damp earth, and near the chimneys; during thunder storms keep away from open doors, windows and chimneys; keep quiet in lower part of house; feather beds are no protection. An iron bedstead may be some protection to one sleeping in it during a thunder storm. When in the open air, do not seek shelter under a tree; when on a prairie or treeless plain, dismount from your horse and lie flat on the ground. Treatment.—Dash cold water on one who is struck, and attempt artificial respiration as in drowning. Apply hot bottles, flannels, and friction."

Lost in Swamps, Sloughs or Quicksands.—When on foot and lost in a swamp, keep cool and carefully pick your way out. When a horse or other animal is bestruck in swamps, sloughs or quicksands, keep it, if possible, from struggling; quickly slip under the body of the animal, boards, planks, branches, or even leaves; obtain assistance, and carefully work one leg out at a time, placing it, when extracted, upon a board or other firm support. All dangerous quicksands should be guarded. When a man or boy is in a quicksand in a river, where these sometimes form, let him cease struggling and throw himself on his abdomen on the water or sand, and slowly but firmly draw his legs out. Others must not approach too near, but may throw him pieces of wood or branches, or with a rope draw him out."

CANNING AND PRESERVING FRUITS AND VEGETABLES.—This is a little pamphlet written by Ernestine Young, and published by the above mentioned firm. There are many good hints and recipes in it, but I was particularly struck by some remarks "in general" about glass jars and the fruit that is to go in it. "Be sure that every can used is a-tight, say, the author. Test by filling the jar with water and sealing as for fruit; turn the top of the jar downward and shake vigorously. If the slightest acid is perceptible, reject the jar. Experience has shown that at least one out of every dozen of new cans will prove defective; thus, if the jars were used without testing, all other conditions being perfect, one out of every dozen jars of fruit would spoil. It is economy to buy new rubbers for the jars every year; the cost is but trifling. (Many people) have the idea that fruit in the first stages of decay is as good for

preserving as that in perfect condition. This is a mistake, for fruit that is unfit for use—raw will be unwholesome when cooked, and will probably ferment. Sound, firm fruit should be used for all preserves." With tomatoes, housekeepers who try canning them, have usually more trouble and "bad luck" than with any other kind of fruit. The pamphlet says: "The tomatoes must be ripe and firm; if overripe they will not keep." Of course an overripe tomato is in the first stages of decay, and can not be expected to keep.

RABBIT-TRAP.

Here is a simple way of making a rabbit-trap. Rabbits are very bad about gnawing young fruit-trees, etc., and many would like to catch them for game. The trap is made as follows:

Make an oblong box one foot square and three feet long. Saw two doors one foot square, to cover the ends of the trap. Bore two holes in the middle of the box, one six inches from the side and the other three inches. Make a stick one foot long and drive it into the middle hole; it must be sharpened a little at the top, so as to hold up the top trigger, as shown in Fig. 2. Then make a trigger about two feet long (A in Fig. 2), with a notch at the top to hold the cross trigger, and a notch at the lower part to catch to the bottom side of the hole it passes through. Now make a trigger about four inches long (C in Fig. 2). Then make a long staff strong enough to hold up the two doors, say an inch square; it must be three feet long—the length of the trap. The two end doors must have a groove to work in, which is made by nailing two small strips on each end, and then a wider piece over it. Put a staple or nail in the middle of the top of each

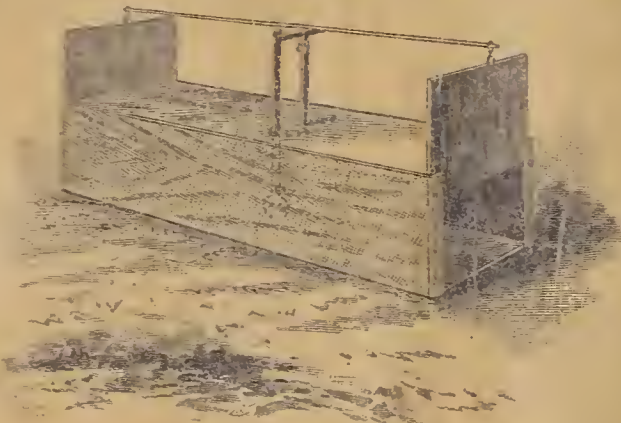


FIG. 1.—RABBIT-TRAP.

sliding door, so that a string can be tied to it and then to the ends of the long staff, so as to hold them up when the trap is set.

Fig. 2 shows how the triggers are set. A small nutbin of corn will make excellent bait. Fasten it on the end of the long trigger (A in Fig. 2) by staking the sharpened end into the nubbin. As sure as a rabbit comes along he will go in and begin to gnaw the corn, which will throw the trigger, and the trap-doors will fall and catch him in the trap. H. O. CROOK.

CHEESE MAKING IN CHESHIRE, ENGLAND.

Cheshire is one of the western or north-midland counties of England, and has long been noted for its dairy products. Cheese making is one of the principal agricultural industries, and in many sections is practiced with equal satisfaction and profit. An organization known as the County Dairy Institute has done much to develop the dairy interests, and to it I am indebted for many interesting facts regarding the present practice of Cheshire cheese making.

There are three different methods practiced, and the one followed depends largely upon the season of the year. These three are known as (1) the early ripening, usually practiced in spring; (2) the late ripening, followed during summer and early autumn; and (3) the medium ripening, which may be practiced during late spring, early summer and late autumn.

In visiting several cheese factories I found them to consist of three parts; namely, a dairy-room, a press-room and a curing or ripening-room. The first is constructed so as to preserve an even temperature and secure good ventilation. The floors are almost invariably of hard tile set in cement, and are generally a little higher than the land on which the building stands. The press-room is usually of similar construction to the "dairy," but in the best factories contains a "cheese oven," which consists of a chamber or closet built in one of the walls. This is heated by a flue passing under the bottom, and is kept at a temperature of about 73 degrees. A room with a southern exposure is generally used for a curing-room. The temperature of the dairy is kept at about 60 degrees, that of the press-

room from 65 to 70 degrees, and the curing-room from 55 to 65 degrees Fahrenheit.

The principal implements or utensils used in the manufacture of cheese are a milk-vat, curd-knives, curd-mill, cheese-molds, hoops, presses, etc., together with the usual assortment of milk pails, pans, strainers, etc. The milk-vat is rectangular in shape, about 20 inches deep and 50 inches wide, the length depending upon the amount of milk used. The vat is double-cased, the inner case being made of the best of steel, the space between, about 2 inches, can be filled with hot water or steam for heating the milk, or with cold water for cooling it. It is fitted with brass taps, covers and draining-racks in three pieces, on which the curd is placed during making. In this way the curd can be worked with greater facility and economy of labor. The curd-knives are made of the finest steel, the blades being set one half inch apart. The curd-mill is made either of iron or wood, and is fitted with spiked rollers, which reduce the curd to the size of an average garden pea. The cheese hoops are made either of wood or steel, and the customary sizes are from 12 to 16 inches in diameter. The presses are of various patterns; they may be either the single, double or triple chamber type, in the double lever system, and are capable of applying a pressure of from 400 to 2,500 pounds.

We find the same agents employed in the manufacture of cheese from milk here in Cheshire as in the cheese factories of the United States; namely, rennet, salt, and whey color is desired, annatto. These judiciously combined with the proper application of heat and pressure make up the essentials of cheese making. Rennet is used here in three ways, either in a liquid state, as a powder, or direct from the skin. Its strength is tested by taking a dram of the liquid, or a fixed portion of the powder, and mixing it with five gallons of milk, at a temperature at which it is usual to make the whole of the milk, and then to notice how long it is before it begins to thicken. If this occurs in from 20 to 25 minutes the right proportion of rennet will have been found. If it takes a longer time, more is required. If a shorter time, the quantity should be reduced. Of course, the exact quantity can only be fixed upon by repeated careful tests in individual dairies. The use of the cured and dried skins in pieces cut daily is not recommended by the most skillful manufacturers, nor is the use of highly concentrated or very strong rennet in the form of powder. In regard to the use of salt practice varies. As a rule, about 6 ounces to 20 pounds of curd are used in early spring, 8 ounces to 20 pounds in summer, and 9 ounces in autumn, when the milk is richer. An over-acid curd requires less salt than the quantities named.

I will now briefly describe the early ripening process and then the late ripening. It will of course be understood that it is impossible to lay down any rigid rules of procedure that will answer all the surrounding conditions of character of milk, weather, etc. Here, as elsewhere, the intelligent cheese maker trusts his own senses, and adapts himself to circumstances. Very generally, however, the following rules are observed in the making of early-ripened Cheshire cheese. The night's milk is strained into the vat and left until morning. The cream is then removed and the morning's milk strained into the vat. The whole is then heated to 75 or 80 degrees, and sour whey is added in the proportion of one quart to 30 gallons of milk. Rennet is then added, and the curd should be ready to cut in an hour. When ready for working, the curd will not adhere, but break over the finger, when flipped into it and raised sideways. The knives or curd-cutters are then used and the cutting is carefully done, the operation ceasing when the pieces are the size of beans. It is then allowed to settle, and the whey remains until there is a decided development of acidity. The curd is then gathered to one end of the vat and the whey drawn off. After draining for a short time, the curd is salted—about one quart of salt to 50 pounds of curd is the usual proportion. It is then placed in molds, where it is left twenty-four hours. It is then turned into another hoop, a clean, dry cloth being used. It is

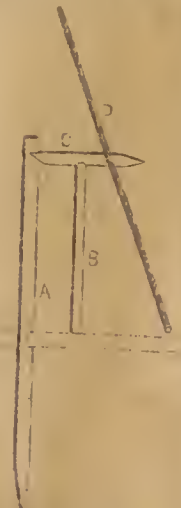


FIG. 2.—RABBIT-TRAP.

turned again the following morning, and put under light pressure, and is pressed for two or three days, being turned each morning, and a clean, dry cloth used. The cheese is then wrapped in a thin calico binder and is removed to the ripening-room. For the first week it is turned every day; then every other day. At the end of three or four weeks it is considered ready for market.

The late ripening process differs as follows: The evening's milk is usually strained into shallow pans and placed on the dairy floor. In the morning the cream is removed and most of the milk poured into the cheese-vat. The morning's milk is then added, and as much of the evening's milk is heated up to 130 degrees by floating the pans on a boiler of hot water as will raise the whole of the milk to 90 degrees Fahrenheit. The annatto is now used, being stirred in, the rennet added, enough being used to produce a curd ready to cut about an hour. The curd is then broken out to the size of small peas. The development of acid is prevented as far as possible by scattering a few handfuls of salt on the curd during the breaking-down process, and by drawing the whey just as soon as can be done. As soon as the whey is removed, racks are placed in one end of the vat, and the curd is cut into cubes and lifted on a tray, when it is turned every fifteen or twenty minutes. In three quarters of an hour it is weighed, broken up by the hands and salted in the proportion of 8 to 9 ounces to 20 pounds of curd; it is then allowed to stand with a light weight on it for about an hour longer; it is then passed through the curd-mill, filled into vats of a convenient size, lined with cheese-cloth, and carried to the cheese oven where a 50-pound weight is put upon it. Small, skewer-like sticks are inserted through holes in the sides of the vat, and every now and then withdrawn to facilitate the drainage of the whey. The next morning it is put under press. For several successive mornings it is turned into a new cloth and more pressure is applied. In four or five days it ceases to drip and is then taken to the curing-room. It is turned daily for the first week, then every other day for a month, then twice a week until it gets firm and well set, when once a week suffices until sold.

I will describe the Stilton-Cheshire and proper Stilton process of cheese making in my next. WILLIAM R. LAZENBY. Cheshire, England.

SOME NOTES ON FEEDING AND PASTURES.

On the average farm, one sheep may be kept to each acre of land without extra expense. There will be waste on all farms that sheep can turn into cash products, and get a living without appreciable cost to its owner.

Turn the sheep into all fields as soon as the crops are gathered. If fences are not used to divide fields, let a boy be given the job to keep the flock from trespassing upon forbidden fields. Turn in the flock an hour before sundown. They will fill themselves and be willing to come out before dark.

The American Farmer recommended the close pasturage of small pastures while the grass was growing rapidly, and keeping grass in reserve for a dry time that might come later in season. If anybody followed our suggestions, they are now fortunate. We now recommend keeping of some grass for winter use. Winter will surely come again, when dry food will be used. A little green food will go a long ways in keeping the flock in healthy condition.

A long while ago a Dutch butcher said to a young Illinois stock raiser: "Blue-grass is the very best crop that grows; you can use it from spring to winter. If you don't want it before winter it is just as good then as anything; if you don't use it all in the winter it will help to make the young grass all the better in the spring. You never are out of fat stock as long as you have blue-grass that the stock can get."

Be certain to have some grass, wheat, oats or rye for the sheep in winter. No rule can be laid down for sheep as to how much they should be fed. The old rule of half an ear of corn or a pint of oats a day is enough for a sheep is all nonsense. As well try to feed your boys by a formula. One boy will eat twice as much meat, bread, milk and vegetables as another. You know this, or your wife does. It is as true of a sheep. Watch them eat awhile. You will find that some are as greedy as a hog; they push and crowd others away just like old sow will monopolize all the food can from her own pigs. A sheep need the food it can eat. You must govern quality, and timid, feeble sheep should be separated from the strong gormandizer

they will never get as much to eat as you expect. It may be a slow feeder and require more time than the stronger or more rapid feeder.

The same difference will be observable in the pastures. Real cunning may be noticed in some sheep by always getting the best grass spots before the rest. There are always some spots in the pastures that sheep prefer to others. The results are these places will be eaten to the ground and the neglected parcels are left to grow up and go to seed. If there is sufficient pasture for the stock without these neglected patches, all right; but if not, these places should be examined and a remedy found. One remedy would be to run the mower over them and convert it into hay or bedding for stock. The new growth that will spring up will be fresh and sweet and readily appreciated. If on examination—use your eyes and nose—no sufficient reason exists for going around these spots, salt them while the dew is on the grass and then notice results.

The unevenness of sheep pastures is more noticeable after a wet spring, and is due to the preference of sheep for short, sweet grass. But when the dry season comes these neglected spots will be covered by rank, weedy grass, not relished by sheep; besides, the conditions will be found moldy, disagreeable and unsuited to health. Sheep have caprices just as people have notions, and they ought to be respected rather than ignored. The forcing of a sheep or a child to eat what it does not hanker after is cruel foolishness that no sensible and kind shepherd and father would be guilty of.

It is well to sweeten the path of life by kindness and acceptable food. Sorghum as sheep food is held in general favor in the West, especially in western Kansas. The fodder is a most excellent forage, almost, if not quite without rival for feeding out of doors. The seed is equal to any grain as a stock food. The blades are superior to corn blades, which has no equal in all the long list of dry forage. The use of sorghum molasses as a condiment has not attracted the attention of the general farmer that it should. It is not unusual with the common sorghum manufacturer to have "bad luck" in making molasses, and the price is greatly reduced, as it is hardly fit for the most common uses in the family. This can be used as a relish, an appetizer, a sweetmeat, in almost all rations for sheep, with a little labor and ingenuity that readily suggests a way to the thinking shepherd.

We insist upon experiments on this question of feeding. The cost of keeping flocks can be greatly reduced or the products of the flock can be increased in quantity and quality by judicious, economic feeds in such a way as afford a greater profit, and in less time than has been the rule. There need be no adherence to the old notions and practices of the past. The successful sheep raiser must suit himself to the conditions around him and keep an eye on the cash results of his toil and investments. He must live in the present and not in the venerable past. R. M. BELL.

MILK.

In these columns I have before written on milk, but there is something to be said on the subject at this time that ought to interest all consumers of milk. There is no food product, used it be said, in more general use than milk, and none that plays so important a part in our domestic economy.

Milk must be above suspicion, and the man in the city, or wherever he may be, is neglecting his duty if he fail to inquire into the source of his milk supply, particularly if young children are dependent upon it. The disease among cattle known as tuberculosis, another word for consumption, is prevalent. It creeps in a herd, takes possession and remains often long before the owner is aware of its presence.

The farmer may notice that some of his cows cough occasionally, that some of them, when hurried in from pasture, are "short breathed," but as no disease has ever been in the herd he may have no suspicion that it is present now. If he has studied or read a little of tuberculosis, he is not ready to condemn his own cows if they cough or breathe hard, for he may know of cases where coughers and hard breathers were condemned by experts and found to be unwell by the disease, with no trace of tuberculosis in either. In the same way, the cows in a herd may be diseased, and the farmer, as with the sheep, may be a captive to the old idea that the mean time will come when the diseased cows go to the market. The milk from these cows

to a puny babe may come from a tuberculous cow. This may have happened a thousand times; at all events it happened once. A man, received for his child, one cow's milk, and as it did not thrive as it ought to, he asked a veterinary surgeon, an intimate acquaintance, to visit the farm where his milk was produced, not particularly to examine the cow, but to see the place and "have a ride." Naturally the man asked to see the cow that fed his child, and lo, the doctor said almost immediately that there were symptoms of tuberculosis. It proved to be so. When killed, the cow was found to be in the advanced stage of the disease. The farmer told the truth, probably, when he said that he did not know that the cow was diseased.

A farmer had two cows in his herd suspected of tuberculosis. They were separated from the herd and their milk was given to two fat pigs which the farmer was raising for his own consumption. This went on for some time till the cows were condemned and killed. Not long after the pigs were killed and found to be in such a diseased state from feeding on the milk of the tuberculous cows that they were buried; they were unfit for food.

There is no doubt that great quantities of milk from tuberculous cows is sold in the market, and sold innocently, the producers having no knowledge of the presence of the disease in their herds. Milk farmers are very numerous; they cluster often around large cities, that is, within easy reach of them. A large part of the milk thus produced is sent to the city and its identity lost. The milk "peddler" often does not own a cow and may have little knowledge of cows, still less of milk. He deals it out to his customers, and in some instances furnishes "one cow's" milk.

It is difficult in cities to get pure milk; there is water enough in pure milk—88 per cent—without having any added from the pump and when it is found pure the question is, is the cow that produced it free from disease? If people generally knew what was going on in the "milk world," if they knew how great were the chances of getting tuberculous milk, they would look more closely into their milk supply. As I said in the beginning, the consumer who wishes to be on the safe side, will follow, if possible, his milk to its source; if it be not possible, it is time to change milkmen. Health, even life itself, may depend upon keeping a close watch on the milk supply.

The subject has been agitated so much—not a bit too much—that some consumers refuse to buy milk except of the man who keeps cows and produces his own milk, or can tell exactly where the milk he sells comes from. GEORGE APPLETON.

LOSSES AND CONDITION OF SHEEP IN THE UNITED STATES LAST YEAR.

We are indebted to the United States department of agriculture for the following statistics, given in the monthly report—April, 1892:

The losses of sheep in the United States last year were lighter than during any recent season. The importance of this class of animals in the farm economy is each year better appreciated. Values have been advancing both in wool and in wool and mutton districts, and as a result, better care and more liberal feeding have been provided. This increased attention is reflected in the good condition, immunity from disease and small rate of loss reported by our correspondence. The rate of loss amounted to but 3.3 per cent of the flocks of the country against 4 per cent last year and 7.5 per cent for 1890. \* \* \* The loss from stress of weather amounted to only 1.4 per cent, mainly confined to some of the southern states and the states of the mountain region. The aggregate loss from winter exposure was 648,654, and more than half of this loss was suffered in four states—Texas, Colorado, New Mexico and California. The total loss from both exposure and disease was 1,461,412. From the statistics furnished by the statistician of the department we note: Maine lost none last year from exposure and only 2.5 per cent by disease; in number, 14,239 sheep; by winter exposure lost 3.5 per cent, and by all causes 6.5 per cent, or 192,800 sheep; Oregon lost 6 per cent by winter exposure and 1.5 per cent by all causes, or 107,000 sheep; Florida lost 2 per cent by winter exposure and 5.6 per cent by all causes, or 6,550 sheep. This showing indicates the faith of the sheep raiser in the future of the industry. In these times, too, the ready expansion of the sheep-raising industry of sheep raising and wool production.

It is clean wool that is the trash. The manufacturer sees that the "don't you forget it, either" case in

fleeces is proper for the growth, health and preservation of fibers; but too much is a waste of food and vital force of the sheep. The greatest mistake of grades, and an injustice to the merino sheep in this country, was in high percentage of fleece to weight of carcass. It now reacts upon them fearfully.

The wide range in prices of sheep and lambs depends upon quality. During the first five months of 1892, Chicago received 103,000 less sheep than the corresponding date of last year.

The only way to eliminate the scrub sheep is for the man to go out of the business who makes scrubs out of good stock. Abuse the scrub man, not the starved sheep. R. M. BELL.

BUILDING CELLARS.

During the sultry summer months, farmers who do not enjoy the luxury of an ice-house are in a position to appreciate a good, cool cellar. And even where ice is to be obtained the cellar will only make it possible to obtain the greater benefit from ice. But perhaps not one in every dozen cellars made is cool in summer and warm in winter, unless it possesses some fault such as excessive moisture or lack of ventilation. In either case it is likely to be of little use and perhaps a serious menace to the healthfulness of the family.

One of the first things to be sought in the location is thorough drainage. No cellar is fit for use in which water accumulates or stands until everything becomes injured to a more or less extent. Neither is a house fit for habitation which stands over a cellar of this description. To be effective, the drain should be a few inches lower than the cellar floor, and if it extends entirely around the outer edge it is all the better. Next to drainage, the location in regard to the building must be considered unless it is to be beneath the entire building. The worst possible place is beneath the southwest corner of the building, while the best location is in the center, with the northeast corner as second choice. The walls, floor, and counters should be cemented to insure cleanliness, freedom from insects and solid surfaces. Our first cellar has a brick floor, but no one could induce me to put in a brick floor again. It is more difficult to sweep or scrub, and when cleaned does not present a respectable appearance. And the tendency to excessive moisture is increased.

The cellar beneath the dwelling is 12x28 inside measurement, extends from north to south beneath the center of the building. Ventilation is provided by means of two windows, one in each end; that in the south being shaded. The windows are provided with glass and screen sash, either of which is readily opened. A counter eighteen inches high and three feet wide occupies one side and the two ends. This saved excavation and stone foundation, and is all the more convenient. It is walled with brick and nicely cemented. It is dry, cool and clean. The temperature in winter ranges from 35 to 40, and in midsummer from 60 to 65. Fruit and vegetables kept to perfection, the early winter varieties of apples keeping till April and May. Last spring the tulpehockens kept nicely until May 20th.

JOHN L. SHAWVER.



Mr. J. G. Anderson

Of Scottsdale, Pa., a veteran of the 11th Penn. Vols., says, as a result of war service he

Suffered Every Minute

From liver and kidney troubles, catarrh in the head, rheumatism and distress in his stomach. Everything he ate seemed like lead. Sleep was restless, and in the morning he seemed more tired than when he went to bed. He says:

Hood's Sarsaparilla

and Hood's Pills did me more good than everything else put together. All my disagreeable symptoms have gone. Be sure to get Hood's.

HOOD'S PILLS are the best after-dinner Pills. They assist digestion and cure headache

FEB 24 1941

## Our Farm.

## HOME AND MARKET GARDEN NOTES.

BY JOSEPH.

GOOD GARDENING PAYS.—This talk of being independent of the seasons is idle brag. Conditions over which we have no control influence the results of our labors to a greater extent than is pleasurable to contemplate. Whether gardening pays or not, or to what extent it pays in any one year, is largely determined by the prices for products that happen to rule the market in that year, and their prices again are influenced by the abundance or scarcity of other products in market. A year ago, for instance, I had quantities of nice tomatoes in August which it did not pay to market, simply because the markets were overfilled with fruits of every description, and tomatoes also had been planted somewhat freely, thus making the demand for them much smaller than in average seasons, and the supply slightly in excess of the usual one, and largely in excess of the demand. The conditions seem to be reversed this season. The markets are not any too well supplied with fruits. Tomatoes also are not grown as much as ordinarily; consequently, they are in good demand and bring good prices. A friend in this part of the state tells me that he has been selling his surplus from the home garden to his townspeople at three cents a pound; and some of his neighbors trade with him, giving him a basket of eggs for a basket of tomatoes.

To raise nice, ripe tomatoes in the latter half of July and in August in this climate is not difficult, but it requires more skill than the farmer and ordinary home grower brings to this task, and more painstaking with the plants than is commonly practiced. Just for this reason, however, the gardener who has once learned how to do it, and who is willing to take just a little more pains with his plants than the great majority, will always, to a great extent, have a monopoly on the production of early tomatoes. Of course there may be a season like that of 1891, when the conditions of the fruit and vegetable markets are unfavorable to his special enterprise and are against his making much profit; but other seasons will more than make up for it, and one year with another, this little extra skill, and this little extra painstaking will give him large returns for his labors. Thus it is also with other vegetables that call for a trifle extra skill, study or painstaking to get them into market earlier than the main crop is marketed. It is so with celery; it is so with onions, and, indeed, with all kinds of vegetables. Don't give up because one season happens to be an unfavorable one. We cannot always help an occasional failure on that account. Perseverance in these undertakings, well followed, will pay.

In regard to selecting varieties of tomatoes for the purpose of having them early, I think the Early Ruby is yet the best. True, it is a weak grower, and therefore perhaps not as productive as most of our standard sorts. There is no help for it, however. We cannot expect an extra early sort to be as productive as one requiring a longer season for its development. It is a well-known physical law that every gain in time is offset by a loss of power, and every gain in power by a loss of time. We can multiply the power of the human arm a great many times by the use of a lever, but the resulting motion of the heavy article to be lifted is just as many times slower than the motion of the arm. Thus with vegetables; what we gain in time (earliness) we are apt to lose in productiveness. We should not expect a potato that grows and ripens in two months to be as big a yielder as one having a whole season for growth; should not expect the Early Ohio to yield as much per hill as the White Star or the Late Hebron. On the other hand, we can make up quite largely for this by closer planting and heavier manuring. Give an early potato much richer soil, and plant the hills a little closer, and you can get as many bushels per acre as you can of any late sort. The Early Ruby tomato, instead of being set five feet apart each way, as I set the Matchless, Ignatum, Potato Leaf, etc., may be planted three feet apart each way, and if tied to a stake, even two feet apart in the row. Its fruit is large and smooth enough for sale. The Atlantic Prize and Vaughan's Earliest are early, but not smooth enough. They will sell when there are no other tomatoes; but when nice, smooth Acmes, Champions, Matchless, etc., come into market, people will buy the latter and hardly look at the small, wrinkled, earlier ones.

There is money, also, in early potatoes. The Early Ohio has been in cultivation for fully twenty years. I consider it yet the best of the extra early sorts, and especially suited to rich clay loams. I always plant it rather close, and use large seed pieces. It usually yields but a few tubers per hill, say from three to six, but they are of good and rather even size, and they cook dry and mealy even before the tops die down. But they are so very early that the gardener who grows them has a chance to put them into market remarkably early. By all means, plant the Ohio as a garden potato. It would be useless to try it as a field sort on soil of only medium fertility; to grow good and good-sized tubers you must grow large, thrifty tops, and you cannot succeed in that except on rich soil. Plant as early as you can get the ground in order, or at least as early as you think will be safe to prevent damage to the plants by late spring frosts. It will pay to take some risk in this in order to get the crop as early as possible. The worst enemy to the potato crop that I have had to contend with for many years is a form of leaf-blight, which kills the tops prematurely and thus prevents full development of the tubers. I have tried all sorts of fungicides for this blight, especially the Bordeaux mixture; have sprayed thoroughly and frequently, but apparently without the least effect. The blight comes and continues just the same. Our scientists have not yet found a preventive or cure for this form of leaf-blight. Fortunately, it does not lead to rot of the tuber. It usually makes its appearance late in July or early in August, and gives us a chance to ripen the early-planted Early Ohio before the blight strikes it.

## Orchard and Small Fruits.

CONDUCTED BY SAMUEL B. GREEN.

## APPLE-BUTTER AND APPLE-JELLY.

Apple-butter is made from sweet apples that are pared and sliced or stewed until they will rub through a fine sieve. They are then added to fresh cider that has been boiled to one fourth its bulk, and the whole is sweetened to taste. Some makers use less cider and a few lemons. It is generally marketed in small, wooden tubs holding from five to ten pounds each. It will keep perfectly if put at once into tubs or jars, covered with a cloth dipped in salicylic acid and then over all with cotton batting. It is often made in large quantities. The price varies according to the care used in making and with the season. A real first-class article is generally in good demand and will pay a good profit.

APPLE-JELLY.—The ripe apples should be ground and boiled hard a few minutes, then strained through a cloth, and the juice, after being sweetened with nearly its bulk of sugar, run through a common sorghum evaporator or other pan. About eight gallons of juice will make a gallon of jelly. The price will vary according to the article made and the demand. A good article will generally pay a fair profit if economically managed. A little experience will help you much, and it would be well to commence in a small way first.

## INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

Japan Chestnut.—J. T. B., Leesburg, Tex., writes: "Will Japan Mammoth chestnut succeed in this climate, one degree south of the Indian Territory?"

REPLY:—I do not know, but do not think the result very promising.

Grape-vine Cuttings.—R. W., Peoria, Tex. It is generally safer to winter grape cuttings in a pit instead of planting them out in autumn or leaving the wood on the vines over winter, to be made into cuttings in the spring. It is not necessary to have sand to keep them in during the winter, for any sandy loam well dried will do nearly as well. I prefer to put them in with the tops down and the butts covered about three inches, thus covering the entire cutting. Do not make them until just before winter, and use only well-ripened wood. Plant out quite deep in spring, leaving the upper eye at the surface of the ground. The soil should be plowed several times before the cuttings are planted.

Grape Queries.—C. W. O., Yankton, S. D., writes: "What is the weight of the largest bunch of tame grapes ever known? What is the weight of the largest bunch of grapes ever grown in the United States? How many crops do they grow?"

REPLY:—The first question except to see the largest bunch of grapes I ever saw was the White Assyrian, which weighed 100 pounds. It is not especially large bunches where grapes are raised, but rather to get bunches of a large size. One-pound bunches are common, and those of one half pound are not as good for marketing. The weight after is color and quality. The weight of grapes a year in California

Gooseberries—Currants.—R. T. P., Julian, Cal. Crown Bob, Whitesmith and Industry are varieties of English origin of excellent quality. The Industry is the best for general cultivation, but none of them are generally satisfactory. The best native American varieties, which are the kinds generally satisfactory but not very large, are Downing, Houghton and Smith. The best American seedlings recently introduced, but not well tested are Triumph, Columbus, Golden Prolific and Puyallup Mammoth.—The best and largest red currants are Cherry, Versailles, Victoria, Fay's Prolific.

Best Varieties of Fruit.—H. C. S., Dillsboro, Ind., writes: "I wish to set out some fruit-trees, and desire advice as to the best varieties. I desire to set one acre in apple-trees; want only about four varieties of trees that are thrifty growers, sure and abundant bearers, good keepers, good color for market and good quality. What are the best pears—early, medium and late? I prefer those that do not rot at the core as soon as ripe. What are the best grapes—early, medium and late? What is the best strawberry with perfect blossom, for market? I desire a berry that is firm enough to be a good shipper. What are the best peaches—early, medium and late?"

REPLY:—There is no apple that has all the good qualities you name. Four good market varieties for winter are Ben Davis, Winesap, Grimes' Golden and Rome Beauty. For pears, try Bartlett, Flemish Beauty, Sheldon and Anjou. Grapes—Moore's Early, Concord, Brighton, Catawba. Strawberries—There is no profitable marketable variety with a perfect blossom. Peaches—Alexander, Crawford Early, Crawford Late, Old Mixon Free.

Almond Culture.—J. W. S., Pensacola, Fla., writes: "Would you advise planting an orchard of paper-shell almonds on land lying one mile from the Gulf coast and having a water protection of five miles on the north side, near this city? The thermometer seldom goes as low as 28° above zero. Where can I obtain details of culture, age at which trees commence bearing, probable profits of business, etc.?"

REPLY:—I am very certain that it would be a profitable venture, but would not advise going in very extensively at first. In the annual report of the California state board of horticulture for 1890, Webster Treat has a very able and exhaustive essay on the almond and its culture. In the report of the same board for 1891, are some very short, good notes on the subject, but the report for 1890 will be the best for the information you want, and it is the very latest to be found anywhere on this subject, which is treated in a very practical way. Address B. M. Selong, Secretary State Board of Horticulture, Sacramento, California, and inclose one dollar.

Plum-rot.—S. V., Fostoria, Ohio. Your plums were probably destroyed by a fungus called the plum-rot or plum morrillia. It lives within the tissues of the plum, cherry and peach, on the young leaves of them all at times. The waxy covering you speak of on the plum is the fruit or seed of the fungus plant which appears when the fungus breaks through the skin, and when the fruit dries up these spores (allied to seeds) are blown on the wind and become new centers of infection. This fungus winters over in the dried, rotten fruit it has destroyed in summer. Treatment:—No cure is known that can be used after the fruit commences to rot, but it can be prevented, or at least to a great extent, by burning or burying the rotten or dried-up fruit, and following this up by spraying the fruit as soon as well set, with Bordeaux mixture, and repeating the spraying at least once after three or four weeks. The Paris green may be applied for the curculio in the Bordeaux mixture, and is very effective so used.

Best Strawberry for Late Market—Best Peach.—J. D. B., Detroit, Mich., writes: "What strawberry do you consider the best late market berry and a hardy, good producer?—What peach do you consider the most hardy, most regular bearer, other than the Crawfords? I have seven hundred early and late Crawfords, six years old, fine, large, well-topped trees; had but few peaches in 1891, and not a blow in 1892. The trees are well cultivated and thrifty. What is the cause of non-fruitage?"

REPLY:—The best late strawberry I know of is the Gandy, but it is not very prolific, although where late berries are in demand it is often very profitable. Parker Earl is a very late berry and a magnificent fruit, but while it sets a great many berries it requires a very rich soil and plenty of moisture to do its best. This season I shaded a part of the bed with a brush screen, such as I use for evergreen seedlings, with the result that the late setting of fruit on the part shaded matured well, and we had much more and perfect fruit from this part than from that not shaded.—The Alexander is a reliable early peach; the Old Mixon Free a good medium, and the Heath Cling a good late kind. The Elberta is a new variety that I think a valuable market variety on account of its beauty, but it is not of good quality. Probably if your peach orchard was on high, not very rich land, you would be far surer of a crop. The trouble with your trees, I think, is that the trees grow so late in autumn the fruit buds do not mature sufficiently to stand the winter. I once had a small peach orchard in New York on rich, alluvial soil which was carefully cultivated, and another on the hillside near by, growing in poor land in grass, without any cultivation except a little unweeding around the trees. The latter would drop their leaves early in autumn, while the former were still green, yet I never got a crop from the trees in the valley, but grubbed them out, while the apparently neglected trees on the hillside bore very regularly.

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100 Varieties. Also Small Fruits, Trees, &c. Best rooted stock. Genuine, cheap. 2 sample vines mailed for 10c. Descriptive price list free. LEWIS ROESCH, Fredonia, N. Y.

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Anyone can put them on or take them off, or put in new calks. Single sets \$3.00. Send shoe outlines. Worth more than cost if kept on hand only to take the horse safely to shop when roads are icy and horse smooth. J. W. KENT, MERIDEN, CONN.

## A ROAD WAGON

\$32.00 To introduce our goods, we will give FREE.

one of these elegant Road wagons to any one who will sell Six (6) for us. Regular price is \$45.00, we sell it for cash with order for \$32. If you are looking for a bargain in Vehicles or Harness send for our free catalogue. FOSTER BUGGY & CART CO., 23 Pike Bid. Cincinnati, O. Mention this paper when you write.

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Cures Scab. Kills ticks and lice. Improves both sheep and wool. \$2.00 packet makes 100 gallons. Order of F. S. Bulkell, 178 Michigan St., Chicago.

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## Crimson or German Clover.

(Also called Scarlet Clover.)

A more valuable crop than this does not exist. As an improver of the soil, or for an early summer forage or hay crop it is unsurpassed. As a green manuring crop for GRAIN, COTTON, FRUIT or TRUCKING CROPS, it gives the very best results; while for improving poor land it has no equal. First introduced in Virginia fifteen years ago, since which time its growth has rapidly extended until now it is grown largely in nearly every State in the Union.

Sow during August or September, at the rate of 12 to 15 lbs. per acre.

New Crop Seed now ready. Price on application.

## T. W. Wood &amp; Sons, Seedsmen, Richmond, Va.

Fall Circular giving full information on all Seeds for Fall sowing, ready August 15th. Mailed free. Send for it.

with use Dr. Thompson's Eye Water

**Our Farm.**

**AN EXHIBITION OF THE WILD FLOWERS OF SCOTLAND.**

I have recently had the pleasure of attending a simple yet singularly attractive and pleasing exhibition. This was nothing else than a National Wild Flower Show, held on July 22nd, and 23rd, at Music Hall, Edinburgh. I have attended not a few floral exhibitions in my own country, but had never yet seen a show like this one, which was certainly unique both in its exhibits and exhibitors. As a wild flower exhibit it had a character of its own, and few in attendance had any idea that the common wild flowers of the valleys and hills, highways and hedges, meadows and woodland, could be arranged with such artistic effect, or could produce such beautiful and harmonious combinations of form and color. The floral attractions were displayed to good advantage, being tastefully arranged on tables in the spacious hall, where they were leisurely inspected by the numerous visitors. The flowers were grouped into fourteen classes, as follows:

1. Hand bouquet of wild flowers (Junior).
2. Hand bouquet of wild flowers (Senior).
3. Basket of wild flowers.
4. Bouquet of heather and thistles.
5. Bouquet of heather and blue-bells.
6. Bouquet of wild grasses.
7. Bouquet of white heather.
8. Collection of British wild ferns in rustic boxes.
9. Rustic home-made basket or box of six wild ferns.
10. Boards of dried leaves of British trees.
11. Collections of wild flowers dried and mounted.
12. Wreaths of wild roses and honeysuckles.
13. Crosses of wild flowers.
14. Window flower-boxes.

All of the entries in the above, with the exception of those in the last named class, were the work of children. The flowers had been gathered by their industry and arranged by their skill. The children of Scotland were incited to this labor not alone by the liberal prizes offered by the proprietores of the *People's Friend*, but rather for the prime object and purpose of the enterprise, namely, to help their unfortunate sick brothers and sisters, or to raise funds for the royal sick children's hospital.

The exhibition was not local in its character. It was not a collection simply of the wild flowers of Midlothian or of the east of Scotland. It was a good representation of the entire midsummer wild flowers of Scotland, from the Shetland Isles to the Cheviot Hills, and even extended beyond the borders, for there were collections from England and Ireland as well. In all, about 1,700 entries were made, representing the industry and good will of our 2,000 children.

One notable feature of the exhibition was that the arrangement, involving considerable expense, had been made without the committee in charge knowing in the slightest degree how well it would be patronized by the good people of Edinburgh. There was no entry money paid, no subscriptions asked, no names enrolled. All had been done in the simple faith that the children, especially the young readers of the *People's Friend*, would respond heartily to the appeal that was made to them and work for the object in view with right good will. It was known that if the children were once thoroughly interested, the parents would be also. The result certainly justified the confidence that the promoters of the enterprise had in their cause. The exhibition was a success in every way. In many respects it seemed to be one of the most charming exhibitions I had ever attended.

What can be more pleasing than to see the people of a country interesting themselves in the study and observation of wild flowers and in the growing of cultivated ones.

It is one of these objects which the general public can well afford to encourage.

A love of flowers indicates purity of refinement, and a great exhibition like this does much to encourage and stimulate the love of the beautiful.

There are many ways to awake the appreciation of the beauties of nature, and to develop human sympathies, but none could be more appropriate, or serve a more purpose in the way of accomplishing this end than a wild flower exhibition such as I have briefly described.

But there were other interesting features connected with this exhibition besides the display of flowers. During the two days

cellent music was provided by various bands and pipers from the highlands, and by different boys' bands from various industrial schools. Dramatic and musical recitals were also given at intervals, which largely added to the enjoyment of the occasion.

A few words regarding the flowers on exhibition: The greatest competition was in the junior section of hand bouquets, and the next was in the bouquet of wild grasses, of which there were over 250 entries. Another large and equally pleasing exhibit was that of hand bouquets of thistles and heather. In the wild fern competition several exhibitors had over thirty varieties each. Very attractive exhibits were there of baskets of wild flowers. The baskets themselves were usually of rustic design, made of rushes, willow and other twigs and variously colored wood and bark. The contents were gracefully and tastefully arranged, and consisted wholly of wild flowers and grasses. The boards of dried leaves of the common British trees formed a neat, but not very extensive group. For the most part, the competitors had taken great care in their selections and the specimens were neatly mounted. I was somewhat disappointed in the exhibit of window flower-boxes, which consisted of a comparatively few entries, and did not come up to the expectations of the promoters of the exhibition.

It is but just to say, however, that the variety and excellence of the exhibit did credit to the competitors. One of the home-made rustic boxes was composed of 200 separate pieces of wood.

Among the flowers, the first to attract my attention, and that of all Americans, were the ox-eye daisies, buttercups, white clover, yarrow, dandelion, campanula or harebell, common vetch or tare, lathyrus or everlasting pea, different varieties of plantain or ribwort, and many other species common to both Europe and America.

The bouquet of wild grasses had also many familiar constituents, but a variety known as Yorkshire fog appeared to be the most abundant. In the bouquet of heather and thistles the well known and not highly respected species surnamed Canada, bore a prominent part, while the cotton or Scotch thistle, Onopordon, was equally well represented.

In the third group, baskets of wild flowers, the true British daisy (*Belle's perennis*), was a prominent and more or less conspicuous feature, although often overshadowed by its larger and more showy companions.

But this article grows too long. I have written these few notes with the hope that the time is not far distant when wild flower exhibitions will be known and largely patronized in the United States, where the varieties are more abundant and more beautiful than they are in "bonnie" Scotland.

WILLIAM R. LAZENBY.

**EXTRACTS FROM CORRESPONDENTS.**

FROM KANSAS.—On visiting Ness county, Kansas, I find it overspread with the most wonderful crops of wheat and barley I ever witnessed. The inability of the railroads to furnish cars for transportation is putting farmers to their wit's end to care for the enormous crops of wheat of this county. As they intended to ship much of their wheat as soon as threshed, they did not prepare sufficient storage to save it, and every available building is used for the purpose, and still many of them are compelled to pile their threshed wheat on the ground and trust luck for its preservation till they can do better. I noticed one such pile, of perhaps 1,000 bushels, over and above what was shipped and stored in a large bin. Ness county has wonderful capacities for the growing of small grain. J. B. F. Ness City, Kan.

FROM ARKANSAS.—Mammoth Spring, Arkansas, is a growing city of about 1,000 inhabitants. It has the greatest known water-power of the kind in the world. It gushes out of the ground, among the foot-hills of the Ozark mountains, a veritable river of pure spring water. Cotton-mills and roller-mills turn out flour and cotton, day and night. But the greatest thing is the coming fruit-growing industry of this country. Apples are a success here. The trees are laden every year. Many are overbear, especially the Ben Davis and Sap. President Helvern, of our horticultural society, has now five hundred trees, many years old, that are bending beneath their heavy ripe, red apples. The soil here is well adapted to fruit growing. No failure of the crop is known. In this section trees have been known to bear fruit for seventeen years. One which has had two failures in this time. The peach is small in size. This land produces some of the strawberry and grape. Mr. [Name] has sold from one and one half acres of berries, over \$300 worth; Mr. Sharp, [Name] worth from less than three acres; Mr. [Name] as marketed over \$700 worth from [Name] acres. Our market is Kansas City, north and Omaha, north; Memphis, Rock, south. There is money in business at this place. J. W. S.

FROM CALIFORNIA.—The September 1st number contains a letter from Washington, Cal., which not only misrepresents the state of the labor market here, but reflects grossly on the majority of our farm laborers. It is true California is a large state, and conditions vary somewhat in different parts, but there is one custom that prevails throughout the country, which is that of the workmen packing their blankets along, whether they go afoot, a horseback or on the train, when in quest of employment. No one is considered a "tramp" simply because he does so. The genuine tramp here is too lazy to pack any blankets; the straw-stack is bed enough for him, and being too lazy to walk, also, he generally steals a ride on the break-beam of some freight train. In early days, during the gold fever in this state, the people when prospecting for the precious metal, packed their bedding, cooking utensils and household effects from place to place as best they could. And in the mines and even "camping out," the custom still prevails. Taking the mildness of our climate into consideration first, and also that our great state is not as thickly settled as the East, accounts partly for the custom. Generally speaking, our farmers here are backward in regard to building. In some of the counties one might travel for miles without seeing a barn on the ranches. The dwelling-houses, too, are small, and house room is lacking on most ranches for the help, which in harvest-time numbers often as many as twenty or thirty men. For the majority of harvest hands here the harvest does not last even a month, and the pay in Alameda county is but \$1.25 and \$1.50 per day. Farm help is not generally employed the year around in this state. The conditions do not warrant it. The reason is that farm work of all kinds is done on an extensive scale, and rushed through so hurriedly, and the help is usually discharged in the intervals between operations, a new lot being employed for each busy term. When harvest is through with and grain stored or sold, farmers have to wait for months for rain to fall before a plow can be started. I know a number of farmers here who hire out to their neighbors, taking teams with them, when they get through with their own work. The writer, though a farmer and employer himself now, has tramped hundreds of miles throughout the state, working in different parts, and was not ashamed to pack his blankets, either, and being a resident of the county for fifteen years, claims to know of what he writes. Therefore, I advise eastern workmen to stay where they are if well employed. San Francisco is full of all kinds of help at present, anxious for something to do. Farmers and others generally apply to the employment offices here for help, in busy seasons, when none are at hand, and "W. T. M." can do likewise and get plenty of men to work the year around, if he and his neighbors will pay them \$30 or \$40 per month and treat them well. Livermore, Cal. C. C.

**IN THE REDWOOD CANONS.**

"Down in the redwood canons, cool and deep,  
The shadows of the forest ever sleep,  
The odor of the redwoods, wet with fog and dew,  
Touch with the bay, and mingle with the yew.

Here, where the forest shadows ever sleep,  
The mountain lily lifts its chalice white,  
And myriad ferns hang draperies soft and light,  
Thick on each mossy bank and watered steep."

I read, with interest, Joseph's article on "Floral Display." In my garden is a fine bed of Washington lilies, which have given us so much pleasure, I am tempted to write more about them. Several years ago, when we first came to redwood forest, our badger eyes were keen for everything new. As soon as there was an opening large enough to let in the sun, up sprang a plant that was so beautiful we felt sure it was no common herb. So we marked it and eagerly watched its unfolding. Every few inches on the arrow-like stem there was a whorl of a dozen or more delicate green leaves. When several feet high it budded, and what was our surprise to find our pet to be a lily. And such a lily! Pure, waxy white, save its few fine freckles. Nor did it stop with one bloom, but from the top branches nodded dozens of the lovely chalice. The Master Artist soon gave a touch of pink, which, at the end of three weeks, had deepened to red, but with no signs of age or decay. Imagine the beauty of our bouquet—the newly-bloomed ones white, and the older ones in all shades of red, up to the deepest magenta. REDWOOD SETTLER.

SPECIAL SALE.—For 60 (sixty) days you can get Roofing, Spouting and Paints at 1/2 (one-half) price. Write for circulars to Jewett, the Roofer, Steubenville, O. On receipt of half the regular price quoted, we will promptly forward any order to any address. This sale is made to prepare for new building and machinery.

"All she lacks of beauty is a little plumpness."

This is a frequent thought, and a wholesome one.

All of a baby's beauty is due to fat, and nearly all of a woman's—we know it as curves and dimples.

What plumpness has to do with health is told in a little book on CAREFUL LIVING; sent free.

Would you rather be healthy or beautiful? "Both" is the proper answer.

SCOTT & BOWNE, Chemists, 132 South 5th Avenue, New York.  
Your druggist keeps Scott's Emulsion of cod-liver oil—all druggists everywhere do. 31.

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Painters and Paper Hangers send business card for our large Sample Books by express.  
**KAYSER & ALLMAN,**  
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"It is really invaluable."—Edward W. Bok, Editor Ladies Home Journal.

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**GUNS**  
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**For Your Horse.**  
For accident, too hard work, and skin diseases. **FRENCH SODIQUE** does wonders. Also for other ailments of animal and human flesh.  
your druggist's, send for circular.  
**HANCOCK & WHITE, Pharmaceutical Chemists, Philadelphia.**  
Look out for counterfeit. Genuine. Better cut the advertisement out and have it to refer to.

## Our Farm.

## THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey.

## BEGINNING WITH EARLY BROILERS.

**A**LTHOUGH the market for early broilers will not begin before the opening of the new year, the chicks must be hatched out in time to grow. It requires three weeks to hatch the chicks, and about ten weeks more for them to reach a marketable size; the whole period, from the beginning of the hatch to the period of selling, being about three months.

To reach the market in January the chicks should come out of the shells not later than the first week in November. As the prices gradually increase after January, reaching the highest limit in May, there is a wide field open for early broilers. The first lots that reach the market sell best when they weigh but little over a pound each, but as the prices go up, the weights also increase, until sizes of one and three quarters weight are desired.

The difficulty in securing early chicks is the fact that a hen will not sit until she is so inclined, and even if she hatches a brood in the winter season it is difficult for her to raise them. During the spring and summer, however, the hen will be useful in hatching and brooding chicks, owing to the conditions in her favor being better. We have earnestly aimed to encourage an interest in artificial incubation, on the part of our readers, as we believe it affords some of them to find employment in winter.

In April and May, prices sometimes reach as high as sixty cents a pound for broilers in the large cities. The cost of the food to produce one pound of chick does not exceed six cents. It must not be overlooked, however, that the cost of eggs for incubation, the labor, the buildings and other expenses are sometimes great, and losses by death may be very heavy. All are not successful, but many difficulties can be overcome after a year's experience. It is best to begin with a small incubator, and learn, and not venture too far the first season. If anything is to be done, however, this is the time to begin, not only for profit but also to experiment.

## POULTRY-HOUSE WITH END WINDOWS.

One of the most essential things to a poultry-house is the window. Plenty of light makes a house comfortable, and as fowls detest darkness, too much light cannot be given.

The illustration represents a building 12 feet long, 8 feet wide, 8 feet high in front and 6 feet high at the rear, the roof covered with tarred felt or any other water-proof material. Two large windows, each 40x70 inches, give light, they being placed near together at the southwest corner of the roosting apartment. Two doors are shown, one entering the roosting apartment on the left, and the other the feed-room, the feed-room being lighted by a window, or transom, over the door. The two rooms are separated by a lath partition. The roosts are arranged over a platform,

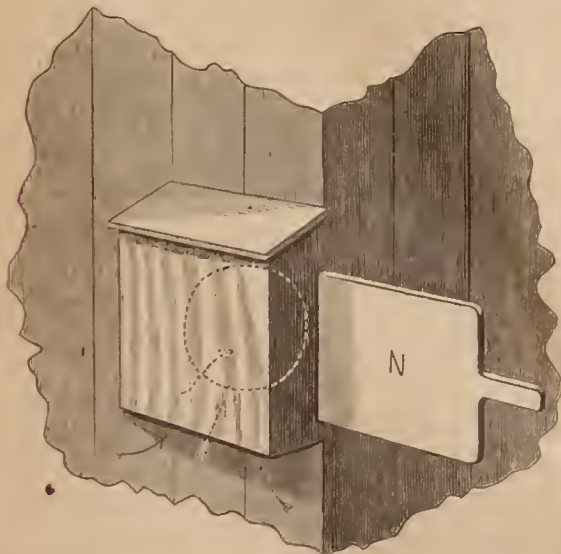


FIG. 2.—PLAN OF VENTILATOR FOR POULTRY-HOUSE.

at the rear of the roosting room, with the nests under the platform. The cost of the house, including labor, should not exceed \$35. The ventilators, one at each end, are seen at H H. They are circular holes, 12 inches in diameter, cut in each end of the house, near the top, but far enough from the front to clear the corner posts,

and as the matter of ventilation is important, the plan given may be worthy of notice.

Fig. 2 gives a plan of a ventilator, as mentioned, they opening and closing by the slide N, which runs in grooved pieces nailed above and below the hole. To keep out rain and snow, a box is fitted over the hole, which has only three sides and a sloping top. The air enters at the bottom and passes up and through the hole in the side of the coop, as indicated by the arrows.

Of course, the windows may be arranged differently if preferred, but if arranged as shown, the fowls will have a light scratching place, while the roosts, being at the rear, will be out of the way of drafts of air from any source. The windows cannot be opened, but the door should remain open during the day. The window over the feed-room should be arranged so as to be raised from the outside.

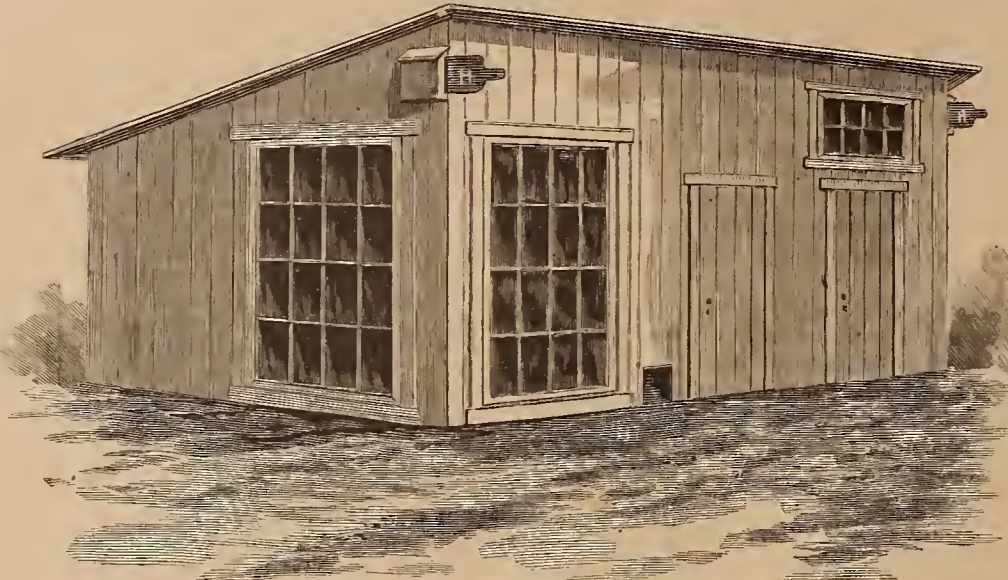


FIG. 1.—POULTRY-HOUSE WITH END WINDOWS.

As a cheap, light and convenient poultry-house for a flock of one dozen hens, the plan is an excellent one.

## INCREASE IN WEIGHT OF DUCKS.

The rapidity of growth of the Pekin duck is almost marvelous, and to one accustomed only to the keeping of the common puddle duck, the claims made in behalf of the Pekin are subject to doubt. Using ten ducklings for the experiment, we weighed them carefully. When just hatched, the ten ducklings, together, weighed exactly one pound. When one week old they weighed two and one half pounds; at two weeks old they weighed four pounds; at three weeks, seven pounds; at four weeks, ten pounds; at five weeks, seventeen pounds; at six weeks, twenty pounds, and at seven weeks, twenty-five pounds, or two and one half pounds each. Some of them were short on weight, while some weighed three and one fourth pounds each. At eight weeks the largest weighed four pounds each.

## HOW TO FEED LAYING HENS.

In the first place, do not overfeed. Bear in mind that if a hen is to keep in laying condition she must have exercise. When you feed grain, do not put it in a trough where the hens can stand and eat their fill, but scatter it far and wide, as the hens will find every grain. If the snow is on the ground after the cold season sets in, throw the grain in leaves or cut straw, so as to keep them busy. Do not feed grain exclusively, but give a variety. Allow ground meat, or meat and bone fresh from the butcher, three times a week. Vary the grain, feeding corn, wheat, and oats, and give cabbage, cooked turnips, clover leaves, or any other food that the hens will eat.

## FEEDING HAY TO POULTRY.

Only a few years ago, had the feeding of hay to poultry been suggested it would have created a surprise, but in experiments made it has been discovered that clover hay can be used to a large portion of the ration. The hay is cut very fine, about half an inch in length, and fed once a day. A small proportion of corn meal is sprinkled over the hay to make it bear improvement.

It is not only highly nutritious, but in lime, a substance required for providing the shells of eggs, which is in a more soluble form in the food than in the shape of lime or other insoluble substances. It contains nearly thirty times as much phosphorus as does corn, and is about equal to it in its proportion

of flesh-forming elements. One of its advantages as food for hens is that it is not only nutritious but bulky, and aids in the digestion of the grain. It is valuable in supplying those substances which are lacking in grain, and as it is plentiful on all farms, and requires but a few moments for its preparation, there is nothing to prevent its use. By allowing a ration of scalded clover to the hens after green food is gone, they will keep in better laying condition and the production of eggs will be increased.

## A CHEAP HOME-MADE INCUBATOR.

There is no better way to increase the interest in artificial incubation than to place within the reach of all an opportunity to make one at a small cost. We have before offered plans of an incubator in general use (the parts illustrated), with directions for operating, and which can be made by anyone accustomed to the use of tools. We

do not have anything to sell, and only offer the plans to those who desire to make an incubator at home. These plans can be had by addressing the editor of our poultry department, P. H. Jacobs, Hammonton, N. J., inclosing two stamps for postage and stationery, as the plans are free to all.

## PLENTY OF GLASS.

Large windows are an advantage to the poultry-house, as they permit of the entrance of the rays of the sun, and not only allow of warmth but light. During the winter season the hens will remain outside and face the storms rather than to occupy a dark poultry-house, and for this reason, light is even more important than warmth. With a well-lighted house and plenty of litter in which the hens may scratch and work, they will be more contented, keep in good condition and lay during the winter.

## LATE PULLETS.

Late pullets that are no larger than two pounds weight will not now gain sufficiently to make winter layers, but they will lay in the spring. Some prefer to keep them, in order to have them come in as layers at a time when the old hens begin to sit, but it is doubtful if it pays to feed them during the winter, if there is a large number of them, to say nothing of the room they will occupy.

## LOSS OF VIGOR IN TURKEYS.

When the eggs of turkeys do not hatch full broods, and but few of the young ones are thrifty, the indications are that the flock has been too closely inbred. The remedy is to select the best of the old hens for use next season, and procure a gobbler of some preferred breed from stock not related to the hens. This plan will often be found a preventive of loss of young turkeys.

## LIGHT COLOR OF YOLKS.

When grass fails there may be a liability of the coloring matter of the food being insufficient to give the much-desired deep color of the yolks. The lack of coloring matter, does not indicate a lack of food, the eggs, as the color depends on the food, the deeper color being given when there is an abundance of green food.

## HASTENING THE MOLTING PROCESS.

As it is getting late in the season, the hens should have finished molting. If not, give them a daily allowance of a spoonful of linseed-meal in their feed every two hens, and keep bone-meal in their quarters. Provide dry and warm quarters, as molting hens are liable to roup in wet weather.

## POULTRY AND PORK.

The cost of the production of pork is less than that of the cost of poultry, but the prices of poultry are higher. The keeping of a flock of hens, however, is not for the production of meat only, as a hen may lay ten dozens of eggs before she is sent to market. There is no conflict between the hog and the fowl. Both have their uses on the farm, and as far as the matter of profit is concerned, the hen can compare favorably with any of the animals.

## INQUIRIES ANSWERED.

**Feeding Clover Hay.**—F. S. L., Lorain, Oregon, writes: "Noticing that clover hay is recommended by parties as food for fowls, I ask your opinion in regard thereto."

REPLY:—Clover hay, cut fine and scalded, is regarded as excellent food for poultry in winter. In summer, clover may be cut fine and fed green.

**Young Chicks.**—H. T. M., Altoona, Pa., writes: "(1) Is there any remedy to prevent the combs of chicks from being frosted in winter? (2) What is the best feed for chicks in winter? (3) Would it pay to keep a pair of ducks during winter?"

REPLY:—(1) Only warm quarters will prevent the difficulty, though an occasional anointing with glycerine may prove beneficial. (2) Feed a variety, allowing wheat, corn, meat and finely-cut clover. (3) The ducks should pay if properly managed.

**Fertile Eggs.**—S. D. F., Stowell, Kansas, writes: "(1) How long after a cockerel commences running with hens will the eggs be fertile? (2) How long after the male is removed can eggs be supposed to hatch? (3) Is there any method of determining which of the eggs will hatch cockerels and which pullets?"

REPLY:—(1) We have known the fifth egg laid after the introduction of the male to hatch a chick sired by him. (2) The influence may extend to two weeks, but ten days is accepted as the limit. (3) There is no method known for determining the sex before hatching.

**When to Hatch Early Chicks.**—D. O. G., Lynnville, Ill., writes: "I shall depend upon hens to hatch early chicks. How early should I separate the breeds, and how many hens should I mate with one male? What is the best food to use? Which is the cheapest form of meat to use? Will a stove be necessary?"

REPLY:—If early chicks are desired, the matings should be made in October. Hens are uncertain for incubation in cold weather. One male with ten hens is about the proper proportion. Feed a variety, allowing meat and chopped clover, and give all grain scattered, so as to make the hens exercise. Ground meat is the cheapest form of meat. A stove is unnecessary if the poultry-house is made tight and has plenty of sunlight.

Nothing On Earth Will

# MAKE HENS LAY LIKE

## Sheridan's Condition Powder!

It is absolutely pure. Highly concentrated. In quantity it costs less than a tenth of a cent a day. Strictly a medicine. Prevents and cures all diseases. Good for young chicks. Worth more than gold when hens moult. "One large can saved me \$10, send six for \$5 to prevent roup," says a customer. If you can't get it send us 50 cents for two packs: five \$1. A 2-1/4 pound can \$1.20 post-paid; 6 cans \$5, express paid. "THE BEST POULTRY PAPER," sample copy free. Poultry Raising Guide free with \$1 orders or more. I. S. JOHNSON & Co., Boston, Mass.

The Improved Monarch Incubator.



Was awarded TWO first premiums at Madison Square Garden, Feb. 9th, 1892, first of \$25, in gold for the best hatch, first of \$25, in gold for the best machine in operation at the show, all the leading machines competing. More than 1800 ducks, chicks and turkeys from one machine in seven weeks. Price reduced. Thousands in successful operation in U.S., Canada and Europe. Satisfaction universal. Over 30 first premiums. Send for Circulars. JAMES RANKIN, So. Easton, Mass.

BEST INCUBATORS and BROODERS

hatching and raising Chicks ever invented. Brood only \$5. Catalogue. Geo. S. Singer, Cardington, Ohio.

OVER 60 RELIABLE HATCHERS at Decatur, Ill. alone. Hundreds of testimonials. NO BETTER incubator made. Send 4c. for illustrated catalogue. Reliable Incubator & Brooder Co., Quincy, Ill. Mention this paper when you write.

10 to 50% guaranteed to every user of NEWTON'S IMPROVED COW TIE. Send red stamp for circular explaining the above guarantee. E. C. NEWTON, Batavia, Ill.







PUTTING AWAY WINTER CLOTHING.

In the first place, it should not be put away too early, especially winter underclothing.

The moth is the bane of the housekeeper, but, after all, it is not difficult to escape its inroads.

Loug bags, the full length of dress or cloak, with hanging loops at top, save from creasing as well as from dust and moths.

The windows of a store-room or closet should be protected against moths and flies by a fine netting.

GOOD OLD TIMES.

It is well, as an old deacon used to say, to "count up our blessings" occasionally, and this is the way the American Economist compares the present condition of the farmer with the "good old times."

Despite all the talk about the hardships of the farmer, he is a king compared to his father or grandfather.

A bushel of wheat would buy three fourths of a barrel of salt; it will now buy two barrels.

Ten pounds of cheese were worth twenty-five pounds of nails; the cheese now pays for fifty-four pounds of nails.

A pound of washed wool grown ten years before the war would buy one fifth of a barrel of salt, three and five sixths pounds of sugar, three and two thirds yards of cotton cloth or ten pounds of nails.

These figures are based on New York City prices. But as a matter of fact, he never realized anything like those prices in his local market.

Freights were high, and when the cost of bringing produce to the New York market was deducted from New York prices for farm produce, and the cost of bringing the produce from New York to the village store he traded was added to the price of the goods bought, the average farmer was more than half as well off ten years before the war as our figures would indicate.

For instance, in 1857 it cost twenty-five cents to bring a bushel of wheat to New York, the cheapest route from Chicago to New York in 1891 it cost less than six cents.

Surrounded by these conditions, life on the farm was hard indeed. Calico and Kersey jean had to do for Sunday garments, and an ox-cart in which to ride to church was the height of style.

Luxuries for the table were almost unknown.

Johnny-cake and salt pork was a princely diet.

Those were days of hard times, when the farmer cradled his grain, and raked and bound it by hand.

He toiled early and late, saved and scrimped, and received less return for a week of hardest toil than the farmer of 1892 receives for a single day's pleasant ride on a mowing-machine or a self-binder.

Let us have no more of such "good old times."

THE MEDICINAL USES OF MUSTARD.

Few domestic remedies are of greater value than common mustard. As a condiment and agreeable stimulant to the digestive organs, it is found upon almost every table.

Of more importance is the use of mustard as an emetic. A tablespoonful of ordinary ground mustard, taken in a cupful of warm water, will produce copious vomiting in from two to five minutes.

But by far the most important use of mustard is as a counter-irritant. A mustard paste is second to nothing but opium in its power to relieve internal pain, whether arising from congestion, inflammation or spasm.

The mode of making the paste is a matter of some consequence. The mustard flour should be fresh. It should be wet up with cold or warm water, never with hot water or vinegar.

Used in this way, in the first stages of an attack of colic, inflammation of the bowels, pleurisy, bronchitis, pneumonia, or other similar affection, the pain may be almost always relieved, and in a large proportion of cases the disease broken up without further treatment.

WHY DO THE LEAVES FALL?

It is generally supposed that leaves fall in the autumn because they die. This is not a correct view. If we break off a leafy branch the leaves will soon wither, but not drop off.

As in man, the seeds of his decay are born with him, so in the leaf bud there may be discovered the rudiments of a very delicate layer of cells, whose plane is at right angles to the plane of the leaf.

"At every gust how the dead leaves fall."

—Harper's Bazar.

TOOLS OF THE PYRAMID BUILDERS.

A two years' study at Gizeh has convinced Mr. Flinders Petrie that the Egyptian stone workers of four thousand years ago had a surprising acquaintance with what have been considered modern tools.

"Fibrous Roofing Cement," any stop any leak in any Roof. See "sale" on page 5.

HUSKINGS AND APPLE BEES.

The custom of a couple of generations ago of holding neighborhood huskings and apple bees in the fall of the year had almost died out in our farming districts when the impulse given to social life on the farms by the organization of the "Grange" did something toward bringing back into favor both these venerable diversions.

Now, girls, I want you to do your part in reviving this good old custom. You know very well that when it is a question of keeping the social ball rolling everything depends upon you.

I have not space to give minute directions. You had better coax grandmother or some accommodating old lady in your vicinity to tell you all about the apple bees and huskings she went to when she was a girl.—Cottage Hearth.

PERSONALITIES.

Keep clear of personalities in general conversation. Talk of things, objects, thoughts. The smallest minds occupy themselves with personalities.

Do not needlessly report ill of others. There are times when we are compelled to say, "I do not think that Bouncer is a true and honest man," but when there is no need to express an opinion, let poor Bouncer swagger away.

HOW TO HANG UP TROUSERS.

The best way is not to hang them up. Fold them flat and lay them down. If there is no place to do this, hang them on two nails.

HOME STUDY. It will pay every young man and woman to secure a good Business Education in Book-keeping, Shorthand, etc., by Mail at their own Homes.

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QUILT PATTERNS! Three beautiful new One doz. 25c., all different, sent by return mail with catalogue of specialties. MODERN ART COMPANY, New Haven, Conn.

**Our Household**

**THE PEDIGREE CRAZE.**

CHAS. F. FOUNTAIN.

What is the world a-coming to? Surely, folks are going mad,  
The way they cling to notorious new, and grasp at every fad.  
It makes no difference where you go, on land or on the sea,  
The question and the talk now is, blue blood and pedigree.

In good society's circles there is no room for you  
Unless the blood within your veins is of the deepest blue;  
And it makes no difference who you are, or what your standings be,  
The door is shut 'gainst you and yours, if you have no pedigree.

And it is just the same with bird or beast, and nature's produce, too;  
They have got to know exactly when and where that produce grew.  
When butter is only worth ten cents from the common Bossy B,  
You will get just ten times more if made from a cow with a pedigree.

I tried to sell a fine young horse, handsome and kind and true,  
I could warrant him in, each respect, and the price was quite low, too;  
My customer said he suited him, and in all we could agree,  
And he said he would take him if he only had a better pedigree.

'Twas just the same when I tried to sell a pig, a hen or a sheep;  
It was no use—they would not sell if each of them did not keep  
Up to the scratch in the record-book of the old ancestral tree,  
And show each one in black and white a rousing pedigree.

So at last in desperation I sat me down one night,  
And for every animal on the place its breeding I did write,  
And posted up a notice, so that everyone could see  
That all my stock was warranted to have a pedigree.

'Twas thus I sold the old brown mare, who, long and long ago,  
Should have been gathered to her fathers, or else put up for a show;  
And despite the fact one eye was blind, she had the heaves and a crooked knee,  
She sold all right for a good, round sum on the strength of her pedigree.

Now, perhaps you think that I did wrong.  
Well, perhaps I did;  
But 'twas not for filthy lucre that from virtue's path I slid;  
But I will admit to one and all, it is with ghoulish glee,  
I try to get the better of the fiend of the pedigree.

Westport, Brown county, S. D.

**AUTUMN IS HERE.**

CHRISTIE IRVING.

WHEN we are done with one thing, there is always the "next." Summer clothes and summer things must now be put away; the cushions and hammock stowed away for next season, and we must be about preparing for a much more trying one. The house must be gone over a little, the stoves put up, and all the fireplaces arranged for the first cool days. Comforts are to be tied, blankets rebound and dresses to be reorganized, the late fall pickles to attend to, and withal, this is to the housewife a very busy time.

The oldest and frailest of the summer gingham and challees we shall utilize into comforts, using in each five pounds of white rose cotton, to make them as light and soft as possible. Do not use stiff, dark calicoes, as they are cold and so ugly upon a bed. Bed-clothing should be light as possible to be warm. Heavy clothing will be as cold as possible when the weather is cold. I shall utilize a light challee dress and an old cardinal



HOUSE DRESS.

one as one comfort, and all our light gingham and satens in another. They will keep clean two years, with care, and by that time should be renewed. The older ones can be used as top covers on the mattress. I never allow any of mine slept

on that I intend for top covers over the sheets, as it hardens and packs them.

**HOUSE DRESS.**—If from an old gown you can fashion a pretty hanging bell skirt and part of a waist, the rest can be supplemented by a velvet yoke, corselet and sleeves, trimmed with a silk braid. Our illustration is tan cloth and emerald-green velvet, with tan braid or jet braid, as preferred.

**SHOPPING-BAG.**—These are indispensable accessories to a lady's toilet. The one given is of heavy black satin embroidered in gold bullion thread, though heavy black silk will do as well. It is lined with chamois-skin, and heavy cords as handles.



CABINET.

**BASKET, OR PAPER-RECEIVER.**—This is made of a tobacco-bucket, covered first with a coating of shellac, and after drying, painted with enamel paint in white or very faint blue, the hoops gilded, and a design of flowers in broad color upon the side.

**CABINET.**—For our boys we give the design of a very pretty cabinet very easy of construction, which we hope will greet some mother at Christmas-time. As it takes time for these things, they cannot be begun too soon. The door could be of glass, which would better display the china one would like to keep in such a place. The shelf is enough for the Bible, a small volume of Thomas a' Kempis, whose delightful thoughts can profitably be read every day, and the household account-book. On the projecting shelf, a jar of Tradescantia will keep green and grow all winter, giving the little spot of restful foliage one always likes to see in winter-time.

The king has no more than his home. Make yours just as much to you as his is to him.

**DIFFERENCES.**

The king can drink the best of wine,  
So can I;  
And has enough when he would dine,  
So have I;  
And cannot order rain or shine;  
Nor can I.

Then where's the difference—let me see—  
Betwixt my lord, the king, and me?  
Do trusty friends surround the throne  
Night and day?

Or make his interests their own?  
No, not they.  
Mine love me for myself alone,  
Bless'd be they!

And that's one difference which I see  
Betwixt the lord, my king, and me.  
Do knaves around me live and wait,  
To deceive?

Or fawn and flatter when they hate?  
And would grieve?  
Or cruel pomps oppress my state  
By my leave?

No, heaven be thanked! And here you see  
More differences betwixt the king and me.  
He has his fools, with jests and quips,  
When he'd play;

He has his armies and his ships—  
Great are they!  
But not a child to kiss his lips—  
Well-a-day!

And that's the difference sad to see  
Betwixt the lord, my king, and me.  
I wear a cap and he the crown—  
What of that?

And he's the king and I'm the clown—  
What of that?  
How happy I and wretched he,  
Perhaps the king would change with me.

—Charles Mackay.

**A COUNTRY BEDROOM.**

ELIZA R. PARKER.

The home life is so much to the country housekeeper that every part of the house should be made pleasant, and as this may be done with very little expense, the bedrooms should be made as bright and attractive as the parlor, especially the ones intended for the use of the summer guests.

A room facing the east, that it may have the morning sunshine, is the most desirable, and it should always have an open fireplace. As few country homes can afford hard-wood floors, a painted or stained one

will answer, with pretty, cheap rugs spread over it; or, if preferred, a pretty straw matting makes a good covering for the floor, particularly in summer. If it is decided to paint the floor, the color will depend upon the furnishings of the room, whether they are light or dark. Before painting, all the cracks should be carefully filled, and the last coat of paint should have an equal amount of varnish mixed with it.

The walls are the next object of consideration. They may be kalsomined, painted or papered. The last named is the most economical and satisfactory, as beautiful paper may be purchased for almost nothing, but here comes in the question of taste.

The most important question is as to whether the paper is to form a decoration in itself or become a background for pictures. The simplest patterns are the best for all bedrooms; but where there are no pictures, and the eye must rest on the walls only, a greater variety in colors will be best, though to our notion, nothing can be prettier than the silver-gray, light drab, old blue or Nile green with rich, deep border. In selecting wall-paper, it is not judicious to do so from a pattern-book or the numerous samples sent out by dealers, as from them you can form but a feeble estimate of the brightness of color or the

general effect when spread over a broad surface. Paper often looks darker or lighter when on the wall than it did in the piece, where the light falls so differently upon it. It should be borne in mind that nothing lessens the size of a room so much as large-patterned paper. Care should be especially taken in papering bedrooms to have no paper that will fatigue the eye, for there are days of illness when one will be forced to lie in bed and study the paper.

The old fashion of whitening the ceiling is now little used, papering being in much better taste. The paper should not be like the walls, but in harmony with them. Very pleasing designs are now made to match in sets, for the wall, border and ceiling, which have a pretty effect.

After floor, walls and ceiling are in readiness, the other furniture should be selected. Sets for the bedroom are no longer considered necessary, and the furniture may be in odd pieces, or only two matching. If it can be afforded, the modern brass bedsteads are the best; but if too costly for the country housewife, very pretty bedsteads and dressers to match, in light woods, may be had very cheap. A lounge, upholstered at home in colors to harmonize with the paper and hangings, should have a place in the room. The windows may be draped in bright cretonne or white muslin looped back with ribbon bows. A tiny table holding a lamp, an easy-chair, with two or three other odd chairs and a writing-desk, complete the outfit of the chambers. If the bedroom is for the occupancy of a guest, books should of course have their place on a shelf or table, and a selection should be made to suit different tastes. A pretty calendar containing the days of the month should hang on the wall, and a small clock on the mantel will be an addition to the comforts of the room.

Of course, there are numerous little things, such as pictures, rugs, candlesticks on the mantel, fancy statuettes, pretty vases, and in summer fresh flowers, that will greatly enhance the attractiveness of the room, but in these matters a woman's taste will always suggest how best to arrange them, and if patience and judgment are exercised in preparing and furnishing the bedroom, the country housekeeper, even of very moderate means, will find she can make her taste take the place of money.

**SHE NEEDED THE WHEREWITHAL.**

"This is about the worst dinner I ever sat down to," he said, as he surveyed the table; "but I s'pose I ought to make certain allowances."

"Yes, John," replied his wife, "if you would make certain allowances you would have no occasion to find fault with your food."—Chicago News.

**EVERY LADY**

**HER OWN PHYSICIAN.**—A lady who for many years suffered from Uterine troubles finally found remedies which completely cured her. Any lady can take the remedies, and thus cure herself without the aid of a physician. The recipes, with full directions and advice, sent free to any sufferer, securely sealed. Address Mrs. M. J. BRABE, 621 N. 6th St., Philadelphia, Pa. (Name this paper.)

**GREEN APHIS.**

The green louse or aphid is a regular pest among house plants. He grows fat on insect-powder, and even tobacco smoke will not always annihilate him; besides, the latter remedy is very offensive to some people, especially if the plants are kept in the windows, and the fumes of tobacco will penetrate every corner in the house.

Take a basin of warm water and a small, soft sponge and prepare to make war on the louse. Do not squeeze the sponge very dry, and rub lightly over the leaves on which are the lice; these will adhere to the sponge, which should be rinsed in the water to cleanse it, and again apply to the lousy leaves.

It will take a little time and patience to get rid of them in this way, but after a little practice one can go over the leaves quite rapidly. This method is cleanly and effective if followed up a few times in succession. Of course, there will be eggs to hatch, even if the old aphid are all destroyed the first time, and so once going over the plants will not entirely rid the plants of this pest.

Watch carefully and drown them at the first appearance. Some plants, begonias, ivies, flowering geraniums, heliotropes and fuchsias, do not seem to be troubled with any of the insect tribe, while brugmausias, carnations, chrysanthemums and rose geraniums, sometimes callas, are regular palaces for his green highness. GYPSY.

**HULLED CORN.**

This is a favorite dish in many a farmer's home, but some of the young housewives do not know how to prepare this old-fashioned food. Select fine, plump ears of corn, and shell off all the large kernels, leaving the little ones at the tip of the ear. Make a cloth bag of thin, new muslin that will hold a generous pint of wood ashes, those from good hard wood; ashes from rotten wood and old boards are not as strong.

Put the bag of ashes and three quarts of corn into a six or eight quart iron kettle, and fill it with soft water. Let stand somewhere on the stove where it will boil slowly for three or four hours. Keep watch of the corn, and whenever the hull looks as if it were getting loose, drop some kernels into cold water, and if the hull slips off readily, remove the kettle from the fire, throw out the bag of ashes, and carefully pour off the water. Fill up with cold water, take a paddle and stir up the corn thoroughly; pour this water off, and fill up the kettle or pan with fresh, repeating this until the water keeps clear when turned off. The hulls being light will come to the top and pour off with the water. Do not put



PAPER-RECEIVER.

your hands in to stir the corn in the first one or two waters, as there will be enough of the ash water or lye to make them smart. Sometimes the lye will be so strong as to eat the corn, unless it is watched; if so, take out the bag of ashes and add more water, and then boil until the hull is loose.

Some kinds of corn will hull easier than others. On some the little black point at the base of the kernel does not come off with the hull; this does no particular harm, only in looks. After hulling, the corn should be put back on the stove with plenty of water and boiled for half a day, or until tender. I sometimes think the longer it boils the better it is. If possible, let the corn freeze after hulling; it is much more tender, and requires less cooking than that which is not frozen. Do not forget to salt the corn while cooking, as the flavor is so much better than if only added at the table.

THE CORN-COB PIPE.

S. Q. LAPIUS.

Oh! you people, w'at thinks that the market  
an' news  
Is enough fer a brain to contain,  
An' that fellers that wras'le to harness the  
muse  
'Re a-wastin' the'r talents in vain;  
W'y, you'll lose the crab-apple expression you  
wear  
An' yer hearts 'll grow meller an' ripe,  
If you'll only examine this poem with care—  
Through the smoke from a corn-cob pipe!

Fer I'm sure that a view o' poetic instink's  
Croppin' out in the hearts o' mankind,  
An' the poet jest writes w'at the rest of us  
thinks  
'Bout the beauties o' matter an' mind;  
But there's mortals so blinded by greed and by  
gain  
That they look fer gold dollars in type,  
Yet the cob-webs 'll float from the'r eyes an'  
the'r brain—  
With the smoke from a corn-cob pipe.

W'en the locust's a whettin' his wire-edged  
voice  
On the haze of a hot summer day,  
W'en the wheat is all gethered an' people re-  
joice  
That the mows 're a-burstin' with hay;  
With my book an' my pipe then I jest loll  
about  
In the shade of a beech 'r an oak,  
An' I put all vexations an' sorrows to rout—  
With the smell o' the fragrant smoke.

Oh! there's nothin' 'll smooth the rough edges  
o' life  
An' remove the sharp eorners o' fate;  
An' there's nothin' 'll banish the pizon o'  
strife  
'R extract the strong acid o' hate,  
Like a whiff o' tobaker smoke rightly ap-  
plied;  
Fer it soothes ev'ry spasm an' gripe,  
An' the best way to use it that's ever been  
tried—  
Is to smoke in a corn-cob pipe!

HOME TOPICS.

KITCHEN HINTS.—One of the reasons why  
it is difficult to procure help in the country  
is the lack of conveniences that most city  
houses have. In the city kitchen, hot and  
cold water may be had by simply turning a  
spigot. Stationary tubs for washing are  
usually found, and waste-pipes carry away  
the water from sink and tubs. Of course,  
the water supply must come from a differ-  
ent source in the country, but with the aid  
of a windmill, water may be piped through  
a country house. Not everyone can afford  
a windmill, however; yet, with a pump in  
the kitchen, or at least on a porch at the  
kitchen level, a few feet of rubber hose  
that can be attached to the pump, a cook-  
stove or range with a large reservoir, sta-  
tionary tubs and a sink with waste-pipes to  
carry the water away from the house—to  
the garden, maybe—the work will be less-  
ened immeasurably.

There are many minor conveniences and  
labor-saving appliances which may be had  
in any kitchen. A dresser with plenty of  
drawers is almost a necessity. An told  
bureau, if you happen to have one, can be  
utilized in this way. If the man of the  
house is handy with tools, there is no end  
to the conveniences which may be evolved  
on rainy days

Have some pieces of heavy pasteboard to  
set the kettles and saucepans on when you  
take them from the stove; they will save  
many a black spot from the table. Old  
boxes will furnish these. Punch a hole in  
one corner to hang them up. Old fruit-



SIDE-TABLE.

cans may be unsoldered, spread out  
used for the same purpose. Have a  
board on which to cut bread and on  
meat. A yard of table oil-cloth for  
kitchen table will save much scrub  
and last a long time if nothing is cut  
and no hot dishes set on it. Plier  
holders are a necessity, if one would  
their fingers and their temper. It is a  
plan to have one in your kitchen-  
pocket, and fastened to the hand with  
long tape and safety-pin. A wire  
around the stove-pipe and the ends tuck  
into hooks makes a handy place to hang

holder and a stove-lifter. Two or three  
horseshoes are handy things; not to keep  
the witches away, exactly, but to lay on the  
top of the stove to set a preserve-kettle on  
when the fire is too hot for it, or to slip  
under a pan in the oven.

Keep a good supply of old newspapers on  
hand to spread around the stove when  
broiling or frying, and many a spatter of  
grease may be saved from the floor. Noth-  
ing is better to polish tins, lamp-chimneys  
and windows than newspapers.

SIDE-TABLES.—If the kitchen is small,  
one or two side-tables hinged to the wall,  
with hinged legs in front which brace back  
against the base-board when the table is in  
position, are a great convenience, as they  
can be folded and fastened with a hook up  
against the wall and out of the way when  
not in use.

A good supply of large, dark gingham  
aprons for kitchen use are essential to com-  
fort, and a pair or two of sleeve-protectors  
to draw on over the sleeves of a good dress  
when getting tea, etc., are almost as neces-  
sary. Make them straight, and long  
enough to come above the elbow; hem  
top and bottom, and run elastic in the hems,  
so that when they are put on they will stay  
in place. MAIDA McL.

OUR RHUBARB.

Everyone knows that rhubarb, or, as we  
often call it, pie-plant, is delicious in the  
spring for pies and puddings, and simply  
stewed and sweetened, is highly relished  
by our family. Of course, as we are all  
fond of it, I have tried for the last fifteen  
years to get a start, and have never yet suc-  
ceeded in getting any thing but a start.  
Perhaps if I relate my experience, some of  
the many readers of this paper can tell me  
what is the trouble.

A number of years ago a neighbor, whose  
pie-plant was always a sight to see, gave  
me a lot of roots; also directions for setting  
them out. I carried the roots home and set  
them out at one side of the garden, with  
the help of my oldest boy, and I was cer-  
tain that I would soon have all the pie-  
plants I could use. It had only been set  
out a few days when the head of the house  
chanced to notice it and said I had not "put  
that stuff in a very good place, for it is too  
much in the shade."

"Well," I said, "I will move it."  
So next day I went out and dug up my  
piebarb and set it out on the north side of  
the garden, where the ground sloped to the  
south and was close to the alley fence. It  
would be in the sun all day there, and we  
fondly imagined that we would be all right  
now, and wondered how long it would be  
before we would have enough for a pud-  
ding. It took a start and grew nicely for a  
few days, until the "gude mon" saw where  
I had put it, and then he said: "What in  
the world made you put that rhubarb  
there? It is right in the way, for I intend  
hauling some manure to put on the garden,  
and want to throw it over there."

"All right; I will move it."  
And so next day I took my long-suffering  
rhubarb and made a ridge in the middle of  
the garden, and thought, "Now they will  
surely be all right, for they can have all the  
sunshine they want, and not be in any  
one's way, either." But alas for my hopes!  
We were late in getting the garden plowed,  
and behold, when "he" saw that pie-plant  
right in the middle of the garden, he said I  
could not have picked out a worse place,  
for it would be sure to be covered up or  
plowed when he plowed the garden. There  
was only one more place where I could  
put it with any hopes of keeping it there,  
and that was over next to a partition  
fence on the west side of the garden.

We began to be tired of digging holes  
with a shovel and filling them with manure  
and chip dirt, as we had been told was the  
proper way to prepare the ground, so for a  
change we borrowed a post-auger and  
bored holes, and then, after getting them  
all ready, we once more dug up our pie-  
"fillin'," which we had nicknamed "the  
Wandering Jew variety of rhubarb," and  
feeling very much like an old cat carrying  
ens from one place to another in  
of security, and after looking  
to see if any of our neighbor gar-  
were noticing what we were about,  
suddenly buried our pie-plant once  
This time the man we live with did  
not that particular spot for anything,  
some reason or other, that stuff  
not grow. Perhaps it had grown  
aged trying to get a start, or was  
for another resurrection; at any  
ever saw but one feeble stalk, and  
y dried up, and that ended the pie-  
business for that time.

So then my husband has taken the

matter in hand, and for all he got a good  
variety, and set it out and let it stay there  
in undisturbed possession of its chosen  
spot of earth, digs around it faithfully, en-  
riches the ground and does everything he  
can do for the benefit of our pie fruit, still  
it does no good, and only the tiniest of  
stalks make their appearance, while our  
neighbors have an abundance of it, and it  
seems to grow tall and rank without any  
trouble whatever. Perhaps we did not set  
it out in the "right time of the moon," or  
else we are not very extra gardeners. At  
any rate, any information regarding the  
growth of rhubarb will be thankfully re-  
ceived by the undersigned.

THORNY POPPY.

P. S.—We have a very nice recipe for pie-  
plant pudding, which we will be very happy  
to exchange with any one for pie-plant;  
also cream and sugar, providing they can  
get the cream to us this warm weather be-  
fore it sours (if not, they can send a larger



SHOPPING-BAG.

quantity of sugar); as sugar is quite useful  
in various ways, I can dispose of almost  
any amount while I am waiting for my  
pie-plant, which is still in its infancy, to  
reach mature years, if it does not grow any  
faster than it does at present. Here is the  
recipe:

Take the crust pieces of bread cut thin,  
spread with good butter and put them in a  
skillet or large pan, put on a very thick  
layer of rhubarb (peeled and cut up as for  
pies), then sugar and nutmeg; put some  
boiling water over it and cook carefully in  
a rather hot oven for an hour. It should  
not get dry on top, and if baking too fast,  
should be covered over with another skillet  
or anything that will keep the steam in.  
To be eaten with cream. Good warm or cold.

Oh, I forgot to say that all articles given  
in exchange for this recipe can be forward-  
ed to the editor of this paper, who can then  
send them to the writer. T. P.

COUNTRY LAWNS.

What a difference there is in them! Some  
are eyesores, while others delight the eye.  
As large a space as can be spared should lay  
the foundation for the lawn, for of all  
places, a country place should not have a  
cooped appearance, for it is in direct viola-  
tion to the idea which should dominate—  
that of ample room.

TREES ON THE LAWN.—A frequent mis-  
take is made in placing too much in a  
yard; where the place is new it is a tempta-  
tion to fill it up with young trees and  
shrubs, not realizing that in ten or fifteen  
years they will require much more space,  
thereby giving a crowded effect.

By and by our country people are going  
to learn that the so-called cedar-trees, pines,  
spruces, arbor-vite and other ornamental  
trees are much exceeded in beauty by our  
forest trees, and therefore, that the maple,  
walnut, oak and elm will do far more to  
adorn their lawns than ornamental trees  
which are so frequently trimmed into all  
sorts of contortions.

What a reverence is paid to a fine tree!  
It seems like a character full of  
uprightness and strength to withstand  
the storms of life, and its friend-  
ship, giving to the world of its pro-  
tection.

Birthday trees strengthen the  
"ties that bind," and should not be too  
many of them all in one place.  
For a child to know a tree was  
placed there on the day of his birth,  
to know all through his childhood that  
that tree is his own, to grow to  
manhood under its shade, is a suggestive of  
good.

It does not take an active memory, when  
you look down under the old maple-tree, to  
recall the childhood days when you were  
Mrs. Jones, and wore a sweeping train and  
did the honors of a tea-table spread with  
broken bits of china, whose contents were  
—if nothing better—imaginary; while  
Polly, who was Mrs. Smith, was your hon-  
ored guest, who related with direful dis-  
may her woes of wedded life, or perchance  
would fire you with envy while she dwelt  
upon the splendors of her palace. What  
wonder is it as you put away childish  
things that you keep in your heart a warm  
place for the old maple-tree whose shade  
still shelters you as you read or sew or hold  
conversation with dear friends?

Over in that corner is the old walnut-tree  
where you hulled walnuts and stained and  
smashed your fingers while you gathered  
your winter's store. While there is the  
danger of too many trees, there is the  
greater danger of too few. What excuse is  
there in a "tree country" for sun-scorched  
yards? No good one.

FLOWER BEDS ON THE LAWN.—Rather  
than to cut the yard up with flower beds it  
is better to give them a place in the garden,  
for we can't do without them. If they are  
in the yard they are unsightly for at least  
eight months of the year, and they too often  
form a dust wallow for ambitious hens who  
have wandered from their allotted territory  
to discover pastures new. In the garden  
the picket fence secures them from any  
such invaders. In these days of Osage  
orange hedges, rose-bushes planted here  
and there in a young hedge have proved  
successful.

WEEDS IN THE YARD.—Weeds grow with-  
out any coaxing, and usually weed pulling  
is a bugbear which does not receive special  
attention. Lately, in our family it was  
proposed that each member of the house-  
hold pull as many weeds daily as he is  
years old. Inasmuch as the family is a  
large one and all are grown up, the work  
achieved ought to be fruitful of splendid  
results, but some way the weeds do not  
grow beautifully less. To kill the weeds  
which will spring up in the walks, pour the  
boiling suds on them, wash-days. If the  
battle with the weeds is vigorous now, there  
will be fewer next season, and you may  
live in high hopes of the millenium.

Often a patch of weeds is the result of  
pure laziness. An old tree may blow over,  
and instead of being carried away it is left  
there to rot down, making the soil fertile  
for weeds. Have a pride in keeping your  
lawn neat, giving proof that the owner is at  
home. MARY D. SIBLEY.

JOKED ON HIS DEATHBED.

Not long before his death, the story runs,  
Barnum summoned his lawyer to the side  
of the couch where he was lying.

"I am very much worried," he said,  
"about a certain matter, and I want to con-  
sult you. My neighbor keeps peacocks.  
Suppose some of them should fly over into  
my yard—which they are doing all the  
time—and lay some eggs here. Would  
those eggs belong to me, or could my  
neighbor compel me to give them up?"

The lawyer, having duly scratched his  
head, answered:

"Well, Mr. Barnum, I must take time to  
look into this matter. But the best thing  
for you to do would be to keep the eggs  
and let your neighbor sue for the posses-  
sion. In that way your rights would be  
determined, and we should have a very val-  
uable test case."

"Well," said Barnum, "while you are  
looking into the matter, will you find out  
how it would be if the eggs were laid by  
peahens?"

The lawyer swore to himself, but never  
made any investigation.

SODA WILL SAVE YOU SUGAR.

Have you ever stood despairingly before  
a crock of stewed cranberries, gooseberries,  
rhubarb, dried plums—or, worse than all,  
prunellas—throwing in sugar, tasting,  
puckering your face and throwing in more,  
glancing dubiously meanwhile at the low-  
ering of the sugar in your "dollar's-worth"  
can? I remember well my grandmother's  
rule for sweetening pie-plant pies. It was  
this: Put in all the sugar your conscience  
will allow, then shut your eyes and throw  
in a double handful. If pie were excel-  
lent, but the rule was expensive. Here is  
a cheaper one: When sweetening ext-  
remely acid fruits like the above, stir in a  
little soda before adding the sugar. Experi-  
ence will guide you as to the quantity you  
may safely use without injuring the flavor  
of the fruit; but as a general rule, I think  
half a teaspoonful of soda to a quart of  
fruit may be easily borne.

Our Household.

MY MORNIN' NAP.

On the sunny side o' forty, when my bones was full o' sap. I didn't care so mighty much about my mornin' nap; I'd liked to beat the sun hisself a-gittin' out o' hed, An' watch him fling his banners up o' yaller an' o' red, An' see the shadders sneak away an' hide amongst the trees, An' hear the birds a-twitterin' an' feel the mornin' breeze. At five o'clock, the whole year roun', I'd never fail to rouse, An' Mary'd cook the breakfus' while I'd go an' milk the cows.

But many a thing is changed since then, an' somehow this old chap Has changed the most o' all. I guess, an' now my mornin' nap 'S the best thing that I git all day; I don't care nary red To hear the birds er beat o' Sol a-gittin' out o' bed. There ain't no birds her risin' sun in all the earthly zones Kin drive away my rheumatiz an' limber up my bones Like lyn' still o' mornin's in a gentle sort o' drowse. While Mary cooks the breakfus' an' the hired man milks the cows.

—Carrie Blake Morgan.

CHRISTIAN WOMEN OF INDIA.

ELLA BARTLETT SIMMONS.

It is utterly impossible to realize what vast numbers of people live in India.

Two hundred and eighty-six millions was the number given at the last census report.

Hence, you readily perceive that although a glorious work has already been accomplished, the natives are not "most all converted now," as one old lady said after I had finished telling her of the numbers who had forsaken their idols during the past year. It will be necessary to send missionaries there for many years to come, ere India be redeemed.

If the women and girls alone could pass before us, as we sit here reading our favorite magazine—LADIES HOME COMPANION—what an army there would be. Suppose they come two, four, six abreast, and at each tick of the clock a new company of six pass before us.

We remain all night; morning dawns; the sun rises and sets; darkness comes on apace; still we hear the tramp of weary feet, as we sit silently in our places. The week passes, the month rolls away, the harvests have been gathered, all things put in readiness for the winter, and yet we hear the sound of clanking feet and see the tear-bedimmed faces of the motley crowd.

The winter's snows fall and melt; spring is ushered in, the hot breath of summer fans our cheek; still we note the same steady tramp, tramp, as before; we hear the piteous cries and see the beseeching looks of these, our less favored sisters.

Autumn again approaches. We have been here one year, and during each second of these 365 days have seen one half dozen of the down-trodden women of Hindoostan pass before us, and still as far as eye can look the procession is seen slowly, steadily approaching. The clinking of their anklets as they strike upon the pavement drowns all other sounds. Their pitiful expressions obscure all other sights. We are saddened, oppressed.

But "dekho!" look! who are these approaching with a happier mien, and a more sprightly step, with less jewelry, but with cleaner clothes? "Sunu!" Hark! the wailing is turned into singing; the mourning into rejoicing. Listen! 'tis a familiar air, but the words are strange. "Ek nam shirin zamini per hai, etc." (There is no name so sweet on earth, etc.) Well may they sing. "For there's no word ever heard so dear, so sweet as Jesus." For it is Christianity and education (the two always going hand in hand) that causes them to differ from those around them.

In the first part of the procession we noticed that only those of the same caste would walk side by side, and each one appeared to avoid those belonging to a different clan. Not so with our white-robed company; (Christians usually wear white.) In this we see Brahmans, chamars, darzis, mallies and meters walking together as though composing one family group. And do they not indeed belong to one household? Are they not all King's daughters? And do they not forget caste lines and clannish distinctions "in His name?"

Let us follow some of them to their homes and inquire into their hopes and beliefs. We will accompany these Brahman sisters to their zenana and talk with them. They freely tell us that they no longer worship idols, but the one true God. There is a happy light in their eyes as they say, "We no longer fear death or dread transmigration, because we know our father loves us and will take us to his home above."

One may be obliged to tell as that she dares not let her husband know of her change of belief as he, not being a Christian himself, would leave her did he know she were such.

Those belonging to the lower castes are usually not so hampered, as the whole family generally receives baptism at the same time. Then are they free indeed. They cast aside their old superstitions, break caste lines and can live as they desire.

Let us enter one of the refuge homes, and accost the first native woman we see. "How is it that you are here?" we ask.

"Oh!" says she, "I was a poor, ill-treated widow and had been led to form illicit ties, was wicked and unhappy till the "memsahib" prevailed upon me to leave the life I was living and enter this home. Now I can read, sew, make rope and do many other things. I am a happy Christian "iswaqt."

We will next visit the home of our Christian cook. We enter through a clean court, see bright children at play, who tell us their mother is within. Entering, finds her busily preparing their savory evening meal. From her we learn that this is her second husband, that they have all been Christians for many years, that her father was a native preacher and was still living not far distant. We pay a visit to the old man, who tells us of the work he and his wife have done, adding that he was picked up during a famine, and taken to the boy's orphanage, where he had been educated. His wife had also been found friendless and alone, almost starving, and carried to the girl's orphanage.

Thus it is all over India, the orphanages and boarding-schools are to furnish the material for the Christian homes. From these our native teachers and preachers (the women preach as truly there as do the men) are to be procured. And in many instances these humble native Christians can do more toward convincing their brethren and sisters of the truth of the Christ religion than any learned divine. They are earnest and zealous and thoroughly understand the needs of those among whom they work. The women always obtain access to the zenanas and are listened to with great interest.

I at first headed this article "Educated Women of India," but the following from the *Indian Witness* recalled to my mind that Christianity and education are not always synonymous terms: "Widow remarriage makes head slowly against the trade-winds of iniquitous Hindoo customs. Poor Bai Shirbai and Mr. Mancharam, of Nadiad, near Ahmedabad, are suffering the peril of life and limb for the faith that is in them, which led to their marriage on the 17th ultimo. Even if she is killed outright by wrathful relatives, such a death will be preferable to the living death of Hindoo widowhood. They were married under police protection, and are living in their village under the special protection of the district magistrate." Bai Shirbai was a wealthy, educated Brahman, feeling that she had a perfect right to remarry, although not desiring to ent entirely loose from her old beliefs and become a Christian. Mr. Mancharam was a teacher in one of the government schools, a believer in, though not a professor of Christianity. Had they boldly "come out from among" their heathen relatives and acknowledged their change of religious belief, they no doubt would at first have been persecuted, then left severely alone.

Nothing really breaks the bands which bind these natives of India except Christianity.

PEARS AND QUINCES.

ELIZA R. PARKER.

The early and late summer fruits having been canned, preserved and jellied, the season for the last fruits of the autumn—pears and quinces—has arrived, and few housekeepers understand the variety with which they may be put up for winter use. The country housekeeper must generally have all her resources for the winter luncheon and tea-table provided at home. To such the pear and quince will furnish many delicious dainties.

Quinces combine very nicely with other fruits. After paring and slicing ripe quinces, measure, and to every quart allow

one orange and a pound of sugar; let simmer over the fire until tender, then take out the fruit and boil the syrup low, return the quinces to the kettle and cook until clear and red. For those who do not like dark-colored jelly, a pale, amber-tinted kind may be made by saving the peelings and cores, which should be put in a preserve-kettle, covered with boiling water and boiled half an hour, then strained, and to every pint of juice a pound of sugar should be added, and the mixture boiled until it jellies.

Marmalade made from quinces is a delicious tea dainty. It is made by peeling and coring the quinces, boiling them in water until tender and then mashing them and adding half a pound of sugar to a pound of fruit and boiling until thick and smooth.

Quinces, peeled and quartered, put up in thin syrup, when served in a glass bowl, look and taste like oranges. If desired, quinces and oranges may be canned in syrup together, allowing one orange to six quinces.

Pears preserved in the proportion of a pound of sugar to a pound of fruit are very rich. To have them less so, half a pound of sugar to a pound of fruit may be used, the syrup boiled low, and the preserves sealed. They may be canned in the same way as quinces, without the addition of the oranges, as pears have a distinctly pleasant flavor of their own.

To make pear marmalade, pare and core the fruit, put in a kettle and pour over boiling water, let cook until reduced to a pulp, when run through a colander and return to the kettle with half a pound of sugar to every pound of fruit, and cook until thick and smooth.

Baked pears and quinces make delicious desserts, while compotes made from either fruit will be found appetizing.

ANSWER TO CALIFORNIA LETTER.

I note with pleasure the soliloquy over the churn of your California correspondent. It seems a sad condition for a woman with such a bright and reflective mind to be obliged to make a drudge of herself. I believe too much in comfort to think that the possession of many acres is paramount to all things. I should prefer to content myself with three hundred acres of land and put the value of the remaining two into comforts in the way of help and conveniences. Life is too short to be filled with worries, and our children will not love the country when they feel that pleasures are denied them.

Speaking of young people in the country reminds me of a subject much discussed lately; namely, the undesirable literature permeating country homes. Many parents care nothing for reading; they are too closely engaged with daily duties to look over the books constantly falling into the hands of the younger generation. I have been a reading woman for many years, but having been blessed with wise directors in early life, I did not fall into the unfortunate habit of reading really trashy books, I have neighbors who read very little, but their young people are eager for more, and what books they do sometimes read!

Understand, I do do not advise stiff, formal literature, nor even standard novels, always; but if the parents would glance over the books read by their children to weed out at least the vile ones, they would be doing themselves and their neighborhood a great favor. Imagine my taking a book from the hand of a young girl, and at the first glance finding sentiments expressed and situations described which made my matronly cheek flush. This may be the realistic school. If so, excuse me from more of it.

With the hope that the child might pass unharmed through such a trial, I determined to write this appeal to parents. Boys and girls will have books, if they have to take what comes by borrowing

from indiscriminating persons. Avoid this by putting proper reading matter into their hands.

For those who find books too expensive to keep a constant supply, I have a plan which might act as a remedy, but I will reserve it for future demonstration if it be desired.

Mrs. M. P. H.  
Hautan, Tenn.


[Our California sister's letter has called forth a great deal of comment, and of course, as the subject interests only a few of our readers, we are sorry that our space is so limited that we cannot print more of the letters.—Ed.]

HOW ABOUT THE PRUDENCE OF allowing a Cough to run on, rasping the Pulmonary and Bronchial organs, when that approved and speedy remedy, Dr. D. Jayne's Expectorant, can be obtained from any Apothecary.


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### Our Sunday Afternoon.

#### SINCE SHE WENT HOME.

Since she went home—  
The evening's shadows longer linger here,  
The winter days fill so much of the year,  
And even summer winds are chill and drear,  
Since she went home.

Since she went home—  
The robin's note has touched a minor strain,  
The old, glad songs breathe but a sad refrain,  
And laughter sobs with hidden, bitter pain,  
Since she went home.

Since she went home—  
How still the empty rooms her presence  
blessed,  
Untouched the pillow that her dear head  
pressed,  
My lonely heart hath nowhere for its rest,  
Since she went home.

Since she went home—  
The long days have crept away like years,  
The sunlight has been dimmed with doubts  
and fears,  
And the dark nights have rained in lonely  
tears,  
Since she went home.

—Round Table.

#### FOR THE GLORY OF GOD.

ONE of the commonest mistakes that men make is to split up their lives into two parts, secular and religious. Such things as buying, selling and getting gain they include in the former; and such as reading the Bible, saying their prayers and going to church, in the latter. All this is essentially unchristian. According to the uniform teachings of the New Testament, our whole life from beginning to end belongs to God, and not merely some broken and scattered fragments of it. The duties of the home, the field, the shop, the counting-house are just as imperative as those of the sanctuary, and ought to be performed with as strong a sense of religious obligation. St. Paul brings out this truth and sets it in the forefront by means of two extreme and vivid statements. The first of the statements is: "And whatsoever ye do in word or deed, do all in the name of the Lord Jesus, giving thanks to God and the Father through him." The second is still more specific and concrete: "Whether therefore ye eat, or drink, or whatsoever ye do, do all to the glory of God." Now, eating and drinking are among the most commonplace acts of which we are capable. They belong almost exclusively to the lower and sensual side of our nature. They have reference not to intellectual or spiritual wants, but to bodily and fleshly appetites.

If, therefore, even these acts may be redeemed by religious considerations from the level of coarse and swinish delights, and lifted up to the heights of religious service, is there any part of our lives that may not be subjected to a similar transformation? What about plowing, sowing, threshing, trading, teaching, talking, reading and writing? Of course, St. Paul does not mean to insist that every time we eat a bite of food we should stop and say: "I eat this for the glory of God." The man who moves on that line will become an empty formalist or else a cant hypocrite. What the apostle does mean is we should be so supremely and wholly committed and consecrated to our own personal choice and election, that all our thoughts, words and works, even the least and most insignificant of them, should naturally and, as it were, unconsciously conduce to his glory.—*Christian Advocate (Methodist).*

#### AN OLD-FASHIONED PRAYER MEETING.

"When ye come together, each one of you hath a psalm, hath a teaching, hath a revelation, hath a tongue, hath an interpretation, hath a prophesy and there come in one another singing or unlearned, he will fall down on his face and worship God, declaring that the Lord is among you indeed."

If we put these words of Paul concerning an ancient prayer meeting into modern English, we shall have the best possible instructions for the conduct of a modern prayer meeting. Here are specific directions. No one needs to go beyond the letter of the text to ascertain his duty. He has no occasion to wait for any word from the minister, or any act from his congregation, or any special emotion or impression, to see what these directions are.

The first is, *sing*. Sing heartily. Sing to the Lord. Sing every hymn. Sing with the heart, sing with the head, sing with the tongue. If you have no hymn-book, sing the hymns at home in order that you may sing them better in the

The second is, *teach*. To teach is to cause to know. In order to teach, you must know something which another does not know, and make him learn it from you. In the prayer meeting you are to teach religious truth. Search for it as hidden gold, and when you have found it, divide it with your brother.

The third is, *reveal*. What God hath shown you in hard but helpful experience, that declare to the people. The call from experience to experience is always heard.

The fourth is, *quote*. What you have read that has made you stronger and better will benefit your brothers.

The fifth is, *interpret*. Some sentence from the Bible has been opened to your understanding, has been illustrated in your experience, has been enforced by new arguments. Give your interpretation.

Now notice the condition and the wonderful promise. If all prophesy, the unbelieving will worship God. With such a promise as this before him, it is no wonder that the minister asks you to stay up his hands and follow the instructions of Paul.—*Morning Star.*

#### WHY IS IT SO?

We may never understand why sin was permitted to come into the world, and to bring death and sorrow to the race; but whether we do or not, the fact confronts us that it is really here, and should extort the query, "Is there a remedy?" Thank heaven, there is a proffered remedy. Will we accept it? Sin can be removed by the blood of Christ, and that cleansing will entitle us to the removal of the effect of sin—mortality—in due time, as well as to screen us from the punishment entailed by transgression.

Whether we can understand why sin was permitted to come or not, we can understand that it is here, and that there is but one way of escape from the ruin that it is sure to bring to the many victims within its grasp. The question of escape is one of primary importance. We are in the dilemma—in a world of sin and death—a fallen world; will we accept the only way out? If we would get out of the world of death into the world of life, we must first get out of the world of sin into the world of grace—the world of glory comes next.

#### 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 he said he should have become an infidel 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. They shed not one solitary ray of hope or light upon the darkness. They shall not take away the guide and leave me stone-blind. Second, I had a mother. I saw her go down into the dark valley where I am going, and she leaned on an unseen 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 myself. I would rather kill them than leave them in this sinful world, if you blot from it all the teachings of the gospel."—*Shop Whipple.*

#### THIS PAPER

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#### LOOK UNTO JESUS.

There are certain people who look across the way at their neighbors and say: "If I were as well off as they, how I would help on with the work of the gospel!" They then drop down to not helping at all, which is also their characteristic habit. There are others who take up a peevish disposition and cultivate a kind of envy toward those who do more than themselves. The root of the difficulty with all such people is that they do not want to work, but try to find excuses for their idleness. If their hearts were in the cause of Christ, they would do what they could, which is all that he requires of any one, and, finding a pleasure in it, would grow up into a disposition of brotherly communion with their fellow-worshippers, and experience the enjoyment of hearts free from jealousy.

It is always safe to look, reverently and gratefully, at the Savior. If along with this there is a determination to do his will, there will be healthy, happy living. It is when men quit looking at him, and selfishly or spitefully look at each other, that they decline from fruitful piety, and lose the blessedness of the gospel.—*United Presbyterian.*

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Selections.

PAT S ANGEL.

I thought I's dead for a minute,
So I let myself jus lay,
And wondered, kind o' stupid,
If I'd get to heaven that day;

BLOOD-ORANGES.

The MALTESE blood-orange is one of
the choicest and most highly
flavored of all the varieties of
the orange. It is true that the
flavor is not so mild and sweet as some,

THE ARMIES OF EUROPE.

European politics are an interesting
study to Americans, since this country
supplies that continent with much of its
imported food-stuffs.

THE ANCESTORS OF ENGLISHMEN.

For the fatherland of the English race we
must look far away from England itself.
In the fifth century after the birth of
Christ, the one country which bore the
name of England was what we now call

blood and iron are in the pink of condition
to do it again.

France has shown remarkable recuperative
power since the Franco-German war.
To-day her armies are better prepared for
the inevitable than during the wars of
Napoleon the Great.

Russia is rich in her materials, but the
soldiery is only half trained, and with the
exception of a few crack corps, of low intelligence.

Austria's army is efficient, so is Italy's;
and these gigantic hosts, with swords
drawn and ensigns spread, wait until a
Parisian mob or a rash kaiser launches
them into the flames of war's conflagration.

To read this is strange. We Americans
are as far removed from Europe in
these matters as Europe is from Asia and
the Turk. Truly our land has need to
thank God that the war-drum throbs no
longer and the battle-flags are furled;

TO BREAK UP A COLD.

The following plan, though rather heroic,
will generally break up an ordinary cold
if taken in season: The moment a person is
convinced that he has "taken cold," he
should go to his room and stay there.

A hot sitz and foot-bath, or a hot deep-leg
bath should be administered at once, and
repeated in twelve hours if the disease shows
no signs of yielding. The temperature of
either bath, to begin with, should be about
one hundred and five degrees, and should
be gradually raised until as hot as can be
borne, where it should be kept to its completion.

I have mentioned the sitz and deep-leg
baths because they can always be improvised
in every family. When accessible the
Moliere or the Turkish bath is in most
cases to be preferred. The following is a
very fair substitute for either of these:
The patient, entirely nude, is seated on an
ordinary chair with his feet in a hot foot-
bath, and a spirit-lamp with a large wick,
or better yet, one with three or four wicks,
is placed under the chair. The patient is
then enveloped in three or four blankets,
placed so as to leave the head free, and may
remain in this condition from fifteen
minutes to an hour. Perspiration generally
begins in about ten minutes, and may
be increased by drinking plentifully of
water, or by placing a pan of water over
the lamp. At the completion of the bath
the blankets are quickly removed, and the
body, after being washed all over with a
towel wrung from water of eighty-five
degrees, is thoroughly dried and well
rubbed. If a cold has been allowed free
swing for several days, none of these baths
will break it up, but they will lessen its
duration and severity. Even in this case,
the lightest diet is the best, and the less
the patient goes out of doors the better.—Dr.
Leffingwell, in Laws of Life.

lish lay the tribe of the Jutes, whose name
is still preserved in their district of Jut-
land. To the south of them the Saxons
wandered over the sand flats of Holstein
and along the marshes of Friesland and
the Elbe. How close was the union of these
tribes was shown by the use of a common
name, while the choice of this name points
out the tribe which, at the moment when
we first met them, must have been strong-
est and most powerful in the confederacy.
Although they were all known as Saxons
by the Roman people, who touched them
only on their southern border where the
Saxons dwelt, and who remained ignorant
of the very existence of English or the
Jutes, the three tribes bore among them-
selves the name of the central tribe of their
league, the name of Englishmen.—Green.

NEW AND STALE BREAD.

The nature of the difference between new
and stale bread is far from being known.
It is only lately that the celebrated French
chemist, Boussingault, instituted an inquiry
into it, from which it results that the dif-
ference is not the consequence of desiccation,
but solely of the cooling of the bread.
If we take fresh bread into the cellar, or in
any place where it cannot dry, the inner
part of the loaf, it is true, is found to be
crumbly, but the crust is no longer brittle.
If stale bread is taken into the oven again,
it assumes all the qualities of fresh-baked
bread, although in the hot oven it must un-
doubtedly have lost some of its moisture.

M. Boussingault has made a fresh loaf of
bread the subject of minute investigation,
and the results are interesting. New bread,
in its smallest parts, is so soft, clammy,
flexible and glutinous (in consequence of
the starch during the process of fermenting
and baking being changed into mucilag-
inous dextrine) that by mastication it is
with greater difficulty separated and re-
duced to smaller parts, and is less under
the influence of the saliva and gastric juices.
It consequently forms itself into hard balls
by careless and hasty mastication and
deglutition, becomes coated over by saliva
and slime, and in this state enters the
stomach. The gastric juice being unable to
penetrate such hard masses, and being
scarcely able even to act upon the surface
of them, they frequently remain in the
stomach unchanged, and, like foreign
bodies, irritate and incommode it, inducing
every species of suffering—oppression of
the stomach, pain in the chest, disturbed
circulation of the blood, congestion and
pain in the head, irritation of the brain,
and inflammation, apoplectic attacks, cramp
and delirium.

ABOUT TEETH.

The common snail sets forth to ravage our
gardens equipped with 150 rows of stout,
serrated teeth. The whole palate contains
about 21,000 teeth, while a full-grown slug
has over 26,000 of these silicious spikes.

The whelk has a ribbon-like tongue, con-
tained in a proboscis, with which it bores
holes in the shells of the mollusks which
form its food. The tongue has strong, saw-
like teeth on the edges, with rows of finer
ones between. In some mollusks the
tongue resembles a tessellated pavement,
with a tooth in the center of each lozenge-
shaped compartment.

But although the palatal system of the
snails form a powerful and most efficient
apparatus for triturating their food, it more
closely resembles the gizzard of birds than
teeth of quadrupeds, and it is in the class of
fishes that we find the first examples of true
teeth, set in a bony socket and ranged at
the opening to the alimentary canal.

At what time the fashion of wearing
teeth came in we have no means of ascer-
taining. If, however, the Darwinian theory
be correct, at some enormously remote
period of time some lucky animal de-
veloped the new weapon by a series of
fortunate variations, and its possession
gave to him and his posterity such a "pull"
over their competitors that they were able
to set the fashion, which has lasted to the
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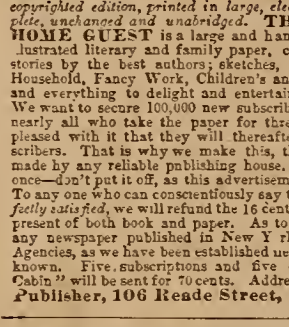
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### Gleanings.

Whene'er a noble deed is wrought,  
Whene'er is spoken a noble thought,  
Our hearts, in glad surprise,  
To higher levels rise.

Honor to those whose words or deeds  
Thus help in our daily needs,  
And by their overflow  
Raise us from what is low.

—Longfellow.

### DENTAL ELECTRICITY.

The exact similarity in conditions attending repetition of experiments is a great element of success. One should be very careful before coming to a conclusion that his premises are correct. A striking example of this was recently presented to my notice.

A dentist came into my laboratory the other day and said:

"See here, I can't for the life of me understand what is the matter with me. All my patients complain that when I first put an instrument into their mouths it pains them fearfully. I've thought it all over and have come to the conclusion that my instruments must be magnetized or bowitched, or I am. I've brought over some to have them examined. Just let me show you what I mean. Have you got a sensitive tooth?"

I pointed to a molar then under process of repair. He unwrapped one of his instruments and selecting one gently inserted it into my open mouth and touched the filling in my tooth. All I felt was the instrument touching the filling. I experienced no pain.

"Good heavens, man!" said he, "what nerve you have! What fortitude! What?"

"Nonsense," I exclaimed, "I didn't feel anything."

"Well," said he, looking puzzled, "you're the first man that hasn't yelled when I touched his tooth since I moved into my new office. I can't understand it."

I told him I would come around to his office in the afternoon and see if I could find out what was the matter.

Later in the day I called to see him.

"Well, have you got it yet?" he asked, as he walked across the carpet and shook hands with me.

"I hadn't one second ago," I answered, "but I have now. Did you notice what happened when you shook hands with me?"

"Nothing but the electricity." "That's just it. Every time you walk across the floor to your cabinet for an instrument you get a small charge of electricity in your body, and naturally, as soon as you touch the sensitive tooth of the patient the delicate nerve receives the charge through your instrument, hence the pain. The reason why I felt no shock in the laboratory was simply because there was no carpet for you to rub your feet on before you touched my tooth."

Here we see that merely the want of a carpet on the floor altered entirely the conditions for a successful repetition of an experiment that had apparently no connection with the presence of a carpet.—*Electrical Review.*

### THE END OF THE WORLD.

The age of the earth is placed by some at five hundred millions of years; and still others, of later times, among them the Duke of Argyll, place it at ten million years, knowing what processes have been gone through. Other planets go through the same process. The reason that other planets differ so much from the earth is that they are in a much earlier or later stage of existence. The earth must become old.

Newton surmised, although he could give no reason for it, that the earth would at one time lose all its water and become dry. Since then it has been found that Newton was correct. As the earth keeps cooling, it will become porous, and great cavities will be formed in the interior, which will take in the water. It is estimated that this process is now in progress, so far that the water diminishes at about the rate of the thickness of a sheet of writing-paper year. At this rate, in 6,000,000 years water will have sunk a mile, and in 15,000 years every trace of water will have disappeared from the face of the globe.

The nitrogen and oxygen in the atmosphere are also diminishing all the time. It is in an inappreciable degree, but the time will come when the air will be so thin that no creatures we know can breathe and live; the time will come when the world cannot support life. That will be the period of old age, and then will come death.—*R. A. Proctor.*

### THE FAMILY SCRAP-BASKET.

Chile means pepper. Bibliomaniacs are usually men. Women have a rage for collecting old china, old lace, fans, miniatures and the rest, but not often rare and curious books.

When potter's ware is boiled for the purpose of hardening it, a handful or two of bran should be thrown into the water, and the glazing will never be injured by acids or salt.

When a doctor doesn't know what is the matter with you, he says you've got "malaria." When he is uncertain as to the cause of your death, he calls it "heart failure." Great is science!

The *Philadelphia Record* defines a "progressive dinner" as a Lenten diversion, where the meal is served on small tables accommodating four, and at each course the gentlemen change tables.

What housekeepers want is a cook-book that gives recipes for dishes that do not require six dozen eggs, five barrels of flour, the milk of one cow for a month, and a couple hundred pounds of sugar.

A disinfectant which combines cheapness with general worth is found in permanganate of potash. One ounce will make a bucketful of disinfectant. It is a crystal, and can be kept in this state until ready for use.

### DESIRABLE IGNORANCE.

It is a good thing to know how to swim, but a bad thing to be reckless as a result of the accomplishment. At a riverside picnic not long ago some young men asked a lady to go out with them in a boat.

"Come on," they called. "There isn't a particle of danger."

"Well," the lady said, "I suppose you all know how to swim?"

The young men were compelled to confess that not one of them could swim.

"Oh, well," said the lady, "in that case I will go with you. If none of you can swim, you will be careful."

She entered their boat, quite confident that they would not tip it, nor rock it, nor play any of the jokes which foolish boys sometimes play on the water, "because we can swim, you know."

### TWO WAYS OF PREVENTING MOTHS.

Moths are a pest of houses; eternal vigilance is the price of safety from them, and sometimes that is not enough. Two women, recently discussing moth preven-

tives or protectors, found safety in different methods. One packed her winter clothing, after thoroughly airing and looking over, in clean barrels, whose crevices, if any, she carefully pasted over with newspapers; when the barrel was filled a newspaper was securely pasted over the top, and the parcel was moth-proof.

The second used old trunks, with any broken places carefully protected with newspapers, and sprinkled naphtha over each garment as it was laid in, finishing with a layer of newspaper at the top well doused with the naphtha. Each had "never had a thing eaten by the moths." The naphtha advocate urged caution in its use. No match or light must be brought near while the sprinkling process is going on nor until the place has been well aired.—*New York Times.*

### MOST ANCIENT PAINTING KNOWN.

The most ancient painting of which the author is known and date ascertained is a portrait of Henry Eighth as a child, with his young brother Arthur and his sister Margaret. This was done by Jan Gossart, called Mabuse. One of the several copies, bearing date 1495, is in the gallery at Hampton Court. This celebrated artist received the name Jan de Mabuse, from its being his birthplace; he lived from 1470 to 1532, and was court painter to Henry Seventh, of England.

**A BIG OFFER** 50c. MADE IN A MINUTE! If you will hang up in the P. O., or some public place, the two show bills that we send, we will give you a 50c. cert., and send it in advance with samples and bills. This will trouble you about one minute, and then if you want to work on salary at \$50 or \$100 per month, let us know. We pay in advance. **GIANT OXIE CO., 21 Willow St., Augusta, Me.**

**LOOK HERE!** Do you use lamps? Our patent attachment improves the light, avoids dirty work in filling, saves time and money. You need it. All housekeepers need it. Samples free, and Gold Watch premium to first each week. Write at once. Agents wanted. Good pay, steady work. 3 months subscription to Monthly Journal for 2c. stamp. **J. Bride & Co., Nassau St., New York, N. Y.**

**ILLUSTRATED LORD'S PRAYER AND TEN COMMANDMENTS** This is eminently a home picture. It is more than a mere ornament; it is an ornament and a text book combined. It contains more food for thought than many whole books. Each sentence, nay, each word contains haloed suggestions from which whole volumes could be written. It is an elegant 16x22 inch Chromo Lithograph. Sample Copy 25c. Stamps taken. **CRUMB PUB. CO., Mayfair, Chicago.**

Always mention this paper.

### SATISFACTORY RESULTS IN A CASE OF INJURY TO THE SPINE.

POULTNEY, VERMONT, May 2, 1892. **DR. A. OWEN.** Dear Sir: The 15th of January, 1892, I commenced wearing Dr. A. Owen's Electric Belt, No. 1, with Spinal Appliance, which I bought of you, and have continued wearing it up to the present time with very satisfactory results. I had my back strained in lifting about thirty-six (36) years ago, am now 63 years old, and suffered almost constantly from pain and weakness of the spine, which I am happy to say is now much stronger, with little or no pain, in fact, I feel that my back is nearly well. Two years ago last winter I was taken with LaGrippe, and was laid up six weeks, which left my kidneys in a very bad condition, my urine high colored, scanty, frequent and painful. The trouble continued with but little relief, and the following winter of 1890-91 I had a relapse or return of LaGrippe, which was more severe, especially my kidney trouble. This time I was confined to the house ten weeks. I got some better so as to work some during summer and fall, but as cold weather came on my troubles increased. I took a severe cold and had all the symptoms of the LaGrippe, and had fears of having another winter's sickness. At that time I commenced wearing the Owen Electric Belt, which proved itself sufficient for the task, as **improvement began in less than two weeks** and has continued up to the present time, and now I am happy to say, my kidney trouble is cured, and general health very much better; feel stronger and more like living. I do heartily recommend to all who suffer, The Dr. A. Owen Electric Belt and Appliances, for I know it has done great things for me. Respectfully yours, **A. J. SMITH.**

### ADDITIONAL REFERENCE.

BY PERMISSION. **MRS. WILL CADY**, Compton, Neb. **G. B. SUTTON**, Saltville, Kansas. **P. E. WALL**, Hampden, Mass. **DANIEL J. HOPKINS**, Mt. Pleasant, Mich. **H. G. HANSON**, Princeton, Ill. **HATTIE MCGOWAN**, Keokuk, Mich. Persons making inquiries from the writers of testimonials will please inclose self-addressed stamped envelope to insure prompt reply.

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Please find enclosed money express order for one dozen framed pictures. I have had good success and will soon order several more. **Mrs. L. C. Miles, Wisconsin.**

Please find enclosed money order for which I have ordered two dozen framed pictures. **Miss C. E. Beebe, Connecticut.**

Please ship me at once three dozen pictures by freight. I enclose draft for your terms. **Lia A. Gaylor, South Dakota.**

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Could there be a more favorable time to sell such a picture? The World's Fair is to be held in commemoration of the discovery of America by Columbus. He is the hero of the hour. His name is on everybody's lip. Every newspaper and magazine throughout the land is reviewing the work accomplished by Columbus, thus keeping him constantly before the people. Think what an immense advantage all this free advertising will be to you. All this talking and thinking and writing about Columbus, all this money being poured out in advertising him, will help you to sell this picture.

People will want it before you have said a dozen words. In many cases they will insist on having your sample copy, and will hardly take "no" for an answer. Agents who have met with but little success in selling other things will find in this picture just what they need. To sell a book or a piece of furniture, you must make an eloquent or a lengthy description of it, stir your customer up, make him feel that he wants it, and if he takes so long to think about it that he forgets what you have said, you must go over the whole ground again. How different with this picture; it tells its own eloquent story.

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Our Miscellany.

IT IS TIME YOU CAME BACK.

It is time you came back, my darling, You were never so late before; For the vine has cast its lingering leaves Outside of your waiting door.

The parents who rear their sons in idleness are doing them an unspeakable harm. Every boy is entitled to know by actual experience what hard manual labor means, and to get the blessing that comes from toughened muscles and a sun-tanned skin.—Christian Advocate.

Mrs. PAUL and Mrs. Wise, lady managers for Virginia, together with their auxiliary board, have undertaken to raise \$16,000 for the Virginia building at the world's fair, which is to be a full-sized reproduction of Washington's home at Mount Vernon.

In these quadro-centennial days it is worth while to recall the fact that the continent now named America has gone at one time or another by a great many names. The notion that Columbus held of finding a northward passage to India by way of the Atlantic is recorded in the names. New India and India Occidental, found upon old maps as indicating the land discovered by Columbus.

The American flag has an interesting origin. Before the Mayflower landed at Plymouth, the English flag was the only one in use in the Anglo-Saxon colonies. This flag was red, with the cross of St. George in one corner on a blue ground.

TO WHITTIER'S MEMORY.

Rev. S. L. Bell, of the First Congregational church, Marblehead, Mass., delivered a very interesting discourse on "The Character and Influence of the Late John G. Whittier," at that church yesterday morning.

Mr. Bell took for his text: Amos vii., 14, 15, "I was no prophet, neither was I a son of a prophet, but I was a herdsman and a gatherer of sycamore fruit, and the Lord took me as I followed the flock, and the Lord said unto me, Go; prophesy unto the people of Israel."

He said in substance: "It was Whittier's lot to know something of the stern conditions under which the ordinary soul is educated among us, and fitted for its work in life. It was for him no luxurious home, no splendorous library, no schools of art and of music which the great possibilities of his nature might have developed.

The character of Whittier was always charming and attractive. He was one of the most sincere men this century has seen. His convictions were the result of his fine sense of righteousness and the ever-abiding consciousness of his duty to God and humanity.

The existence of wrong troubled him and forced him to speak out what was in his mind. It was impossible for him to be false to his better nature and to turn away his ear from the cry of the suffering and oppressed.

However, he was remarkable for the simplicity of his manner and habits of life. He was not spoiled by fame or flattered into

consciousness by his enthusiastic admirers. The graces of modesty, meekness and gentility never forsook him.

"What a delight it was to see him in his own home! He sat in plain clothing in a small and unpretentious room, with eyes full of meaning, and a voice which in conversation on favorite themes often became as musical as a rippling stream. And there was in him a singular purity of thought and aim and purpose. Whatever things made for the elevation of his spirit, for the enrichment of his soul, for the lessening of the world's burdens were loved by him and used for the molding and shaping of his character.

"He was unquestionably a great poet, though by no means the greatest of American poets. He had not the deep and measured cadence of Bryant, who not seldom reminds us of one of the old psalmists. He had not the nimble fancy and subtle power of touching the common which are so conspicuous in the lines of Longfellow.

"But he had, to a marvelous degree, the lyric quality of Burns. When the inspiration was upon him, the verses came spontaneously, and their rhythm was of the highest order. He had such buoyancy and energy, and consciousness of diction and sublimity of thought, such sweet and beautiful ideals, that he carried his readers along with him with ever-increasing admiration and pleasure.

"But his poetry is full of the noblest moral teaching. God is to him the father of the human race; all men are brethren; the universe is the symbol of the divine presence and energy. Upon these three pregnant and thoroughly scriptural ideas he constantly dwelt in his meditative hours and in his moments of rapturous song.

"And now he has gone to his reward. We shall not look upon his like again. But we are unfeignedly thankful for the blessings he has left us, and we shall endeavor to acquire his Christ-like temper and the splendid charity of his words and deeds.—Boston Herald.

ROMAN FEASTS.

As exemplifying the pitch to which Roman epicureanism was carried, and indicative of a truly barbaric nature, a dish consisting of the tongues alone of some thousands of the favorite songsters of the air was requisitioned at immense cost to satisfy the inordinate cravings of one of the emperors.

The stanch Roman, who did not take his pleasure homeopathically, reclined during dinner on a luxurious couch, his head resting on his left elbow, supported by cushions. Suetonius draws attention to a superb apartment erected by the extravagant Nero, in which his meals were partaken, constructed like a theater, with shifting scenes changing with every course.

The amount of money often expended by the wealthy Romans on their sumptuous meals appears fabulous. Vitellius is said to have spent as much as 400 sesteria (about \$1,228 of our money) on his daily supper; and the celebrated feast to which he invited his brother cost no less than \$40,350! It consisted of 2,000 different dishes of fish and 7,000 of fowls, with other equally numerous meats.

By the way, we wonder if these happy-go-lucky Romans ever suffered much from indigestion. Of one thing we are certain, that in order to render the bridge from one feast to another less tedious, an occasional resort was to a persuasive powers of an emetic. The extravagance of these times was indeed so great that to entertain an emperor at a dinner you were a Croesus, was to ensure almost certain financial ruin—literally taken up. One dish alone at the elioabalus has been known to cost \$1 to \$4,000 of our money.

ROMANCE IN WHITTIER'S LIFE.

Whittier's poem, "In School Days," is one which even the school children are fond of. Some way the sweet verses are very dear to their hearts, and when they are once committed to memory they have a way of lingering long after the school children have grown men and women. It is the one romance of Whittier's life which is about the tangle-haired girl who thirty years ago had said she had loved him; Whittier's bachelor life is traced by those romances to his love for her. Iconoclasts find pleasure in contradicting and ridiculing his story; but those who believe in it

are much happier in their belief than are those who deny it in their historical accuracy.

IN SCHOOL DAYS.

Still sits the school-house by the road, A ragged beggar sunning; Around it still the sunmacks grow And blackberry-vines are running.

Within, the master's desk is seen, Deep scarred by raps official, The warping floor, the battered seats, The jack-knife's carved initial.

The charcoal frescoes on its wall; The door's worn sill, betraying The feet that, creeping slow to school, Went storming out to playing.

Long years ago a winter sun Shone over it at setting; Lit up its western window-panes And low eaves' icy fretting.

It touched the tangled golden curls And brown eyes full of grieving Of one who still her steps delayed When all the school were leaving.

For near her stood the little boy Her childish favor singled, His cap pulled low upon a face Where pride and shame were mingled.

Pushing with restless feet the snow To right and left, he lingered, As restlessly her tiny hands The blue-checked apron fingered.

He saw her lift her eyes, he felt The soft hands' light caressing, And heard the trembling of her voice, As if a fault confessing.

"I'm sorry that I spelt the word; I hate to go above you Because," the brown eyes lower fell—"Because, you see, I love you."

Still memory to a gray-haired man That sweet child face is showing, Dear girl! the grasses on her grave Have forty years been growing.

He lives to learn, in life's hard school, How few who pass above him Lament their triumph and his loss Like her—because they love him.

—Cincinnati Commercial Gazette.

WHITTIER'S FIRST POEM.

When William Lloyd Garrison began at the age of twenty to publish the Free Press he had, of course, the usual amount of bad and indifferent poetry to read, says the New York Tribune. All the local poetasters who thought they could make verse, and would have been far more worthily employed in making shoes, deluged him with their halting contributions.

"Going up-stairs to my office I observed a letter lying near the door. I opened it and found it contained an original piece of poetry for the Free Press.

"The ink was very pale, the handwriting very small, and having at that time a horror of original newspaper poetry, my first impulse was to tear it without reading it, since the chances of rejection were as ninety-nine to one. Summoning up my resolution, however, I perused it, and was so gratified with it that I gave it a place in my journal.

"As I was anxious to find out the writer, my post rider one day divulged the secret, saying that he had brought the letter, and that it was written by a Quaker lad named Whittier, who was daily at work with hammer and lap-stone on the shoemaker's bench at East Haverhill.

"I lost no time in driving to see the youthful bard, who came into the room with shrinking diffidence, blushing like a maiden and almost unable to speak. I gave him some words of encouragement, but addressed myself particularly to his parents, urging them to grant him every possible facility for the development of his remarkable genius. This was the beginning of a lifelong friendship, founded on similarity of purpose and principles."

HOUSE-CLEANING HINTS.

Cold tea is excellent for cleaning grained wood.

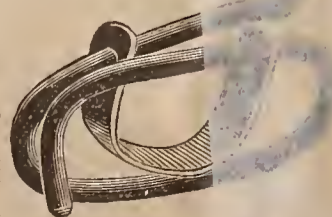
Kerosene applied with a rag when you are about to put your stoves away for the summer will prevent them from rusting.

Dampen a cloth and dip in soda and rub tinware briskly, after which wipe dry.

A great convenience when cleaning house is a stick with a notch in the end that will lift picture-cords off from the hooks, without so much stepping up and down.

Hot alum-water is the best insect destroyer known. Put the alum into hot water and let it boil till it is all dissolved, then apply the solution hot to a room, bedsteads and all places where insects are found.

American Corn Husker, Prem. No. 12



This husker, as mentioned in our advertisement, is cut does not go wrong. Two given as a year's subscription. We offer one for... Address FA...

This is the invention of an expert corn-husker, and is a simple, convenient, effective and superior article, to which we take great pleasure in calling the attention of farmers everywhere. It is the most successful invention for husking corn-husking short, pleasant and easy. It is made of good steel, and possesses all the good and none of the objectionable qualities of the old-style pegs. Special advantage and convenience are gained by its adaptation to the hand. You can keep your hands warm while using it without interfering with the work. The strap shown is easily put on by any one. Send for a new yearly subscriber. Price of one, including one year's subscription, 65 cents. Two, or two for 25 cents. Postage paid by us in each case. Address FA... SIDE, Philadelphia, Pa., or Springfield, Ohio.

VENUS.

The planet Venus continues to puzzle the astronomers. It is a world so closely resembling the earth in size that one might naturally enough expect to find many other resemblances between them.

But there is some peculiarity in Venus' atmosphere which renders the telescopic study of the planet's surface exceedingly difficult. In fact, its atmosphere seems to be so extraordinarily cloudy that only the merest glimpse of the globe beneath can occasionally be caught.

A recent review of the results of twenty years' observation of Venus by Trouvelot, the French astronomer, indicates that the surface of that planet is no less extraordinary than the atmosphere which covers it. Trouvelot thinks that certain white spots seen on Venus are the tops of vast mountains which protrude above the cloud-laden atmosphere. Curiously enough, these mountains are nearly all in the neighborhood of the poles.

Observations by J. J. Landerer on the polarization of light reflected from Venus appear to bear out Trouvelot's conclusions. Landerer believes that the phenomena observed by him indicate that the whole surface of the planet must be covered by a thick layer of clouds, except in the polar regions, where parts of the surface extend above the clouds.—Youth's Companion.

THE VELOCITY OF A CANNON-BALL.

The first firing was done on the new proving grounds of the Bethlehem iron works on the 28th of July. Screens were arranged in connection with electrical instruments for measuring the velocity with which the shots traveled. In the test made, the object was to obtain the velocity of a 250-pound shot fired from an eight-inch gun with a charge of eighty-one pounds of hexagonal prismatic powder. The standard set down for these conditions is 1,700 feet per second, or at the rate of about 1,200 miles per hour. The instruments showed a velocity of 1,702 feet for the first shot fired; this came so close to the standard that further tests were considered unnecessary. This is said to be one of the most satisfactory tests made in the history of modern ordnance.

OUR CLUBBING LIST.

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Smiles.

IT HAS COME TO THIS.

The women wear suspenders,
And are fond of men's cravats;
They also wear their blazers
And their nobby little hats.

PHILOSOPHY.

The signs is bad when folks commence
A- findin' fault with Providence,
And balkin' 'cause the earth don't shake
At ev'ry prancin' step they take.

FROM MY WINDOW.

She sits and sews—what arts refine
The work of fingers feminine—
The mingled hues of light and gray
That make life's patchwork and crochet;

THE CHESTNUT-TREE.

Oh, a wonderful thing is the chestnut-tree,
And it bloometh the whole year round;
When its branches are shaken with fiendish
glee,

Oh, it's branches have grown many thousand
years;
It was planted before the flood;
In vitality it will outlast the spheres,

There's the "Hubby who steps on the pin at
night,"
While he's holding the twins that squall;

THE MORNING CALL.

Drummer for a wholesale house
was trying to sell a hardware
dealer in a country village some
electric call-bells.

"Here, Uncle Hiram," said the dealer,
addressing the owner of a farm home near the
town, "here's what you need to call those lazy
summer boarders of yours when they won't
get up in the morning,"

JUST SO.

"Father," said Johnny Dowd, "I saw Dr.
Grey to-day, and he said he used to go to
school with you."

SAW THEM.

A Gentleman who made a hasty trip through
Europe was never tired, after he came home, of
telling where he had been and what he had
seen.

MARRIAGE AND AFTER.

In a hall in Glasgow a few weeks ago there
was a lecture on "Marriage and After." The
lecturer said that men should kiss their wives
as they did when they were a year or two
married.

A COUNTER-IRRITANT.

"Yes, dear wife," and he closed his eyes, "the
end is near. The world grows dark about me.
There is a mist around me gathering thicker
and thicker, and there, as through a cloud, I
hear the music of angels—sweet and sad."

FULL VALUE.

Irate customer—"See here, Isaacs, you said
this was a fourteen-dollar coat when you sold
it to me for two dollars."

SWEEPING OUT.

Fashionable wife—"Did you notice, dear, at
the party last evening, how grandly our
daughter, Clara, swept into the room?"

PAYING TOO MUCH.

First beggar woman—"What do you pay a
day for the hire of that brat?"

A CLOSE CALL.

"I had a narrow escape yesterday," said Riggins.

TOOK THE WIND OUT OF HIS SAILS.

Waggs (to young man with the preambulator)—"Good-morning, Miss Bloom! Are you taking the son to school, or the heir out for a sun-bath?"

ARE YOU HARD OF HEARING OR DEAF?

Call or send stamp to J. W. C. Blaine for
restoration of hearing.

HELPING ON THE WORK.

School-census taker—"Many children in
this district?"

IMPOSSIBLE.

She (reading)—"Joe, this paper says that out
in Oregon they have just discovered footprints
three feet long, supposed to belong to a lost
race."

WOMAN'S CURIOSITY.

"John," she said, as they left the soda fountain.

THEY WOULD DROP.

"Why do birds in their little nests agree?"
asked the pretty school-ma'am of Freddy Fangle.

LITTLE BITS.

The man who never attempts to sing at any
other time will break out in a picnic wagon.

"At what would you say, Abie, if I geef you a
dime?"

Jack—"I dined with Buskin the other day.
He's a dry wit—called the turkey Douglas."

"The doctors is always gettin' up a lot of new
diseases, and the druggists is inventin' new
nostrils to cure 'em," said Mrs. Partington.

"There's Mrs. Jones has tonsors on her throat,
and Mr. Jones has ulsters in his. Miss Smith
has hermitage of the lungs, an' her mother-in-
law has two buckles on hers."

FREE SAMPLE CARDS, THE FINEST, CHEAPEST AND BEST.

CARDS LATEST STYLES, BEVELLED EDGES, SILK FRINGS, ENVELOPE

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WHEW! What a spinner! Does it

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DAWGETT'S SELF-BASTING

\$5 to \$15 per day, at

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I WANT an honest, earnest

CUT THIS OUT!

and return it to us with 10c. silver or

fishers and manufacturers who want agents. If you will

Western Mailing Agency, St. Louis, Mo.

Agents Wanted on Salary

Would you like to make \$250.00 per month

day; all that is required is a little Vim, Vigor,

Pluck and Push and you can make it. We

want a live, wide-awake representative

either man or woman, in your locality to repre-

sent us and sell by sample, no peddling, our goods

are new and as staple as flour, and you have the

chance to establish a permanent business for

yourself that will pay you handsomely. Address

"Manufacturers." P. O. Box 5308,

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If afflicted with Dr. Thompson's Eye-Water

sore eyes use

LADIES WHO WILL DO WRITING

THE tremendous sale of my preparation,

correspondence that I will guarantee to

WILL MAKE

FREE For 30 Days extend our business

mail to THE CRESCENT CRAYON

\$100 to anyone sending us photo and not receive

### Gleanings.

#### GRANDMA'S GARDEN.

Oh, come, my baby's baby, come,  
And hear the brown bee's busy hum  
Deep in the honeysuckle-vine  
Where, white and gold, the sweet flowers shine  
Within your grandma's garden.

The butterflies go here and there  
Upon the fragrant scented air;  
And the humming-bird, with shining wing,  
Kisses the blossom—pretty thing!  
In grandma's city garden.

So come, my darling Goldilocks,  
And see the pretty crimson phlox,  
And all the stately hollyhocks,  
And the touch-me-nots and four-o'clocks  
That bloom in grandma's garden.

The sunflower grows each day apace,  
And soon we'll see his golden face,  
His large brown eyes, his arms of green,  
That reach the yellow flowers between,  
In grandma's little garden.

The sweet verbenas' roseate bloom,  
So bright 'twould light the deepest gloom,  
The heliotrope whose purple plume  
Offers such rich and rare perfume—  
All grow in grandma's garden.

The morning-glories every morn  
The trellis and the fence adorn;  
While pansies with their cunning faces  
As bright and varied as the Graces,  
Are seen in grandma's garden.

The ivy creeping through the grounds  
With tiny eyes of blue abounds;  
The ivy climbing on the wall  
Will ope his scarlet palms next fall,  
In grandma's city garden.

Then come, my fairy Goldilocks,  
And see the pretty crimson phlox,  
And all the stately hollyhocks  
And the touch-me-nots and four-o'clocks  
That bloom in grandma's garden.

And Pudge, our golden cat, will lie  
Upon the grass beneath the sky,  
And let you stroke him with delight,  
As oft you did on a winter night  
When snow was on the garden.

But, sweeter than the sweetest flowers,  
And fairer than the fairest bowers,  
Would be my little Goldilocks  
Standing beside the hollyhocks  
In grandma's city garden.

With bright blue eyes and golden hair,  
With features perfect, pure and fair,  
No lovelier child in this broad land  
Could pluck a flower with dimpled hand  
From out his grandma's garden.

There are said to be sixteen men to one woman in Buenos Ayres.

The greatest heiress in Rome is the Princess Barberini-Colonna, whose fortune is estimated at \$10,000,000.

Mrs. George Bowron, of Chicago, spent two years' study on her invention of the car-coupler, which has won the highest praise of all practical railroad men.

Mabel Dunlevy, a graduate of the Philadelphia School of Design, has been appointed one of the five women to decorate palace-car interiors at Wilmington.

A lady having written a letter, concluded it as follows: "Give everybody's love to everybody, so that nobody may be aggrieved by anybody being forgotten by somebody."

"Cool as a cucumber" is scientifically correct. Investigation shows that this vegetable has a temperature of one degree below that of the surrounding atmosphere.

Enid Vandell, of Louisville, designed the models from which were made the columns of the Louisville Trust Company's fine building. Her work elicits the highest praise of art critics.

The army of the United States consists of 2,167 commissioned officers and a little over 20,000 private soldiers, exclusive of those performing civilian duties; thus one tenth of the force consists of its officers.

The largest county in the United States is Custer county, in Montana, which contains 36,000 square miles, being larger in extent than Vermont, Massachusetts, Connecticut, Delaware and Rhode Island.

The women managers of the exhibition are arranging for young women guides, who will be thoroughly educated and able to speak both French and German. They will be in Chicago long enough before the opening to become acquainted with the city, and the location of the various exhibits.

For the earache, get five cents' worth of dried arnica flowers and put them into small bags; take a pint of whisky and keep it heated on the stove; dip the bags of arnica flowers into the hot whisky and lay them over the ear. As soon as the steam stops coming from one bag, change it for another hot one.

A quiet rancher in the foot-hills of California has been experimenting with the olive, and now makes the sensational announcement that olives can be grown on the native willows by the ordinary process of grafting. He makes good the assertion by exhibiting willow branches with clusters of fruit growing on them.

Miss Bertha Downing has been for three years the successful teacher of a class in wood-carving at the New Jersey Training School and Home for the Feeble-minded, at Vineland, and has lately added a class in carpentry. The work in wood-carving done by her class of sixteen feeble-minded boys and girls pays for all the expenses of the class.

A chamois-skin waist will enable one to dispense with an outside jacket at a comparatively early date. It will require four large chamois-skins, and should be cut according to a high-necked underwaist pattern, but not coming quite down to the waist line. A few holes must be cut in the leather for ventilation. If this is lined with silk, it will be a delightfully comfortable garment.

Pumice-stone is the best thing in the world to take the stain off one's hands. When ink or any other stain gets on the fingers, its removal is sometimes a matter of many days, but with a bit of pumice it may be rubbed off in a moment, and no one would ever know that it had ever been there. To be sure, the rubbing must be pretty hard, and there is danger, of course, of rubbing off a little more cuticle than one can conveniently spare, but if this point is watched the toilet-table has no more valuable an accessory.

Many people suppose that rosewood takes its name from its color, but this is a mistake. Rosewood is not red, nor yellow, but almost black. Its name comes from the fact that when first cut it exhales a perfume similar to that of a rose, and although the dried rosewood of commerce retains no trace of this early perfume, the name lingers as a relic of the early history of the wood.

Gold is generally accepted as the best foundation for false teeth, but pure aluminum would be far preferable if one could only get a dentist to use it. It is the lightest of all metals, and will not oxidize. Therefore, the mouth would never feel hot or overloaded. I believe no dentist has ever yet used this metal for the purpose, but in a few year's time there will be little else used—either pure or alloyed with gold. Another advantage it possesses is that it ranks for cost with the baser metals.

### Recent Publications.

THE ECLECTIC FAMILY PHYSICIAN. By John M. Scudder, M. D., editor of the *Eclectic Medical Journal* and dean of the Eclectic Medical Institute, Cincinnati, O. Two volumes in one, over 900 pp. Cloth, \$3.00; sheep, \$4.00; half morocco, \$5.00. Published by John K. Scudder, Cincinnati, O.

We are in receipt of a copy of this valuable work. It represents the practice of eclecticism in medicine as contrasted with allopathy and homoeopathy. It is written in a clear, concise style by a well-known practitioner of forty years. It is a safe and handy guide for household reference. It has been lately revised and a steel-plate portrait of the author added. If you have no work of the kind, procure one of these books at once.

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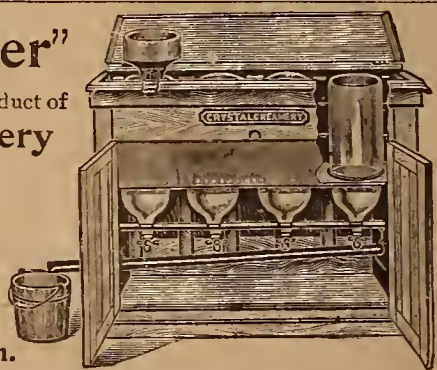
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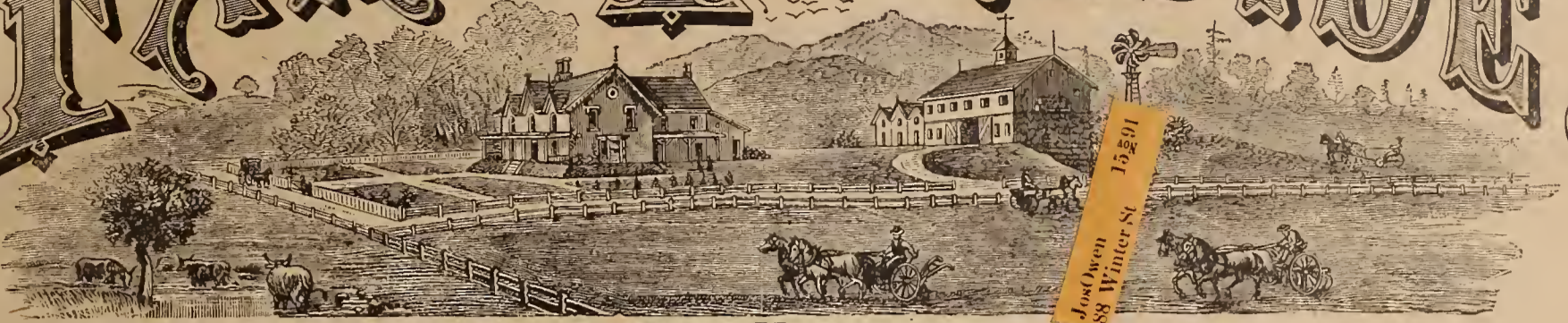
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## Current Comment.

ON account of its many great advantages to commerce, especially to that of the United States, the completion of the Nicaragua canal will be one of the most important achievements of modern civil engineering. Engineers agree that it is the most feasible route for an inter-oceanic ship-canal. The work has been progressing favorably. Over \$6,000,000 have been expended. The time required for the completion of the work is five years. The total cost is estimated to be within \$100,000,000. The climate of Nicaragua is healthful. The health of northern men employed there for the past three years has been exceptionally good. There are no very great difficulties of construction in the way. The work is one of the greatest magnitude, and its importance can hardly be overestimated.

A committee appointed by the national Nicaragua canal convention, held at St. Louis last June, has published an address setting forth the feasibility of the canal and its commercial and other advantages to the United States, and urging its construction, ownership and control by the American people. The main points of this interesting address are herewith given:

The distance from the Atlantic to the Pacific is 169½ miles; only 26¼ miles need to be excavated. Lake Nicaragua, 140 miles long and 60 miles wide, can easily harbor the navies and the commerce of the world. Vessels from the Atlantic will sail up the canal on the ocean level 12¾ miles; at this point three locks will raise them to the level of the lake. They will then sail up the San Juan river and through Lake Nicaragua to a point 3½ miles from the Pacific, where locks will lower them to the level of the ocean.

From New York to San Francisco by Cape Horn the distance is 15,660 miles; by Nicaragua it is 4,907 miles. From New York to Hong Kong by Cape Good Hope the distance is 13,750 miles; by Nicaragua, 10,685 miles. From Liverpool to San Francisco by Cape Horn the distance is 15,62 miles; by Nicaragua, 7,627 miles.

In 1891 the wheat crop of the Pacific coast was over 1,800,000 tons, and eighty per cent of it was exported by sailing vessels, most of them going around Cape Horn. By shortening the distance to European markets, the Nicaragua canal will not only effect a great saving of freight to the producers, but the annual revenue of the canal on wheat at \$2 per ton will be nearly \$3,000,000. It is estimated that there are 500,000,000 thousand feet of merchantable lumber in Washington and Oregon that will be increased in value over \$2 per thousand feet by the cheap water transportation

of the Nicaragua canal. At this low additional value of their lumber, the wealth of these two states will be increased \$1,000,000,000.

The fruit industry of California will be quadrupled in two years after the opening of the canal. The time by fast refrigerator steamer from California to New Orleans will be only eight days, to New York ten days and to Liverpool fourteen days.

As the mountains of the Pacific coast region are rich in valuable minerals, and the valleys and plateaus afford a cereal belt with a soil more durable and seasons more favorable for seeding and harvesting than any other part of the world, it is the opinion of the committee that the completion of the Nicaragua canal will develop the productions of that country to gigantic proportions and double the population in a few years.

The canal will help relieve the cotton depression in the gulf states by opening up and giving direct access to new markets in China and Japan for American cotton, where the people are beginning to manufacture cotton cloth by machinery. Last year Japan imported over 7,000,000 pounds of cotton, most of which went by vessel from New Orleans to New York, thence by rail across the continent to Vancouver, and by steamship across the Pacific.

The canal will enable Alabama and West Virginia coal to compete with that supplied by the English to the trade of South America and the Pacific coast they now monopolize. In addition to this, the canal company will use enormous amounts of American coal. Last year 1,500,000 tons of coal were sold at the entrance of the Suez canal.

In competition with England for the Pacific ocean trade, the Nicaragua canal will give American commerce an advantage of nearly three thousand miles. The committee thinks great general benefits will accrue to the entire Mississippi valley, the lake ports and the Atlantic coast, from the construction and operation of the canal.

Ship building and ship interests in New York will receive a new impetus. A large foreign trade will spring up, and the insurance on the high seas will be reduced.

Twenty-seven hundred new homes were built by the working people of the state against twenty-one hundred the year previous. Deposits in the savings banks of the state have also greatly increased. These deposits increased from \$22,043,892 to \$25,606,373, a gain of over sixteen per cent. Twenty-seven hundred new homes were built by the working people of the state against twenty-one hundred the year previous.

What \$460, the entire yearly

of the laborers of the Old World coming to our shores? Why do the gates of Castle Garden swing open only to us? An investigation into the labor in connection with the census of 1880, Mr. Edward C. Tamm, the economist, reports that in 1880 the yearly wages of skilled labor in this country rose from an average of \$20. If the cost of living increased in the same ratio, the wage-earner benefited by the advance in wages. On the contrary the same authorities show that instead of a rise in the necessities of life there was a decrease, ranging from twenty-six per cent. Assuming the cost of living to be thirty per cent, the power of a day's labor in 1880 was increased as great as it was in 1891.

wages of skilled labor, would buy of the necessities in 1860, cost only \$322 in 1880, when the yearly wages had advanced to \$720. From 1880 to the present time the general trend of wages and the cost of necessities has been in the same direction—an increase in the purchasing power of the wages for a day's labor. But what are skilled workmen doing with the advancing surplus of their earnings over their decreasing expenditures for necessities? First, they are spending more than ever before for articles of comfort, and even luxury; they are living on a higher plane. Articles once considered luxuries have become necessities. Some, indeed, spend all their earnings on better living. Second, workmen are saving more money than they did a quarter of a century ago. The increasing accumulations in the savings banks of the country attest this. The annual report of the bureau of statistics of New Jersey shows that from 1890 to 1891 the number of shareholders in the building associations of that state have increased almost ten per cent. During the same year the net assets of the associations increased from \$22,043,892 to \$25,606,373, a gain of over sixteen per cent. Twenty-seven hundred new homes were built by the working people of the state against twenty-one hundred the year previous. Deposits in the savings banks of the state have also greatly increased. These deposits increased from \$22,043,892 to \$25,606,373 in one year. Including the savings represented in the new homes with the deposits in building associations and savings banks, the workmen of New Jersey added in one year to their savings of labor about \$5,000,000. In the savings banks of the state of New York there are deposited \$600,000,000, nine tenths of which belong to wage-earners. In the last six months these deposits increased over \$10,000,000, and in the last three years they have increased \$85,000,000. In a single year \$18,789,720 were added to the deposits in the building and loan associations of the state. The record of the savings banks of the state of Massachusetts is equally good. The reports of the senate finance committee, and of the commissioners of labor of the states of New York and New Jersey, all show that the cost of necessities is decreasing, and the cost of labor is increasing. The result is a condition of the labor market that is a saving of labor at the present time.

IRRIGATION in its relation to agriculture is the subject of a report recently issued by the census bureau. It is a summary of an investigation into the irrigation of the arid and subhumid regions.

Of the 124,808 farms in the arid region in June, 1890, 13 per cent, or 16,224, contained land on which water was raised in 1889 by the artificial method. The entire area of land irrigated was 3,564,416 acres, 20.72 per cent of the total area of land in the arid region. The area of the whole irrigated farm was 52,584 acres, and about one-fifth of the total land area of the arid region. To this must be added 1,500,000 acres irrigated, in Dakota, South Dakota, Texas, designated as the subhumid region, where irrigation is being its way, as a means of increasing its productivity.

The average value of the land irrigated in 1889, with the improvement, was found to be \$33.28 per acre. The value of the products for the year 1889 was \$1.00 per acre. By correspondence it was found that the irrigated land in the arid and subhumid regions, it has been ascertained that the average first cost of irrigation is \$8.15 per acre, and the average value placed upon the water rights, where separable from the land, is \$26 per acre, or over three times their original cost. The average annual expenditure for water, as distinguished from the purchase of water rights, is \$1.07 per acre, and the average cost of the original preparation of the ground for cultivation, including the purchase of the land at the government rate of \$1.25 per acre, is \$12.12 per acre. By applying, with necessary modifications, to the enumerators' returns the averages obtained for each separate state and territory, it has been found that in round numbers the total investment in productive irrigation systems utilized in 1889, in whole or in part, was, up to June 1, 1890, \$29,611,000. Their value at that date was \$94,412,000, showing an apparent profit of \$64,801,000, or 218.84 per cent. In the same manner the aggregate first cost of the irrigated areas, with their water rights, not including the farms of the subhumid states, has been ascertained to be \$77,490,000, and the value of the same on June 1, 1890, \$296,850,000, showing an increase in the value of land and water rights of \$219,360,000, or 283.08 per cent. In other words, the land irrigated in 1889 was worth nearly four times what it cost, no allowance evidently being made for failures. The total expenditure for water, including the maintenance and repairs of ditches, in the arid states in 1889 was \$3,794,000, and the value of products, \$53,057,000.

The number of artesian wells used in irrigation in the arid and subhumid regions in June, 1890, was 3,930, constructed at an average cost per well of \$245.58, and giving an average discharge of 54.43 gallons per minute. The area of land thus irrigated, averaging 13.21 acres per well, amounted to 51,896 acres, or 1.43 per cent of the total area of irrigated land in the arid and subhumid regions.

By comparing the cost of converting the desert into a garden by means of irrigation with the cost of carving a pioneer farm out of the timber lands of the older states, some idea may be formed of the future rapid development of the arid region. But it must be borne in mind that this development is limited by the available water supply. The pioneers of irrigation in possession of the water supply have a bonanza.

FROM the Excelsior fruit farm of Mr. W. D. Hinds, Townsend, Mass., we have received some samples of the Crosby peach from three-year-old trees. The fruit was small-seeded freestones of medium size, beautiful color, fine flavor and excellent quality. The special claim for the Crosby is that it is a frost-proof peach, its fruit buds being so hardy as to withstand the frosts of winter and spring that often kill all the other good varieties. Combining, as it does, hardness with other good qualities, the Crosby is a valuable addition to the list of meritorious fruits.

THE Ohio agricultural experiment station has been removed from Columbus to Wooster, Ohio. The station staff is as follows: Director, Charles E. Thorne; horticulturist and vice-director, Wm. J. Green; agriculturist, J. Fremont Hickman; entomologist, Francis M. Webster; treasurer, Bertha E. Wildman; assistant horticulturist, Edwin C. Green; chemist, F. J. Falkenbach.

WE hereby acknowledge the receipt from Mr. Dickson, Tacoma, Washington, of the finest specimens of plums that we ever saw. They were grown by Mr. Bicknell on Brown's Point, directly across Commencement bay from Tacoma. They are, evidently, of a celebrated variety used for prunes. The yield was five hundred pounds per tree.

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## Our Farm.

### A RAMBLING TALK ON THE MANURE QUESTION.

BY T. GREINER.

THESE is no use in asking the old question, "Does farming pay?" over and over again, so long as the average farmer continues to give as little thought as he does now to the manure question. The answer will always be the same; namely, farming (that is, average farming) does not pay. The crop reports, the low average of the yield of all our ordinary farm crops, prove it beyond the shadow of a doubt. Crops of from nine to twelve bushels of wheat, fifteen to twenty bushels of oats, or sixty to ninety bushels of potatoes per acre, do not pay. Anybody can figure that out for himself, and these are figures that do not lie. No matter what our specialists (and the successful farmers of our period all seem to be specialists) say, and what they may tell us of the great profits that they find in farming, it must be considered as settled that at present the average general farming is carried on without profit. The labor expended in the production of these average crops is about as poorly paid as any labor in America.

Now, what is the trouble? Are the prices of cereals and other farm products too low? I do not think so. The consumer, at least, will find them plenty high enough, and in many instances even much higher than the average buyer can afford to pay. The general tendency of prices for all products is a downward one. Improved methods of production, which cheapen its cost, are all the while reducing prices—and this is a good thing. It puts the ordinary conveniences and comforts of life within reach of the masses. It marks the advance of civilization. It puts a check to wholesale deprivation and suffering. It makes life worth living to the millions who formerly were eking out a miserable existence under hardships which most of us would not be able to endure at this time.

To look for a material and permanent advance in prices of general farm products would be a most foolish thing. There is no prospect of such an increase. Relief, if it is to come in a change of prices, can be expected only by a cheapening of the cost of production and cost of living. The manufacturer of farm products is yet at a disadvantage compared with other manufacturers. At least, I am quite certain that many of the things the farmer has to buy cost too much compared with the things he has to sell. The proper balance must be established by lowering some prices rather than by raising those of farm products.

Now, after this long and labored introduc-  
tion, I am coming to the point. To make

general farming pay, we will find it necessary to reduce the cost of production or the cost of living, or both. We might gain a point or two by making our manufacturers face increased or free competition, perhaps, by enacting extreme laws such as wronged people would be justified in resorting to against such voracious monsters as, for instance, the coal combine. But, although I am far from advising my friends to endure oppression of this kind without kicking hard and vigorous, I believe that relief must come chiefly by means of raising the standard of average farming; in other words, by increasing the productive capacity of our soils, and by doubling, if possible, the average yields of all our ordinary farm crops.

The question finally resolves itself into that of the use of plant-foods. Without greater liberality (or rather, less stinginess) and without more knowledge and the exercise of good judgment in this matter of using manures, no general improvement in the condition of agriculture should be looked for. Here is the key-note of the whole question.

One of the things needful, it is true, is concentration of effort. It is not always feasible to increase to any considerable extent the aggregate quantity of plant-foods applied. In that case we can at least save, in the cost of production of crops, a large item in the labor account by putting a certain amount of plant-food upon one acre instead of spreading it over four or five acres, and by thus raising the same number of bushels of cereals, or pounds of hay, etc., on one acre instead of on two or three times that area. Gardeners like myself, whose aim it is to raise maximum crops on a given area, have learned the value and effectiveness of manures, and appreciate the fact that the more manure they use, not over the largest possible area, but over any given piece of land, the more profitable they will find their work.

Most farmers work too much land for their own good. If you have one hundred acres of average farm lands, raising average crops, the best thing you can do is to sell one half of it, or let it lie idle and put all your labor and manure upon the remaining fifty. Don't continue to raise average crops, but try to raise the average of your yields.

On the other hand, we must try to raise the amount of available plant-foods. We can increase the quantity of our manures in some way if we try. There is not a farmer who does not waste plant-foods, or does not use them injudiciously (which means the same thing), or who does not ignore plenty of means within his reach to increase his manure supply. A few boards placed as a roof over the heaps in the barn-yard may save much that the rains now leach out and carry away into the streams. Wood ashes, both leached and unleached, are being left outdoors unused or sold off the farm at a mere fraction of their value. Muck beds full of nitrogen remain unutilized. The rich manure of the pig-sty, often even of poultry-roosts and almost invariably of closets, finds no appreciation or use. The owners of the city livery-stables often offer a premium for the removal of manure from their premises, while farmers in the near vicinity need it and yet are too indifferent to haul it home. Many more such instances might be cited. If farmers could be aroused to the great importance of this matter, and induced to make use of all their resources, even without going to the actual expense of buying fertilizers at ordinary market rates, there would soon be an improvement in the profitableness of farming.

This saving and collecting of manurial substances now largely going to waste would be only a first step. The sure, satisfactory outcome would soon lead to further efforts in the direction of procuring and applying plant-foods, even if this should involve actual expense. It would also lead to increased thought and study of this phase of the farming business on the part of the average farmer. It would put him in a way to know a good thing when he sees it, and to strike a good bargain when it is offered to him. As a business farmer I never hesitate to buy good plant-foods when I can get them at a fraction of their real value. I have seen fertilizers offered and sold at public vendues at one fifth of their cost and value. It is hard for me to understand how any farmer with plenty of needy soil and raising the poor average crops can let plant-foods go at such a figure without making a bid. It simply shows that the average farmer has not yet learned to know the full value of plant-foods. Having applied manures only in hom-

opathic doses, he has seen only insignificant results from their use, and has not had a chance to see what can be made out of these raw materials.

This is the first lesson that the general farmer must learn. Without greater appreciation of the manures available in his particular case, he will remain where he is—in an unprofitable business. When this first lesson is once thoroughly understood, further progress will be easy, and prosperity within reach.

In another "rambling talk" I will try to go a little deeper into the details of the manure question.

### HOG VERSUS SHEEP RAISING.

The principles of successful hog raising are much more generally understood and practiced than are the means and methods of raising sheep. Every farmer knows the value of crowding the pigs from birth to maturity. Every farmer knows that early maturity in a hog means quick money and less chance of loss by cholera and other casualties. Every farmer appreciates the characteristics of breeds, and chooses such as suit his own circumstances. On some farm hogs are expected to live on corn during their entire life, with more or less grazing, and some of that in the gleanings of stubble-fields which offer more in the way of exercise than food supplies. On other farms hogs are afforded clover pastures, and are not fed corn in the summertime, but are expected to live, grow and thrive on grass. Some hog raisers market the hog crop at eight to ten months old, while others practice the holding of hogs until they are fully grown—eighteen to twenty months old—before feeding to fatten.

Each of these systems of profitable raising of hogs depends much upon characteristics of breeds. Feeding qualities, early maturity, hardy rustling qualities, etc., are each known to belong to certain breeds and types of hogs with reliable uniformity.

But with sheep, such information is unsuspected—at least, not practiced—by the average farmer. They generally aim to push the pigs along with all they can eat and drink until harvest, and put them in stubble-fields, to be followed by green corn, and as corn hardens, the feeding lot is resorted to for the finish. (This is about the hog-raising formula in Illinois.) Now, how about the lambs? What are the practices of sheep raisers? While the problem of profitable hog raising has been learned, the problems of sheep husbandry have not been considered, outside of the wool, as they should.

Hog raising and agriculture in the corn states are on parallel lines; sheep raising is not now, but will be at no very distant day. The tendencies are in that direction. All along the line of good farming sheep have a place that no other domestic animal can occupy. This is the problem in the sheep industry of this country and the world that is being studied and must be solved before the highest results shall be obtained in agriculture or sheep raising. This is the reason some men are successful here and there all over the country. The lack of this attention to special selections and practices of breeds and managements is the cause of disappointment.

R. M. BELL.

### CHEDDAR CHEESE MAKING IN SOMERSET, ENGLAND.

As the Cheshire cheese is a noted product of the county of that name, so the county of Somerset has long been famous for Cheddar cheese. In the same way, Leicestershire is equally well known as being the home of the Stilton cheese.

Before describing somewhat in detail the method of Cheddar cheese making proper, I will briefly state a few points regarding what are here deemed the

### ESSENTIALS OF GOOD CHEESE MAKING.

It is almost needless to say that with Cheddar, as well as with other varieties of cheese, the very first essential is pure, sweet milk of good quality. Although the quality of this cheese, where the best methods are in vogue, is quite uniform throughout the year, the finest samples are made during the months of August and September.

Another point proven by experience is that the milk produced from rather heavy clay soils must be worked at a higher temperature in its manufacture into cheese than that which comes from a high limestone or sandstone section. There is also the same difference to be observed if the cows drink soft instead of hard water.

### THE DAIRY-HOUSES

I have seen for the manufacture of Cheddar cheese are usually situated on the north

side of the farm-house, this being the coolest location. Where from fifty to sixty cows are kept, the dairy-room is about 25 by 15 feet in area, and 10 feet high. The walls are invariably of brick or stone, and the floor of concrete. The boiler-house is adjacent to the dairy-room, built in the same substantial manner, with suitable provisions for ventilation. Adjoining the boiler-house is another small room, in which there is a cistern or vat large enough to contain the day's supply of whey, at a depth not exceeding twelve inches. Some cream is later from this whey, from which more or less butter is made. The whey-cistern is connected by pipes with a whey-vault which will hold about one hundred hog-heads. All washings from the dairy buildings are carried off by open, shallow gutters and glazed pipes through the walls into well-trapped drains. In this way all bad odors and gases which might injure the milk are avoided.

Of course, the buildings are supplied with an abundance of good, pure water. The cheese or curing rooms, of which I will speak later, are placed over the dairy-room and boiler-house. The cheese-vat in common use, or, as it is more generally called, the cheese-tub, is round, and made of block tin or copper. The former, when of good quality, is regarded as the better material, and the round vat is regarded as much better than oblong or rectangular.

So much for a brief description of the equipment.

### THE METHOD OF MANUFACTURE

Is substantially as follows: As soon after milking as possible, the milk is taken to the outside of the dairy-room and poured into the receiver. This is a vessel about eighteen inches square, conveniently placed, and connected with the cheese-vat by a short, open shoot which passes through the wall. The milk is thoroughly strained in the passage, and comes into the vat in good order. By this method of receiving the milk, the milkers or carriers are not obliged to come into the dairy-room, and perfect cleanliness and freedom from odors are better secured.

The evening's milk usually remains in the cheese-vat until morning, receiving an occasional stirring. When the weather is hot and moist, especially in the case of thunder-storms, some of the milk is placed in other vessels.

In the morning the night's milk is examined, and if there is developed the slightest acidity, only the morning's milk is heated. To this is added the cream of the night's milk. The heating is done by putting the milk into a large tin vessel called a warmer, which is surrounded by hot water. The temperature is raised to, about 95°; this is found sufficient to raise the united milk to a temperature of about 84°. Occasionally a little sour whey is added, but this is not generally recommended by the best makers. Sufficient extract of rennet is now added to coagulate the milk in an hour, and if any coloring matter is used it is stirred in at the same time.

When the curd will break clean over a tubular thermometer, the operation of breaking is begun. The curd is first cut by means of a long, thin knife into squares of about two inches. It is then allowed to harden for a short time, when it is carefully and regularly broken until the grains are about the size of a pea. This takes about an hour. After being thus broken, it is allowed to settle for some ten minutes, when enough whey is drawn off so that when heated to a temperature of 130° it will raise the whole to 90°. While the heated whey is being added the curd is thoroughly stirred. It is again allowed to stand for ten minutes, and a second quantity of whey is drawn off and heated as before. This should bring the temperature to 100°. This stirring is continued as before, and if properly done, the curd will have a shotty appearance, and the whey will show above it, clear and of a greenish cast of color. The curd is left for about half an hour, the temperature being held at as near 100° as possible, when the whey is all drawn off and the curd is piled up in the center of the vat. The crumbs are washed down and placed on the top, when the whole is covered with cloths, to prevent it cooling too rapidly. It is left in this way until it becomes so solid that large pieces can be cut and turned over without breaking. This cutting, turning, covering, etc., continues for some time, or until the curd presents a mellow but firm and dry appearance. It is considered desirable that a perceptible amount of acidity be developed, which is determined by frequent examination.

The curd is now ground, and if in the proper condition, should present a dry but

greasy feel. It is considered to be about right when several fragments being pressed together in the hand will readily separate. Fine, clean, dry salt is used in about the proportion of one pound to fifty pounds of curd. Some factories use two and one fourth pounds to one hundred and twelve pounds of curd. Great pains are taken to thoroughly mix the salt through the curd. When this is done the curd is placed into the mold, which is lined with a thin cloth of sufficient size to cover the cheese. A pressure of about two thousand pounds is given. In the morning the cloth is changed, the cheese inverted and put in press again for twenty-four hours. A little fat is usually rubbed over the surface to prevent cracking.

In most cases, a square piece of muslin is placed on the upper and under sides of the cheese, and the muslin which surrounds the sides is wide enough to slightly overlap, and is neatly stitched to these squares. After being left in press for two days longer, the cheese is then stoutly bandaged and removed to the warm cheese-room. It is turned daily for six weeks, is then placed in a cooler room and turned every other day for about six weeks longer, after which it is turned once in four or five days. While there are some modifications of the practice just outlined, I find no essential differences.

In cheese making, as elsewhere, one must be governed by circumstances and surrounding conditions. In some cases the milk is heated in the cheese-vat, but in nearly all well-managed cheese factories the milk or whey is warmed in a heater, into which it is raised by a small pump run by an engine. The heater is placed on a level with the top of the vat, and by means of a faucet the contents can be quickly passed from one to the other. The shafting which works the pump is also used for running the curd-mill, and is available for other purposes.

Most of the Cheddar cheese I have seen in the market appears to be of excellent quality, and I judge that most of the cheese dairies in this part of England are a source of handsome profit.

WM. R. LAZENBY.

**STERILIZED MILK.**

Modern science has shown the cause of many human ailments to be invisible organisms, which, especially in hot weather, infect articles of food. The destruction of these organisms, leaving the articles free from their deleterious presence, is accomplished by "sterilizing." Milk is particularly liable to infection, even when carefully handled. The process of sterilizing is thus described:

"Sterilized milk" corresponds to canned corn or peaches. It is perfectly sealed while hot enough to kill the bacteria which cause milk to sour. In theory, the thing is very simple; all that is needed is to put the milk in bottles, raise it to a high temperature, and then seal tightly while hot. In practice, however, this does not always work. In spite of the greatest care, such milk frequently insists upon spoiling just when it ought not to. There are three or four people in the country who are preparing this milk with great success. They all refuse to describe their methods of sterilizing, on the ground that it has cost them too much time and money to perfect their apparatus. They also say that it is useless to tell how they do it, because ninety per cent of their success depends upon the milk itself. What most farmers consider perfectly clean is wholly unfit to sterilize. "The slight sediment that forms at the bottom of most milk when permitted to stand in a deep glass or bottle consists mainly of small bits of manure. This must be filtered out of the milk, or it will not keep. As nearly as can be learned, the methods employed on the sterilized milk farm are about as follows: The cows are Jersey grades. They are fed on corn-meal, bran, hay and stalks, and soiling crops in summer. No ensilage or seed or cotton-seed meals are fed. The cows are washed off every day before milking," says a writer in the *Kansas Farmer*. "and no manure is permitted to accumulate in the stable. As soon as it is taken from the cow, the milk is carried to the dairy-room and thoroughly cooled and aerated. It is then filtered through a blotting-paper or heavy felting. After it is poured into quart or pint bottles somewhat like beer bottles—round at the bottom, so they cannot be stood on end. These bottles are placed in deep tin cans containing water which rises to the top of the bottle. Steam is let in, and the water heated to about 150°. It is

cooled down to 60°, and at once heated again to 140° or thereabouts, at which heat the bottles are closed with rubber corks and sealed closely with wax. Such milk sells at twenty-five cents a quart. In Boston it is on sale at the large drug stores, and physicians prescribe it as they do other well-known food preparations. It is used mainly for infants or invalids, but would be largely used for general consumption if it could be had in sufficient quantity. The writer has kept sample bottles of it for three weeks. There is a big chance for some enterprising and careful dairyman to develop a trade in sterilized milk. Many city people are afraid of tuberculosis and other bovine diseases, and will be ready to pay for a guaranteed uniform product. A man starting in the business will have little to guide him. He will have to invent his own apparatus and do his own experimenting. Our experiment stations cannot possibly do a better thing for farmers than to show them how to bottle hot milk, and how such milk must be handled to keep it pure. Dr. Babcock might well invent a cheap "sterilizing bath" to match his noted milk-tester. The ordinary milk, as it comes to this city, cannot be successfully sterilized. It is too dirty."

**CORN FODDER.**

The husking of corn from the shock ought never to be postponed until winter, for the work will always be disagreeable and the fodder more or less damaged if it is allowed to stand until winter sets in, and often the loss is more than it would cost to hire the work done. I pay from six to eight cents a shock of one hundred and twenty hills for husking and binding the fodder in bundles of convenient size to handle with a fork; and if we are not ready to draw the fodder to the barn at once, the huskers set up the bundles two shocks in one, so that if a rain falls they will not be soaked. We tie the bundles with binder twine, and it is best to cut the strings of such a length that the bundles cannot be made too large, as if the strings are long the bundles will often be made so large as to be difficult to handle.

Fodder cannot be left in the field after the weather is bad without deterioration, and so far as possible, it should be put in the barn while in good condition, when first husked; but if there is not room for all, the remainder should be stacked. There is no other provender that can be stacked as easily, so as to keep in good condition, and the stacks can be put up convenient to the barn, on dry, solid land, where it will be easy to get at them to move them in when there is room for them; for I would not advise feeding from the stack and running the risk of getting it wet and frozen, but would, on a pleasant day, move a stack into the barn. It can either be put up in small stacks, three or four loads to a stack, or a long stack or rick can be made, so that it can be taken down in sections.

The stack bottom should be made narrow, and in building the stack the middle is kept full and high, so that the butts droop and shed the water. Those who have tried it think it pays to chaff the fodder for feeding, as in this way even the coarse stalks are nearly all eaten. I have never done this, but often cut it in lengths of five or six inches, and then use the waste for bedding, as, managed in this way, it gives little trouble in the manure, and is an excellent absorbent. When fed long in a suitable manger there is but little waste, as the cattle pick all of the trimbles from it, as well as the husks and blades, and this waste is an advantage in the barn-yard. If as good judgment is exercised in putting fodder

in the barn as we use in storing hay, there is no danger of its spoiling; but farmers are often careless, and bring it in too early in a rain, when it is damp, and then it is poor feed.

A convenient way to handle fodder on a farm where to be sown in wheat is to put up stacks of twenty-four hills each around a horse, instead of making a horse-drawn rack. Then as soon as the stacks are ready, tip the shock over on two trestles, untying the top, husk it and set it in a rack. Then ready to draw the fodder to the horse on the ground, with forks, shove bodily, and a man on the loads it.

Stacks sixteen feet long, and wide enough to hold twenty-four hills, can be made of two by ten inches; and when rain comes, a load or two drawn into the rack will furnish comfortable work for a horse. At times it is so dry and windy that the rack breaks and wastes badly, and it is better to draw it in in the morning, while the

dew is on, it can be husked in the barn, where all the waste can be saved. If the fodder is very dry, the shocks may be carefully taken down at night and spread out so as to get as much of the dew as possible, and then it must be taken to the barn early in the morning. We had a dry period of this kind the last half of October of last year.—Wm. E. Brown, in *Country Gentleman*.

**THE HIRED MAN.**

What is to be done with the hired man? We must have him; that is settled. But how to get along with him, how to love him and respect him as a fellow-man is a question that troubles many a farmer and his good wife, who believe that all men are equal and entitled to equal rights and privileges.

How times have changed! What hired men we used to have, and what hired girls, too—the farmers' sons and daughters, sturdy, honest, reliable. Families were larger then than now, and usually only one son and daughter were needed at home. The rest went out to work in the neighborhood, in the next town, county or wherever they were wanted. The farmers and their hired men, the latter often the sons of neighbors, were equals in all respects.

It happened often that the hired man married the daughter of his employer and settled down on the farm, or near by. At the table, in the family circle, in all "company," the hired man and the hired girl had a place as members of the family; and the company, in those days, helped to clear the table and wash the dishes, that the farmer's wife and the hired girl might have an equal opportunity with the guests in the events of the evening.

In some parts of the country the help still sit at the table with the family, but in families where there are children and grown-up daughters, the custom is falling into disuse. And why should it not? The farmer's help is now chiefly foreign. Why should the foreign stranger, with scant knowledge of the language, with slight acquaintance with knife and fork, and who did not want to wash before he ate—why should he place this man beside his wife, sons and daughters?

A farmer hired a big Swede with a hand as large as a stove-griddle and about the same color. The farmer's wife suggested that the Swede eat in the kitchen, but the farmer said that all his help had always sat at table with him, and he saw no reason for changing; the Swede might not be as bad as he looked. On the table was a piece of beef. The Swede was hardly in his chair at the table before he reached over, seized the beef with his hand, tore off a third of it, and snatching up a handful of potatoes, began to eat, holding the meat in one hand and the potatoes in the other. When the farmer remonstrated, the Swede gathered up the contents of a bread-plate, left the table and went to the barn, where, sitting in the door, he ate what he carried with him and soon came back for more, but was met at the door and supplied. This man was a good worker and stayed through haying, but he would have nothing to do with knife and fork or spoon.

There might be worse things about a man than contempt for knife and fork, but these uncivilized acts are all repulsive to the farmers of the country. What is the farmer's duty toward such a man as this? According to some, he should "labor to reform," admit to family group and "work over him." But the farmers generally will not take this view.

But there are other men who are not so rough; they are men "like ourselves." What is to be done with them? Shall they be banished to the kitchen table, and to the kitchen for evening entertainment? This is the tendency, and it is causing much discussion. But the farmer, wherever he is and whatever his ideas may be, is justified in denying the stranger admission to his family circle unless he has the necessary credentials. The "seminary" man, the stranger, has already been introduced into families with results.

**THE OLD CALIFORNIA SHEPHERD.**

On the plains it is not surprising to find an old man with a long white beard, a number of horns, and a pair of eyes, as usual in the case with such a long life. One might imagine that he was a member of the old school, but watch him closely and you will see his method and foresight in the management of an old herd. If it

be necessary to use any control over the movements of the sheep, you will see him walk to this side or that, and by a few words wheel the band to right or left. Like an officer with a platoon of soldiers. Such a man is up betimes in the morning, has his breakfast cooked and eaten, his henn tied up, has opened the corral gate and is now waiting the pleasure of the sheep to move out. There is no hurrying or driving; each walks out at leisure. Should any light-headed one wish to crowd, there is ample time for all to get quiet again outside. Then old chums or friends look each other up, and finally all start off together for the day's feed, our old herder accompanying at some distance off, apparently as a mere matter of form.

If everything goes to suit him, and if he be an old sailor or Mexican, he may now pull out an unfinished riding-whip, or a pair of bridle-reins, and fall to plaiting them; or, probably he sits down to the congenial pastime of sewing on buttons or mending well-worn coat, but always with his "weather eye" on his flock. Thus he goes through the forenoon.

At midday he takes his lunch. If he be fortunate enough to be at some creek or water, well and good; if not, he has known beforehand, and brought his canteen along.

Later in the day he may be seen standing listlessly, or dreamily leaning on his staff, apparently wishing for sundown. But this suggestion does the old man injustice; he is now busily engaged on his flock. Another day has passed; they are soon to go into the corral, and he is taking count of them. Probably he is counting the black sheep, or the bell sheep, or some other noted ones he remembers. This is his way of "calling the roll." If it be late in the season, and the rams are through serving the ewes, he includes them in his count, for at this time they are prone to go in bunches and be lagging behind the flock. Any little coterie of ewes and their lambs who are in the habit of parting off or straying away, will be looked for; and although all the band may apparently resemble each other, like so many Chinese, still the herder will have marked the leaders of all such little coterie by some peculiarity, and will not be satisfied that his flock is intact until he has seen her. Should he not see her at that time, and he has used the same corral for a week, he knows precisely where to look for her in the morning, for she and each sheep in the flock have a favorite place in the corral where to sleep, and unless disturbed, will always be found within a few feet of the same spot every morning.

No matter how smooth or level a plain the sheep may be herded on, they will soon have it divided off into regular sections or ranges, and you may almost see it in their eyes at which place they are going to stop. They appear to take much enjoyment in this way. In the morning when they come out of the corral gate, they will all start off for one of these sections; by noon they will have worked their way to a second one, where they may rest, after which they will turn towards camp, taking in some other favorite spots. And so on, from day to day.

R. M. BELL.



Mr. L. B. Hamlen,

Of Augusta, Me., says: "I do not remember when I began to take Hood's Sarsaparilla; it was several years ago, and I find it does me a great deal of good in my declining years."

**I Am 91 Years**

2 months and 25 days old, and my health is perfectly good. I have no aches or pains.

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regulates my bowels, stimulates my appetite, and helps me to sleep well. I doubt if a preparation ever was made so well suited to the wants of old people." L. B. HAMLIN, Elm St., Augusta, Me.

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## Our Farm.

### NOTES FROM MY HOME GARDEN.

BY JOSEPH.

**M**USHROOM GROWING.—A subscriber asks for information on this important subject. Really, I ought not say much about it, for I confess that mushrooms are one of the vegetables which I have not yet learned to manage with any kind of success. The fact is, I have not the necessary conveniences for it, and right in this particular the great many rural people have no advantage over me. My cellar is too damp, and too much subject to changes in temperature, to make mushroom growing an easy undertaking. I shall try raising mushrooms under greenhouse benches this winter, and hope for better success.

The first question which I would ask the party who wishes to raise mushrooms for home consumption, or for market either, is, "What kind of a place have you for raising this crop? Have you a warm, tight shed, or a cellar, or cave, or a spot under greenhouse benches, or any other place that is dark, dry and free from draft, and where a constant temperature of forty-five to sixty degrees Fahrenheit can be maintained?" If you have this, mushroom growing will be comparatively easy; if you have not, my advice is, don't undertake it, unless you are willing to engage in this as a business, and to build houses, or sheds, or cellars for this very purpose. There is no question that mushroom growing for market can be made quite profitable, and that it is an interesting thing where proper conveniences are at hand, and fascinating to engage or experiment in anyway, whether on a large or small scale.

As I suggested before, the place for mushroom growing should be as little as possible subject to the influence of open air, light and temperature. In old caves, caverns, tunnels and in many cellars the natural temperature is just right; in others it should be corrected by means of hot-water pipes or in other ways.

The next thing is to get the manure. This should be fresh (that is, unfermented) horse manure from well-fed and hard-worked animals, or a mixture of this and sheep manure. What is needed is a manure that can be brought to a heat quickly, and which can be so tempered that it will maintain a moderate heat for a long time. Manure from city livery-stables is usually first-rate. Shake out all the coarsest parts except what is thoroughly soaked with urine. Dry straw is not desired. Yet it is not absolutely necessary that it should consist of nothing but clear droppings. A few well-decayed sods from old pastures or some rich muck may be mixed in with it at the last forking over, but this is not necessary, either. Put all this material up in a nice square heap under shelter, and let it begin to heat. When well steaming, fork it over, taking particular pains to put all that was on the outside and is not yet in a state of fermentation, well into the interior of the heap and turn the hottest part out. Repeat this manipulation once or twice, and you will be ready for making the mushroom bed.

To do this, spread a layer of the prepared manure upon the selected spot, packing it solid by tamping or with the feet. If too dry, sprinkle the dry parts with water. The manure is in the right condition when a handful of it, tightly squeezed, will hold together in a lump without, however, giving a drop of water. The bed should rest on a dry foundation, and may be banked up against the wall, flat or ridged, or in fact in almost any way preferred. It should be about three feet wide, of any length to suit, and ten or twelve inches deep in a warm place, or twice that much in a cool cellar. Pack it firmly and smoothly, as before stated.

Soon it will begin to heat. Let the first violent heat pass off. Of course, you need a thermometer to watch the temperature closely. Insert it down into the center of the bed, and when it indicates that the temperature has fallen below ninety degrees Fabr., then it is time to insert the spawn.

Now here comes an important point. My failures have been due more to poor, lifeless spawn than to any other cause, and yet I have always purchased it from responsible dealers. This, indeed, is a troublesome matter. We cannot always tell from the appearance of the spawn whether it is fresh or not. We may pay our money for spawn, go to all the trouble of preparing the bed, and then have our labor for our pains; and the worst of it is that by the

time we find out that the spawn was no good, the manure fire has gone out and the time for planting is past. If we are not too discouraged to try the thing over again with another sample of spawn, we have to begin anew with another lot of manure, and have lost valuable time and considerable patience. I hardly know what advice to give you concerning the purchase of spawn. Go to a reliable, reputable seedsmen, and try your luck. Spawn, if fresh, should have a slight but unmistakable mushroom smell. If it has that, you may be sure of its vitality. If it has not, it is at least a case for doubt.

There are two kinds of spawn, the English brick and the French flake spawn. Either kind, if fresh, may be used. If you have brick spawn, cut each brick into ten or twelve pieces with a sharp hatchet. Don't crumble it all up. Put one piece in a place, or if you have flake spawn, take about as much as a small egg, or a flake three inches long and one inch thick. In spawning the bed, make holes into the manure with the finger, about ten inches apart each way, put a lump or flake of spawn in each hole, and cover it again with about an inch of the manure. Then firm the bed well. Should the manure be rather cool, a covering of straw or hay may be given. The spawn will soon commence to "run," and in eight or ten days the bed will be molded over. Then is the time for "casing" it; that is, for covering it with loam. This may be ordinary good garden soil, or common loam from an open, rich piece of upland free from stones, rubbish, clods, etc., medium dry and mellow. Put a layer of this one and one half to two inches in thickness all over the bed, and firm it slightly.

Such loam should always be kept on hand to fill up the cavities left where mushrooms are taken up. The temperature in the shed or cellar should range from forty-five to sixty degrees. If it goes below fifty degrees, it is well to give the beds a covering of straw or hay, or better, a wooden casing covered with hay or straw. In about two months from the time of spawning the mushrooms may be expected, and the beds will continue to bear three or four weeks, and then gradually dwindle down in yield. If the beds get too dry at any time, tepid water may be sprinkled on the hay or straw covering; not enough, however, to reach the soil.

### Orchard and Small Fruits.

CONDUCTED BY SAMUEL B. GREEN.

#### SHEEP IN THE ORCHARD.

If properly managed, the orchard may be pastured profitably by sheep. The only essential is not to pasture too closely and to have it so arranged as to turn in the sheep from the yards in the morning and take them out when they get restless and rambling, as this is the stage when they reach up for the limbs and hunt for a branch where the bark is tender. In Benton county we kept down the weeds and grass in a large orchard for ten years with sheep without spoiling a single tree by disbarking. If the pasturage alone was the main consideration, it would not pay to turn the sheep in and out. But experience has proven that the orchard insects do not thrive where the sheep run. With the sheep in the orchard our apples had less worms, and the leaf-eating insects, thrips, etc., were not as common and destructive as in orchards near by where grass and weeds grew. The common belief of nurserymen and fruit growers is that the sheep and goat are the natural enemies and eradicators of trees and shrubs. It is true of the goat, but sensibly managed "the animal with the golden hoof" is the friend of the nurseryman and orchardist. Year after year I have turned them into the nursery rows after we had quit cultivating. It was interesting to watch their quick and eager search for the tender weeds. Of course, when their appetite was satisfied they were turned out for the day. In the corn-field they proved an equally satisfactory way of gathering up the weeds in early August. In many other ways the sheep, when properly worked up in a big weed patch or in a field, was wanted we had hardly felt the weeds grow around them, and the sheep had been there until the work was done. A hundred-acre pasture on the edge of the orchard had a corner of about ten acres of brush, with here and there a tree. A 5-topped elm, oak, wild cherry, etc., was fenced in for the sheep to graze during their foraging expeditions during the growing season. When the sheep were turned in it was by

bringing the leaves of the taller hazel brush. In two years the brush was killed, and in four years a rich matting of grass took its place among the growing shade trees. I wish to make it emphatic that the sheep, properly managed, is the helper and friend of the horticulturist. But in late fall, winter and early spring, the place for the sheep is the feed lots and sheds. When tree bark is the only obtainable green thing the sheep will decide that it is made for their use.—Prof. J. L. Budd.

### INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

**Wintering Concord Grape Vines.**—H. T. Evans, Col. Your Concord grape-vines would very likely come through the winter all right without protection, but it would probably be much the safer plan for you to protect them. Leave them after pruning until there is danger of the ground freezing up solid, then lay them flat on the ground and cover four inches deep with earth, which is the best material for the purpose.

**To Get Rid of Ants.**—J. W. K., Rentville, Nova Scotia. You had better buy some bisulphide of carbon (commence by buying four ounces). Make holes about the size of a broom-stick and six inches deep in the beds where the ants are troublesome. Pour a thimbleful of the bisulphide in each hole and then fill it up with earth. Avoid exposing the bisulphide to fire, as it explodes easily. It will not hurt the roots of the plants and will drive out the ants.

**Dewberries.**—H. R. M., Bradford, Ill. The dewberry should be grown on a trellis or else heavily mulched to secure best results. It is best to slightly protect it with litter or earth to prevent its being injured in the winter. The Lucretia is the best variety, but it is not generally successful, though in some locations it is remarkably prolific and profitable. Any kind of a trellis may be used so long as the canes are kept off the ground. A single or double wire makes a good trellis, or they may be trained on horizontal poles two feet from the ground.

**Neglected Orchard.**—A. B., Baltimore, Md., writes: "I am thinking of taking a place on which are about forty acres of orchard, which once produced fine cherries, apples, pears and quinces, but nothing has been done to the trees for fully fifteen years, except to take what fruit the owner happened to need. The trees and fruit are diseased. I know nothing of fruits or trees. Will it pay me to attempt to leave and preserve these trees, or cut them down?"

REPLY:—If you intend to cultivate the land at all you would probably find the fruit would pay better than almost any crop you could grow if the varieties were judiciously selected by the planter and that the orchard would respond very quickly to proper cultivation, pruning and manuring.

**Plums from Seeds—Currants.**—H. C. P., Big Rapids, Mich. Plums will not come true from seed, but seedlings from plums and other stone fruits often resemble very much their parent fruit; however nothing is certain about them. Currant seedlings vary very much, and the chances are that not one plant in ten thousand seedlings would be as good as the Fay. Currant cuttings may be made at any time after the leaves have fallen and before growth starts in the spring, but the best time is in the early autumn. The cuttings should be eight inches long of the new growth, and should be planted in good, rich, well-drained garden soil six inches deep in rows three feet apart and two inches apart in the row, and mulched with fine manure. Allow them to remain here one or two years and then plant where they are to grow.

**Anthracnose.**—S. B., Norwich, N. Y. Your black-cap raspberries are undoubtedly affected with anthracnose, a fungus disease that is very common and injurious in parts of New England and the Middle States, and which in some sections has done away with the raising of black-cap raspberries almost altogether. It may, however, be kept in check by the following treatment: *Treatment.*—Cut out and burn all the infected wood as soon as seen. In the spring before the buds swell spray the canes (using a pump and sprayer) with a fifty-percent solution of green copperas (sulphate of iron). After the leaves are out spray canes and all with Bordeaux mixture. For summer use, spray twice with liver of sulphur (potassium sulphide), one ounce to each gallon of water, or dust the foliage when wet with powdered lime and sulphur in equal parts. It is considerable labor to follow out the above directions, and in many cases will not pay to do so, or will only pay with the best varieties.

**Leaf-blight.**—H. W., Ticonderoga, N. Y. The quince leaves received are affected with a fungus growth called "leaf-blight of the pear," "quince leaf-blight." It is the fungus that makes Flemish Beauty and some other pears crack so badly in parts of New York state and elsewhere. Its name is *Entomsporium maculatum*. When it attacks the foliage of pear or quince the leaves often all drop off and only the naked branches and green fruit remain. It often attacks pear seeds in the seed-beds and renders the grove them very difficult. *Remedy.*—The may be kept in check and the foliage by spraying the branches and buds, at the latter commence to swell in the spring, with a simple solution of sulphur copper (one pound to five gallons of

and then use Bordeaux mixture when the foliage is well developed and at intervals of three weeks during the rest of the summer. This is a necessary treatment to secure a good crop of quinces most years, and on a large scale the cost, with proper appliances for doing the work, is only trifling.

**Keeping Apple Seeds—Grafts, Scions, Etc.**—R. W., Corinth, Ill. Apple seeds should be cleaned from the cider pomace at once. Or in a small way may be taken from ripe apples at any time. They should be packed in a little moist sand and kept in a place where they will not get very dry, but where they will occasionally get frozen a little. In the spring I often have to keep them slightly dry to prevent their sprouting before the land is ready for them. When the land is well settled I moisten the seed, bring them into a warm place to sprout and plant them as soon as they commence to burst open. Apple roots for root-grafting can be bought from any of the large nurserymen. They cost from \$3.50 to \$5.00 per thousand. Scions can be cut from your own apple-trees if of the right kind, or may be bought of those having the desired kinds. Many nurserymen sell them. Young apple-trees are generally the thriftiest, and consequently furnish the best scions. For full information about grafting-wax and the methods of grafting, etc., you had better get "Practical Fruit Culture," by S. T. Maynard, price twenty-five cents; for sale by FARM AND FIRESIDE. This book is a little out of date on some subjects, but is all right for your purpose.

**Grass in Orchard—Best Compost for Orchard—Scuppernon Grape—Peach-borer.**—W. T. T., Fullerton, Ala. I do not know what grass will be best with you, but it is my opinion that you will do best to cultivate the land in the orchard in some hoed crop.—I do not know what you mean by the best compost, for I understand by the term compost a mixture of the waste manurial materials found on the farms. I should think, however, that a cheap and accessible fertilizer for you would be cotton-seed meal and ground bone, with a little potash salt added. If you can get animal manure, you had better use it in preference to buying fertilizers.—The Scuppernon grape will not bear much pruning, and does best when allowed plenty of room to grow.—The worm you refer to is the common peach-borer. There is no preparation that can be applied to the tree trunks that will be satisfactory in keeping them out, because as the tree grows and expands it breaks the covering and the moths know enough to lay the eggs in the cracks. The best way is to go over your peach-trees early in the spring or late in autumn and remove the larvae with a knife; then slightly mound up the trees and allow the mounds to stand until September, by which time egg laying will have ceased, and the mound should be leveled.

**Cultivation of Orchard.**—G. H. F., Columbus, Ind., writes: "Two years ago I planted two hundred apple-trees in a meadow, dug around them well and covered the ground very thick with rotten straw. No grass has grown under the trees at all, but the trees have done no good. This spring we broke up the meadow and planted it in corn, and the trees are growing well. Now I have another piece of twelve acres on which I planted eight hundred apple-trees three years ago. They have grown finely from the start. The first year I put it in corn, last year the most of it lay idle, and this year I have part in corn and part in beans. Now, will it be detrimental to the growth of the trees to put it in wheat this fall with one hundred and fifty pounds of bone-dust to the acre, and in the spring sow it to red clover and let it run that way and plow under the clover the second year and sow to grass? Or had I better keep on cultivating as heretofore? Which plan will be the best for the growth of the trees? The ground is clay and of a rather poor quality."

REPLY:—Should prefer next year to grow corn and beans or some similar crop in the orchard that did not necessitate the late working of the land, but don't forget to put on the bone-dust in the spring. I think it all right to seed down orchards when they commence to bear, if they grow thriftily, for by that time they have a strong root system, but I am always afraid of wheat in a young orchard, for it will often check its growth seriously. Clover, on the contrary, is a fine crop in a young orchard if plowed under the second year, and I think well of seeding to clover in the corn the last time it is worked. In fact, I think highly of corn as a crop for seeding down with in any place, but especially in the orchard.

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Our Farm.

CAPITAL VERSUS BRAINS IN THE DAIRY.

Has any industry, conducted with like capital, any better reward than that returned by the dairy? What man, with a few thousands of dollars invested, makes as comfortable a living and secures a more certain income than the man with twenty-five or thirty cows on a farm of one hundred acres? The manufacturer must have a large capital; must manage his business on a scale that carries with it division of labor, and the economies of piece work and a reserve fund to tide him over a dull spell; the dairy is uniform in its labor requirements; there is a daily demand for its finished products; there are as many avenues by which produce may be cheapened as in any other business enterprise.

The demand of the times has led to cheapened production of all kinds. Science has cheapened about all the processes of iron and steel manufacture, and thousands of other things, so that the article complete is furnished to the consumer far below the former price. As the article is cheapened, the demand increases. The manufacturer, by coming to know all the details of his business and making a thorough study of it is enabled to get all the value out of the raw material, or work up the waste into other marketable articles, so that the waste and residue of the past is fashioned into the useful of the present, and these wastes now often constitute the chief part of the net profits.

Now, has our average dairyman availed himself of all these sources of profit? Is he a dairy student, all the time learning, always making a change for the better? Are his brains active? Is he alert? Does he comprehend the great mystery of nature with which he has to deal, the mystery of life, its reproduction and maintenance? Does he understand that this cow is a more complex machine than all the mechanism of the great mills, and yet the mastering of the functions, wants and demands of this cow, and the manipulation of her product, constitute successful dairying?

Has the dairyman found that dairying is dividing up into special lines, and the profitable dairy is no longer a general-purpose dairy? Has he the cow adapted to his purpose, or is he yet owning cows "thoroughbred in unknown breeding?" Is he yet feeding his cows in the expensive ways of the past, or is he adopting the silo, the big soiling crop, and concentrating his dairy efforts? Has he warm and well-lighted barns, and water at the door, or is he yet making his cows hardy by old barns and a great deal of outdoor, winter exercise? Is he yet setting his milk in tin pans, or has he a hand separator, and getting the last globule of cream from the milk, and getting a pound more butter to each one hundred pounds of milk?

Is he yet making store butter and exchanging it for groceries, getting no cash, or is he making fancy butter and selling it in a butter market? Is he pooling his milk with that of his neighbors, and selling it at so much per 100 pounds, or does he insist upon its being tested for solids with a modern milk-tester, and so get the value of the extra pound of fat in each one hundred pounds of milk that in the past he has donated to his neighbor, who was pnting poor milk into the pool?

Is he keeping up the fertility of his farm by all known methods, saving manure by a liberal use of absorbents, plowing under clover, putting rye in as a "catch crop" after corn, so that the fields shall not leach and filter away their fertility, so that his soil is all the while at work storing up plant-food for succeeding crops? Has he reduced the cost of labor to produce crops to the lowest point?

Is this man reading good literature, so that he can keep up with the current dairy thought of the day, and find out all that is transpiring in the dairy world in the way of experiment and investigation, and put the best things his broadening mind tells him is practical into use?

All these points are in the line of better dairying, and are at variance with the plans of those who denounce all dairy advance as a despisable thing, and all investigation as a scheme of men to get a living without work.

All these are vital questions; the contrast between success and progress and the stand-still, conservative system that actually retrogrades. What business, after all, can pay better on the farm than a well-appointed and conducted dairy?—G. Gould, in American Agriculturist.

SPECIAL SALE.—For 60 (sixty) days you get Roofing, Spouting and Paints at (one-half) price. Write for circulars to Jewell the Roofer, Steubenville, O. On receipt of half the regular price quoted, we will promptly forward any order to any address. This sale made to prepare for new building and machinery.



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MURRAY \$55.95 BUGGY and \$5.95 HARNESS of course. They are Better than Gold.

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CASH OR CREDIT.

Credit is a ball and chain around the leg of the buyer, the retailer, the jobber and all who are parties thereto. It is a load, a bond which fetters all who practice it, and in the majority of cases inevitably ends in disaster and misery. It is perhaps impossible, in many cases, to dispense with it entirely; and yet we know that with the exercise of a little patience and resolute self-denial, even this has been done to the credit and happiness of all concerned. In buying on credit, one generally realizes that he is paying more for his goods than do cash customers, and the dealer knows that a credit purchaser will buy much more than he would if he was buying for cash. Herein is a double evil. One wants only twenty dollars' worth of goods, and because he hasn't the cash with which to pay for them, is called upon to pay twenty-five dollars. Then he sees so many things around the store that he has wanted so long, and which if he had them would add to the comfort and pleasure of his wife and family, and he is tempted to add another twenty-five dollars' worth to his store account, and is on the merchant's books for a full fifty. This is a large sum of money, but he feels that after harvest, or after he has sold his hogs or his cattle or his corn, he can readily and easily pay it. But when that time comes he finds that he hasn't a cent more than is called for in the purchase of things absolutely necessary to run the house or the farm, and in very many instances instead of paying his store account first he leaves it unpaid for a more convenient season, and adds to it from time to time as the occasion requires. By and by he finds himself so involved that a sacrifice of something has to be made, and is made, and in the sacrifice he is compelled to part with what is one hundred and fifty dollars for one hundred dollars, and here is another loss; and it illustrates the manner in which many are kept poor and full of trouble all the time, for want of prudence and self-denial. Let the motto be cash, as far as possible, all along the line, even though we do not dress as fine or live as high as some of our neighbors.—Colman's Rural World.

EXTRACTS FROM CORRESPONDENTS.

FROM TEXAS.—Houston is the railroad hub of Texas. It is the second largest cotton-shipping city in the United States. It is the county-seat of Harris county. It is fifty miles from Galveston, on the gulf. Houston has a population of 48,972. It has the finest system of electric street-railways in the South. I have traveled over nearly every state in the Union and watched the growth of many cities, but have seen none with a more promising future before it than Houston, Texas. This county (Harris) produces cotton, corn, oats, sorghum, potatoes—sweet and Irish—millet, cow-peas and all kinds of garden vegetables. The raising of vegetables for early and late shipments to northern cities could be made to pay large returns for the labor and money invested. The growing season covers a period of about ten months. All garden vegetables remain in the open ground all winter. I have now growing a few Irish potatoes which are volunteers of the original crop planted two and a half years ago. Small fruits revel in this soil and climate. Several varieties of pears are received from the West—especially the Le Conte and the Red Bartlett. A well-conducted butter and cheese business would yield good returns here, as it costs little to keep stock in good condition. Good butter made country butter finds a ready sale at 40 cents a pound. The county is well timbered and timbered. Every variety of timber in Texas can be found in different parts of Harris county. The price of lumber is ridiculously low here at present—\$10 for unimproved, in tracts of 10 to 20 acres. As this portion of Texas is develop-

ing rapidly, the present low price of land cannot reasonably be expected to remain long. The healthfulness of Houston and Harris county is exceptionally good. The annual death rate from all causes is about 16 deaths per 1,000 inhabitants. I have no land for sale, nor have I any other object in writing this than that it may be the means of affording information of a reliable nature to those readers of the FARM AND FIRESIDE who contemplate removing to a more congenial climate or fruitful soil. Houston, Texas. E. A. J.

FROM MISSOURI.—For manufacturers and capitalists, Clarence offers many inducements, such as good locations, cheap land and fuel, good schools, churches and society. The population is about 1,500. It is surrounded by some fine agricultural lands. Clarence is located on high prairie ground with fifteen miles of streets, partly macadamized. It has four nice parks. The city and county are out of debt. Taxes are very low. Coal is found in veins from eighteen inches to four feet. There is a twenty-foot vein of zinc ore. Ocher is also found, and there are large quantities of fire clay, potters clay, tile clay and white sand of finest quality. The land around Clarence is rolling prairie and timber land, adapted to blue-grass timothy, clover, wheat, corn, oats, rye, millet, Hungarian, flax, etc. Apples, pears, cherries, plums, peaches, apricots, quinces, mulberries, grapes, raspberries, blackberries, gooseberries, currants and persimmons do well. We have an abundance of twenty varieties of timber. An inexhaustible supply of water can be had at a depth of from twenty-five to one hundred feet. There is a mineral spring near Clarence. Our shorthorns, Angus and Herefords are equal to any cattle, corn or grass fed, that are marketed in Chicago. Our hogs are Poland China, Berkshire, Chester White and Jersey Red. Our sheep are Merino, Cotswold, Leicesters and Oxford Downs. We ship draft, saddle, driving and cavalry horses. In 1891 our surplus produce consisted of 1,196 car-loads, worth \$672,929. Our town offers \$2,500 in cash to any firm that will start a cannery to can vegetables, corn and fruit. Land is cheap. Clarence, Mo. G. P. A. W.

FROM VERMONT.—Everybody here wants to get into the villages. Location is everything, and back farms are not salable. There are more than 1,000 acres of deserted farms in Orange county, not on account of land being run out, but the old settlers have died and the present generation is not satisfied to live three or four miles from the post-office and village. Many of the old homes are used for pastures. On many are good buildings. Good land with apple and maple trees can be bought for from \$5 to \$10 an acre. Land on Connecticut river cannot be bought for less than \$30 to \$50 an acre. The soil there is mostly sandy marl, and needs good cultivation and fertilizers more than the back farms. The land back is good for fruits and vegetables, but is too far from market. Then, roads are another drawback. They are not so bad under foot since road machines were introduced. But nearly half of them are so grown with bushes that it is a close squeeze to pass teams. On some roads bushes interfere with top carriages. When you find a farmer that takes four or five political papers and no agricultural paper, you will find one grumbling about hard times. Some crops this year have been very good. Pastures and meadows have done well and grain yielded well. Potatoes rusted and rotted badly. Some fields were not worth digging. Corn was an average crop. Winter apples fell short. A large amount of rowen was cut and cured, as dairying is one of our industries. There is a scarcity of farm help. Wages are a dollar a day and board, and \$20 to \$25 a month and board for six or eight months in the year. If it were not for the new machinery the farmer could not get his work done. Society is good, with good schools and churches. Granite and copper mines are doing well. There are many stock companies, shoe shops, machine shops, hotels and creameries that are new industries, but appear successful. If only our young men would be content to go on farming instead of going to the city or on a railroad, where they will not be half so well off in a score of years as on a farm. But they don't see it, or don't want to see it. Mrs. S. A. P. East Thetford, Vt.

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WITH

A FEW HENS

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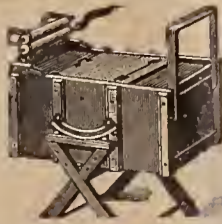
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## Our Farm.

### THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey.

#### REGULATOR FOR INCUBATOR.

AS MANY of our readers are using the hot-water, home-made incubator, the attachment of a regulator will be favored by some. As the hot-water incubator cools very slowly, a regulator can only allow of the escape of the heated air. As the water in the tank affects the heat in the egg-chamber more when the animal heat of the chicks is increased, a regulator will not fully serve to prevent changes, but it will make an excellent indicator, as it can be observed from the top of the incubator.

The regulator given is one of the simplest, and can be attached to any hot-water incubator, or may even be attached to a lamp if it is to "trip" or shut down the flame. We are indebted to Mr. J. H. Zeigler, Port Carbon, Pa., for the design.

It is known that water expands with heat and contracts with cold. The parts in the illustration are, therefore, thus explained, and the principle is seen at a glance. A is the tank and B the egg-chamber. C is a tube (may be made of two fruit-cans soldered, or of tin), and D is a float of cork or any light wood. E is a tin tube, one inch in diameter, which goes through the tank and into the egg-chamber; it allows the heated air to escape. Resting on E is a tin cap, F, which rises and falls whenever the lever, R, is affected by the float, D, a movable ball, H, being used to balance the cap, F. At K is shown a half-inch tin tube, which is used only to allow of the escape of air in pouring water into the tank, or it may be used as the water-tube. P is a fine wire to which the float is suspended. The dotted lines, T, show how a small rod may be attached for tripping the flame of a lamp, should such an arrangement be preferred. Everything must be well soldered, or leakage will result. M is a stout post of wire or any suitable material. Observe that only the tube, E, enters the egg-chamber. The tin cap, F, must be suspended to the lever, R, and not fastened to it, as the cap should move and swing. The tube, C, should go down to within one inch of the bottom of the tank. Fill the tank with boiling water, to within half an inch of the top, to allow for expansion.

As the water contracts, the float goes down and brings the tin cap over the tube, E, closing it, and when the water expands, the float rises and pushes the cap up. When ready to operate, fill the tank as mentioned, and screw a cap, N, on the tube, K, which confines the air and gives pressure on the water, and the float is regulated by this pressure, first balancing with the ball, H, which enables you to set the incubator to any degree of heat.

#### WINTER FOODS.

The hens are partial to a variety of food, which is an advantage to the farmer, as it gives him an opportunity of feeding many substances that are unsalable in winter. The supposition that poultry must be fed entirely on grain has entailed a greater expense in keeping poultry than is necessary, to say nothing of the fact that the production of eggs has been diminished, rather than increased, by feeding the fowls so largely on grain.

The hen is, like the cow, a producer, and she is capable of utilizing many kinds of food. This should be apparent to all from the fact that an egg is composed of nearly all of the elements that are required to form a complete substance, or to produce a living creature. If the hens had no duty to perform but that of simply existing and fattening, grain would supply them with all that they require; but as stated, the hen is a producer, and she must be given suitable foods for her purpose or she will fail to accomplish the objects for which she is intended on the farm.

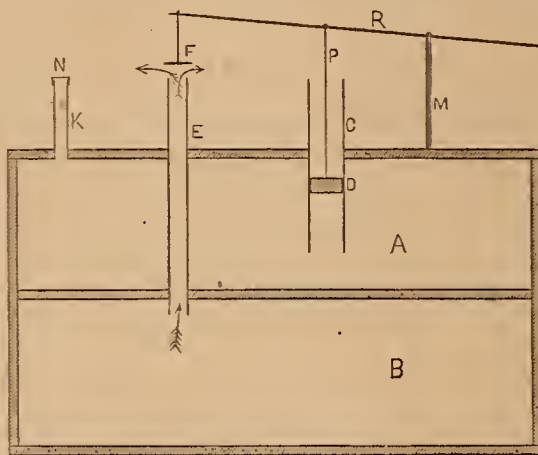
No farmer would expect his cow to thrive on a diet of grain exclusively. She requires bulky food, and she requires a variety. Not only is she allowed an abundance of nutritious hay, but also carrots, turnips or ensilage, the object being to promote the appetite and assist digestion, as well as to allow her a greater opportunity of securing the nitrogen, carbon and mineral matter which is so essential to milk production.

There is no difference between the hen and the cow in their demands for food. The

hen requires bulky food, and she will eat the same kinds that the cows receive if such foods are cut very fine. A mess of hay will be eagerly devoured by a flock of hens, and it will be of greater service for producing eggs than corn. Farmers know that their fowls will sometimes refuse to eat corn or wheat. It is because they have been surfeited with such food. When the food is varied, the hens will have good appetites, and as the appetite influences egg production, the feeding of a variety is more important than quantity.

#### EXTRA LARGE STOCK.

It is not an easy matter to secure extra large size and prolificacy in the same breed. When the breed is bred with the view of adding to its weight, there is then a tendency to convert the food into meat, rather than into eggs, and when a large fowl is fully matured, it is liable to become very fat, and laying is then retarded. The medium hens of any breed are the best layers. A Brahma hen weighing not over six pounds will prove a better layer than one weighing eight pounds, and the reason



REGULATOR FOR INCUBATOR.

is very simple to understand, as the smaller hen is more active and is a better forager than the larger one.

Nor is it any advantage to produce extra large birds for market, as buyers prefer small carcasses. A bird weighing only five pounds will sell more readily than one weighing eight pounds, as the smaller weight is about that required for a small family, and if for large families a pair is usually purchased. That the market prefers a small and plump carcass to a large one may be demonstrated by visiting any of the stalls in the markets of the large cities where poultry is sold in large numbers.

#### INHERITED DISEASES.

Some flocks are never thrifty. Disease seems to appear without apparent cause, and the slightest exposure leads to roup or something allied to it. We have known whole flocks to escape roup when all the birds belonging to a near neighbor were effected. Consumption, scrofula, bronchitis, asthma and such diseases are surely transmitted to the offspring of fowls, as in the cases of animals. There is not enough attention given the selection of fowls with the view of preventing disease and avoiding the liability of hereditary transmission.

When roup appears in a flock, it denotes some organic weakness, and if it spreads rapidly to all the members of the flock, the indication is that the members are of the same family, and more readily susceptible to disease than some other flocks. It is safer to avoid using any birds for breeding purposes that have at any time been sick with a contagious disease, and by so doing the flock will in a few years be hardy and the difficulties lessened.

#### SHIPPING SMALL CHICKS.

This is the best season of the year for shipping chicks alive, as it is not too cold or too warm. After cold weather begins all young stock must be shipped to market dressed, as they will not endure the exposure of a journey if sent alive, and will reach the market in an unfit condition. It is never safe to ship live poultry to a great distance. It costs less to ship dressed stock, and better prices are also obtained when the birds are dressed.

#### WYANDOTTES FOR MARKET.

One advantage possessed by the Wyandotte is its rose comb, while its yellow legs and skin render it very attractive in market. The Wyandotte is about eight and one half pounds weight for a full-grown male, which is a pound less than for a Plymouth Rock; but it is very hardy and active, and seems to thrive in all climates. While the hens may not be termed "the best layers," yet there are but few breeds that excel them for laying during the entire year.

#### HARBORING VERMIN.

Rats, minks, mice and other vermin will readily accept all invitations to abide with you. They must have secure retreats, and if you provide them, they will be occupied. Remedies are useless unless they can be applied. Wherever there exists a pile of lumber or logs, or debris of any kind, the rat will be sure to put in an appearance. He can burrow into the ground, and delights in getting under a floor, from which he will make nocturnal raids on the chicks. He can go where the cat and terrier cannot reach him, and the best way to get rid of him is to give him as few harboring places as possible.

#### FILTHY POULTRY-YARDS.

As there is danger from Asiatic cholera in this country, and the advice has been given to all to allow no filth to accumulate, one of the first duties is to purify the poultry-yards. No poultry should be allowed to scatter their droppings in the yards around the dwelling-house or in the barns, but should have some inclosed space upon which they should remain, and such space should be kept clean.

It is not difficult to keep the floor of a poultry-house clean, but the yards entail more labor than many are willing to bestow. Plough or spade the yards so as to turn all filth under. Bear in mind that wherever you notice flies congregating your attention is demanded at once. A cheap disinfecting solution may be made by dissolving one pound each of copperas and bluestone in six gallons of water, and sprinkling or spraying the solution wherever it can be applied. Under no condition should any kind of filth be allowed without disinfection.

#### PETTING THE HENS.

When making pets of the hens, they become accustomed to your presence and will follow you whenever they see you. Do not make the mistake of supposing that they are hungry, and feed them whenever they appear to ask for food, as you will by so doing soon have them in an overfat condition.

#### COARSE GRASS AND CROP-BOUND.

This is the season of the year when some of the hens may become crop-bound. It is due to the lack of green food, which tempts the hens to swallow bulky food of some kind, as a substitute, the result being that they resort to the long, dried grass, which becomes packed in the crops and causes crop-bound.

#### CORRESPONDENCE.

**DRAWN AND UNDRAWN POULTRY.**—It is a fruitful theme of discussion between the breeders, dealers and consumers, and is one that will result in no harm so long as one does not say to the other, "You shall not sell poultry undrawn." I am aware that consumers argue from the standpoint of waste that exists in purchasing undrawn poultry with their head and feet on; but they should remember that they are not paying so much for it on that account, which equalizes the cost. The gain realized by not drawing it, and cutting off the head and feet, is confined to two persons, the breeder who sells his stock by weight, and the dealer who buys his stock alive and dresses it before shipping. There is a class of persons who oppose the sale of undrawn poultry on the plea that it is not healthy, that the contents of the crop and entrails soon decay, and the offensive odor arising from this decay permeates all through the flesh of the bird, thereby causing sickness among the consumers. Their opponents say, "No, your deductions are wrong; that the offensive odor so often complained of in fowls is caused by their being permitted to range in the barn-yard and other places, where they feed upon impure matter, such as the undigested parts of grains that have passed through animals." This point can be settled in a short time by confining the fowls intended for home consumption and feeding them only on pure food. I have frequently noticed this unpleasant odor in fowls while eating them, and in every instance they were fresh-killed. Besides, if one will notice, he will find a distinct difference between the odor of a fresh-killed bird and one where decay of the entrails has begun, and I have also noticed this fact, that the crop of the fresh-killed fowl may show no sign of decay, yet the flesh is spoiled in certain parts by this offensive odor. The principle objection that I have to undrawn poultry is that it will keep only for

a short time, and this is a very important item when a large quantity is demanded for a city and dealers are compelled to embrace a large space of country in order to get a supply for the consumers. I have known instances where both kinds have been packed in a barrel for days together, and on opening it the drawn were soured, while the undrawn were in good condition. But I can see no good reason why the heads and feet might not be cut off, for the heads are always offensive after a few days' confinement, and spoil quicker than the crops, while the legs are of no use for any purpose. It is said that there is an exception to all rules, and if so, in the one instance I would except the head of the cocks when caponized and the legs on old cocks, in order to detect them from young ones; and this would only protect the most ignorant among the consumers, for the more experienced persons and dealers could select them without the feet.

New York City.

C. W.

#### INQUIRIES.

**Ventilation.**—E. L., Marion, Ohio, writes: "Which is the best method of ventilating a poultry-house in winter; that is, to avoid drafts?"

**REPLY:**—It is hardly necessary to attempt to ventilate in any manner in winter, as the cold air will find its way inside despite all efforts to keep it out. The simplest and best mode is to leave the door and windows open during the day, closing them at night.

**Caponizing.**—L. S. R., Lincoln, Va., writes: "What advantage is gained by caponizing the cockerels?"

**REPLY:**—The principal advantage is that a capon sells for four times as much as a cockerel.

**Keeping Eggs for Hatching.**—M. B. R., Salem, Ohio, writes: "How long can eggs be kept during cool weather, if turned two or three times a day, the eggs being intended for hatching purposes?"

**REPLY:**—We have kept them a month at a temperature of 50°.

**Mocking-birds.**—E. T. A., Normandy, Tenn., writes: "Will mocking-birds breed in confinement?"

**REPLY:**—We have never known them to do so.

**Poultry-house and Breed.**—H. E. S., Coldwater, N. Y., writes: "1. Would it pay me to build a poultry-house (with yards) close to a creek, to raise hens, ducks and geese? 2. Which breed of hens would you suggest? 3. Are there more than one breed of ducks and geese?"

**REPLY:**—1. The location is excellent if free from minks and other enemies. 2. For your climate and purpose perhaps the Plymouth Rocks would be most serviceable. 3. There are ten breeds of ducks and seven breeds of geese.

## Poultry Do Have

These diseases. The first is what diphtheria is to human beings, and closely allied to that disease. Symptoms are, sneezing like a cold; slight watering of the eyes; running at the nostrils, severe inflammation in the throat, canker, swollen head and eruptions on head and face. A breeder of fighting game fowl which from their habits, are more liable to roup than others, gives us a TREATMENT, which he says is a **Positively Sure Cure for the**

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require so much fertilizing that farms and gardens that far and gardens. The rich, loamy soil of Michigan Farms produces a fine crop without this expense. The near markets, general healthfulness, blizzards, together with good society, churches, etc., make Michigan Farms the best in the world. Write to me and I will tell you how to get the best farms on long time; low rate of interest. O. M. BARNES, Land Commissioner, Lansing, Mich.







Our Household.

MY OLD RAG DOLL.

Last night I searched the garret for a long-forgotten book,  
And as I pried and peered about, down in a rusty nook  
I found what made me all at once forget what I was after,  
And filled my eyes with springing tears and stirred my voice to laughter.  
And up I took it, wonderingly, with cob-webs, dust and all,  
And held it close against my heart—  
My old rag doll.

Oh, dear, forgotten childhood's joy! Oh, precious, long-lost treasure!  
I cannot tell why such a pain was mingled with the pleasure;  
I cannot tell just why the tears fell fast from eyes bent over  
That dusty, dear, old-fashioned thing—I only know I love her!  
I only know that "Polly" in her little ragged shawl  
Is mine once more—is mine again—  
My old rag doll.

Dear old relic of childhood—of that happy, happy time  
When life meant play and sunshine and every joy was mine;  
When care was all unknown to me and every bright to-morrow  
Was but an echo of to-day! There rarely came a sorrow,  
But when my fair horizon was stirred by sudden squall,  
There was naught that gave me comfort like  
My old rag doll.

The old, familiar dirty face, with features done in ink,  
And the little faded ribbon tied with many a childish prink,  
And the dusty plaid merino of the little time-worn gown,  
And the tiny knitted stocking o'er the shoe-tops slipping down,  
There on the garret floor I sat and brooded o'er them all,  
And longed for that sweet childhood with  
My old rag doll.

And though I am a woman, with a woman's work and care,  
And though I look each morning for the silver in my hair,  
And all my golden childhood is but a happy dream,  
Somehow to-day its perfect joys a little nearer seem  
Since I found her in the garret, with the cob-webs, dust and all,  
That dearest relic of the past—  
My old rag doll.

—Harriet Francene Crocker, in Judge.

ALL FOR THE BABY.

"Last night Jones came home feeling happy and mellow,  
And found his wife kissing a bald-headed fellow  
In fact, she was hugging him. Caught un-awares,  
Did Jones raise a rumpus and kick him down-stairs?  
No; such things can never his home peace destroy—  
She was only kissing her first baby boy."  
—Judge.

All the world loves a baby! There is a sweetness and an innocence that comes



DETAIL FOR BAG.

with a little life that makes even a stony heart melt. No matter how lined with care and perhaps hardness may be the brow of man or woman, put a laughing, happy baby in sight and suddenly the deep lines seem to vanish and a faint smile appears that increases as self is forgotten in watching the blessed baby.

Of course, there are babies and—babies, but as a rule they are lovable and cheering. There is much to be done for baby's comfort, and the garments that are made for the little one have a great deal to do toward keeping it in health and happiness. Dame Fashion speaks for the wee one often, as can be proved if any one chooses to look at the daguerreotypes of bygone years, watching the changes in dresses from that time up to the present.

One of the first things necessary for a baby is a dainty basket, containing various articles to be used for the toilet. These baskets come in various styles, and can be very elaborate in finish or plaid, according to the taste and pocket of the owner. Some are lined with colored silesia, over which is placed Swiss muslin; others have the entire center trimmed with Valenciennes insertion and dainty ribbons. Bows of ribbon decorate the pockets, and around is a deep ruffle of lace. Some persons prefer a standing basket, but of course it should contain the same articles, as follows:

A powder-box, with puff and powder; a soap-box, containing a cake of pure soap; a soft sponge, a sachet, a small box of vaseline, a brush and comb, silver safety-pins and whatever else may be deemed advisable.

As babies are only sweet and kissable when clean, a bath-tub is a requisite, and the portable rubber ones are preferred by many.

They are certainly very convenient, as they fold up flat. When open, pockets are on the outside, in which can be placed toilet articles, and in the tub the little one can be bathed in safety.

Flannel bands are always necessary, and can be prettily feather-stitched or made with a hem. They are also to be had in cashmere, or often "grandma" prefers to knit them.

Little silk shirts are worn by many babies, although cashmere, cambric or knitted ones are all in demand.

Pinning-blankets are often bound with silk braid, or else have a deep embroidered scallop.

The long flannel skirts may be simply hemmed, have embroidery of a pretty pattern, or be elaborately embroidered. Nainsook skirts or those of cambric are pretty, with a cluster of fine tucks and a deep embroidered ruffle and insertion.

A fine nainsook makes a satisfactory dress for a baby. A dainty one has a fancy Gretchen waist of fine insertion and edge. The sleeves and neck are trimmed to correspond with the waist, while the skirt has a five-inch hem and two clusters of tucks of ten each. Above is hand feather trimming.

Every baby ought to be provided with several wrappers, and the flannels that come are very fine and dainty, quite suitable for the use. White or delicate stripes of pink and blue are most used, although cashmere is also favored. If baby wants to be warm put on a flannel or cashmere sack with a hand-embroidered edge. The worsted sacks are in various designs, and furnish industry to many women who enjoy making baby clothes.

For the little feet silk socks are generally used, and when baby is taken for an airing in its handsome carriage with an adjustable top, a cushion, pillow and rug must go too, and all these may be of the finest material. Most mothers prefer to dress their babies in white, and certainly that or very delicate pink or blue shades seem most appreciated. The down pillow may have a case embroidered or hemstitched; and the one made of nainsook and lace insertion, with narrow ribbons, is popular. China silk is generally used for an afghan, and the cushions on the sofa pillow, covered with a silk or cedar-down cover, with a lace veil thrown over its little top, are more than one passerby looks on with admiration.

Baby cloaks of various designs, and in the purchase of a French cap re-

cently seen had a puffed crown; the sides were of drawn-work and feather-stitching, as was the crown. At the sides was a rosette of baby ribbon and ties of ribbon. There was a footing ruching.

No baby's possessions are considered quite complete these days without a hamper basket, with inside trays. They are trimmed with lace over covered silesia, and finished with bows of ribbons on the top and front of the lid. Cushions and pockets make it very convenient, and it is admirable for holding baby's dainty wardrobe.

PROVINCIALISM.

BY KATE KAUFFMAN.

A conversation with Christie Irving yesterday at the dinner-table led me to select this subject. We were speaking of the opinion eastern people have of all who live beyond the Adirondacks. By the way, perhaps you would like to know something about the visible presence of one whose mental features are familiar to you. Christie Irving is a little woman (not so small as the queen of England, for that notable person is only four feet, ten inches), but astonishingly small to do and know

all that she does. She is not a fine subject to experiment with and recommend the various cosmetics which are sent her for that purpose, for the reason that she has not a single complexion blemish to remove. She has a wealth of such golden hair as seldom grows on woman's head. Now, you think I am describing a Venus? No, she is only a very nice-looking, well-dressed lady, full of fun and with a sparkling tendency to tell good stories. Yesterday she said that when she was a young girl an eastern gentleman, who had become familiar in their family here in Ohio, invited her to go home with him for a visit. At that time she must have been a delicate, shy-eyed girl. She said:

"I went with him, and for several days after my advent in their household, at frequent intervals I found myself the object of a fixed and astonished scrutiny. When we became better acquainted they apologized by saying, 'Well, you must excuse us for gazing, because you are so very different from what we expected. We thought you would be a great, great big person with red, red cheeks and'—'And what?' I asked. But they would never tell. However, I knew that they meant 'and just as loud and coarse as possible.' There was a frank young boy in the family, and frequently when I made some remark he exclaimed, 'Why, do you know that and live out West?'"

Then she had a good joke about going to the home of a relative who at the first meal leaned toward her and whispered kindly, "Put your butter on that," indicating the individual butter-plate.

"Did they criticize your speech?" asked a lady present.

"Oh, yes," laughed Christie, good-naturedly; "in those days I used the expression 'right' instead of 'very'; I would say 'I am right well,' 'That is right good,' and so on. They had much merriment about it and cured me of the habit, for which I thank them. But on that score I was even with them, for the girls had a ridiculous way of using the word 'nicely.' For instance, if asked, 'How are you to-day?' they would say, 'Nicely.'"

"When I first met New England people I often said 'pretty day,'" remarked a lady. "They thought it a comical word. 'Beautiful' or 'fine' they considered more appropriate adjectives. I never used the expression 'pretty day' now, and I remember when I heard it the force of propriety was as striking to me as it has been to those Bostonians who criticized me."

Then some one present told the following anecdote:

"I did not receive this story in your hand," she said, "but the person who told me is reliable. Once Mrs. Croly, or June, as she writes herself, was in a

city with her husband. They were invited to some evening reception. Mrs. Croly had a fine new fur-lined circular. She said to her spouse, 'Perhaps I would better not wear that expensive garment. It is probably finer than any of the ladies here own. It will not be polite for me to be overdressed.' 'Very sweet and considerate of you, my dear,' he replied; 'certainly, wear



CABINET.

something plainer.' She did, and what was her amusement and surprise on finding every lady present with as rich a garment as the one she had politely left in her trunk!"

These points led us to think of the universal spread of taste, culture and fashion which the United States can boast. When we use the word "provincial," we may mean "countrified," but a more exact significance is narrowness, localism. Those persons are most provincial who think that all good and correct things are confined to their section, state, town or social "set." The eastern people are more prone to this defect of mind and heart than we of the central or those of the western states. We know and admit that along the Atlantic seaboard there is a rich fund of education and experience, but we also know that our neighbors are wise and acquainted with looks. Of course, the most effective way to avoid provincialism is by means of travel, and like school privileges, railroad rates, during a large part of the year, are merely nominal. Some persons say, "Unless I can travel in style, I won't go at all," but this is a species of provincialism. Better go on an excursion with a lunch-basket in hand than to stay always out of the grand rush of moving Americans, where the best knowledge is gained and real learning acquired.

Next to travel, the best broadening factor is reading. Our American novels, if they are worth anything, give information of the manners and types which prevail in various sections. I am decidedly in favor of reading our own literature in preference to the dead-and-gone stories of other lands and other times.

Our American periodicals cannot be too highly praised. They are universally admitted to be the best. An interesting custom which is growing prevalent is to have each article marked with the author's place of residence as well as his name. I have before me a recent number of *The Independent*. In order, let me name the homes of the writers who contribute its contents: New York City; Ticonderoga, N. Y.; Cleveland, Ohio; Auburndale, Mass.; Moscow, Russia; Crawfordsville, Ind.; Williamstown, Mass.; Lancaster, Penn.; St. Paul, Minn.; Philadelphia; London; San Francisco, Cal.; Amesbury, Mass.; Yokohama, Japan; Franklin, Ohio. Only the intelligent reader of such a periodical cannot be provincial. The referred to is a fair example, and if the custom prevailed with the authors of the *FARM AND FIRESIDE* as broad a coterie would be shown.

Provincialism is a kind of mental poverty. It never be avoided by miserly hoarding; it comes under that proverb which says "withholding more than is meet." Giving, doing, giving we gain the wide and large heart which are the greatest conditions to mark the passing of life.

**RESTRAINT OF JUVENILE SMOKING.**

It is time that the attention of all responsible persons should be seriously directed to the prevalence and increase of tobacco-smoking among boys. Here and there, as we have recently shown, there have been observed expressions of a strong repugnance existing in the public mind against this form of juvenile perversity; but we still lack the support of a general and outspoken objection to its continuance. At the same time, we feel assured that no man who has really given any thought to the matter would hesitate in condemning the injurious folly of this practice. Stunted growth, impaired digestion, palpi-



**PUFFED SLEEVE.**

Gray crepon cloth, caught up in bouillonnes, with bracelets and wristbands in pink velvet ribbon.

tation, and the other evidences of nerve exhaustion and irritability have again and again impressed a lesson of abstinence which has hitherto been far too little regarded.

A further stage of warning has been reached in a case which lately came before the coroner for Liverpool. A lad was in the habit of smoking cigarettes and cigar ends, and after an attack of sickness, died somewhat suddenly. The post-mortem examination revealed fatty changes in the heart, which, there was little doubt, as the verdict held, had been fatally supplemented in their influence by the smoking habit referred to. This, of course, is an extreme example. It is also, however, after all, only the strongly colored illustration of effects upon health which are daily realized in thousands of instances.

Not even in manhood is the pipe or cigar invariably safe. Much less can it be so regarded when it ministers to the unbounded whims and cravings of every



**CLOTH SLEEVE.**

Fancy vicigna-cloth, close-fitting from elbow to wrist, and draped above. Tiny velvet buttoned tabs, and finishing bow in velvet on the outside seam.

heedless urchin. Clearly there is need of some controlling power here. The parent, in certain classes, is almost as ignorant of consequences and often, probably, quite as apathetic as his boy. Where he exercises authority in the active exercises of his authority in repression, he should be very many cases he cannot, and have no hesitation in asserting our conviction that it is incumbent upon the parent to restrict this habit by an limit which will fall outside this period.

With "Fibrous Roofing Cement," nobody can stop any leak in any Roof. "Special sale" on page 5.

**THE WORLD'S A WARDROBE.**

All the world's a wardrobe, And all the girls and women merely wearers. They have their fashions and their fantasies And one, she in her time wears many garments Throughout her seven stages. First, the baby, Befrilled and brodered, in her nurse's arms; And then the trim-hosed school-girl, with her flounces And small boy scorning face, tripping, skirt-wagging, Coquettishly to school. And then the flirt, Ogling like Circe, with a blushing cecillade Kept on her low-cut corsage. Then a bride, Full of strange finery, vested like an angel, Veiled vaporously, yet vigilant of glance, Seeking the women's heaven, admiration, Even at the altar's steps. And then the matron,

In fair, rich velvet, with suave satin lined. With eyes severe and skirts of youthful cut, Full of dress saws and modish instances. To teach her girls their parts. The sixth age shifts

Into the gray yet gorgeous grandmamma, With gold pince-nez on nose and fan at side, Her youthful tastes still strong, and worldly wise

In sumptuary law, her quavering voice Prosing of fashion and Le Follett pipes Of robes and bargains rare; last scene of all, That ends the sex's mode-swaying history, Is second childishness and sheer oblivion Of youth, taste, passion—all save love of dress.

**SLEEVES.**—As the skirts of dresses are so very plain, the beauty and adornment of a dress must be made up in the sleeves and waist, which are as fancy as possible. Indeed, in the heaviest cloths some attempts at fullness are made, to give it grace, but it is a question whether it is obtainable. The Russian blouse suits presented for sale, of the very heaviest cloth, made with a wide box-plait down the back, full sleeves, give a woman of slight form the appearance of having donned her husband's or brother's overcoat, while upon a fleshy woman, I should have to close my eyes for fear of falling clear away. Soft materials seem to me the only material capable of carrying out the right effect of the Russian blouse.

The sleeves we present give wide scope for one's wardrobe, inasmuch that no two dresses need look alike, though of course it is desirable to choose the one most becoming to one's self.

**EMBROIDERY FOR SHOPPING-BAG.**—This is the working scheme for the bag presented our readers in the last issue.

**CABINET.**—Giving our boys plenty of time to prepare for Christmas, we give another beautiful design for a home-made cabinet. The door can be painted as in the design, or it can be carried out in silk with a flower design.

There are so many beautiful woods which can be left in their natural state and finished in oil or white varnish. The edges need only the plainest of finishing. The inside of the shelf, both at the side and top, can be lined with dark red velvet put on with glue. This gives a very pretty effect to bric-a-brac and any ornaments one may wish to use upon it.

CHRISTIE IRVING.

**ORNAMENTS AND JEWELS.**

Jewels are greatly the rage now, but their decadence for street wear is in inverse ratio to their popularity for house adornment. In the old days a lady was distinguished, no matter how plain her costume, by the magnificence of the diamonds she wore in her walks abroad. Now the woman who is seen wearing jewels before four o'clock in the afternoon is classified as either not up to the mode, or else is pronounced vulgar. Still there is a nice distinction in the wearing of street jewels. The pins and clasps that really have a raison d'etre, and are not ornaments only, are still considered in good taste. The jeweled pin that fastens the bonnet in place, or secures the ties, the hair-pin that is worn in the hair to support the bonnet, the single glowing stone that secures the dress collar, all these are considered as quite appropriate for street wear. However, the woman who has her own private safe for the keeping of her collection of jewels is quite as frequently seen undressed by any showy triquet, however unless she is riding in her carriage. For shopping, walking, or morning visits, and silk attire are considered quite proper as a man's dress suit worn before four o'clock. For afternoon calls and when few jewels appear, the New York women to say, and these are worn only in the English importation, and is perhaps the most sensible yet adopted.

**THE EXPENSIVE LUXURIES IF PERFECT.**—They are the first jewels worn by

young girls, French mammas and grand-mammas have a custom of giving a single pearl to a little girl on each of her birthdays, as we give our daughters the birthday spoon. At eighteen, if the pearls have been of good size, the coming-out necklace is ready for its diamond clasp, to which each of the parents and grandparents contribute a jewel. The beautiful Italian queen, from whom this custom was derived, receives on every birthday, not a single pearl, but a string containing one pearl for each year of her life. These pearl strings cover now, when all are worn, the entire front of her bodice and hang far below her waist. The custom sets a premium on growing old. Still, if the fair Marguerite could have her will, doubtless she would gladly have the pearl chain diminish in length, and perhaps do without them altogether.

The opal promises to be another favorite jewel of the year, and is set even in engagement rings and the heart-shaped lockets so much fancied for betrothal souvenirs. Small diamonds invariably form the setting of the mystic stone, as they bring out its smouldering fire and exquisite tintings better than the glitter of gold.

Small diamonds will be much used again this winter in the hearts, lovers' knots, and bow-knots, fleur-de-lis, and other designs copied from the old French bits of jewelry. Marquise rings are beginning to wane in popularity, though they are still well sold in the shops, and are giving place to the old-fashioned round cluster rings in small and large stones.

Hair ornaments become more elaborate and showy. The pious of cut-work approach the size and importance of the old back combs.

**THE FAVORITE DESIGN**

is the bow-knot and double bow-knot, tied of gold ribbon and beautifully chased. Enameled flowers encrusted along the edges with jewels are also much worn in hair-pins.

Gold fillets are heavier and more richly chased and ornamented than those of last year. They are broader in the center and decidedly suggestive of coronets.

Diamond tiaras are of all varieties, from the single star or group of stars to the exact copy of the diadems belonging to the imperial families of Europe. Two tiaras are worn, one above the other, or one placed further back on the head, as forming a support of the coiffure.

A very pretty, simple little ornament is an aigrette of bird of Paradise feathers and fine gold wires strung with diamonds. So fine are these wires as to be practically invisible, and the jewels seem to be veritable dewdrops entangled in the airy feathers.

In entirely new designs this season is not prolific, being devoted rather to the perfecting and bringing out in new and more exquisite forms the bow-knots, hearts and fleur-de-lis introduced last season. Old French designs still dominate the revivals and reproductions from earlier periods as well as the novelties of the day.

**DUST, UPHOLSTERY AND DISEASE.**

Householders in furnishing would do well to remember that the ordinary practice of covering a floor with carpet is not without its disadvantages, even its dangers. The particles which give substance to the pure search-light of a sunbeam as it penetrates the window-pane are of the most varied character. Harmless as are very many of them, there are also many more possessed of a true morbid energy and capable of almost unlimited multiplication. Any one can see, therefore, how, when sheltered in dusty woolen hangings, chair upholstery and carpets, they render these articles veritable harbors of disease. The less we have of such the better, especially in bedrooms. Some practical deductions naturally suggest themselves.

As to curtains and carpets, it is but rational that they should, as a rule, consist of the smoother and finer fabrics which will bear frequent brushing. If thicker floor-cloths are to be used, they should be subjected to a regular arrangement that they be taken up and beaten. It is a common argument to say that the floor as possible should be polished or laid with oil-cloth, so as to be of frequent cleansing. Cane furniture, for a like reason, are incomparably superior to the richest upholsteries. To speak of general furniture observations, we treat this matter as a hobby. Only one circumstance, however, is required in order to prevent any such of

their real and practical significance, and that is the actual presence of infectious disease. When this appears, all forms of cumbersome comfort in the apartment must give place not merely to a freer and simpler arrangement, but even to bare, sunlit and airy desolation.—*London Lancet.*

**HOW TO POLISH A STOVE.**

"Women generally work twice as hard as necessary over blacking a stove," said a lady whom we found one day engaged in that unromantic occupation. She had on a pair of stout leather gloves, and was applying the blacking with the round part of a shoe-brush, which, she said, was lighter and therefore much more easily wielded than the usual stove-brush. The other side of the brush she used in polishing with



**MORNING SLEEVE.**

Tweed, ornamented with gilt buttons and rows of either gold cord or machine-stitching.

light, even strokes like an expert boot-black.

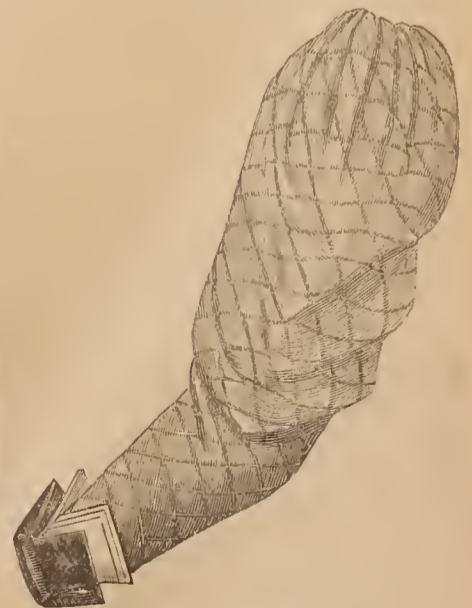
"I always keep soft paper bags from the groceries tucked in this box nailed up near the stove, and every day I slip two or three over my gloved hand and give it a rub; the consequence is that I only need apply polish once a week."

Another little thing worth remembering in regard to stove cleaning is to wipe the dust from the stove thoroughly before you apply any polish. There is always a right and a wrong way to do a thing, and the wrong way doubles the task.

**CLEANING WINDOWS.**

Cleaning windows is an important part of the work in the routine of housekeeping, and while it does not seem a difficult task to keep the glass clear and bright, it nevertheless requires a knowledge of what not to do.

Never wash windows when the sun is shining upon them, otherwise they will be cloudy and streaky from drying before they are well polished off; and never wash



**TARTAN SLEEVE.**

Scotch cheviot, enhanced with two gauntlet cuffs in dark plush and light-colored silk, edged with a double cording.

the outside of the window first, if you wish to save trouble. Dust the sash and glass and wash the window inside, using a little ammonia in the water, wipe with a cloth free from lint, and polish off with soft paper. For the corners, a small brush or pointed stick covered with one end of the cloth is useful. When you come to the glass outside, the defects remaining will be more closely seen. Wipe the panes as soon as possible after washing and rinsing, and polish with either chamois or soft paper. In rinsing, one may dash the water on the outside, or use a large sponge. It is preferable to a cloth.

Our Household.

"COMPANY IS COMING."

Bend your knees at worry's shrine  
In intense devotion;  
Set the house, from cellar to  
Attic, in commotion.

Cram the engine, get up steam,  
Set the wheels a humming;  
Make them whirl, and whirl, and whiz,  
"Company is coming."

Raise a dust in every room,  
Set the atoms flying;  
Scold the children, rout the cat  
In the corner lying.

Rap those restless baby hands  
On the window drumming;  
Every window must be clean;  
"Company is coming."

Leave no object in the house  
In condition normal,  
Make the very cradle look  
Prim, and stiff, and formal.

At the oven scorch your face,  
Have the stove just "booming,"  
"Fix up" something "good to eat,"  
"Company is coming."

Cram the engine, keep up steam,  
Keep the wheels a humming;  
Scrub, and scour, and bake, and stew;  
"Company is coming."

Labor till a "nervous" pulse  
In your head is drumming,  
Till you ache from head to foot;  
"Company is coming."

When your guests arrive, it will  
Make their pleasure double  
To perceive you've put yourself  
To a world of trouble.

Then, although you feel you've done  
More than you were able,  
Fail not to apologize  
For your house and table.

This is hospitality—  
That the wheels be humming,  
Rest and comfort banished, when  
"Company is coming."

—Good Housekeeping.

HOME TOPICS.

SALMON SALAD.—In answer to an inquiry for a recipe for salmon salad with cabbage or lettuce, I give the following: Pick out the bones and skin, and chop one can of salmon. Chop the same quantity of white cabbage or celery, or equal parts of each, and mix it with the salmon. When ready to serve, pour over a dressing made by the first recipe given in "Home Topics" of August 15th. Toss all together lightly with a wooden or silver fork, and serve. If you use lettuce, do not chop the salmon, but pick it into small flakes. Let the lettuce stand in cold water until ready to use, then pull it in pieces with the fingers, mix it with the salmon, pour the dressing over it and serve immediately.

DUTCH APPLE CAKE.—A German neighbor used to make a dish which received the above name. To one pint of flour add two teaspoonfuls of baking-powder, one half teaspoonful of salt; sift it and rub in a tablespoonful of butter; beat one egg and add it to a scant cupful of milk, and stir it into the prepared flour. Butter a deep pie-pan and spread the dough over it about half an inch thick. Pare, core and cut four good-sized, sour apples into eighths and lay them on the dough, sharp edge down, pressing the pieces into the dough a little. Sprinkle half a teaspoonful of sugar over the apples and bake until the apples are done. To be eaten warm with butter or cream.

CHOOSE THE BEST WAY.—Some one has said that American women can do anything, and consequently they try to do everything. If this is true, and it certainly is not far wrong, may we not find in it the cause of so many women fading at an early age and becoming invalids? Only a certain amount of vitality is given us for a certain time, and if the expenditure exceeds the income, failure must be the final result. Life is not long enough for any one to do everything. Something must be crowded out, and the sooner we decide what are the least important duties and what can be best spared from our lives, the better for our health and happiness. No doubt there will be a little struggle as we give up, one after another, the things we had hoped to do and see them drifting beyond our reach, yet if we choose wisely, and remember that "the life is more than meat, and the body more than raiment," we need not allow ourselves to regret the things that have been crowded out.

It is often not so much the work we do that tires us as the complication of duties

and cares and the thought that some must be left undone. One cannot choose for another, but each must solve for herself the question of simplifying living in order that more time may be given to the higher things of life. A constantly tired woman cannot be the best wife and mother. She is not able to give that ready sympathy and companionship which is the life of the home. It is possible to sacrifice too much to immaculate housekeeping, and the first years of housekeeping are the hardest, for the cares are new and untried; but of all the work that comes to us, is not the mother work the most important? If some things must be crowded out, let it not be that. It will avail little how we toil for the outer life of the home if the soul of the home life be wanting; if we let tenderness and sympathy be shut out or pushed aside by cares and tasks that minister only to the body.

MAIDA McL.

BAKED BEANS AND OTHER THINGS.

Do the readers of this paper all know how to bake beans? Now, don't laugh and say, "Well, who don't?" for I consider it no small matter to turn out a pot of beans just done to perfection, and really, they take more attention than almost anything else. But as there is said to be no excellence without great labor, we console ourselves when baking them, for the trouble they are is nothing to be compared to their excellence when done.

I pick over four pints of beans, wash them, and put them on to cook in an iron pot as soon after breakfast as I can. Then, when they have boiled until sufficiently tender (which may be told by taking some upon a spoon and blowing them; if just right, the skin will break and curl up), add the other things—salt, meat and molasses. Take a piece of side meat (fat and lean), about two pounds, wash clean and score the top, settle it well into the beans and add salt, for the meat will not salt them enough. Then add half a teacupful of molasses, stir thoroughly, and put in the oven, still in the iron pot; cover the beans with water and keep the pot covered with an iron griddle, to keep the top from baking too fast. Notice them every little while or they will get dry or too brown. When supper-time comes, if properly seasoned and baked, you will have a dish whose "savoriness" will smell "far at a distance," and whose only fault is that they are just too good for anything. If considered too hearty for supper, they can be set away for the morrow's dinner. I do not think a hearty supper of beans is the best thing in the world for children.

A dish that we are very fond of occasionally for breakfast is "fritters." Take two eggs, beat up well, two cupfuls of butter-milk or sour milk, a little salt, a scant teaspoonful of soda, and flour to make a batter stiff enough to drop off of a spoon. Have a skillet of hot lard, and drop in small spoonfuls and fry a light brown. They are so light they are just perfect puff-balls. Pile them in a deep dish and let them stand a few minutes before serving, when the little, thin crust will get soft and tender. They are splendid with butter and syrup or honey or jelly, or simply eaten with butter. For a change, I sometimes stir in oysters enough to have one or two in each fritter, and we like them very much.

I am going to give you mother's recipe for flour pancakes. I never knew any one to make as nice pancakes as she did, or to make them the same way. Take the yolks of two eggs and beat them up lightly; then add a pint of sweet milk and a little salt, with flour enough to make a smooth batter. Then beat the whites of the eggs to a stiff froth, and stir them as lightly as possible into the batter just before beginning baking them. As fast as they are cooked put them on a plate, covering them with a deep tin pan, so they can steam a few minutes. And such pancakes, so light and tender, and made without the aid of soda or baking-powder, either.

A pudding that is relished in our family we make with crackers, raisins and sweet milk. We like the small crackers best. Take a two-quart bowl, and put a layer of crackers in the bottom, about a cupful or two of raisins, and another layer of crackers, then a cupful of milk. It does not fill the pan too full. Pour the milk in the evening and pour off the water in the morning, and let stand over night if the milk is too warm; if so, I fix it in the morning before putting it in the oven. Beat the egg with sugar enough to make it sufficiently sweet, add a little butter, and pour off the water from the crackers have been soaking. Then add the sugar, egg,

etc., and then pour back in the pudding-pan. Bake slowly until the milk is thickened, but not curdled; good warm or cold.

A very simple pudding that our children like very much we call "duff." It is simply boiled milk, and flour added until it is thick, with salt, a little butter and raisins stirred in while cooking. The flour is best stirred up with a little cold milk, as it is impossible to get it free from lumps without. To be eaten with cream, sugar or nutmeg; good warm or cold.

The best way of preparing mustard that I ever found is this: Put one pint of vinegar on the stove to boil. Stir up with a little cold vinegar one tablespoonful of flour, two tablespoonfuls of ground mustard, one teaspoonful of salt and two of sugar and about one third of a teaspoonful of cayenne pepper; stir all together and add to the boiling vinegar. It may be too thin or too thick, but one or two trials will enable any one to tell when they have sufficient flour; but if too thick, add a little cold vinegar.

A. M. M.

CONVENIENT KITCHENS.

This season will probably see the completion of many a new farm-house. In making your plan, look first to the parlor? Not much. The kitchen demands the first and best, for here the loved wife and mother, in most cases, will spend one half of her time. I do not mean to have the kitchen on the front side of the house, for that would not only be silly, but very inconvenient, unless you turned the front yard into a garden, made a wood-pile at the front door, a hen-house in the street, etc.

You do not want a large kitchen, for a small one, with accompanying dining-room, is so much more pleasant. Have a dining-room if you cannot have a parlor. I do not see what two thirds of the farmers want a parlor for. It is not used, on an average, once a month. In the majority of cases it is a cold, perhaps musty, grand, shut-up room in the best corner of the house, and too nice to use. The money that went into the furnishing of that useless corner would buy many comforts and some luxuries that would make the rest of the house a most delightful resting-place.

Have a cozy, cheerful sitting-room, with good, substantial furniture—as good as you can afford—and use it every day, or in the evening, at least. Do you suppose John or Will or Bess or Kate will care about going to the neighbors' when they can have such a pleasant resting-place at home, especially if they can have music, games or books? The money for that parlor furniture will buy a good many of these things.

When the good man comes in from the hay-field, tired, warm and so hungry, does not the cool, pleasant dining-room look more inviting than the hot kitchen, be it ever so convenient?

In building a house, plan to have the kitchen at the north side, if it can be as convenient to the wood-house, garden and barn. There should be a wide porch outside the kitchen door, where the washing may be done in summer. Many other bits of work do not seem so tiresome if they can be done in the fresh air, sheltered from the sun's fierce rays. The cistern pump should be on the porch also, if it is not convenient to have it in the house at the kitchen sink. There should be double cupboards built into the wall between the dining-room and the kitchen for dishes, and the kitchen sink should stand as near this cupboard in the kitchen as possible, so as to make the least trouble in putting away dishes after washing them.

The pantry should open into both dining-room and kitchen if possible. There should be plenty of cupboard room in the kitchen for tins and cooking utensils, hand-towels, dish-towels, dish-rags, string boxes, and rags for bruised fingers or toes.

We have one remarkably convenient article in our kitchen. In many farm-houses a bath-room is not practicable on account of heating and the cost of water conveniences. Put the bath-tub in the kitchen by an outside wall, where the water is easily carried away, and have a bath-room that is always ready when the water is. One fire will light the water, which is quite an item to the farmer, his wood-lot rapidly emptying to the command of the cook-stove. Make a bath-tub of stout boards, hinged back, and with a hook on the front, fasten the cover up to the wall at the top while bathing. Make this fasten secure, for a knock on the head with a heavy cover would not be very pleasant, to say the least. When the water is down, you have a permanent wa-

that will hold three tubs side by side, if you get the largest size of bath-tub. It is a nice, long bench to cut out clothing on, too, for you can take a low rocking-chair and sit down by it. Lay a carriage-robe or two down on this cover, and if you can have a pillow handy, there will be a lounge that the tired wife can lie on and watch the dinner cooking. It may not be as soft as eider-down, but is very restful for a few minutes, just the same.

The kitchen plan I have in mind took the prize over sixty-three competitors in a recent prize contest, and I will send it to any one who cares for it. It was published in the *Ohio Farmer*, but there were some mistakes in the lettering which should be corrected.

GYPSY.

DESSERTS.

While ice is very generally put up for use in the farmer's household, yet there are localities where it is not always to be had, and the housekeepers are not able to have ices during the summer, and are quite at a loss for dainty, light desserts to take their place. Creams, blanc manges, charlotte russe and gelatine jellies will all be found excellent substitutes for ice-cream and sherbet, if set in a spring-house or hung in a cool well until chilled.

Blanc mange is so easily made, and the expense is so trifling, that it should come first in the list of convenient desserts. The Irish moss in its natural state, the moss farina, gelatine, corn-starch or arrow-root may all be used to convert the milk into blanc mange, which may be flavored with fresh fruit juices, extracts or chocolate. Even in the warmest weather blanc mange will thicken if put in a warm place.

Bavarian creams come next in the list of economical dainties, and are very nourishing, being a combination of cream, eggs, sugar and fruits.

Charlotte russe is also very delicious, but being more troublesome and expensive, is better suited for special occasions than every-day use, when the overworked mother is the cook.

Gelatine jellies are refreshing after a heavy meal of vegetables and meats, but do not possess any strengthening qualities.

To make blanc mange, put a quart of new milk in a saucepan; dissolve a tablespoonful of moss farina in a little cold milk and mix in; beat one egg and half a teacupful of sugar, add to the boiling milk. Flavor with lemon extract or any fruit juice in season, pour in a mold and set on ice to cool. Serve with cream sweetened and flavored. If corn-starch is used in place of moss farina, add three tablespoonfuls to a pint of milk, or half a box of gelatine to a quart of milk.

Bavarian cream may have any flavor desired. Dissolve half a box of gelatine in a little cold water and mix in a pint of milk; let boil, add half a cupful of sugar and the flavoring; take from the fire, pour in a tin pan, set on ice and stir until thick. Then add a pint of whipped cream, stir until well mixed, turn in a mold to harden. Serve with whipped cream flavored and sweetened. All fruits are excellent for flavoring Bavarian creams.

Charlotte russe may be made in several ways. The simplest recipe is the following: Line a cake-mold with thin slices of cake. Put one third of a box of gelatine in a pint of milk; set it where it will heat and dissolve. Make a rich custard (one quart) and add the gelatine; flavor, and set where it will be cool. When it begins to thicken stir in carefully a pint of whipped cream. Pour into the mold and set to cool. Egg meringue or whipped cream may be put on top of the charlotte russe when ready to serve.

ELIZA R. PARKER.

LOVE AND BEAUTY.

To a plain woman who is a wife, her want of beauty is almost always a grief. She fancies she might have secured a more perfect allegiance if she had worn the red and white of some fortunate woman; she pities her husband among other men, as if his wife may have gone, that his is meanness; she longs to fill his eyes with pleasure; she would be burned alive if she might rise from her ashes fair enough to like the reproach of her uncomeliness from him—fair enough to see his eyes follow her with rapture. She does not realize that it is herself that he loves, and in evanescent bloom or sparkle; that if she has not beauty he does not miss it; that his eyes now follow her with rapture rather and better sort; that fair or fond loves her, and if her eyes were crossed could not be so to him straightened, and far gone in the fairer.—*Harriet Prescott Spofford.*



WOMEN'S BRAIN POWER.

Sir James Crichton Browne's much-talked-of address on "Sex in Education" has called forth an answer from Dr. Elizabeth Garrett Anderson. The basis of the address, it will be remembered, was the assertion that women's brains are smaller, both absolutely and relatively, than men's; that is to say, if we allow for the difference in bodily size of the average woman and the average man, it will still be found that the woman's brain is the smaller. Mrs. Garrett Anderson accepts this assertion for the sake of argument. But it is worth while to point out that the evidence in support of the assertion is strangely inconclusive. For the average woman does not have her brain weighed at all. She dies comfortably in her own bed, and is duly buried with her skull intact. The women whose brains Dr. Crichton Browne and his predecessors in the profession have been able to weigh and examine, belong almost exclusively to the poorest class. They are women whom poverty has driven to die amid the cold comforts of workhouse or hospital, and whose friends, if they had any, are careless to claim their bodies. To generalize about all women and men from an examination of the brains of a few individuals belonging to this poorest and least intellectual of classes, seems to the lay mind distinctly unscientific.

Nor is that the only point in Dr. Crichton Browne's primary contention which we must answer not proved. There is further assumption that the power of the brain is necessarily proportional to the size of the brain. We may admit that this assumption sounds plausible; but that is the most that can be claimed for it. There is absolutely no proof that a small brain implies intellectual weakness. And, indeed, there can be no proof. In order to ascertain the intellectual strength of any individuals, it is necessary to observe them for a considerable part of a lifetime, and, above all, for that part of their lives when they are in the fullest health. But obviously it is impossible for a doctor to make a practice of watching his healthy neighbors in order to ascertain their brain power, and then the moment they are dead pounce upon their skulls to weigh the contents. In one famous case something analogous to this was done, with the most remarkable results. The brain of Sir Isaac Newton—who, as his epitaph tells, "in intellectual power surpassed the human race"—was weighed, and the scales showed that it was one of the lightest that had ever been found within a human skull. Consequently, when medical men complacently assert that women's brains are less than men's, and infer a proportional inferiority of intellect, the first answer is that neither the assertion nor the inference is supported by sufficient evidence.

Dr. Garrett Anderson, however, takes another line, and ingeniously suggests that if men's brains are bigger, it may be because women's brains are used less. This completely inverts the argument. Instead of asserting with Dr. Crichton Browne that women cannot do intellectual work because their brains are too small, we may equally well argue that women's brains are small because they do too little intellectual work. All this logic-chopping, however, is very little to the point. Let us be practical. The world is increasingly dependent on intellectual work; women are increasingly dependent on their own exertions to secure their maintenance. To deny to women the privilege to follow intellectual occupations is therefore to confine them more and more closely—those of them who remain unmarried—to the position of hewers of wood and drawers of water. Against this doom women born of intellectual fathers, brought up with clever brothers, will certainly revolt; and all men with a spark of chivalry will assist them in that revolt. It would be better, then, if learned physicians, instead of attempting to exclude women from every occupation that distinguishes human beings from beasts of burden, would try and discover under what conditions women and men may pursue intellectual work without danger to their bodies and dangers of excessive brain work. Baldness, defective eyesight, nervous irritability are among the obvious of them, and affect men at least as much as women. It would be a confession of weakness, a confession that our system of civilization was at fault, to say that dangers, and others more hidden, are inevitable. They can probably be avoided without the use of any elaborate elixir. Proper attention to the crucial questions of food, proper exercise in pure air, proper intermission of work at the first signs

strain—these precautions alone will probably be sufficient to preserve the fullest bodily health in conjunction with the hardest brain work. If more is needed, we must apply to our physicians for a charm. For we, as well as they, believe in bodily health and bodily beauty; and we will not allow the beauty, which the progress of the past has added to the human race, to be swept away in the progress of the future.

LOW-CASTE WOMEN OF INDIA. ELLA BARTLETT SIMMONS.

Did you ever see the picture representing "Division of Labor," as understood by some of the "Lords of Creation?" It consists of a man and a cigar carrying a stove-pipe, while the woman and babe carries the stove. Just such divisions as this occur among the lower castes of Hindoostan. Not literally, however, for should the stove require moving the husband and father would have naught whatever to do with it; the woman would be expected to do it all. For our first cousins in India are never bothered with putting up stove-pipes at house-cleaning time. In the first place they have no stove-pipes, and in the second, they never clean house.

What a paradise that would be for the American "Johns" who so dislike the semi-annual "topsy-turvy" period. The women not only move the stoves in the house and out at will, but make them also. They mold them of clay, forming depressions at the top into which the fuel is placed and over which the food is cooked. Should the room become too full of smoke the women can either go out of doors themselves or set the stove out.

After the frugal meal is prepared the man always eats first, while his wife stands behind him and waits upon him. He would consider himself everlastingly disgraced should he eat with her. And no greater insult could you offer him than to inquire of his lordship as to his "bibi's" health.

And she, modest creature, does not regard herself fit to take her husband's name upon her lips. In this she is like her high-caste sister.

The low-caste Hindoos live in various mohullahs. A mohullah is the name applied to a collection of mud huts, occupied by near relatives belonging to the lower castes. They are often built in long rows on either side of the street, although they are more often seen crowded together, with no regularity whatever.

These rooms—a room is a house—are very low, very rough and very insecure. During heavy rains whole villages are swept away.

Mohullah women work hard each day, at home or abroad, wherever their caste occupation leads them; hence, do not "observe purdah," and are often seen in the bazaars and upon the streets. They work in the fields, weave, spin, mold clay into drinking-vessels, sweep, carry water, bear heavy loads upon their heads, grind at the mill, and in fact do whatever the men do, or should do. No matter what their condition or health, they are expected to fulfill their daily tasks.

At different times we took some of our older Christian girls with us, to some of the outlying mohullahs, that they might act as interpreters and aid in the work. At one place a man gruffly said: "My wife can't attend your meeting; she must weave." "But," said I, "she has been working hard all morning and must work again this afternoon; cannot she rest a few moments now?" "No, she can't! She must weave!"

She had prepared breakfast, all of which he had eaten, then gone for miles to work in the field, returned home to cook dinner, after which she would again work in the field until dark, then return home. He had done nothing all morning; still he compelled her to weave at noon.

Asking the other women to gather around her door we sang and talked to them. Again and again would they call for a song or ask questions. A more interested audience could not be imagined. We thought we had seen women cruelly treated upon the plains, but we never truly realized how the men could be until we had spent some time on the Himalaya mountains, at a "birth" cottage, near Almora. The women were bought and sold like cattle. They do all the hard work, are clothed in rags, and scarcely get enough to eat—working from early morn till late at night in the most arduous labor. Very often they have one and the same sleeping arrangement with the cattle. Should a man be asked naught in regard to his position, in answer he will tell the amount

of land he owns, the number of cattle and wives.

Women are often sold for debt, or "thrown in" with a purchase of land. They have no time "to keep house," and as the lower story of the house is used for a stable you cannot wonder at the prevalence of cholera; for no refuse is ever cleared away, no garbage burned.

During the cholera plague the men are cared for as long as the women are able to do so; but they themselves, by the hundreds, are left alone to die uncared for. They are usually glad to die but for the fear which haunts them of returning again in the form of an impure animal or even another woman.

They can never hope to reach the land of perpetual rest or nothingness until they have been in this world in the form of a man. For this each woman offers oblations, sacrifices and prayers that the gods will turn the tide of their hatred and permit her to have her next birth in the form of a baby boy. The boys and men are loved of the gods while the girls and women are the result of vindictive spite-work on the part of demons. But a brighter day is dawning for India's enthralled women.

HOE-CAKE.

The FARM AND FIRESIDE is circulated in a large number of southern homes. I wish some of the kind sisters would tell me, through its columns, just how to make this old-time favorite on the old plantations. My husband came back from a southern tour a few years ago completely in love with hoe-cake. He told me how they told him it was made, and I have tried repeatedly to "fill the bill," but it is quite a failure so far. They break to pieces so badly when I try to turn them. Maybe they ought not to be turned. I hope some of the readers will be so kind as to give exactly the modus operandi of baking a genuine hoe-cake, if it can be done on a modern range. GYPSY.

EVERY LADY

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Our Sunday Afternoon.

THE BLESSED HOPE.

BY REV. H. PETTY.

"When Christ who is our life shall appear, then shall we also appear with him in glory."—Col. 3:3.

Oh, blessed day! Oh, happy hour!  
When Christ our life shall come,  
For then will all his ransomed ones  
Be gathered safely home.

Through much affliction, toil and pain,  
Through many doubts and fears,  
They now in hope wait for the time  
When Christ the Lord appears.

Then will their sleeping dust arise,  
Induced with life divine,  
Then, too, the living will be changed,  
And like the stars they'll shine,

Arrayed in robes of purest white,  
They with the Lord will walk,  
And with rejoicing hearts they'll sing,  
And of redemption talk.

High on the plains of heavenly light,  
Forever with the Lord,  
They'll dwell in mansions fair and bright,  
According to his word.

Oh, let us then press on while here,  
And keep in view the prize,  
For soon will break upon the ear,  
Hosannahs from the skies.  
Bay View, Va.

THE SAVING LIFE.

It is the life of Christ that saves, not his death. Christ's death was simply the means by which the saving quality of his life could become manifest to men. Just as, in the natural world, plant life is saved by seed death—the death of the seed being a necessary condition of the plant's development, but not the ultimate and essential thing, the life principle by which it grows—so, in the spiritual world, Christ's death was an antecedent necessity of man's salvation, but it is not in itself the ground of salvation. Men are not saved because Christ died; they are saved because he lives. His dying was merely the method of bringing the transcendent and divine and self-sacrificing quality of his life home to the minds and hearts of men.

Let us joyfully emphasize the thought that we are not saved by the crucifixion, but by the resurrection. It is not Christ slain, but Christ ascended, upon whom we should fix our eyes. Why dwell upon the merits of a fountain filled with dead blood, as of some slaughtered victim, when we have the grand, full, contemporaneous life itself, throbbing with that intense vitality, that life principle, of which the blood is but the symbol?

It takes the motive, the energy out of life, to believe that we are saved by Christ's death; that thereby Christ paid all our present obligations, as well as our original debt to God, and cleared us eternally of all liability incurred through sin. That would make the atonement a source of spiritual demoralization instead of a source of spiritual strength. It is our appropriation of the life of Christ that saves us. The giving of that life to men, as a spiritual force, as an enabling, uplifting example, is the atonement. We celebrate to-day a risen Christ; we celebrate life, not death. It is a conception which we should carry with us throughout the year. Salvation is vital union with the living Christ. Love is the bond of that union; and character, or obedience, is its outward expression.—*Zion's Herald.*

MY FATHER'S HOUSE.

A minister had noticed, among the most regular attendants at his church, an aged woman. On all occasions she was in her place—always in time, always attentive. He sought her out, and visited her, and great was his astonishment to find this poor woman so deaf as to be unable to hear a single word. By means of a slate he entered into conversation with her, and his first inquiry was, "Why, being too deaf to hear a word of the services, are you so regular in your attendance at the house of God?"

"Oh, sir," she replied, with the warm tears welling up from the aged eyes, "it is my Father's house, and I love to be there. He meets me in his own sanctuary, and I can, in spirit, join in the prayer and praise, though the words of others may not reach me; and as Jesus speaks to my soul, I hear the whispers of his love, though my outer ears are dead to all the sounds of earth. I love to be in the assembly of the saints, because they are the people of God, the children of my Father, and it is very pleasant to be in such good company, though I can

no longer converse with them. There is now very little left that I can do for the cause and kingdom of my redeemer besides trying to set a right example. My day for the active effort is past, and all I can now do is to seek to influence others by the power of a humble and earnest life. Even this will soon be over, and while the opportunity remains I would improve it for my master's glory. He did not in his last hour of deepest agony forget our poor sinners; and shall we weary of our lighter yoke, and throw it off before our last hour has come?"

What a powerful reproof was this aged woman's example to those who, with faculties still unimpaired and strength unabated by the infirmities of age, yet absent themselves from God's house.—*American Messenger.*

TO AN UNKNOWN.

You are melancholy; and you are brooding over your own distemper, and so aggravating it. Neither prayer nor meditation will cure it. The difficulty is that you are self-centered. Every self-centered person must be either self-conceited or melancholy. Every man is but a sorry object for self-contemplation. You are constructing your life on the Ptolemaic theory; you are making everything revolve around yourself. The glow-worm and the firefly live in the light they produce themselves, and they are poor creatures. Phosphorescence never lasts long.

Walk in the light of God—that is, in the light which comes from God. The remedy for melancholy is to become God-centered. You are unhappy! What of it? There is only one question: Are you useful? No? Then become useful. Set yourself, not to being happy, but to doing other people good. Forget yourself; think of others. "Happiness is got by being forgot," Still, do not forget happiness in order to get it. Simply forget it. Live for others, not for yourself. It is of small consequence whether you are happy or not. It is of much consequence whether you are of service in the world. Love is the cure for melancholy.

"Look up, not down; out, not in; forward, not backward; and lend a hand."—*Christian Union.*

THE DRAWN SWORD.

Joshua was on the eve of taking Jericho. He was a valiant man, but he needed encouragement. At this juncture there was given unto him a remarkable vision. As he lifted up his eyes and looked, behold, there stood a man over against him with his sword drawn in his hand. Joshua heroically said, "Art thou for us or for our adversaries?" He desired to know the character and the purpose of this strange personage. The answer was, "Nay, but as captain of the host of the Lord am I now come." Recognizing the divine character of his visitant, "he fell on his face to the earth, and did worship, and said unto him, 'What saith my Lord unto his servant?'" He was on waiting orders, eager to obey his superior. Then he was instructed: "Loose thy shoe from off thy foot; for the place whereon thou standest is holy." And Joshua did so. Then came his instructions for the taking of Jericho, an unparalleled style of warfare, but sublimely effective. On the seventh day the walls fell down, and Israel was victorious.

Beloved, we need to learn that "the Lord is a man of war," in full battle array. Had we not better let him fight our battles? That is the surest way to victory. His style of warfare may be very peculiar, taxing to our faith, but in due time the city will be taken and the shout of conquest be heard.—*Christian Standard.*

THE MASTER CARRIES THE KEY.

The mind of a pious workman, named Thierney, was much occupied with the ways of God, which appeared to him full of inscrutable mysteries. The two questions, "How?" and "Why?" were constantly in his thoughts, whether he considered his own life, or the dispensations of Providence in the government of the world. One day, in visiting a ribbon manufactory, his attention was attracted by an extraordinary piece of machinery. Countless wheels and thousands of threads were twirling in all directions; he could understand nothing of its movements. He was informed, however, that all this motion was connected with the center, where there was a chest which was kept shut. Anxious to understand the principle of the machine, he asked permission to see the interior. "The master has the key," was the reply. The words were like a flash of light. Here was the

answer to all the perplexed thoughts. Yes; the Master has the key. He governs and directs all. It is enough. What need I know more? "He hath also established them forever and ever; he hath made a decree which shall not pass."—*Christian Witness.*

"I'VE DONE REFUSIN'."

These were the words of an aged Christian who had been unexpectedly asked by his pastor to lead the special meeting for the evening. In commencing the service he stated that he had not expected to take charge of the meeting, and so was unprepared to make remarks on the topic before them. "But," said he, "I have made up my mind that when I am asked to do anything (that is, in Christian work) by one whom I have confidence in, if he thinks that it is my duty, even if I do not feel that I am prepared, I will try to do it. I've done refusin'." No better opening for the prayer meeting that night was needed. What better key-note could be found? What a difference would be made at once in our social meetings and every branch of church work if only each professing Christian could say, "I've done refusin'?"—*Scl.*

GOOD BALLAST.

Philip Henry says: "There are three things which make good ballast for a Christian—knowledge, grace and experience. Knowledge, sanctified knowledge, to bal-

last the head; grace, to ballast the heart and experience. Treasure up your experiences—what manifestations from God, what temptations, what victories over them; what sweetness in Christ. The remembrance of these may be of use."

The first of the three named is important—knowledge. The Christian should be intelligent, and to this end he should be increasing his store of knowledge continually, by availing himself of the facilities afforded. He should, in fact, be a student of nature, of men, and of books, those that will elevate and be helpful. The second specified is grace. This he should have in plenty. The fountain is inexhaustible. The third is experience, which is a great teacher in the things of God.

Let these three be combined in due proportions, in any Christian life, and the results will be glorious—producing an even, steady course, with a hopeful look toward the eternal.—*Standard.*

DESIRE AND CHOICE.

Have you ever noticed what a profusion of apple blossoms, there are every spring and how few apples there are that come from them? There are a million blossoms to a bushel of apples. Just so it is with desires and choices. Men have a million of desires to a bushel of choices. Among all the multitudes of desires that men have, there is only here and there one that amounts to a choice.—*Beecher.*

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**EVERY LADY**  
Who sends us 25 CENTS for postage, etc., and the names and addresses of ten lady friends who love to read, will receive THE YOUNG LADIES' BAZAR, a large 16-page monthly full of Beautiful Pictures, Charming Stories, Fashion Notes, Household Hints and Fancy Work, etc. ONE YEAR FREE. Only new subscribers are entitled to this offer, and we only make it because we want 50,000 New Subscribers. Same size as \$3 story and fashion papers. Send at once as this is the best, cheapest and prettiest FAMILY & FASHION JOURNAL published. For 5 cents extra 60 cents in all we will send you postpaid OUR NEW ELEGANT FASHION CATALOGUE of Paper Patterns containing 40 pages and 1300 illustrations of over 750 different styles of ladies', misses' and children's garments, amount of material necessary to make same, how to make money in dressmaking, etc. Every housewife and dressmaker who has used this reliable fashion book is delighted with it. Address YOUNG LADIES' BAZAR, La Salle Street, Chicago, Ill. Mention this paper.

## Gleanings.

### OVER AND OVER AGAIN.

Over and over again  
My duties wait for me;  
They ever come in monotonous round—  
Breakfast and dinner and tea,  
Smoothing the snow-white clothes,  
Sweeping and dusting with care.  
There is ever some task in my little home  
To brighten it everywhere.  
What may I claim for my duty's fee?  
Are these endless rounds of tasks to be  
Naught but a dull monotony,  
Over and over again?

Over and over again  
The sun sinks low in the west,  
And always over and over again  
The birds come back to the nest.  
The robin sings to his loving mate,  
Close, close to my cottage door,  
The same glad song I have heard him sing  
For many a day before.  
And the robin says to me:  
If the heart is tuned to love's glad key,  
No task can be dull monotony,  
Though over and over again.

### PHOTOGRAPHING LIGHTNING.

EVERY month, almost every day, the photographic camera develops new marvels. The stars and planets, nay, even the filmy nebulae, are photographed nightly, and it is known that celestial objects which the human eye, aided by the most powerful instruments, fails to detect, are depicted upon the sensitive plate. Objects sunk so deep in space that light, traveling at the amazing speed of 12,000,000 miles a minute, only brings a message from them after centuries, reveal their shapes to the all-seeing camera.

The instantaneous plate is a great disenchanter, as well as a great discoverer. It shows us the noble, bounding steed gathered into a most ungraceful lump with his feet tucked under him and his body drawn into a curious curve. Even the young girl, "whose motion is a song," is depicted upon the ungallant instantaneous plate with one foot raised, bent sidewise, balancing herself with a hand, as if she were about to fall over. Fortunate it is, no doubt, that we are given only human, and not camera sight.

Among the achievements of recent photography is the catching of the lightning flash and depicting it during its progress. Strangely enough, though we have always thought and spoken of "jagged lightning," the camera shows us that there is no such thing in existence. The angles are not sharp, but wide and curved, the branches are blunt-ended, and as they plunge downward, seem like narrow ribbons with their forward projection shaped like the blade of a table-knife. More marvelous yet, the camera has shown us black lightning; that is, electrical discharges which, so far from making a dazzling glare, mark their passage by a dead-black ribbon or line. Science has not yet explained what the camera has submitted to it.

### LONG HAIR AND GENIUS.

Long hair was in vogue among musicians and artists long after it ceased to be worn by the rest of mankind. The long-haired artist, with his velvet coat, his sombrero and his mysterious cloak, has altogether disappeared, and lengthy locks only linger nowadays, with a few exceptions, on the head of the musician. Indeed, this luxuriant thatch would appear to exercise a potent influence on audiences, for it is said that in the agreement of a notable pianist about to go on a foreign tour there is a special clause that he shall not have his hair cut. This possibly is an invention, but it is an extraordinary thing that musicians are well nigh the only people left who give but limited employment to the shears of the barber. It is also a fact that their hair flourishes better than most people.

I have recently heard a theory that the great prevalence of baldness in the present day is entirely due to the constant close cropping which has existed for the last five and twenty years. If you look at the portraits of celebrities of thirty or forty years ago, you will be perfectly astonished at the carefully-arranged coiffure which meandered over their coat collars, and you inclined to begin singing, "Get yer cut," without further delay. You also be amazed to learn that most of them retained this extraordinary growth to the end of their days. It is sincerely to be hoped that the theory which has recently started will not be the means of the introduction of a race of long-haired men.

### HOW TO CARVE A TURKEY.

The gentleman who does the carving firmly takes the carving-knife in his right hand, then takes up the steel and sharpens the knife a little thereon; then, with the left hand, takes the fork and inserts it in the breast of the turkey, one tine on each side of the breast-bone, just about where the highest point is. With the turkey on its back, with the fork well in the bird, with the head of the turkey towards his left hand—without any fussing, spattering, haggling or sawing—he cuts off the first joint of the wing furthest from him. Then he cuts away the second joint, giving him fair sweep with the knife, when comes the work of shaving from the breast.

After the wing is cut and carved, with a nice, dexterous movement he cuts the first joint of the leg, letting the drum-stick fall neatly down upon the side of the platter; then he shaves off three or four slices from the second joint, that there may be enough dark meat to go around. Then he cuts the second joint out, all in a nice, artistic manner, being careful not to take out the fork or loosen his hold thereon.

After he has taken off the wings and the legs and duly carved them, he lifts the turkey, changes ends with it, and serves the other side in the same way, taking care not to spatter the gravy or flip the dressing all over the table and into the laps of the guests. After the limbs have been cut away, in thin slices he shaves the breast down, with the point of the knife carving out all those tid-bits which people of good taste generally like. Then he cuts into the dressing, and, if he pleases, follows up the work of dissecting without having taken the fork from the breast-bone, till the bird is completely disjointed. In order to do this well, he must have a steady hand, a sharp knife—one with a stiff back preferred. The point wants to be keen and substantial. He must do the work quickly—in less time than has been occupied in writing this much of this article.

Then he asks the first lady on his right what part of the turkey she prefers; if she will have it with or without dressing, gravy, etc. When she is helped, he asks the first lady on his left and helps her; then the second lady on his right, then the second lady on his left, and so on to the foot of the table. He then helps the gentlemen in the same manner, assisting his wife (if he has one), who should be seated at the foot of the table, last of all, except himself.

Never cut a turkey, or meat of any kind, in chunks; always cut it in slices. Never undertake to carve with a case-knife, or a dull knife, or one limber like a piece of tin, for such a performance will only secure for you the name of a "botch," and for your guests any quantity of grease spots and just cause for complaint.

### A HORSE WITH A TUBE IN ITS NECK.

For half an hour one afternoon recently a crowd surrounded a truck which had halted in front of the Exchange Place door of the Mills building. Attached to the truck was a horse, and there was a peculiarity in the animal's appearance which had caused the crowd to gather.

The horse was doing its breathing, not through its nostrils, but through a tube inserted in its neck. The contrivance looked very much like an old-fashioned candlestick with the base and an inch or two of the shank showing. In the tube was a sort of a filter, to catch impurities in the air which passed through it, and the arrangement appeared to work very satisfactorily.

The driver explained that tracheotomy had been resorted to to save the life of the horse, which had suffered from asthma. The tube had been in use for several months, and the horse appeared to be as well as ever. It was certainly able to do its full share of work. Every two or three days the tube was taken out and cleaned, but the horse had it in its neck the rest of the time.—*New York Times*.

### HOW TO DETECT ADULTERANTS IN COFFEE.

There are a number of substances used in the adulteration of coffee, but those most in use are cereal grains and chicory. It is not difficult to detect the cereals. They can be discovered microscopically, and as starch, they will readily reveal themselves by chemical tests. The presence of starch may be sought by adding first a drop of potassium iodide and then a weak chlorine-water to a cupful of coffee which has cooled. If a blue color is developed, starch is there, and the coffee is adulterated with cereals. Chicory may be detected by its glucose,

which is found in both coffee and chicory in the raw state. After roasting the chicory still retains the glucose, but the coffee does not. The test for glucose is not easily made except in the laboratory, but there is an important characteristic of chicory which can be made use of by any one to detect its presence. This characteristic is the rapidity with which it colors cold water. Coffee colors cold water very slowly and not nearly so darkly as chicory does. A pinch of coffee sprinkled on the surface of cold water will barely color it, even after a long time; but a pinch of coffee containing chicory will, under the same circumstances, send down dark streaks from each fragment of chicory, and will soon give a decided color to a glassful of water.

### CLEVER DOGS.

Notwithstanding the doubtful statement of Leibnitz that he heard a shepherd's dog utter no fewer than thirty words, it may be asserted that no quadruped has been taught to talk any language spoken by man. Certain learned dogs have been taught a kind of speech, but this consists merely of differentiated tones of the bark. Professor Beneden, of the University of Louvain, had a dog which could accompany with his voice a tolerably complicated air played on the piano. Another dog belonging to a different man could sing in unison an air of "La Favorita," when a contralto friend gave him the key-note.

Sir John Lubbock has succeeded in training his dog to distinguish a card with "water" on it, if he wants water, one with "food," if he wants food, and so on. The dog soon learned to distinguish the blank from the written one; then he learned to attach an idea to some of the letters, and was finally able to fetch to his master the card which corresponded to his wish. To get a single meal he had to fetch some eighteen or twenty of these cards. He made no mistakes.

It may further be interesting to note that Josephus thought that several of the lower animals could speak before the fall, and to this day many of the natives of South Africa believe that the baboons can talk.—*Atlanta Constitution*.

### ENVELOPE FLAPS.

Only a circular; into the waste-basket it goes. But wait a moment; that circular is in an unsealed envelope; probably another is inside. Cut the gummed flaps, neatly from both envelopes, and place them in a small box or drawer. Their uses are numerous. You wish to label your jelly. Use one of these flaps, writing the name upon it, and moistening the gum and sticking on your glass. No hunting for the mucilage bottle, so no time is wasted. A paper is to be mailed, and you are out of wrappers. Wrap it in a piece of brown paper and secure the ends with one of these flaps. A coin is to be sent by mail. Lay a flap on the table, with the coin in the center; double the ungummed part over the coin, then the two ends, cut a little slit on each side, so as to form a tiny flap, and paste it down; your coin will be secure.

### SOME ANCIENT INDUSTRIES.

Wickerwork, demanding strength of muscle, skill in construction, and marked touches of beauty in the details of finishing, was a business of great moment in the past ages in Britain; to it the artisans of the period gave earnest thought.

The dwellings of their monarchs, their so-called palaces, were planned and ably completed by the wickerwork builders, and to them was given the fashioning of warrior's shields and the construction of war boats and canoes; and here another industry was brought into requisition—the preparation of the skins of animals essential for the covering of these small ships, for everything must be taut and trim, ready to battle with ocean waves.

### NATURE OF THE HUMAN VOICE.

In a collection of the human voice, one appears to be a perfect copy of the other, lined with green and upon another is inscribed as if the hand of Raphael had written it. These stones are transparent and have the appearance of human skin. They are nature's own work.

Don't run the risk of getting well into a condition of some of your years of trouble. Better at once with the help of Dr. Ives' Sore Lungs and Throat.

**MAGIC LANTERNS**  
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Many a life has been lost because of the taste of cod-liver oil.  
If Scott's Emulsion did nothing more than take that taste away, it would save the lives of some at least of those that put off too long the means of recovery.

It does more. It is half-digested already. It slips through the stomach as if by stealth. It goes to make strength when cod-liver oil would be a burden.

SCOTT & BOWNE, Chemists, 132 South 5th Avenue, New York.  
Your druggist keeps Scott's Emulsion of cod-liver oil—all druggists everywhere do. \$1.

**LOVELY FACES, WHITE HANDS.**  
Nothing will WHITEN and CLEAR the skin so quickly as  
**Derma-Royale**

The new discovery for dissolving and removing discolorations from the cuticle, and bleaching and brightening the complexion. In experimenting in the laundry with a new bleach for fine fabrics it was discovered that all spots, freckles, tan, and other discolorations were quickly removed from the hands and arms without the slightest injury to the skin. The discovery was submitted to experienced Dermatologists and Physicians who prepared for us the formula of the marvelous Derma-Royale. THERE NEVER WAS ANYTHING LIKE IT. It is perfectly harmless and so simple a child can use it. Apply at night—the improvement apparent after a single application will surprise and delight you. It quickly dissolves and removes the worst forms of moth-patches, brown or liver spots, freckles, blackheads, blotches, sallowness, redness, tan and every discoloration of the cuticle. One bottle completely removes and cures the most aggravated case and thoroughly clears, whitens and beautifies the complexion. It has never failed—IT CANNOT FAIL. It is highly recommended by Physicians and its sure results warrant us in offering

**\$500 REWARD.**—To assure the public of its merits we agree to forfeit Five Hundred Dollars CASH, for any case of moth-patches, brown spots, liver spots, blackheads, ugly or muddy skin, unnatural redness, freckles, tan or any other cutaneous discolorations, (excepting birth marks, scars, and those of a scrofulous or kindred nature) that Derma-Royale will not quickly remove and cure. We also agree to forfeit Five Hundred Dollars to any person whose skin can be injured in the slightest possible manner, or to anyone whose complexion (no matter in how bad condition it may be), will not be cleared, whitened, improved and beautified by the use of Derma-Royale.

Put up in elegant style in large eight-ounce bottles.  
Price, \$1.00. EVERY BOTTLE GUARANTEED.

Derma-Royale sent to any address, safely packed and securely sealed from observation, safe delivery guaranteed, on receipt of price, \$1.00 per bottle. Send money by registered letter or money order with your full post-office address written plainly; be sure to give your County, and mention this paper.

Correspondence sacredly private. Postage stamps received the same as cash.

**AGENTS WANTED** Send for Terms on Sight \$10 A DAY.

Address **THE DERMA-ROYALE COMPANY,**  
Corner Baker and Vine Streets, CINCINNATI, OHIO.

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Publishers, Patentees, Manufacturers, etc., are daily requesting us to supply the addresses of reliable circular distributors, bill posters, etc. Brunn's success is marvelous, and will open up in 200,000 AGENTS' HERALDS next issue, to be mailed to business men, new, profitable and permanent employment to one man, woman or youth in every town and hamlet in the U. S. and Canada. "The early bird catches the worm." We want a few such ads. as Brunn's (sample below) to start with in this month's MAMMOTH editions of AGENTS' HERALD.

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Brunn paid \$2.40 to insert above 4 lines, June '90. He began during the summer. That ad paid then, is paying yet. He has been kept constantly busy, employs three men to assist him, clearing on their labor from \$10 to \$15 a day distributing circulars at \$3.00 per 1000 for many firms, who saw his ad. in THE HERALD. It costs every firm at least \$10 in postage alone to mail 1000 circulars. A saving to each firm who employs you of \$7 per 1000. Ten firms may each send you 1000 at the same time, making 1000 packages of 10 each, for distributing which you would promptly receive \$30, \$15 in advance and \$15 when work is done. Parents make your boys a present. Start them in this growing business. Begin this neat business before some one in your county gets the start of you. "Come in on the ground floor." Instructions How to Conduct the Business Free, to each distributor ONLY, who sends us \$2.40 cash or postage stamps for a 4 line "ad."

**AGENTS' HERALD,**  
No. 2 S. 5th Street, Philadelphia, Pa.

Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several papers.

Farm Cleanings.

AN OVERLOOKED ITEM OF EXPENSE.

The WAGON transportation of farm products is a greater item of expense than their transportation by other means. It costs more to carry products from the farm to the railway station or steamboat landing than their transportation costs thereafter.

There are no statistics of the distance agricultural products are conveyed by wagon, or the cost of such transportation. In some states farm products must be hauled by wagon 20 and even 30 miles, and even in Illinois, which has a greater railway mileage than any other state in the Union, there are three counties that have not a mile of railway within their borders.

A very large part of our agricultural products, grains, as well as meats—perhaps more than one half of our perishable vegetables, small fruits, poultry and dairy products—are brought to the consumer solely by wagon.

The great magnitude and importance of wagon transportation is not generally comprehended. Farmers have not realized that to get farm products to railway or vessel costs more than all their after transportation, and hence are often indifferent to the means of wagon transportation, being content with miserable highways.

More money is lost by feeding pigs too long than by selling too early. As soon as they are in good condition it is a pretty safe plan to let them go, if the market is at all suitable.

If one has a good colt to turn off occasionally, the sum received will go far toward paying the incidental expenses of the farm, while the cost of raising it will not be greatly felt.

ADVICE ABOUT FACTORIES.

Some time since a very influential sugar-trade journal of New York printed the following advice to those who contemplated beet-sugar manufacture in this country: "Abandon the building of \$500,000 refineries to manufacture white sugar three months of the year. Build \$25,000 neighborhood factories to turn beet roots into the lowest grades of raw sugars that will secure government bounty. Let the farmers who raise beets be stockholders in the factory."

In many previous issues we have pointed out the mistake of manufacturing sugar upon a small scale. The well-intended advice of our contemporary, if followed, would lead to the ruin of all interested. There does not exist a single sugar factory in continental Europe that pays expenses with a capital as small as above advocated.

THE NUMBER OF COWS NEEDED.

It is said that 600 cows are needed to start a creamery, but if you can get one half of that number, and see 500 more within a reasonable distance, and can get a good butter-maker, the chances are that very soon there will be 800 cows furnishing milk, for the few that stay out will be more than compensated for by the additions to the herds of those who come in.

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FOREIGN TRADE IN AGRICULTURAL PRODUCTS, 1892.

From the preliminary returns of the Bureau of statistics of the treasury department, it appears that the foreign trade of the United States during the year ended June 30, 1892, aggregated \$1,857,679,603, exceeding the largest trade in any previous year by more than \$128,000,000.

Grouping the items of our domestic exports according to their origin, it appears that farm products furnished 78.1 per cent of the total trade, in value aggregating \$793,717,679. This exceeds by more than \$150,000,000 the value of our shipments of agricultural products in any single previous year, and surpasses the record of 1889 by more than \$260,000,000.

The heaviest increase in foreign shipments is the items of breadstuffs. A combination of favoring conditions made this trade in 1892 the greatest ever recorded. Partial crop failure in Europe caused an extraordinary demand, which exceedingly heavy crops at home enabled us to meet. The past year was the fifth in the history of our export trade in which the shipments of breadstuffs exceeded the value of our shipments of cotton, and in but one year, 1890, when crop conditions similar to those of last year at home and abroad prevailed, has the excess of value in favor of breadstuffs been greater.

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Our Miscellany.

THE COUNTRY'S SAFE.

If you don't think the country's safe, jes' take a look around, When the melon-vines are runnin' an' a-coverin' up the ground; Where the cotton-bolls are hendin', with their fleecy clouds o' white, An' the tall corn a-rustlin' of its blades from left to right!

SOME of the people who think the door of heaven ought to open wide enough to let in everybody are now among the most anxious that folks with the cholera shall be kept out of the country.

THERE are forty-four states, and in thirty-seven of these the native-born American electors constitute a majority of the voting population. In four, foreign-born naturalized voters predominate; in three, the negro population is in excess of the native white voters.

SOME one has estimated that 22 acres of land is needed to sustain a man on flesh, while that amount sown to wheat will feed 42 persons; sowed to oats, 88 persons; to potatoes, Indian corn and rice, 176 persons, and planted with the bread-fruit tree, over 6,000 people could be fed.

SECRETARY RUSK says that in 1880 our 5,000,000 farms were worth \$10,000,000,000 and produced crops to the amount of \$4,000,000,000, having stock on them worth \$1,500,000,000. By statistics at the department now, the stock is worth nearly twice that amount. Better beef is sold now at two years old than was then at four years old, thus doubling the productive capacity as it has been or may be doubled in many other products.

IN countries where the price of pineapples is much higher than here, the fruit is appreciated at something nearer its true merit. Pineapple juice has medicinal properties of the highest order. In throat diseases and even in diphtheria it has seldom failed to give relief; and as an antiseptic it is invaluable. The unpleasant taste victims of indigestion experience on rising in the morning can be got rid of by the persistent use of this remedy and as it goes at once to the root of the trouble and removes the cause, the cure is a permanent one. Any dyspeptic who has not tried the pineapple should lose no time in taking the advice of one who has.

THE REV. DR. B., a well-known clergyman gives an amusing history of his first marriage, says the Youth's Companion. He was set over a country parish, and had his study at a boarding-house. One evening a young man and woman, genuine specimens of the rustlers, called at the house and asked him marry them. I performed the ceremony, and, according to custom, was about to kiss the bride, who was really quite a beauty, when the groom stopped me.

"No you don't, mister," he said, very good-naturedly, "I'll attend to that myself." I smiled and yielded the point, and as the couple started out, followed to the front door. There the groom invited me to the wagon, where he had something for me. He helped the bride in, got in himself beside her, and reaching down behind him, lifted out a sack of potatoes and handed it over to me. I thanked him and was about turning away. Just then the groom looked proudly at the girl and then at me. "Ain't she a beauty, mister?" said he. "Very handsome," I admitted. "Nothin' purtier in the country, eh?" he asked. "Not that I have seen." "Air you married?" he inquired kindly. "I am sorry to say I am not." "Nothin' like this in the house, eh?" and he chuckled the blushing bride under the chin. "No, I'm all alone." The groom must have detected a note of sadness in my voice, for he looked at me commiseratingly. "Look here, mister," he said, "I'll tell you what I'll do. If you'll give me back them 'taters and half a dollar to boot, I'll be blamed if you can't kiss the bride." Of course, I couldn't be so ungallant as to refuse the offer, if, indeed, it would be safe to do so, and handing over the potatoes and the only half dollar I had, I saluted the bride.

LIEUT. PEARY'S SUCCESS.

Among the most brilliantly successful in the line of distinguished Arctic explorers is Lieut. Peary, whose return last week from the adventurous tour on which he set out in the spring of '91, has rejoiced the entire nation. "The hero is he who dares more than other men; but if he fail shall we stone him?" questions a German writer. And so the true heroes of Arctic researches have not all been successful; the failures of some of the bravest men were perhaps necessary steps for success to follow, but, moralizing aside, Lieut. Peary has "arrived," and congratulations may well go forth to him and his courageous wife, who has shared all his hardships and now shares his triumphs. In the middle of last April Lieut. and Mrs. Peary, with their native driver, started on a sledge drawn by thirteen dogs to make the tour of the shore and islands of Whale sound and Inglefield gulf. They traveled in this way two hundred and fifty miles, making about twenty-three miles a day, discovering a dozen new glaciers, three peaks and the sculptured cliffs of Karnak.

In July the entire expedition—of seven—reached a great bay (latitude 81°, longitude 24°), which the intrepid explorer named Independence bay. The land there he found red and brown in color, covered with glacial debris and almost free from snow. There were even flowers there and insects. The animals were foxes, hares and musk oxen.

It was on July 9th that they started to return, and for seven days struggled through soft snow eight thousand feet above the sea-level. Of this strangely picturesque journey, fairly in the clouds, and encompassed by a mysterious grandeur, Lieut. Peary says: "On the last day, as I came over the summit of the great ice dome, lying between the border of the true inland ice and the head of the bay, I saw moving figures a mile or two on the next ice dome. From that party burst forth almost instantly a cheer, and it was not long before I was clasping hands with Prof. Heilprin and his men, who were out on a reconnaissance preparatory to going in toward Humboldt glacier to meet me."

The cost of this expedition has been but a fraction of that of previous ones, and the results are of signal service to geology and ethnology. Lieut. Peary reached the extreme northern limit of the ice cap, and has supplied new data for maps and soundings. It will go on record as one of the most brilliantly satisfactory of all the Arctic explorations.—American Cultivator.

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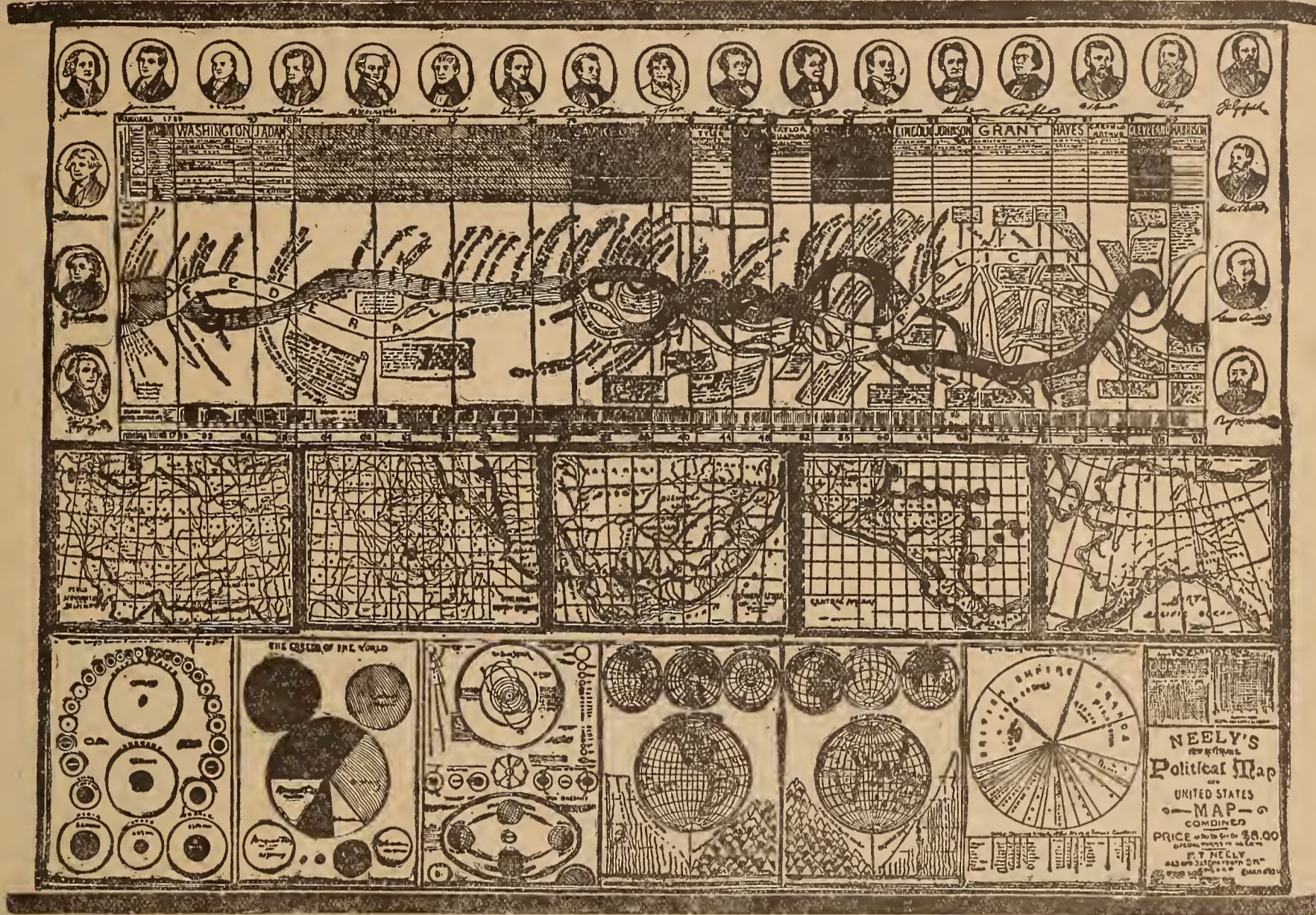
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# FARM AND FIRESIDE



EASTERN EDITION.

VOL. XVI. NO. 3.

PHILADELPHIA, PA., and SPRINGFIELD, OHIO, NOVEMBER 1, 1892.

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Journal in the World.

## Current Comment.

THE White House is draped in mourning. The nation is in profound sorrow. The people unite in heartfelt sympathy with the president and in doing honor to the memory of his noble wife. Gladly would the president have exchanged all the high and deserved honors given him by his countrymen for the continued life and loving companionship of the noble woman who made for him the happiest of homes. Mrs. Harrison represented the supreme type of American womanhood.

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Whether the wife, the mother, or the friend;  
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The nation will ever revere her memory.

THE historical era to which belongs the invention of the printing-press closed with the remarkable development of maritime enterprise that made three great voyages—the discovery of America by Columbus, the doubling of Cape Good Hope by De Gama and the circumnavigation of the globe by Magellan. In that era lies the great meridian line of modern history where the old day ends and the new day begins. At that line begins not only the history of the New World, but a new history of the Old World. The history of the last four centuries records more of the progress of man than was made in twenty centuries on the other side of that meridian.

The New World history records first the destruction by the Spaniard of two civilizations superior, in some respects, to his own—the Mexican and the Peruvian. Against this dark background stands the record of the birth, youth and early manhood of a civilization founded on the equality of men and the inalienable rights of the individual to life, liberty and the pursuit of happiness. The Latin razed; the Anglo-Saxon builded. And he builded wiser and better than he knew. The citizens of the great republic enjoy the blessings of the best and strongest civilization ever established, and the whole world is benefited by it. For this civilization Columbus made the opportunity. And it was fitting that the quadro-centennial celebrations given last month in honor of the great discoverer surpassed all celebrations of the past.

More people witnessed and took part in the Columbian celebrations given all over the land than were ever before known to attend anything of the kind. As to the

principal celebration, that of Chicago, "history cannot parallel a fellow to it." In a greater degree than the Columbian celebrations have surpassed all others will the world's Columbian exposition surpass all former expositions. The opportunity will not be neglected. The interest manifested by the citizens of the country and the representatives of nearly all the foreign nations in the celebrations of the anniversary of discovery-day, and in the dedication of the exposition buildings, is a forerunner of the success of the fair.

One of the most commendable features of the Columbian celebrations was the prominent part taken in them by school children.

The American school children of this generation have certainly had the story of Columbus impressed on them with an object lesson they can never forget. It was a lesson in patriotism, the value of which cannot now be estimated. There was much in the lesson to foster the love of the country, which angurs well for the future safety of the republic. To these children will soon be handed down the inheritance of the fathers. The country will soon be theirs to govern and to guide towards its destiny.

THE most remarkable feature of this presidential campaign is its freedom from excitement and tumult. No presidential campaign in recent times has been as quiet and has interfered so little with the business of the country. And, by the way, the business of the country was never in better shape. It is on the solid bed-rock of general prosperity, not overcast by a single cloud in the commercial sky. Although the population has increased nearly thirty per cent in ten years, and there has been a corresponding growth in the amount of business done, the liabilities involved in the failures of the current year are less than in any year since 1882, and thirty-five per cent less than the average for ten years past. So steadily has been the improvement that business was in its present safe and sound condition before the people were fully aware of it.

Business men may be thankful for the quiet campaign. Owing to the diminished interference with business and to the fact that the main questions at issue are business questions, the campaign may be truly called the business man's campaign.

Although it is quiet, there are indications of deep and earnest interest in the national election. So there ought to be. It is the duty of every qualified voter to take an interest in local, state and national elections. He fails in his duty to himself and his country if he does not go to the polls and cast his ballot. His duty does not end there. He ought, as far as he is able, to see that the election laws are obeyed, that election officials perform their sworn duties, that there is a fair election, an honest count and a true return. Let not the honest ballot, the voice of the citizen in the government, be canceled by an illegal vote or a dishonest count. "Each citizen," says editor Watterson, "has his right of choice, each has his right to vote and to have his vote freely cast and fairly counted. Wherever this right is assailed for any cause, wrong is done and evil must follow, first to the whole country, which has an interest in all its parts, but most to the community immediately involved, which must actually drink of the cup that has contained the poison and cannot escape its infection."

SINCE the removal of the Ohio agricultural experiment station from Columbus to Wooster, Ohio, the management of the Ohio State University farm has been again undertaken by the board of trustees of the university. The farm has been placed in the direct charge of Thomas F. Hunt, professor of agriculture. The horticultural work is in the hands of William R. Lazenby, professor of botany and horticulture. Franklin P. Stump, a recent graduate of the course in agriculture, has been appointed foreman of the farm, and W. S. Turner, formerly with the horticultural department of the experiment station, has been appointed foreman of the gardens.

In making this announcement Professor Hunt says that the reoccupation of these grounds by the university will enable the instructors in the departments of agriculture and horticulture to use the farm and gardens for class illustration and instruction, and thus make possible a considerable enlargement of the practical work in agriculture and horticulture. It is not the purpose of these departments to make money, but to make men.

"Not to make money but to make men" is a noble purpose. But from a practical point of view, would it not be well to do both? The ideal American farmer of the future is a business man of brains, not only skilful in making his farm do its very best in production, but successful, from his knowledge of markets and their demands, in producing just what will sell best and realizing the highest price for it. He will not only know how to farm well, but how to be happy and make money while doing it.

MCKINLEY took a wool bung-hole and built a monopoly tariff barrel around it. He added tariff taxes on wool and then went to the farmer to tell him how he had protected him; but in this case, as in all other cases of tariff taxes, the farmer is cheated. There is no foreign demand for our wool at paying prices; we tax foreign wool that could be mixed with ours until our manufacturers use as little as possible, and McKinley's Ohio farmers are now selling their wool for three cents a pound less than they received before he raised the tariff taxes and gave them, as he said, increased protection. And how has he fostered the sheep industry? In 1868 Ohio had 6,730,120 sheep; in 1891, one year after he had passed his high wool tariff law, Ohio had 4,061,897. He has thus protected the sheep industry of his state down more than one third and protected the price of wool down over ten per cent; but that is just the sort of protection the McKinleys always give the farmer. And what is true of Ohio is true of Pennsylvania. Here the price of wool has fallen from three to four cents a pound, and we now have only 1,039,502 sheep in the state instead of 3,422,000 in 1868. Is it not about time to give the farmer a rest from the blatant hypocrisy of protecting him by high tariff taxes?"

The foregoing is a specimen extract from a speech by Colonel McClure, editor of the Philadelphia Times. Evidently this able city editor is more than willing to go a thousand miles to kick a sheep. But he has made an unsuccessful attempt to kick Ohio sheep. And he ought to know what an awful strain it is on a man to kick hard at something and miss it.

Is it true or false that the tariff act of 1890 "protected the sheep industry of Ohio down one third?" Did it reduce the number of

sheep in Ohio from over six millions in 1868 to four millions in 1891? Let us see. According to the report of the United States department of agriculture the number of sheep in Ohio in 1871 was 4,641,000, valued at \$10,488,660. Did the McKinley law go into effect twenty years before it was enacted? Did it reduce the number of sheep in Pennsylvania from 3,422,000 in 1868 to 1,762,500 in 1871? The editor's statement is ridiculously absurd.

Have the number and value of the sheep in Ohio since the tariff act of 1890 went into effect decreased?

The reports of the United States department of agriculture give the number and value of the sheep in Ohio as follows:

YEARS.	NUMBER.	VALUE.
1890	3,943,589	\$11,927,384
1891	4,061,897	13,189,386
1892	4,468,087	14,724,581

The colonel says that what is true of Ohio is true of Pennsylvania. In this he is correct, for the number and the value of the sheep in Pennsylvania as well as in Ohio have increased since the tariff act of 1890 went into effect. The following are the figures for his own state:

YEARS.	NUMBER.	VALUE.
1890	945,002	\$3,170,671
1891	1,039,502	3,858,631
1892	1,091,477	4,178,173

Instead of decreasing under the operation of the McKinley law, as the colonel says, the plain, incontrovertible fact is that the sheep industry in both states has advanced.

The colonel's speech was expected to be a very strong one, but its strength is in assertions that are, to keep within the lines of courtesy, the opposite of the truth. Is it not about time to give the farmer a rest from blatant political demagogues?

His statement that the tariff act of 1890 protected the price of wool down ten per cent is not true. And he is thoroughly inconsistent. For, if it is the cause of the lower price of wool the world over, it has given him the cheaper raw material that he is howling about and he ought to be blessing the law instead of slandering the sheep industry.

This sheep-kicking editor tried his sprained foot on the tin pan, and his performance was as ludicrous as his unsuccessful attack on the sheep. In the same speech he said, "Before the passage of the McKinley tariff we did not attempt to make any tin-plate. Since the passage of the new law we pretend to make it and don't. This infant industry is a prodigy of fraud on labor and of robbery to the people." If it is true that we don't make any tin-plate, the tariff on imported tin-plate is a tariff for revenue only, exactly the kind the colonel is clamoring for. If we don't make any tin-plate, the tin-plate tariff is a tariff for revenue only; if it is robbery of the people, as he says it is, all other tariffs for revenue only are robberies of the people. The gallant colonel places himself in the absurd position of denouncing as a fraud and a robbery the very kind of tariff he professes to favor.

WHAT is true of the sheep industry of Ohio is true of that of the whole country. The industry has not been depressed, as is claimed, under the operation of the tariff law of 1890. On the contrary sheep husbandry has advanced. The following are the figures given by the department of agriculture:

YEAR.	NUMBER.	VALUE.
1890 (January)	44,336,072	\$100,659,761
1891	43,431,136	108,397,417
1892	44,938,365	116,121,270

FARM AND FIRESIDE.

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Our Farm.

HINTS TO SMALL FARMERS ABOUT BOOKKEEPING.

FARMERS, whether large or small, can as little do without keeping business accounts as so-called business men. Their dealings may not be so extensive or varied, and don't require so many books, yet everyone has transactions of some kind, incurring household expenses, paying wages, purchasing materials, implements and stock, making improvements, on the one hand; selling milk, apples or crops, etc., on the other. But irrespective of the regularity in affairs, it fosters thrift and gives satisfaction of knowing how one is progressing in this material world.

It is not expected that a horny-handed, heavily-handicapped man of the soil should engage in "too much of that sort;" yet, when it is brought down to simplicity and a few jottings daily, in which his better half, his daughters or sons—nowadays scholars, and there is always some bright star among the young—can help him with the pen, the drudgery becomes less irksome. Try, only try to make a beginning, there is such satisfaction to see how by labor, economy and management one's prosperity stands there in an array of figures, that it becomes quite interesting.

Bookkeeping is the art of recording a business man's daily transactions, and of keeping an account of his property and debts, in a set of books. In the present article, all unnecessary technicalities have been studiously avoided. I shall only say, the left-hand side of a two-page account-book opening is called "debit" and the right-hand "credit."

A small farmer may confine himself in the first instance to a diary, which he can secure in any well-appointed stationery store; a book printed and divided for every day of the week, Sunday included, of foolscap size. In this he notes down everything—what he and help have accomplished that day, plowed, harrowed or sown, in acres, of a field named or numbered; crops harvested; hay, grain, roots, milk, cream and butter disposed of, fed to poultry or animals; articles marketed, or important events which will serve as a guide at some future day of leisure, when he collects his entries for a summary, for which the blank Sunday sheet in the diary serves admirably as a weekly sum total.

With the exception of the indispensable cash-book and the diary account, I would not advise a small farmer to keep other account-books, for they occupy his time and are sure to fall short of accuracy, and then they become misleading. A book not kept methodical and precise is, in fact, useless.

If he wishes to depart from the simple

diary, from which, as stated, he can make extracts at certain periods, he can use a so-called "pass-book" for hay, grain, feed, roots and the like, always remembering that the left-hand page of the book is for incomings, what is in store, off farm or purchased, and the right-hand page for anything parted with, disposed of, used.

However, as the dairy partakes somewhat of a factory nature, and it requires imperative daily records in a special book, which might be bought ready made, but is generally too complicated, I rule up the simplest example of dimension of an opening of a common pass-book, and confine myself to state that the milkings go on the left-hand page. Sweet milk, set in pans, cold or hot water or separator, used in house, sold or

bank as a person with whom he deals, and makes his entry accordingly. See example.

The cash should be written down as soon as possible after being either received or paid, avoiding committing to memory and adjustment made weekly or at least monthly, allotting thereto as much space as necessary, and not mix up matters by weeks or months, but commence each period with a fresh page.

A few examples of how to make calculations may not be amiss, preceded by the remark that all charges, or expenditures, go on the left, which is contrary to the cash-book, where they are placed on the right. If he wishes to make out a bill of cost, say of a field of wheat, he looks up his diary entries and finds how many

Table titled 'DAILY DAIRY ACCOUNT' with columns for Received, Disposed, NAME OF COW, MILKINGS (M, E), WHOLE MILKINGS (M, E), Skim-milk, Butter-milk, Cream, Butter, and \$ c. Includes entries for July 4, 1892, listing cows like Cherry Blossom, Ethel, Belle, Nellie, Grace, Mollie, Flossy and their products.

for calves; buttermilk to house, pigs or sold; butter, used in house, sold or stored; cream, sold, used in house or for churning, and skim-milk, used in house, sold or for calves, all go on the right-hand page. If supplying a factory, that milk also goes on the right-hand side as sold. Whatever sold for cash, whether to factory or private, has the additional entry to be made of the same sum on the left-hand side in the cash-book.

The next most important book is the cash-book, which is quite indispensable and in no way connected with other books, but for extracts, for cash is a commodity by itself which, at a given period—weekly, monthly or otherwise—must tally, income with expenditures, to the last cent. There may arise a difference, however, and generally it does; this ought to be in his pocket in cash. Too much weight cannot be laid on this, that cash is cash, for it has come under the writer's notice that a farmer (who kept books) made an entry of a contract he had concluded with a man about the clearance of a piece of brush, and wrote that sum down on getting a receipt in full when he made final settlement, on expenditure side, and had meanwhile also noted down every payment he had made "to account," thus doubling the sum. The cash entry can only be made whenever he actually parts with or receives money.

The distinction between a diary and a cash-book lies in this: the former requires

bushels were used for seeding; if bought, he finds it also in the cash-book among expenditures, adding thereto the manure, or fertilizer, manual labor and teams at plowing, harrowing, rolling and harvesting, and finally the rent per acre, adding these up. On the other side, the threshed straw and grain, whether in granary or sold, adding these up, and then compare. If the amount of the latter is the largest, there is a gain; if of the former, a loss.

If he wishes to know whether the dairy pays, he makes the following statement, say for one month: On the left side, interest on cost of cows, say one half cent per dollar per month; male and female help, bedding, straw, hay, corn, bran, feed, fodder, ensilage, roots, meal, veterinary surgeon, something for wear and tear of the utensils and freight, or carrying to the market. On the right-hand side the value of the whole milk as got from the cows. Compare the two sides. In the summer season, when he uses some feed or perhaps none, he charges on the left-hand side pasture, for if his cows did not pasture he might make hay and sell it. Pastures, if well made at first, last many years; nevertheless, the least money he can charge would be \$2 per month per cow, based on this calculation that land costs \$50 per acre (or even \$100), and as pastures are used only six months of the year, \$12 would be fair

CASH-BOOK table showing Income and Expenditures for 1892. Income includes Cash on hand from last account, Sold 10 bushels of corn, and From bank (withdrawn). Expenditures includes Andrew's wages, To bank (put in), and Difference cash on hand.

no columns for either date or money—and shall receive no cash entries—and the latter has and gets. A cash-book and all account-books, including pass-books, which might be had ready ruled, consist of two distinct but joined pages (of the many), the left hand for incomings and the right hand for outgoings. At the left margin of each side

interest, even if in hay. This, however, depends on localities. If he uses green fodder, soiling, corn, clover, he has to take that into consideration and charge among expenses accordingly.

In the fall, when crops are secured, pigs killed, etc., he can make up a general statement of income from farm, orchard, gar-

CASH-BOOK table showing Income and Expenditures for 1892. Income includes Cash on hand from last account and Sold 10 bushels of corn. Expenditures includes Andrew's wages and Difference on hand to new account.

are two parallel lines for dates, about half an inch from the edge, and on the right hand of each page two columns—the first for dollars, somewhat broader, and the second for cents—leaving a body between the date and money for entries of particulars. I feel inclined to illustrate this in the shortest manner, and at the same time show how the difference (called "balance") is booked at opening and closing.

Whether he winds up his cash weekly or monthly, the cash on hand is always on the first line of a new account—left side—and the balance, in plain language "difference," on hand at closing on the last line, right-hand side—if there is any.

If he keeps a banking account, at which he is furnished a pass-book, he treats the

deu, stock, teaming (if hired out), the dairy and what not, culled from the diary and cash-book, which also tell him, on the other hand, interest and rent paid, family expenses, labor and general outlays, and after adding each side separately he will get at a close knowledge of his business. About the proper time (about the first of January) he takes stock of implements, animals, grain, fodder, roots, etc., puts a value upon these, which, together with the year's surplus, represent his wealth.

A. BROOME.

Do not get ready to run a winter dairy and expect to make it pay wholly on dry feed. Ensilage and the winter dairy are the complement of each other.

MISCELLANEOUS MATTERS.

BY T. GREINER.

THE ROBIN.—I am a friend of all birds. I enjoy their presence, like to hear them sing, and see them hop around from limb to limb, in quest of their food. I like to watch them feed their young, and often I feel greatly amused when I notice the cunning with which they try to hide their nests, to elude the observer's eye, or to put him on a wrong track. On the other hand, I often suffer from their depredations, Sparrows in winter-time come and eat some of the grain thrown out for my poultry. Robins and cedar-birds devour quantities of cherries and berries, etc. Still, I have always had enough fruit left for me, and enough grain for my chickens, and so I do not begrudge them what they eat and need to exist. To live and let live is my motto. So I never disturb them in the peaceable enjoyment of their little lives, especially since they give me enough pleasure, by their presence and their song, to pay for the fruit they take, not counting the great good they are doing in keeping insects in check. I never shoot at birds, never destroy their nests, except it may be a sparrow's nest on the porch. I do not like them to nest in and about my dwelling-house. Otherwise all birds, even owls, are safe from molestation by man on my premises.

For this reason it always pains me to see serious charges brought against my little clients, and to have them denounced as nuisances to be fought with powder and shot, not to speak of the uncivilized way of using poison. The Ohio experiment station has just issued a bulletin containing a study of "the food of the robin." It shows that the robin is a great insect-destroyer, but on the other hand also a fruit-eater to such an extent that small fruit growers, who have only an acre or so of berries, often have hard work to save enough of fruit to make it profitable for the pickers to pick the patch over. I do not believe that this is a general experience. It may be so in some localities, or in some seasons. We have robins quite plentiful here, yet the damage done by them and other birds to our strawberry patch (one third acre only), and to raspberries and blackberries (about the same area) has always been too slight for notice. I have never yet lost any considerable part of my berry crop (and I do not grow many) from that source.

I will not dispute the right of the grower who does suffer seriously from bird depredations, to protect his property and his earnings by all means within his reach. If robins take too large a share of the fruit upon which he depends for his living, he has little choice left but to resort to traps, or to powder and shot, etc. In the fall robins are plentiful and they are fat. They make good eating. So do sparrows. I do not believe that thinning out their now well-filled ranks will materially lessen their numbers in years to come. Perhaps the suffering grower—if the state laws allow it—may get some compensation by making an occasional meal of these birds, and help to check their excessive increase for the future. I, for my part, however, am not going to join in this "slaughter of the innocents (?)"

THE CAPON INDUSTRY.—A month or two ago I mentioned this subject in the FARM AND FIRESIDE, and expressed the opinion that there is a chance of making some money in caponizing fowls. Since then I have further investigated this subject, and I became so thoroughly convinced of the golden opportunities herein hidden, that must call attention to the matter once more. Mr. George Q. Dow, of New Hampshire, probably one of the best experts in this line in America, whom I addressed for advice and information, kindly sent me a set of his improved caponizing tools, and his book on "Caponizing." I soon got thoroughly interested. It is well known that in late fall our markets are overstocked with young cockerels, while you seldom find a capon in America outside of Philadelphia, New York and Boston. I have not been able to find any in Buffalo. Yet there can be no doubt that all capons offered would find quick sale at a high and profitable figure.

It is also well known that in the countries of France and Germany few cockerels, save those required for breeding, are allowed to grow up except as capons, and that caponizing fowls is generally practiced in those countries, even by women and children. This shows that no particular skill is required for the operation. Some years ago I made some trials, but I had nobody to show me the right way, nor books to teach me, nor instruments of the best kind.

Now, after I have studied Mr. Dow's book, I see why I failed—why I could not do otherwise but fail in the operation; and I see, also, that after all, there is no difficulty connected with it. "If the fear or dread of undertaking it, that I know really exists, especially among farmers," says Mr. Dow, "could be overcome, and people could be induced to caponize their fowls, thousands of dollars might be added to the incomes of poultry raisers every year, as the value of all cockerels could thereby be doubled. With a little practice any one can easily caponize twenty-five cockerels in a forenoon. This number would give the owner fine capons for his table all winter, also some for market. Here let me say to those who have never eaten capon meat, that after having once partaken of nice roast capon, the cockerel chick will seem very poor eating." The instruments which Mr. Dow has sent me are evidently made for practical use, of high-grade material, although packed in a very modest-looking pasteboard box. They are neither nickel nor silver plated, nor nicely packed in a fine rose-wood case with velvet lining. Yet I like their looks, and shall make good use of them. The price of the set is \$2.50. The instructions given in the book seem complete, and any person following them closely can succeed. I wonder why this practice has not become more popular among our people. Nobody should object to it on account of alleged cruelty. We have to perform similar operations on pigs and colts and cattle and lambs. In fact, the farmer and stock raiser is compelled to do it if he wants to make a success of his business. Why not include cockerels in the list of animals to be operated on? They feel the pain less, to all appearances, than do the larger animals. I shall have more to say on this subject later.

WELL DIGGING.

The writer is not a professional well-digger, but, like most people of mature years in the country, has had a little experience in that line. A recent experience in constructing a well brings the matter up anew, and I will give the readers of FARM AND FIRESIDE the benefit of what I have learned. Before digging, it is necessary to locate a well, and water-witches and hazel rods to the contrary, the matter of getting water of a certain amount within a specified depth is largely a matter of chance.

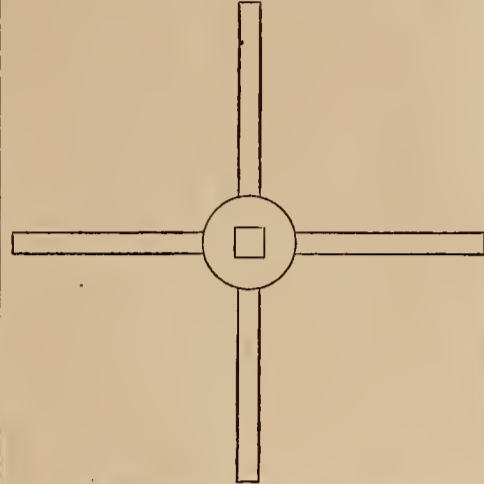
Convenience of access should be the first consideration always, as it is easy to waste a great deal of time and strength in bringing water from a distant or inconvenient well. On the farm where I passed my boyhood the well was at the foot of a hill ten rods from the house, and twenty feet lower than the ground at the house. It was at the head of a springy slough, and located there in the early days because of certainty of getting water at a moderate depth, the pole-sweep and moss-covered bucket of those times not being compatible with a very deep well. Living soft water was got at a depth of eleven feet, but at what a cost to the family that had to use that well for thirty years! One hour a day in time, and loss from having an article of constant use so far away, would not be too much to allow as the daily cost of getting water. This would be one whole year of working time in ten years, or three years in thirty. Work that would cost more than a thousand dollars to hire, spent in bringing water for a single farmer's family in half an ordinary lifetime!

My early experience in bringing water taught me a lesson, and when I built my house I dug the well close to the foundation, so the kitchen sheltered it, and there has been very little strength wasted in my household in lugging water. There are no steps to go down or up, and one does not have to put on rubber boots and an overcoat to get a fresh drink at midnight, for the baby or a sick person.

The well I have recently had dug was for the school district, and we located it near the outside of the lot just at the highway line, and propose to put a small horse-trough by it, so that during the hot months when there is no school the well will still be used more or less, and not become stagnant from lack of use. An experienced well-digger was employed to dig it, at ninety cents per foot for the first twenty feet, and one dollar per foot beyond that depth provided it was earth excavation. If hard rock was encountered that required blasting, he was to have four dollars per foot for the rock excavation. He was to give us four feet of water before stopping, and furnish help and tools and wall the well. The wall was of 24-inch sewer-pipe,

second quality, set socket up and cemented at the joints with a good quality of water-lime mortar. The pipe cost us fifty-five cents per running foot, delivered. All dug wells in this region are walled with sewer-pipe, and it makes a very neat and perfectly indestructible wall. I might say in passing, that for walling wells the second-class ware is practically as good as the first, the high standard required in sewers as to glazing, blistering, etc., not being necessary in wells where there is no action of acids or wear of running water.

Ground was broken by excavating a hole four by five feet and as deep as a man could



SPOKE-WHEEL FOR WINDLASS.

go in one day; in this case, the soil being hardpan, about six feet. A windlass was then set up and two men worked another day, one digging and the other drawing up the dirt. A depth of thirteen feet was reached, with sufficient show of water to warrant belief that four or five feet of water would be obtained. The next day two men were placed at the windlass, the greater depth and added weight of saturated earth requiring it. The eighteen-foot well would have all been completed on this third day if a severe and protracted rain had not set in. The contractor, therefore, with six days' work costing \$9 did a job that brought him \$16.20.

Circumstances were, however, very favorable, as no curbing was required, there were scarcely any stones encountered, and after the first six feet, digging was comparatively easy.

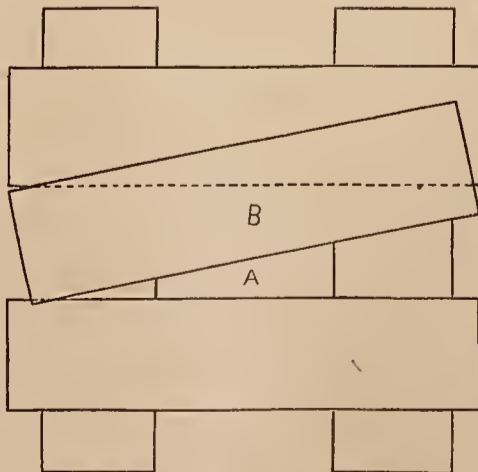
Now as to the cost of tools in use. First was an inch rope, costing when new \$2.25; then a half-barrel bucket, like a cider-barrel sawed off just below the bung, with iron hoops and a heavy iron handle bolted through the hoops and extending under the tub; this could not have cost less than \$2. In addition, there was a heavy iron hook costing forty cents, and a bricklayer's trowel costing sixty cents, besides a windlass that, in a prairie country where the material must be all bought, might cost \$2 more. This would bring the cost of outfit up to \$7.25, or five cents more than the profits of digging this one well, which goes to show that in digging an ordinary well of less than average depth, the cost of necessary appliances pretty nearly discounts the profits, and as difficulties and depth increased, the margin would shrink still farther.

On farms where there is an abundance of help that would otherwise be idle in late autumn, it might pay to dig a well, even if the tools must be provided. A piece of a salt-barrel strengthened with extra hoops and a wooden handle might do duty for a single well—I once used such a bucket in sinking a 24-foot well—the only precaution being necessary that it be strong enough for the work required of it. My house well, twelve feet deep, was sunk in two days by two boys, the earth being drawn up hand over hand in a common wooden water-bucket with clothes-line attachment. Socket pipe had not been invented, so the plain article was used, and an excavation twenty-seven by thirty-two inches was all the boys removed. In locations where it is nearly certain that no curbing will be required, and only a moderate depth, the excavation can be made smaller than where the opposite is the case. In new settlements where it is necessary to dig a number of wells, it would pay for several neighbors to combine and buy an outfit and perform all the labor themselves. None but careful men should be employed at the mouth of the well, and a job should not be commenced unless it can be pushed to completion as fast as the working hours will permit. Digging wells is not a catch job, to be worked at at odd times. Farther, it is one of the most dangerous of occupations, and a majority of well-diggers die with their boots on while following their chosen calling.

A few words as to construction of windlass and arrangement at the mouth of the well may not be out of place. A spoke windlass is very easily and cheaply constructed without the aid of a blacksmith. Take a strong, sound piece of 4x4 scantling seven feet long, and form on each end square-shouldered journals three and one half inches long and the same in diameter. With strips of one-and-one-half-inch plank four feet long, build up the center of the scantling so it can be rounded into a cylinder seven inches in diameter. By first nailing these pieces only along the longitudinal center, the corners can be easily rounded into shape with a drawshave and plane, after which further nailing can be done if necessary. Just outside the ends of the larger cylinder bore through the scantling two holes one and one half inches in diameter for the reception of spokes for turning it, instead of cranks. In practice, this spoke arrangement is much more convenient, as well as safer, than cranks, as the men are inside the supports, right where they have to be to carry away and empty the bucket. For supports, a 2x6 plank four feet long is set upright in an old railroad tie or thick plank, and kept upright by two braces nailed in the letter A form. The top of the plank is hollowed out to form the bearing for the journal of the windlass. A support of this kind is placed at each end and is braced on the outside by a slanting brace fastened to a stake three or four feet outside the support. This windlass is operated by the men standing on one side and pulling the spokes over toward themselves.

A proper platform at the mouth of the well is half the battle in speed as well as safety. First lay planks parallel with the windlass on each edge of the opening so as to leave an opening in the center of about thirty inches wide; then lay some the other way so as to leave an opening twenty-six inches wide; then have a spare board, strong and flat, to place over the opening under the bucket when it comes up filled with earth. In practice, this is simply moved at one end, the other end revolving on a spike. The bucket, as it rests on the board, is unhooked from the rope, and with a stick inserted under the handle is removed by the two attendants and emptied. With this kind of a platform and careful men there is very little danger to the man at the bottom. Blasting is now generally done with dynamite, and is too well understood to need description. A well-digging acquaintance has a novel and very ingenious way of firing his blasts from the top of the well. He bends the fuse at right angles about three inches above the surface of the rock and cuts it off about three inches from the bend. A lighted miner's lamp is then let down with a string and the fuse is lighted. This method is perfectly safe and takes less fuse.

An amusing incident in connection with blasting in a well occurred to me several years ago. I was visiting in Weeping Water, Nebraska, where the wells are sunk seventy feet or more in red shale, and was walking one morning from my friend's house to his store. Suddenly a man rushed out as I passed a dooryard, and shouted wildly: "For God's sake, help pull a man out of a well before he is blown to—



PLATFORM FOR MOUTH OF WELL.

heaven!" I hurried into the yard, and in a jiffy—that seemed ages, no doubt, to the man in the well—we had him out, and all took refuge in a kitchen near by just as a shower of clay and smoke blew twenty feet into the air. The man's assistant at the windlass had several niles to come and had not arrived, and the man's wife had volunteered to help until he came. She was busy at the kitchen during the placing of the blast, and had suddenly stepped out just at the instant she was needed. If I had not happened by the well-digger's

career would have been cut short right there, and his remains would have been in a very unrecognizable condition.

I give two drawings, showing form of windlass and manner of placing platform. *Summit county, Ohio.* L. B. PIERCE.

THE MILKING-MACHINE.

Uncle Jerry Hayseed, up in Sullivan county, New York state, had a fine dairy and a hard-working wife and two daughters, who did all the milking and churning, and a worthless son Joe, who would not work enough to earn his salt, but to whom Uncle Jerry was holding up his mother and sisters for models, especially in the art of milking.

Joe, though no worker, was an honest fellow, and Uncle Jerry had often sent him to the village to make purchases, and when he heard of the new milking-machine, he gave Joe a nice round sum of money and sent him to New York to buy one of those new English milking-machines, as he thought anything in the world could be found in the great city of New York. Well, Joe came down to New York and hunted around, but could find no milking-machines, and as his last resort he went to an English steamer and cautiously asked if they had brought over in her cargo any English milking-machines. The captain was a jolly old tar and full of fun, and told him they had about two hundred of them, and taking Joe on board, showed him the machines.

"Why," said Joe, "those there are girls."

"Well," said the captain, "what kind of milking-machines have you got at home?"

"Milking-machines at home?" said Joe. "Why, mother and the girls."

"And don't these look very much like them?" said the captain. "Only they are English, you know."

"Yes," said Joe. "But what is the price of one of them?"

"I can't exactly tell you that," said the captain. "But you just pick out the machine that suits you the best, and tell her how many cows you have to milk and then ask her the price, and I guess you can drive a bargain."

So Joe selected his machine, told her how many cows she had to milk, and showed her the pile he had in ready cash to pay down and then asked her the terms. The machine took him up to the captain, and between them the bargain was soon made, and a minister was called upon who put the finishing touches upon the bargain and purchase, and then the happy Joe and the English machine for his bride started on their journey to Sullivan county, and when he got home he presented her to Uncle Jerry as the best English milking-machine that he could find in New York.

Of course, Uncle Jerry was full of wrath for a time, but honest Joe told him to keep cool and just test the machine before condemning it.

And this fall Uncle Jerry has the finest dairy of butter in Sullivan county, and though a little sore on the milking-machine subject, says that his son Joe is an expert judge of milking-machines, and Joe is now full partner with the old man.

If you go up to Sullivan this fall, don't fail to visit Uncle Jerry Hayseed and get honest Joe to tell you what a fine dairy they have, and watch his proud smile when he winks knowingly at the old man and tells you that the prospects are also good for a Hayseed crop this season.—*Mercantile and Exchange Advocate.*

It is No Wonder That People Speak Well of Hood's.

Mr. R. J. Brundage of Norwalk, Ct., of the firm of Buxton & Brundage, expressmen, 159 Main Street, writes his experience below: "For a long time I have been troubled with a weak stomach followed by

Indigestion and Dyspepsia

A short time ago I began taking Hood's Sarsaparilla and took three or four bottles. Result, I have not felt so well all over for years.

My Food Seldom Troubles Me now. My sister, who was troubled about the same way as myself, took Hood's Sarsaparilla with very pleasing results. I do not wonder that patrons all along the line speak so well of

Hood's Sarsaparilla

Don't see how they can help it." R. J. BRUNDAGE, Norwalk, Ct.

N. B.—Be sure to get Hood's. HOOD'S PILLS act easily, yet promptly and efficiently on the liver and bowels.

## Our Farm.

### NOTES FROM GARDEN AND FIELD.

**GROWING EGG-PLANTS.**—I have often spoken a good word for the Japanese egg-plants, seeds of which I received some years ago from H. H. Berger & Co., importers, of California. The eggs are not large, though large enough for all practical purposes, while the plant seems to be fully as hardy and as easily grown as a tomato-plant.

At present, however, I have thrown the Japanese sorts aside forever. In a variety sent to me two or three years ago by a correspondent in the Northwest, under the name of Raynor's Thornless, I think I have a real acquisition. It resembles the New York Purple in leaf, habit of growth and fruit, but appears to be fully as hardy as the Japanese sorts. It starts as promptly from seed as a tomato-plant. It grows luxuriantly under the same temperature as needed for hardy growth in tomatoes, and under good treatment it produces an immense yield. I consider it the most profitable variety of egg-plant ever planted for market purposes, and the most easily grown. Unfortunately, I have mislaid the originator's letter, and have not been able to find his address.

From a small trial in marketing this egg-plant, I feel confident that there is money in this crop, and I propose to plant more extensively next year. I have only one trouble with it—the blight. My plants have been sprayed innumerable times with Bordeaux mixture, with the ammoniacal solution of copper carbonate, with solutions of potassium sulphide (liver of sulphur) and of corrosive sublimate, but all to no purpose. The blight has affected the sprayed and unsprayed plants alike; but, notwithstanding this trouble, most of the plants have borne a number of fine eggs each. Still, I would like to find a remedy; but it seems we are yet far from the right track. This blight is probably the same which effects the tomato, melon and cucumber vines.

**PICKLING ONIONS.**—Growing pickling onions is a comparatively easy matter. Any smart youngster can do it, and make money by it, too. I do not know to what extent it would be safe to engage in it; certainly, a small town does not require many, and if any one grows a big lot, he would have to look to a city, or perhaps to a commercial pickling establishment, for a market. The Barletta, the best of all pickling onions, is so handsome that the retailer has easy work disposing of it, as few housewives will refuse to buy a quart or two at from ten to fifteen cents per quart. I harvest my crop in July (early enough to plant celery on the same piece of ground) and have it all in market by the middle of August. The onions are graded in two lots, simply by picking out the largest bulbs, and shipped, each grade by itself, in ten-quart peach baskets. My commission merchant in Buffalo sold them at \$1 per basket for the smaller grade, and seventy-five cents for the larger. They netted me about eighty cents a basket. The yield was at the rate of 600 baskets per acre, and the returns, therefore, at the rate of \$450 per acre. I think this is doing first-rate. Of course, there is considerable expense connected with it, especially that for seed. It takes about thirty pounds of seed per acre, which, at \$2.50 per pound, foots up to the respectable amount of \$75. Yet, after paying all expenses for seed, labor, manure and land, I still figure out a clear profit of over \$200 per acre.

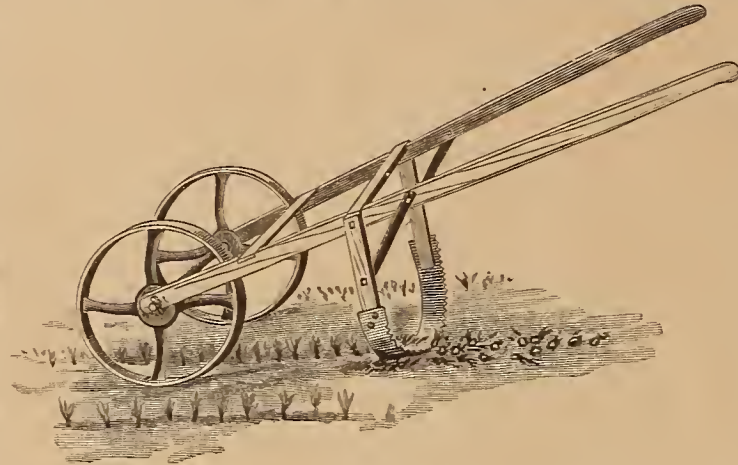
In the hope of inducing some youngsters to try their luck with pickling onions next season, I will give brief directions how to go at it. First, select a piece of sandy soil. Don't attempt growing these small onions on clay soil. It may be rich, and if not, must be enriched by applications of compost, wood ashes, fertilizers, etc. No need of making it excessively rich. Plow and harrow well in early spring, and make a nice, smooth, mellow seed-bed, if necessary, using the hand steel rake to finish off. Then sow the seed at the rate of one ounce to every 100 or 110 feet of row, the rows being ten inches apart. This is most easily done by means of an ordinary garden drill; but may be done by hand, in which case the rows must be marked out with an ordinary hand garden-marker. Firm the soil well over the seed if you sow by hand. Soon after start the hand wheel-hoe, and keep the patch clear of weeds, pulling the weeds out of the rows by hand as often as required.

When most of the tops have turned yellow, you may harvest the crop. In loose

soil this can easily be done by hand. But a better, quicker way is to lift the small bulbs out of the ground by means of a Planet Jr. onion-set harvester, or a homemade device, such as is shown in the accompanying illustration. Such a tool is easily made from a couple of wheels (taken from a discarded hand-cultivator or wheel-hoe), a few pieces of scantling, or some old plow or cultivator handles, and a piece of cross-cut saw bent in a curve. Sharpen the back of the saw-blade, as this is to serve as a cutting edge, in the center of the curve, and let it run just under the bulbs in the center of the row. This will lift the onions out and leave them behind on top of the ground.

Leave them on top of the ground to cure, and when thoroughly dry, gather them, and run them through a fanning-mill to sift out the dirt and blow out dried-away remnants of top and root. It may be necessary to pick them over by hand and to remove still adhering parts of the tops.

If you have no onion-set harvester, or grow only a small quantity of pickling onions, and do not care to make the implement



ONION-SET HARVESTER.

here shown, you can gather the onions by lifting them up with a trowel and throwing them into a No. 3 sieve, thus cleaning them of sand and dirt. Above all things, be sure that they are perfectly dry when you put them up for market; otherwise, they will be pretty sure to commence a new growth, and soon go from bad to worse.

The New Queen, otherwise a good pickling onion, is two weeks later, consequently requiring so much more care in weeding. It is also larger and rather too flat in shape. The Barletta cannot well be improved upon for this purpose, and there is no occasion for planting any other.

If you have boys, call their attention to this industry, and let them try it once. They will like to earn a little money for themselves when it can be done in such an easy and pleasant manner. **JOSEPH.**

## Orchard and Small Fruits.

CONDUCTED BY SAMUEL B. GREEN.

### MARIANA PLUM STOCK.

A correspondent, who is a nurseryman, writes us from Tennessee that he thinks Prof. Budd is too severe in his strictures on the Mariana plum as a stock, in *FARM AND FIRESIDE* of September 15. He says:

"It is the firmest and most easily matured wood grown and ripens every bud, and every cutting lives that is planted. In Tennessee we have a climate to try trees. One day will be mild and balmy as on the Gulf, and before sun sets a gale blows up and perhaps the thermometer drops to near zero. Then we have rain and growing spring weather, which often starts the buds and sets most trees growing. I have used the Mariana stock here for six years, and it remains dormant until the proper time to start. It produces erect trees of peach, plum, apricot, prune or European plum; buds set readily, and the stocks can be worked up to time of frosts each year and still secure a good stand."

In my mind there is no doubt as to the great value of the Mariana as a plum stock. It is sufficiently hardy for this purpose as far north as central Iowa; but north of that I think it is better to use the native seedling plums for stocks, as they are hardier than the Mariana, and the hardy plums of that section are of the same species, and consequently assimilate more easily. I have used the Mariana for two years as a stock, and find that most all plums take well on it and make a good, strong growth. It is far better than the Myrobolan, and its introduction gives us a stock that is cheap, very reliable and does not sprout. I think well of it as a stock for the middle states.

Since writing the above, the following has been received from W. A. Landon, of Louisiana:

"Prof. Budd's answer in regard to the hardness of Mariana as a stock may be correct, but should be verified before being taken as certain. Mariana furnishes the best of stock for budding, being exceedingly vigorous and never root-sprouting. I have had annoyance and labor from root-sprouting stocks, and believe that all this trouble may be avoided by using Mariana as a stock wherever it is hardy enough to stand; how far that is must be ascertained. This subject of root-sprouting has been a rankling thorn with me for years, not only on plum, but pear. The imported French pear stock is an abomination, and should be done away with, not only on account of its sprouting propensities, but also of its lack of vigor. Pear-blight might be traced to weak and sickly stock. We have the Le Conte, which never root-sprouts, and grows readily from cuttings and is a fine pear stock in every way.

### NOTES ON STRAWBERRY CULTURE.

Discoveries and improvements are made from necessity, many times, as has been the case with my forty years' experience. And here is my latest. For years I have been on the lookout for a strawberry equal to the Crescent in every particular and hermaphrodite, and have at last found it in the Michel's Early. In fact, growing side by side, it has proved three days earlier, and is more uniformly large, better flavored and brighter colored.

A year ago last spring I knew nothing about them, and so set but a few rows. When they came into bearing this year, I was most agreeably surprised because of its extreme earliness and wonderful production of such large, beautiful berries.

Not having set any last spring, and having but a few rows of matted plants that bore this season, and being so anxious to have a good bed of them next season, I struck upon the plan of taking up these old plants, with all the roots I could and leaving on all runners and young plants, right after hard rains, and setting them, spreading the roots out well, setting deep and placing the runners and young plants along the rows, in August and September. Now I have forty rows, as fine as one could ask for, which must yield a fine crop next season.

These, followed by Warfield No. 2, Haverland, Shyster, Bubach No. 5 (the last three fertilized by Jessie or Cumberland Triumph), Manchester and Lord's Seedling, give me a succession from earliest to latest of the finest varieties grown.

A. M. PURDY.

[NOTE.—The Michel's Early strawberry seems to be very variable, and to disappoint as many as it pleases. It is very vigorous and healthy, but I have found it rather too dull in color for marketing. I am using it as a pollinizer for Crescent and Warfield, and for this purpose it is excellent. We would like to hear from others who have tried it.—ED.]

### INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

**Blackberries on Dry, Sandy Land.**—W. W. K., Rising City, Neb. If land is too dry and sandy to raise good corn, it is too poor to produce the best of blackberries without heavy mulching, and even with a mulch, in your dry summers, they would be uncertain.

**Buds in Old Wood.**—A. S. K., Hamilton, Ind., asks: "Will a peach or plum bud thrive in last year's wood?"

REPLY:—Yes, if the bark is not too thick to cover the bud well; but it is to be avoided when practicable.

**Japanese Wineberry.**—J. D. K., Grove City, Pa. The Japanese wineberry grows easily from tip layers, like raspberries of the black-cap class. I do not know about its rooting from hardwood cuttings, but think it quite likely. If so, the cuttings should be made in the fall. For all practical purposes, it increases fast enough from layers. I consider it an almost worthless fruit, and only interesting as a curiosity.

**Budding and Grafting the Russian Mulberry.**—A. J. B., Exeter, Neb. The Russian mulberry may be top-grafted or budded outdoors if the usual precautions for grafting or budding other trees are observed. When grafted, it is a good plan to cover the whole graft and the wounds with a paper bag drawn over the whole until the scion commences to grow. A paper sack so used is called a "night-cap" by nurserymen. The Russian mulberry seedlings may also be root-grafted.

The ornamental varieties, such as Tea's Weeping mulberry, may be worked on the Russian, but budding is generally most successful.

**Fig Seedlings.**—J. S. E., Roanoke, Va. Figs grow readily from the plump seeds in commercial fruit. Wash out the seeds, and those that sink may be sown in a frame, or in boxes in a greenhouse. The young plants will appear in three or four weeks. I do not know about the kinds best for pipe-stems. Seedling figs are not more true to name than apple or most other seedlings. Figs are generally grown from cuttings.

**Blackberry Seedlings.**—F. H. H., Westbrook, Me. Blackberry seed should be gathered by rubbing the ripe fruit in dry sand. Then sand and all should be sown in good, fine, rich soil. They will not start until the following spring. They would come into bearing in two or three years. There is always a possibility of getting a valuable seedling, but it is seldom done, and the work is generally unsatisfactory.

**Pear-blight—Peach Blooming, but not Fruiting—Strawberry Seedlings.**—A. F. W., Miami, Md. Your pear-trees are undoubtedly affected with pear blight. The proper course is to cut off and burn all the diseased wood. The poor varieties should be grafted with better kinds.—It is probably some quite tender variety that has its fruit buds killed in the winter. Or it may be that it is growing in much richer soil than the seedlings, and does not ripen up its wood and buds.—The raising of strawberry seedlings should be left to specialists. As a rule, not one plant in a thousand from seed is worth growing.

**Moving Plants.**—J. F. S., Cherokee, Iowa, writes: "I have a number of strawberry, asparagus and rhubarb plants, all of one season's growth. I am going to move next March. How can I fix them so that I can take them with me?"

REPLY:—The strawberry and rhubarb plants had better be dug this fall, and heeled in at your future place as soon as may be. Heel in with plenty of soil between the plants, where water will not stand, and protect them with a mulch of leaves or hay. The asparagus I do not like to dig in the fall, having frequently had poor success in carrying the fall-dug plants over winter. If you have only a small piece it would be safest to mulch heavily with coarse manure, hay, tanbark, etc., and dig in the spring. If a big lot, would prefer to move it in spring anyway. All these plants could be dug in autumn and wintered safely in a cold cellar if carefully buried. They should get some frost occasionally if put in a cellar.

**Injured Apple-tree—Wash for Trees—Trimming Currants.**—C. H., East Saginaw, Mich., writes: "I have an apple-tree that was planted four years ago. It has made no progress whatever. At the ground sprouts are continually growing. I have dug around the roots and cut them several times, but in a few weeks the new sprouts are above ground.—Is a wash made of hardwood ashes good for the trees?—I have a row of black currants that bore little fruit last year. In the fall I had them trimmed. This summer there was no fruit on them at all, but the bushes have grown enormously."

REPLY:—The trunk is probably injured. If it has a good, strong sprout starting out above ground, it would be best to cut away all the old tree and all other sprouts, and let this one grow. It will make a good tree in a short time.—It is good in so far as it may kill the eggs of insects on the bark. Otherwise it is not beneficial except as it may act as a good fertilizer.—In cutting back your currant-bushes, you probably took off all the fruit-bearing wood. You had better trim off the lower branches and let the rest remain. They will probably fruit next year. The young sprouts seldom produce fruit.

**Mammoth Black Twig.**—J. W. S., Mammoth Spring, Ark. The Mammoth Black Twig apple, known also as the Arkansas Paragon, as near as I can get at its origin, was brought into notice by Mr. Babcock, of Arkansas, who was in charge of the state collection at the New Orleans exposition in 1886, and came across it while getting the exhibit together. He says: "The fruit resembles the Wine Sap, but is very much larger, and of superior flavor. It is the strongest grower in the nursery; a strong-rooted tree, while its parent, the Wine Sap, is poorly rooted. The tree bears early and abundantly." Eli Nurich, of Philadelphia, says of it: "The color is a bright red, the texture fine, and the flavor a pleasant subacid. It is remarkably heavy and a good keeper." It is reported that the Wine Sap is sold for it, and that the first scions sent out were mixed with Wine Sap, so planters should be careful about the stock they buy. It is undoubtedly well worth trying wherever the Wine Sap is grown.

With "Fibrous Roofing Cement," anybody can stop any leak in any roof. See "Special Sale" on page 6.

## 850,000 GRAPE VINES

100 Varieties. Also Small Fruits, Trees, &c. Best rooted stock. Genuine, cheap. 2 sample vines mailed for 10c. Descriptive price list free. LEWIS ROESCH, Fredonia, N. Y.

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**Our Farm.**

**THE MANUFACTURE OF STILTON CHEESE.**

Melton Mowbray, in North Leicestershire, is the headquarters of Stilton cheese, and for many years past this well-known product has been manufactured by farmers and dairymen in this part of England.

It is said that modern appliances have made less difference in the quality of Stilton than in any other variety of cheese, and if this be true, it shows the painstaking care and attention that was given to the business by the early makers. With the methods of heating, thermometers, etc., now at command, one can readily believe that the work is much simplified, even though the general standard of excellence is not much if any higher.

It is very evident that much more care is taken in regard to the quality of the milk by Stilton makers than by those of other kinds of cheese.

Good cows are selected, and they are kept on good old grass pastures, and fed a considerable quantity of oil-cake in addition.

Overfeeding, either with too rich grass or too much oil-cake, is counted just as bad in its results as underfeeding. This is probably the reason why this variety of cheese is so successfully made in Leicestershire, and failure often follows when it is attempted elsewhere, the lack of success being due, to some extent at least, to the quality of the pasture. In the district named the pastures and meadows have a tenacious clay subsoil, and this condition is believed by many to give grass of just the right quality.

In the manufacture of pure Stilton cheese there are four requisites necessary to insure success. These are: Proper buildings, apparatus, or utensils, skilful supervision and absolute cleanliness.

As regards buildings, four separate apartments are required, as follows: (1) The dairy, for setting the milk and draining the curd. This should be kept at a temperature ranging from 55° to 60°—never lower than the first nor higher than the second. The size will vary with the amount of milk used. Twelve feet by fourteen feet makes a very convenient room. (2) A draining-room with one entrance only, which should be kept at a temperature of 65° and be eight feet by twelve feet. Both the dairy and draining rooms should have cement floors and be provided with well-trapped drains. (3) The drying-room, ten by fourteen feet, which should be kept at a temperature ranging from 50° to 55°. This room must be fitted with windows which will give ventilation and assist in regulating the temperature. (4) The storing-room, fourteen feet by twenty-four feet. This is not always so built, but should have the floor about two feet below the surface, so that the air will be of the proper moisture. The temperature may range from 50° to 60°. A somewhat higher temperature will ripen the cheese more quickly, but it will not keep so well after being cut as one matured at the temperature named.

All of the buildings named above should be shaded by trees, and where possible given a northern exposure. The size of the different rooms will be found sufficient for an ordinary farm dairy of from fifteen to twenty-five cows.

The method of manufacture where pure Stilton is made is quite uniform, and is essentially as follows: The evening's milk is cooled immediately after milking to a temperature of 65°. It is then put in a large tin pan or vat eight inches deep, and sufficiently large to hold the milk. This vessel is so placed that the milk can be readily poured in and as conveniently drawn off. In the morning draw off one sixth of the milk and set it aside for other use. Then draw off an ordinary tin bucketful and heat to 110° by immersing in hot water, stirring occasionally while being heated. Pour this in the setting-pan or curd-vat, draw off another bucketful, heat as before and continue until the receiver is empty. The cream which is drawn last is only heated to 98° instead of

110°. Add the morning's milk after it has stood half an hour, preventing the cream from rising in the meantime by stirring. The entire milk should have a temperature of 84° or 86°, varying with the outside temperature.

The rennet is now added. This may be home-made or Hansen's rennet tablets. In from ten to fifteen minutes the milk will be coagulated, and in about two and a half hours the curd will be ready to put in the draining-trough, which is six inches deep, with sloping sides. Rods of iron or wood are placed at equal distances across the top of the trough in order to support the edges of the cloth into which the curd is placed. These cloths, or strainers, are four feet square, each piece large enough to hold the curd of about seven gallons of milk. When the strainers are all filled the four corners of each are tied loosely together. The whey is allowed to remain in the trough for from one half to three quarters of an hour. It is then drawn off and the curd is tied tighter. Great care is taken in the repeated tyings not to crush the curd or cause the whey to run white. It should be of a greenish color at all times. In from six to seven hours the curd will, if properly tied, be sufficiently firm to cut into blocks the size of a half brick. These must be laid over the bottom of the draining-trough and in two hours each piece carefully turned. It is then left till morning, when it is ready to break and salt preparatory to being put into the hoop, or mold. The curd is broken in pieces about the size of a hickorynut and salt is mixed in the proportion of eight ounces to thirty pounds of curd.

The curd is now put into the hoops, being lightly pressed with the hand during filling. When filled they are at once carried to the draining-room. A light wooden weight or sinker, that will just pass inside the hoop, is placed on top of the curd. Sometimes additional weight must be added, but this is usually sufficient. After standing three hours the hoop is turned, and the sinker placed on top as at first. This is repeated at regular intervals three times a day.

For several days at each turning the cheese is skewered with a steel pin or skewer through small holes in the sides of the hoop. The hoops are regularly washed every morning with warm water.

If everything has been properly managed, the cheese will be ready for the binder in about six days. Before the binder is put on all the little holes in the side of the cheese are filled by slowly drawing the flat side of a knife up and down. By this means the side of the cheese is made smooth and even. This may be repeated the second day, also, after which the hoop is discarded. In from six to eight days a coat will have formed on the cheese, and it is then taken to the drying-room. It now requires turning every day, and the air must be kept at the proper degree of moisture and temperature.

The cheese, if well handled throughout, will be ready for use in about six months from making. By this time it should be well veined with blue, caused by a minute fungus growth, and have a flavor and odor peculiarly its own. Pure Stilton cheese is very rich, for as has been shown, it is made with a somewhat larger percentage of cream than is found in natural milk. In the more variable temperature and drier climate of the United States the process of making this cheese would have to be modified somewhat, but our cheese-makers might find it to their advantage to experiment carefully along this line.

WILLIAM R. LIZENBY.

**FARMER'S MAIL DELIVERY.**

The farmer is entitled to free mail delivery. He pays taxes. Public libraries, schools, churches and entertainments are not so easily accessible as in the city, yet the farmer, in some towns, pays taxes almost as high as those in cities. This ought not to be so, but it is.

The government cannot say to the farmer, "If you want free delivery of mail, you must move into the city." No. The

farmer must stay where he is; the government wants him to stay where he is; and yet some newspapers have advised the farmer "to come within reach" if he wants such luxuries as free delivery.

The postal receipts are not equal to the disbursements, it is true; that is to say, they were not last year, but the farmer has done more to swell the receipts than thousands in cities. The farmer who has paid taxes for fifty years, perhaps served in the war of the rebellion, cannot have free delivery of mail, but the immigrant arrived yesterday may have his letters delivered two or three times a day.

Free delivery would free the farmer in some places from a little embarrassment—release from a system that has grown up—evolved itself from circumstances. In many agricultural districts it is the custom of farmers living near each other to bring each other's mail. Generally this is satisfactory, but occasionally it is embarrassing. When the farmer receives a postal card by the courtesy of his neighbor, telling him that the interest on his mortgage is due and must be paid, naturally he wishes that the mail came in some other way.

He might change, perhaps, but not, possibly, without giving offense. It is a convenience to have the mail brought, but he wishes to keep his affairs to himself, especially his "duns." The government, however, is not responsible for this state of things, but the free delivery of letters would be a great relief to many farmers from the fact just stated. The farmer has contributed enough to the prosperity of the country to have all the mail facilities the government can afford.

GEORGE APPLETON.

**HOW LONG TO KEEP SHEEP.**

To answer the question in a general way, how long a sheep should be kept, we would say as long as it is profitable. This, though, is dependent upon the purpose for which sheep are kept and upon the breed. When wool growing was the sole intention and purpose of keeping sheep, the Merino was the most profitable sheep, because it gave larger fleeces and more valuable wool, and its longevity was an important characteristic. Not infrequently a Merino sheep was profitable at ten, twelve and sometimes greater age, both for lambs and wool. It is now quite evident that grave errors and damages were made in breeding sheep at such extreme ages.

At this time, when intense sheep raising is practiced, a better plan is to dispose of sheep as soon as they reach their best commercial value. This may be at three years or three months, and again at three weeks old. The market value determines the best time to sell the surplus of the flock. When the time comes that there is the most clear profit, whether it be a lamb, a breeding animal or a mature mutton, that is the best time to sell it. There need be no false ideas on the question; it is purely, simply a matter of financial economy to be decided by circumstances and market prices. It is a false notion to keep a sheep as long as it lives; until there is no profit in it; until it dies of old age. Some breeders make it an unvarying rule to put everything off at four, some at five years old, and thus keep the flock young. It may be well to follow some such rule, but that rule should be in accord with the above; the time to sell is when there is the most new money in a sheep.

R. M. BELL.

The pleasant autumn, with its beautiful coloring of foliage and keen, bracing air, warns us of the near approach of those festival and holiday seasons, when we as people universally follow the pleasing custom of assembling together upon the day designated in grateful Thanksgiving and again at Christmas-time, giving to our friends some token of our love and esteem. This year being the four hundredth anniversary of America's advent into the knowledge of man, makes the giving of one of our beautiful and handsomely framed pictures, "Columbus at the Royal Court of Spain," the most suitable present that can be selected. Decide upon it at once and order one without delay. See our offer on another page. A \$15.00 picture and handsome six-inch frame for only \$2.50.

**EXTRACTS FROM CORRESPONDENCE.**

FROM INDIANA.—Our farmers have an abundance of material, but are scarce of cash. All the cereals and fruits adapted to this climate do well here. We have as rich a soil as there is in the United States. Geologically speaking, this is probably the richest county in Indiana. Our people are sober, moral, and a large portion of them religious. Wheat is worth 70, corn, 80 and oats, 35 cents a bushel. Hogs are worth \$5 and \$5.25 per hundred weight.  
Bloomington, Ind. J. H. N.

**Recent Publications.**

**EXPERIMENT STATION BULLETINS.**

Sent free, on application, to residents of the state in which the station is located. Address Agricultural Experiment Station.

ARKANSAS.—(Fayetteville) Fifth annual report, for 1891-92.

COLORADO.—(Fort Collins) Fourth annual report, for 1891. Bulletin No. 20, August, 1892. The best milk-tester for the practical use of the farmer and dairyman. The influence of food upon the pure fat present in milk.

INDIANA.—(La Fayette) Bulletin No. 41, August, 1892. Field experiments with wheat. Forms of nitrogen for wheat.

KANSAS.—(Manhattan) Bulletin No. 33, August, 1892. Experiments with wheat.

KENTUCKY.—(Lexington) Bulletin No. 42. Experiments with wheat and oats.

MAINE.—(Orono) Annual report, for 1891, parts IV and V.

MASSACHUSETTS.—(State Station, Amherst) Bulletin No. 43, August, 1892. Weather observations. Winter feeding experiments with lambs. Miscellaneous analyses of materials used for manurial purposes. Analyses of commercial fertilizers.

MICHIGAN.—(Agricultural College P. O.) Bulletin No. 87, September, 1892. Smut in oats and wheat—the Jensen or hot-water treatment.

NEW YORK.—(State Station, Geneva) Bulletin No. 43, June, 1892. Experiments in the manufacture of cheese during May. Bulletin No. 44, August, 1892. Strawberries.

PENNSYLVANIA.—(State College P. O.) Bulletin No. 20, July, 1892. Tests of dairy apparatus.

TENNESSEE.—(Knoxville) Bulletin No. 3, Vol. V, July, 1892. A contribution to the study of the economics of milk production.

VIRGINIA.—(Blacksburg) New series, Vol. 1. No. 1. Tests of fertilizers on tobacco. No. 2. Antiseptic treatment of wounds; infectious abortion in cows. No. 3. Chemistry of the tobacco-plant. No. 4. Treatment of the diseases of the grape. No. 5. Co-operative corn tests. No. 6. Four diseases of the apple.

WASHINGTON.—(Pullman) First annual report, for 1891.

WEST VIRGINIA.—(Morgantown) Bulletin No. 25. Experiments with commercial fertilizers on wheat.

WISCONSIN.—(Madison) Bulletin No. 32, July, 1892. Feeding grain to lambs.

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Re-designed and much improved, furnishes power to PUMP, GRIND, CUT FEED, and SAW WOOD.

Price Cut to \$75  
For 12-ft. Steel Geared Aermotor.  
Does the work of 4 horses at half the cost of one, and is always harnessed and never gets tired. With our Steel Stub Tower it is easy to put on barn. Send for elaborate designs for putting power in barn.  
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THE LIGHT BRAHMAS.

THE Light Brahma is the largest of all breeds, and has the advantage of possessing a small pea-comb, which protects it against the frost.

For improving the common fowls, the Brahma breed is excellent, as not only size, but hardiness and prolificacy are added.

THE COMFORT POULTRY-HOUSE.

The illustration, styled the "Comfort Poultry-house" by the designer, Captain Phillips, of Chicago, and the general outline is made plain in the cut.

HENS AND BROODERS.

The hen can well provide for her brood in the spring, when the weather is mild, but at this season a hen with a dozen chicks requires as much care as a brooder holding one hundred chicks.

POULTRY-HOUSE FLOORS.

We are often requested to state which kind of a floor is best for a poultry-house. This depends on circumstances.

floor dry, make it more comfortable by shutting off drafts, and render the work of cleaning out the house less difficult.

SWELLED HEADS AND EYES.

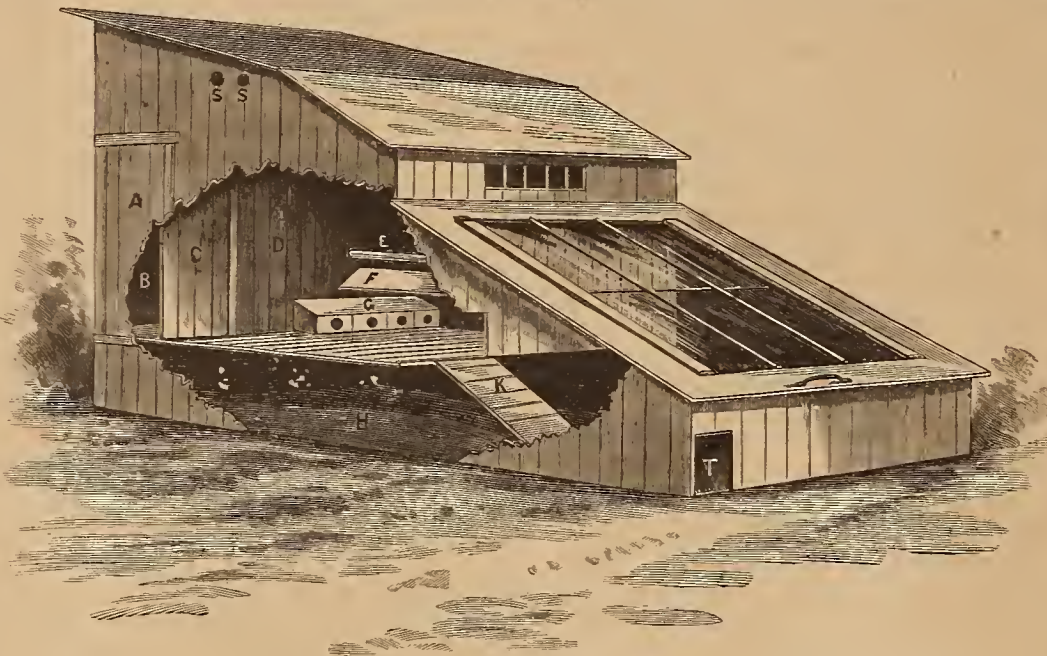
A majority of the inquiries received by us are in regard to blindness, swollen heads and eyes and rattlings in the throat.

SOUR MILK.

Sour milk should be used for mixing ground grain, as it will not only then be more acceptable to the fowls, but will also improve the mixture.

COOKED ROOTS.

When turnips or potatoes are cooked and thickened with bran, the result is a cheap



COMFORT POULTRY-HOUSE.

mess that is highly relished by all kinds of poultry, as the cooked roots afford a variety.

BONES OR OYSTER-SHELLS.

It is difficult to procure oyster-shells, except at a greater cost than is desired, by those who live far from the sea-coast.

SCALDED FOWLS.

If all fowls were scalded after being killed, instead of dry picked, the skin would be cleaned and the feathers more easily removed.

LOOKING FORWARD.

Never attempt to go into the poultry business in a hurry. Begin at the foot of the ladder and progress gradually.

stead of purchasing them, for when you buy you are liable to bring disease and vermin into your yards.

INQUIRIES ANSWERED.

Mites in Winter.—Mrs. J. R. G., Manchester, Iowa, writes: "Will cold weather kill mites? They are in my poultry-house, and I have been at work with kerosene to dislodge them, but some remain."

Blindness.—H. M. M., Denver, Col., writes: "Some of my chickens appear to be blind, the eyes also being full of a whitish substance."

Result of Overfeeding.—W. J. R., Shawnee, Kansas, writes: "There is a disease among my chicks which I am informed is cholera."

Peafowls.—Mrs. H. A. D., Mansfield, Ill., writes: "Will some reader of experience give information in regard to peafowls—their habits, usefulness and market value."

REPLY:—We will be pleased to hear from any reader who has made a specialty of them.

Nothing On Earth Will MAKE HENS LAY LIKE

Sheridan's Condition Powder! KEEPS YOUR CHICKENS Strong and Healthy; Prevents all Disease.

It is absolutely pure. Highly concentrated. In quantity costs tenth of a cent a day. No other one-fourth as strong. Strictly a medicine.

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OVER 60 RELIABLE HATCHERS

HATCH CHICKENS BY STEAM. THE IMPROVED EXCELSIOR INCUBATOR

Will do it. Thousands in successful operation. Simple, Perfect and Self-Regulating. Lowest-priced first-class hatcher made.

IT HAS BEEN PROVED That green cut bone is the most economical and greatest egg producing food known.

Davis STUMP Puller Lifts 20 to 50 Tons. Worked by 2 men. 5 sizes. Price, \$35 to \$70.

A ROAD WAGON \$32.00

To introduce our goods, we will give one of these elegant Road wagons to any one who will sell Six (6) for us.

FOR ONLY \$24 APPLETON GRINDING MILLS

Which will GRIND from 10 to 20 BUSHELS PER HOUR, doing the work as well as any \$50 Mill on the market.

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BEST LINE CHICAGO TO Pacific Coast.

THOROUGHbred White Holland Turkeys for sale cheap if taken soon. M. Borton, Danascus, Columbian Co. O.

10 to 50% guaranteed to every user of NEWTON'S IMPROVED COW TIE

Many Old Worn-Out FARMS require so much fertilizing that farms and gardens Won't Produce a Profit.









## Our Household.

### SONG OF THE TYPEWRITER GIRL.

"It's 'clickity click, clickity click,'  
Till the very sound of it makes me sick;  
'Clickity click' from morn till night,  
And then in my dreams until broad daylight.  
'Clickity click' my living to win,  
Till my finger-tips are all worn thin.  
'Clickity click' till my brain's a whirl,"  
So sang a pretty typewriter girl.

"'Clickity click,' with the senior pard  
Eying me over his spectacles hard;  
'Clickity click,' with the junior pard  
Whispering, 'Really, don't work so hard.'  
'Clickity click' till my eyes are blurred,  
And I scarcely can see of my notes a word;  
Till my frizzes droop and my bangs uncurl,  
And I wish there was never a typewriter girl.

"'Clickity click' is the only song  
That rings in my ears through the days so  
long.  
'Clickity click,' though the heart may ache,  
Still the weary fingers no rest may take.  
'Clickity click' the machine must go;  
If one girl dies there are others, you know;  
But when I am dead, on my tombstone stick  
These words: 'She died of the clickity click.'"  
—*Wm. Edward Penney, in New Haven Palladium.*

### TALKS WITH MOTHERS.

The SEASON from November 1st till after Christmas is a very busy time with all mothers. Each day brings more to do than there are hours to do it.

By this time everyone will be beginning at least to fashion something for Christmas, and the wise ones will begin in time. For little remembrances, very pretty things can be found among the following list:

**CRAVAT-CASE.**—A pretty cravat-case can be made of plush. One just finished is of dark red plush lined with light yellow silk, large cord around. The length is twelve inches by nine and a half inches. Tie the lining in diamonds with silk; then take a needle and split the silk, so it makes a tuft. Etch the outside if you wish.

**SHIRT-CASE.**—A pretty shirt-case is made of one yard of surah silk. Nile green etched with red carnations in a circle is very pretty. Arrange the circles in twos and threes over the silk. Line with red silk and tie the same as the cravat-case. Place ribbons two inches wide near each end to tie. You fold the case so it is eighteen inches wide, to lay the shirts in. You want wide surah. Finish with a cord.

**COLLAR-BAG.**—A pretty and handy collar and cuff bag can be made of striped scrim, lined with sateen, with fancy ribbons drawn through to tie it with. Eighteen inches for length is a nice size, and twelve inches wide.

**PIN-BALLS.**—I have made pin-balls to use up odds and ends. Take a cup to draw by, the size you wish; cover one side of the pasteboard with plush, the other with silk. Put on No. 1 ribbon to hang it up. Then put in your pins so there comes one high for the center, next a little lower, next lower, then up again. It makes a star shape when done.

Odd bits of ribbon, say two inches wide by three inches long; take two colors, put in between court-plaster, punch two holes near one end, put through baby ribbon, tie small bow. Then fringe the other end a little way up.

**NEEDLE-BOOK.**—A cute needle-book is made by crocheting over a corset-lace, common crochet-stitch, round and round until the desired size. Make two sides alike, then buttonhole-stitch the flannel leaves. Tie with ribbon.

**FRINGE.**—The directions given for fringe in this number make very pretty edging for table-covers of momic-cloth or denim. It can be made of white knitting cotton or the Bargaren thread in the color your cover is worked in.

**ANCHOR.**—This device can be used as a decoration for handkerchief corners or on yacht pillows, and is worked in white linen or blue denim, or red upon white.

**CLOAK.**—November brings so many rainy days, it is well to be provided with a cloak. Many ladies dislike so much the water-proofs, which run the water off onto your shoes, that they are substituting cloaks made of cloth instead, which do not at least make one look such a guy on a dark

day. I always feel thankful when I meet some woman who has a touch of brightness about her on a rainy day—a flower, or a scarlet quill in her hat, or a touch of yellow somewhere.

**ODORS.**—If you want a pleasant odor through your house, place the branches of the Norway spruce in large-mouthed jars; in a few days new shoots will appear, and the green will be pleasant to look at. Our grandmothers had a great fashion for putting odors amongst their bed-linen. Bags containing half a pound of lavender flowers, half an ounce of dried thyme and mint (spearmint), cloves and caraway a quarter of an ounce (ground) and one ounce of common salt, put into a linen bag and hung in your closets will give a delicious odor to everything there.

**CHECKING CORPULENCE.**—A lady who returned from Europe the other day much thinner than when she left home about a year ago, says that she owes the reduction in her weight simply by partaking of one dish only at each meal. Of that dish, whatever it was (and she was allowed free choice), she ate as much as she desired, but there was "no variety." That was the physician's fiat, and the result was a complete victory over corpulence.

**FEVER-BLISERS.**—Fever-blislers, when they are allowed to develop, are very painful and most disfiguring, and yet they can easily be cured in the beginning by keeping a ball of saltpeter on hand and at their first appearance moistening the ball with water and rubbing it on the spot.

**LIQUID GLUE.**—It is sometimes convenient to keep a liquid glue in the house, and the following rule for making it is furnished by a correspondent: Soak eight ounces of the very best glue in half a pint of water, in a wide-mouthed bottle. When it has stood over night, set it in a dish of hot water. As it melts, add two ounces of nitric acid, stirring it all the time. There will be an effervescence. When this cools down, bottle the glue tightly, covering it with a piece of stiff paper soaked in spirits.

**FIRE-LIGHTERS.**—A box filled with asbestos on which a little paraffin-oil is poured and lit is a boon to the housekeeper who makes her own fires. Attach a handle to hold it by. L. L. C.

### A REPLY.

I read with much interest Mary B.'s article in FARM AND FIRESIDE of August 1st, and I agree with the hundred thousand other readers of that same article that there is more truth than fiction in it.

The farmer's wife does have a hard time in the majority of cases; yet I cannot help but think that she makes it harder for herself by refusing to adopt labor-saving methods. Too many will do everything by a cast-iron rule, come what may. I have a neighbor who, it seems to me, is deliberately killing herself by overwork, yet she does not think she does a thing more than is absolutely necessary. She has six children, the oldest not yet twelve years of age. She will iron every piece, from sheets to hose, and she never fails to bake pies, cakes or cookies and bread twice each week. Now, what is the use of all this ironing and baking? Of course, she is a model housekeeper. You all know how much that involves. Then, too, she admires flowers; so she cultivates them indoors and out. Besides these she tends a large part of their kitchen garden, too. She is only one among many thousands; you are familiar, reader, with just such women. Now, while we admire their noble, large-hearted and kindly dispositions, we cannot but condemn the mode they are adopting to commit suicide, when there are so many easier ways.

The question came to me while reading Mary B.'s article: Is it really necessary for Mary, or any other woman, whose husband is owner of so much land, to make butter for the market? Has she a right to barter her strength together with her butter for the oftentimes mere pittance she gets at the store? In many cases, the more a woman works the more she may work. She commences it, hoping to so help her husband that when their home is their own she may surround herself with comfort, and enjoy a bit of the freedom and pleasure we all crave. But she rarely accomplishes her desired aims. He thinks that as she has done such work she may continue to do it. You all know this is the way. I know wives of well-to-do farmers who will not let the creameries have their surplus milk or cream, solely because they believe they can "make more" by making butter to sell.

Oh, if you farmers' wives would only throw off this allegiance to the demon of

habit! Why not learn to slight some things and cease to do others entirely? Learn to enjoy the rocking-chair and the hammock, and your children. I make this plea to mothers of young children, for mothers of grown children do not, in many cases, have a hard time. More than money, more than clothes, more than anything else in the wide world is a genuine mother to her children.

I must protest against your advice, Mary, when it comes to plodding down to death. Do not, any of you, let yourself drift into that stony, despairing state. Go when you can and where you can. It will give you fresh thoughts to use as you work. It will cheer you, and through you, others to whom you can talk. It will help your family for long enough.

If I were you I would not buy silks, as Olympia wrote some time ago; woollens are much more serviceable. And unless you go more than most of us do, one dress a year for each of the seasons will be all you will need for best. I have found that it is better to wear dresses out than to hang them away to get out of date. Then, if you are a very busy woman, get a seamstress to come out from town to make yours and the children's clothes—at least the dresses. We employ a really good dressmaker at seventy-five cents a day. With our assistance she can get through with lots of sewing in a week. Many times you can exchange eggs and butter, or anything else that people in town have to buy, for work,

men say if they want a place for good, solid rest they pack off to the club for a few days, where they can enjoy undisturbed sleep and rest. It does seem as if their homes might afford it, but none of them do.

There are some people who think that friendship for you authorizes and entitles them to say the most disagreeable things to



EVENING COIFFURE.

you. Your near relations often improve this opportunity to regale you with all the shortcomings of your life, from your indiscreet childhood up, never being willing to allow anything to slumber in the forgotten past, so that no matter how far back you turned over a new leaf in your life, with the resolve to make the succeeding chapters more fair and beautiful, with one breath they blow back to the dark leaf. Except in rare cases, would it not be just as well to leave your friends to find out unpleasant things from the enemy who is always ready to tell the disagreeable truths, and that the nearer and dearer you are to a person the more tact and courtesy is necessary to preserve the beauty of the friendship?

So many times in life is it absolutely necessary to remember that "A word fitly spoken is like apples of gold in pictures of silver;" that "It is better to dwell in the corner of the house-top than with a brawling woman in a wide house;" that "Speech is silver, but silence is golden;" or, "Language was given us to say pleasant things to each other." I do not know as among the King's Daughters there has been formed a ten called "The Pleasant Word Ten," but I think it would do a vast amount of good in every home.

LOUISE LONG CHRISTIE.

### WHEN A WOMAN MARRIES.

"It's an old trick of the trade with novelists to tell how young women, when in love, never fail at a certain juncture to double lock their room doors, and with many flushes and heart-beatings write down their Christian name, coupled with the surname of the man whom they have promised or hope to marry," commented a young married woman lately wedded to a fine man of her choice. "I suppose it is the way with many sentimental girls, though I never did it myself; instead, I underwent a very different emotion, of which I don't think men have any comprehension, but which I find is not peculiar in my case.

"I mean grief at having to give up one's maiden name. All the time I was engaged I never took any thought for the day on which I was to drop my own nice surname and title, for which I had such a deep affection, and be addressed by my family, my friends and people to whom I was introduced by an entirely different one.

"For the first week after my marriage, even, I scarcely noticed the change, but one day there suddenly came over me a curious little lonesome feeling. It seemed so chilly and formal, so unlike myself to be addressed as 'Mrs.' at every hand, and never to hear my own dear, original name. The more I thought over the matter the more despairing I became. Never, never could I hear the old familiar 'Miss' when any one spoke to me.

"Thereupon I actually locked myself in my room and wept so long and bitterly from pure namesickness that my husband besought me carefully, through the key-hole, to tell him what was wrong. He was very much hurt when I first explained the cause of my grief, but when I brought him to a realization of my loss, he grew sympathetic, and, do you know, for a long time he called me by my maiden name. That wore off with the honeymoon, however, but even to this day I think sadly of my lost name."



CLOAK.

and as "a fair exchange is no robbery," where is the dishonor?

My home, like Gypsy's and Mary Sibley's, is on a farm. I know all the trials and perplexities that befall a country housekeeper, and I know, too, that we can save ourselves much labor if we will. I am sure we farmer folks could help each other in many things if we would—or, rather, if the editor will allow us.

The case, briefly stated, is this: Flesh and blood and a soul against overwork. Which shall conquer in your case?

ELZA RENAN.

### NAGGING.

What compensation has a man  
Who earns his bread by sweat of brow,  
If home is made a battle-ground,  
And life one long, eternal row?

—A Farmer's Wife.

It is astonishing to find the many otherwise good women who make the life of the family a perfect torture by a constant reference to little characteristics they may have. In one it will be disorder, perhaps through a life-long habit; in another it will be some fault of speech; in others it will be absent-mindedness.

Whatever it is, is it ever remedied by constantly nagging a person about it?

Any one who knows anything of club life would never blame a man for belonging to one. There is the one place he can go and enjoy the most perfect rest. I have heard

**A FEATHER BOA.**

She wore a feather boa  
That half hid her smiling face,  
Underneath a pretty bounet,  
With a veil of dainty lace,  
And I sat me down beside her,  
While I wished her a good day,  
And I told her she looked charming  
As a sunbeam's flashing ray.  
But she sudden turned upon me,  
And my brain was in a whirl,  
'Twas another feather boa,  
And 'twas on another girl.

**WINTER STYLES.**

Visiting the different dressmakers' and dress displays for the beginning of the season, very beautiful costumes are seen. These are in the Eton jacket style, or with long-fitting sack or the Russian blouse. They come ready made in all sorts of serviceable cloth, and one is far better satisfied to buy one of these beautiful suits ready made than to wrestle with one's dressmaker and spend days selecting material and trimmings. With a street costume, a house dress and a negligé tea-gown one would be fixed for the season.

In the long sack jackets I noticed quite a jump in prices; some at \$8.50, others of not very much better cloth but much better fit being \$15 and \$18. Upon asking the reason I was told that the better-fitting garments were cut out and made by higher-priced workmen. A little caution must be observed about the bell skirt, as it is on the wane, and dressmakers predict it will not last through the season; indeed, in the larger cities it is being rapidly superseded by a skirt cut by a pattern and having straight breadths in the back. In a good quality of cloth or velvet the bell skirt can be made a dream, but in soft material, China silks, erape and such goods it is a delusion, and when shortened to walking length, can become after a few wearings the most provoking thing on earth, by hitching up in the back and persistently dipping upon the sides. Let it go. We as women are tired of it, tired carrying a demi-train, and sigh for some sort of a short skirt that will hang.

**EVENING COIFFURE.**—The addition of ribbon or ribbon velvet to the hair is a feature of the season, and very becoming if suitable colors are adhered to. Also the effective use of chiffon or silk ruffles about the neck. **LOUISE LONG CHRISTIE.**

**SKELETON OR PHANTOM LEAVES, AND SEED-PODS.**

In autumn wanderings through woods and valleys, how pleasant to have some definite object in view. The collecting of leaves and seed-pods for skeletonizing, of foliage or flowers for drying for a herbal, or a little later on, of cones, acorns, beech mast, etc., for ornamenting baskets, making looking-glass or photo frames, etc., is all amusing and instructive occupation. At the smallest possible cost the loveliest of ornaments can be made, which are considered to be worthy of a place in the most elegant of drawing-rooms or boudoirs. Groups of skeleton or phantom foliage, well mounted and arranged, for beauty can scarcely be surpassed. For table decoration they can also be successfully introduced, and for mixing with evergreens to fill vases, etc., when flowers are scarce. Whilst collecting for skeletonizing, large leaves with long stalks, or branches of foliage in their richest autumn tints, may be gathered, and bowls or vases filled with them make a bit of rich color with which to brighten up a dark corner.

Some young people who have been brought up in cities or towns know little or nothing of the beautiful varieties of our woodland foliage, and, perhaps, may even have some difficulty in distinguishing the leaves of one tree from another, but once interest them in an object to work at, it is curious how easily they will acquire knowledge of the kind, and how much it will add to the pleasure of a country walk or drive.

The most beautiful leaves for skeletonizing are those of the ivy, Deutzia, begonia, Wistaria, silver poplar, Chinese and swamp magnolias, maples, weeping-willow, linden, elm, pear, apple, witch-hazel, sycamore, beech, oak and wild cherry. Of seed-vessels, the pods of the teazle, thorn-apple, berberries, Rhododendron, Lapageria, mallow, wild cucumber, poppy and Campanula are all desirable; and to these should be added the dried flowers of the hydrangea to be gathered late in September, and the dried flowers of the lily-of-the-valley.

To begin, the objects to be skeletonized should all be selected with great care; see that they have not been attacked by insects, that they are perfect in form, and that they are neither too old nor too young; they

should be firm and mature. A pan of rain-water and plenty of blotting-paper are all the requisites when you have some specimens ready to manipulate.

The leaves of elms, magnolias, poplars, sycamores, Deutzias, pears and maples may be selected to commence with, as they are the first to become fit for maceration; but none but the firmest leaves should be taken. The leaves are to be put in open earthen or glass vessels, covered with rain-water and placed in a warm, sunny situation. In about two weeks they should be examined by taking out a few leaves and placing them in a basin of clear, warm water; then immersing the hand in the water, take a leaf between the thumb and finger, rub it gently but firmly, and if it is sufficiently macerated, the loose cellular matter will pass freely from the network, which will be exposed to view. Those that are only partially softened should be thrown into clean water, and allowed to macerate for some time longer; but care must be taken by frequent examination not to allow the leaves to remain in the

are dry they at once become firm and strong, but great care should be taken in pressing them flatly and evenly, so that none of the edges are turned up or in any way injured. It is a good plan to have two mill-boards, of the size of the sheets of blotting-paper, fastened to them, above and below, with bands of elastic, so the skeletons can be kept flat and straight.

For bleaching: Take one quarter of a pound of chloride of lime and dissolve it in one quart of water in an earthen or glass vessel; let it dissolve and precipitate; filter through filtering-paper and bottle for use. Of this solution add one to nineteen spoonfuls, or one twentieth part of whatever quantity may be needed to cover the leaves. Immerse the skeletons in this solution until they are perfectly white, using an earthen or glass jar, covering it and putting it in a warm place. Leaves and seed-vessels should not be put in the same jar, and the coarse skeletons should be kept separate from the more delicate ones. When taken from this solution they are to be thoroughly cleansed by washing them

have been separated from the leaves to them again; or if the artificial stems are needed, stiffen some crochet or other coarse white sewing thread with the gum arabic, having artificial stems of different stoutness to suit the different kinds of leaves. The stems of the leaves are to be fastened to the velvet or to the framework of the design.

**RECIPES.**

**BAKED PEARS.**—Hard pears make an excellent dessert when baked. Pare, halve, remove seeds and place in a shallow earthen dish, with a cupful of water to each two quarts of fruit. If the pears are sour, a little sugar may be added. Bake closely covered in a moderate oven until tender. Serve with sugar and cream. Tart pears are the best for baking, as the sweet varieties are often tasteless.

**BAKED APPLE SAUCE.**—Pare, core and quarter apples to fill an earthen crock or deep pudding-dish, taking care to use apples of the same degree of hardness and pieces of the same size. For two quarts of fruit thus prepared add a cupful of water, and if the apples are sour, a cupful of sugar. Cover closely and bake in a moderate oven several hours, or until of a dark red color.

**APPLES WITH APRICOTS.**—Pare, core and quarter some nice, sour apples. Put them to cook with two halves of dried apricot for each apple. When tender, make smooth by beating or rubbing through a colander, and sweeten. Dried apples may be used in place of fresh ones.

**MASHED CHESTNUTS.**—The large variety, known as the Italian chestnut, is best for this purpose. Remove the shells, drop into boiling water and boil for ten minutes, take out, drop into cold water and rub off the brown skin. Have some clean water boiling, turn the blanched nuts into it and cook until they can be pierced with a fork. Drain thoroughly and mash through a colander with a potato-masher. Season with cream and salt if desired. Serve hot.

**BAKED PEACHES.**—Peaches which are ripe but too hard for eating are nice baked. Pare, remove the stones, and place in loose layers in a shallow earthen pudding-dish with a little water. Sprinkle each layer lightly with sugar, cover and bake.

**BRAN STOCK.**—For every quart of stock desired boil a cupful of good wheat bran in three pints of water for two or three hours, or until reduced one third. This stock can be made the base of a variety of palatable and nutritious soups by flavoring with different vegetables and seasoning with salt and cream. An excellent soup may be prepared by flavoring the stock with celery or by the addition of a quantity of strained stewed tomato sufficient to disguise the taste of the stock. It is also valuable in giving consistency to soups, in the preparation of some of which it may be advantageously used in the place of other liquid.

**TOMATO TOAST.**—Moisten slices of zwieback in hot cream, and serve with a dressing prepared by heating a pint of strained stewed tomato to boiling, and thickening with a tablespoonful of corn-starch or flour rubbed smooth in a little cold water. Season with salt and half a cupful of hot cream. The cream may be omitted if desired.

**STEWED RAISINS.**—Soak a pint of good raisins, cleaned and freed from stems, in cold water for several hours. When ready to cook, put them, with the water in which they were soaked, in a fruit-kettle and simmer until the skins are tender. Three or four good-sized figs, chopped quite fine, cooked with the raisins, give an additional richness and thickness of juice. No sugar will be needed.

**BEAN AND CORN SOUP.**—Cold boiled or stewed corn and cold baked beans form the basis of this soup. Take one pint of each, rub through a colander, add a slice of onion, three cupfuls of boiling water or milk, and boil for ten minutes. Turn through the colander a second time to remove the onion and any lumps or skins that may remain. Season with salt and half a cupful of cream. If preferred, the onion may be omitted.—*Science in the Kitchen.*

**A GOOD CLEANSING FLUID.**

The following is an excellent cleansing fluid, especially useful when men's garments require renovation:

Dissolve four ounces of white castile soap shavings in a quart of boiling water. When cold, add four ounces of ammonia, two ounces each of ether, alcohol and glycerine and a gallon of clear, cold water. Mix thoroughly, and as it will keep for a long while, bottle and cork tightly for future use. This mixture will cost about eighty cents, and will make eight quarts. In using, dilute a small quantity in an equal amount of water.



WINTER STYLES.

macerating vessel after the epidermis can be readily removed, otherwise the network will be injured. This is an important point, as the network of many species is delicate, and the pulp is difficult to remove without tearing or injuring the network; it is advisable to use a soft tooth-brush or a poonah-brush. Placing the leaf in the palm of the hand or in a plate, gently brush away the pulp, keeping it continually moist. After the leaves are thoroughly cleansed they are to be dried by carefully pressing them between the folds of a soft towel or between sheets of blotting-paper, and then the skeletons may be laid away in a box to await the bleaching process, which may be done at any convenient time. Care must be taken in the drying process not to press the leaves so firmly as to cause them to adhere to the towel, as it is almost impossible to remove them without tearing. Hence the superiority of blotting-paper over the towel. If any of the leaf stems should separate or break from the leaves, they are to be preserved, as they can be fastened to the leaves as hereafter directed. When the skeletons

several times in fresh, clear water, then dry with great care in the folds of a soft towel and keep them between the leaves of a book until wanted for mounting. Some of the delicate ones are apt to curl in drying; in this case they may be dried between sheets of white blotting-paper. It is very important to have the washing thoroughly done; otherwise, they are apt to become yellow, which spoils their beauty. The whole process requires continual examination and careful manipulation, as the different species of leaves vary much as to the time necessary for perfect maceration and bleaching, the first process requiring from two weeks to four months, according to the character of the leaves. In mounting the design, the cushion upon which it rests should be of dark-colored velvet; but they always show better if mounted on a flat surface made of white wood, upon which a piece of velvet has been glued; if on a flat surface, they may be mounted in a recessed picture-frame, with glass over them. Dissolve some white gum arabic in water, so as to be quite thick; with this you can gum the stems that may

## Our Household.

### ROMANCE AND DYE-STUFFS.

The sumac-tree down by the brook,  
Grown crimson out of season,  
Is fair as when long since I took  
Sweet Maud down there and bravely shook  
Broad branches that had bees on;  
Shook down the bright leaves for her hair,  
The red cones for her bodice.  
Nor cared a copper though a pair  
Of goose-egg lumps fell to my share—  
"Naught hurts," quoth I, "where Maud is."  
Five years, and then again we sat  
Beneath the sumac's crimson;  
I plucked bright clusters for her hat  
And kissed her lips so warmly that  
She cried: "Now don't, Jack Simson."  
I loved her then. Now years have fled,  
And Maud has wed a farmer.  
I saw her gathering sumac red  
This morning, and she quaintly said:  
"Jim thinks red shirts is warmer."  
—*Hervey Smith Tower, in Good Form.*

### HOME TOPICS.

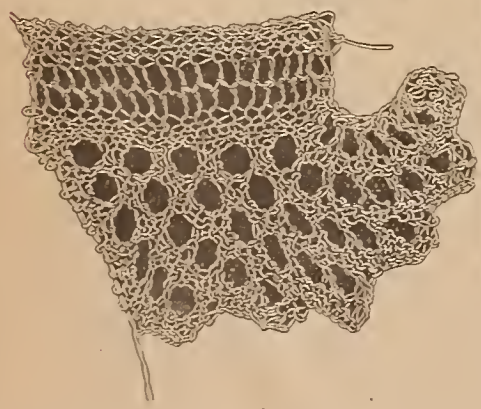
**CHEAP FRUIT-CAKE.**—Take two thirds of a cupful of molasses and add sugar enough to fill the cup, half a cupful of butter and fill the cup with boiling water, one egg, two and one half cupfuls of flour with one teaspoonful of soda sifted in, one half teaspoonful each of ginger, cinnamon, allspice, cloves and nutmeg, one cupful of raisins (seeded and chopped) and half a cupful of currants. This recipe may be doubled, as it makes a cake that will keep three or four weeks and be as good as when freshly baked.

**SPONGE-CAKE.**—Separate the yolks and whites of three eggs and beat the yolks with one cupful of sugar; beat the whites to a stiff froth and add them. Sift one cupful of flour and one teaspoonful of baking-powder twice and beat it in. The last thing, put a pinch of salt and a teaspoonful of lemon extract in a cup and pour in one fourth of a cupful of boiling water and add it slowly to the cake, beating all the time. Bake in a shallow pan in a rather quick oven. If this is baked in a large, thin sheet it makes a nice rolled jelly-cake.

**CHOCOLATE FILLING FOR CAKE.**—Put one half cupful of milk in a double boiler or in a bowl set in a pan of boiling water; when it is boiling hot, add three tablespoonfuls each of grated chocolate and granulated sugar, and stir in quickly one beaten egg.

**CLOSET HINTS.**—I often wonder if there ever was a house built with closet-room enough. In many houses the most of the closets are little, shallow affairs put in beside the chimney, only large in one dimension, and that is in height. Shelves may be put in at the top and bags fastened to the door, and yet they lack space. A new plan to increase their capacity is to have a box built in, the size of the floor, but not deep enough to interfere with dress skirts hung on the hooks. Make this of cedar if you can, but in any case make it with tight joints and a close-fitting, hinged lid, so it will be moth-proof. In this the winter clothing may be packed in summer and the summer clothing in winter. No danger but that you will find uses enough for it.

In talking with a friend not long ago about a plan for a house, after telling of the



SHELL LACE.

pantry, store-room, china-closet, linen-closet and large closets for clothing opening out of every sleeping-room, she said:

"And I am going to have a little medicine-closet in the sitting-room, which shall contain nothing else, and here all the various bottles, etc., must be kept. I am so tired of having camphor, witch-hazel, turpentine, peppermint, liniment and other bottles standing around wherever they have been used."

I thought that a good idea; then each member of the family would know just where to find any of those things. Besides the bottles of simple remedies I would

keep here a little lamp-stove, mustard for plasters, rolls of old linen, cotton and flannel, adhesive plaster, a hot-water bag and a small saucepan in which to heat water.

This closet should be placed about two feet above the floor, be two feet wide, sixteen inches deep and four feet high. At the bottom put two drawers, and shelves above at different heights as will be most convenient. Such a closet will be found very convenient in case of accident or sudden illness, when it is important to have some remedies at hand without a minute's delay.

MAIDA McL.

### COLD BATHING IN THE MORNING.

Cold bathing in the early morning is beneficial only to those who have sufficient vital energy and nervous force to insure good reaction with no subsequent languor or lassitude. Many persons who are greatly refreshed by their morning bath feel tired or languid two or three hours after it. When this occurs, it is conclusive evidence against the practice. Persons who have an abundance of blood and flesh, who are lymphatic or sluggish in temperament and whose nervous force is not depleted, can take the cold morning bath to advantage.

Others who are inclined to be thin in flesh, whose hands and feet become cold and clammy on slight provocation, who digest food slowly and assimilate it with difficulty, who are nervous and who carry large mental burdens, should avoid early morning bathing. For all such, the bath at noonday or before retiring at night is far more desir-



MEDICINE-CLOSET.

able, and it should be followed by rest of body and brain till equal conditions of circulations are re-established. Some individuals who are weak in nervous power have such excitable peripheral nerves that they get at once a perfect reaction from cool bathing, but lose in after effects more than the value of the bath. This class of persons should not bathe too often, and should always use tepid water, choosing the time preferably before retiring.—*Jennness Miller.*

### SHELL LACE.

Cast on 22 stitches. Knit across plain the first time.

First row—Slip 1, knit 3, thread over, purl 2 together, knit 3, thread over and narrow seven times, knit 1.

Second row—Knit 2, purl 1, repeat across the entire needle.

Third row—Slip 1, knit 3, thread over and purl 2 together, knit 22.

Fourth row—Knit 22, thread over, purl 2 together, knit 14.

Fifth row—Slip 1, knit 3, thread over, purl 2 together, knit 22.

Sixth row—Slip 1, knit 1, then slip and bind off 6 stitches, knit 15, thread over, pull 2 together, knit 4.

### MAKING SCRAPPLE.

Scrapple is made from the liver of a pig cut in pieces with the meat from the head and scraps that will not grind up for sausage, making in all about five or six pounds. Let the meat boil till the bones can easily be separated from it. Strain the liquor in which the meat was boiled and put it back on the stove. Separate the bones from the meat and chop up the meat as fine as you can. To every pound of meat add a teaspoonful of salt and a salt-spoonful of pepper, and to the five pounds a teaspoonful of sage and a tablespoonful of sweet marjoram. Return the seasoned meat to the liquor in the pot and add equal parts of corn-meal and buckwheat till the

compound is as thick as mush. Lift the pot off the fire while you are stirring in the mush; it should be frequently stirred and lifted off the fire to prevent its burning. Turn it into pans about three inches thick and let it cool. When needed for use, cut it in slices and fry it like mush. It will keep several weeks in a cold place.—*New York Tribune.*

### WINTER READING.

A house barren of books is like a well devoid of water. I had a deal of sympathy for a friend who wrote me recently:

"I've been in this house for three days, and I am hungry for something to read. There is nothing but the Bible and a paper."

The above case is, happily, unusual. The idea that a farmer has nothing but the almanac in his library may be put down with some other stereotyped newspaper sayings.

Now that the long winter evenings are at hand, it would be well if each family would plan a reading course, varied to suit the ages of the family. Children's books are so delightfully written that grown-up people enjoy them with as keen a relish as the little folks; hence, they can cheerfully be spared a half hour before bed-time.

Perhaps the best enjoyment comes from the books which are in touch with our every-day lives. "The stories of English country life are delightful to me, but stories of society people in London have no charm for me," a bright country lassie told me the other day. It may be that the following suggestions may be helpful.

It seems to me that we, of all people, should know something of geology and mineralogy. Then let your book on science be some good text-book of the above; Dana's is very comprehensive, while Steele's is much more simple.

Then for the poets we have a wide range. Whittier, who has just entered within the gates, ought to be well known in country households; his "Snow Bound," "Among the Hills," and "Songs of Labor," are ennobling and endearing; no one ought to read them with a keener relish than the country people, for whom they were written.

Emerson's "Essay on Nature" ought to be a text-book in every family. It can be bought for a few cents. Read just a snatch of it: "The inhabitants of cities suppose that the country landscape is beautiful only half the year. \* \* \* To the attentive eye, each moment of the year has its own beauty, and in the same fields

it beholds, every hour, a picture which was never seen before and which shall never be seen again. The heavens change every moment, and reflect their glory or gloom on the plains beneath."

The stories? Yes, of course you must include them. "Adam Bede" or "The Mill on the Floss" give an excellent picture of English country life by one of England's best authors. Another story of country life is "Nature's Serial Story," by E. P. Roe. This story sometimes grows a trifle ideal, but a pretty romance threads it; it is also cheerful and wholesome while it is instructive. For the little folks, books by Louise Alcott, Mrs. Burnett, Kate Douglass Wiggin and many others can be recommended.

Let the birthdays, Christmas-time and other anniversaries be remembered, and the books will soon accumulate. Make the coming winter a profitable one by reading good books and thereby growing in knowledge.

MARY D. SIBLEY.

### CONTRIBUTED RECIPES.

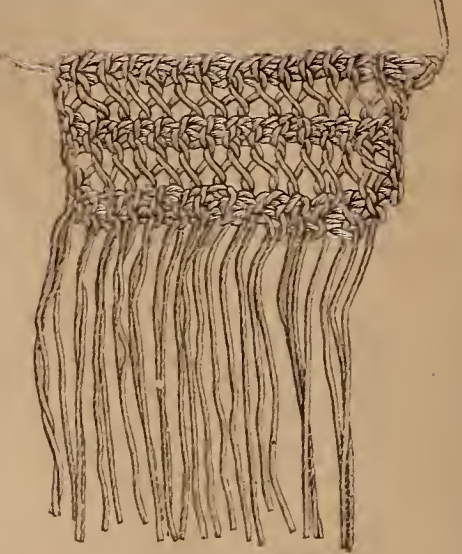
**NEW ENGLAND PUMPKIN PIE.**—Choose a medium-sized, ripe pumpkin of the kind variously named as "Yankee," "stock" or "field" pumpkin. Clean, pare and cut in inch pieces. Cook in an iron kettle, as it is thick and the pumpkin will not burn so easily. Put in a pint of water with the fruit. Cook rapidly, stirring occasionally, until it is like mush; place on back of stove and cook slower. It should cook nearly all day, and be of a brown color and quite dry. In the morning press through a colander. To three medium-sized cupfuls of the pumpkin add

1½ cupfuls of sugar,  
1 tablespoonful of powdered ginger,  
½ teaspoonful of salt,  
5 eggs.

Beat all together well, then add three pints of rich milk. Line three pie-tins with cream crust and fill with the mixture.

Bake one hour, keeping the fire the same as for bread. This recipe has been in our family at least three generations, and the pies are in good demand. If eggs are scarce, use one and one half tablespoonfuls of corn-starch instead.

MARY W.



KNITTED FRINGE.

### LOAF-CAKE.

3 cupfuls of raised dough,  
2 cupfuls of sugar,  
1 cupful of butter,  
3 eggs,  
1 nutmeg,  
1 teaspoonful of soda dissolved in as little water as possible.

Mix sugar, butter, eggs, soda and nutmeg, then add the dough and mix well with the hands. Bake without another rising. Try and report.

MRS. J. R. A.

*Hye, Texas.*

### LEMON CAKE.

For the layers:  
1½ cupfuls of sugar,  
¼ cupful of butter,  
3 eggs,  
1 cupful of milk,  
2½ cupfuls of flour,  
2 teaspoonfuls of baking-powder.

### Cream for cake:

1 lemon (juice and grated rind),  
3 tablespoonfuls of flour, or 1 table-spoonful of corn-starch,  
1 egg,  
1 cupful of sugar,  
1 cupful of hot water.

*Stamford, New York.* ALICE. H. R.

**SAUSAGE ROLL.**—Make with milk a light, raised biscuit dough and let it rise over night. In the morning roll it out and cut with a good-sized biscuit-cutter; in the center of each place a piece of sausage the size of a hickorynut and roll it up in the dough; after letting them stand a few minutes to rise again, bake and serve hot.

MRS. CAROLINE SCOTT HARRISON.

### KNITTED FRINGE.

Cast on 14 stitches.

First row—2 plain, over, narrow, 1 plain, over, narrow, 7 plain.

Second row—8 plain, over, narrow, 1 plain, over, narrow, 1 plain.

Repeat these two rows until you have the required length of the fringe you wish. The first eight rows are for the heading, and are to be cast off. The next six rows are to be dropped from the needle and pulled out for the fringe.

Lay a damp cloth on the raveled part, and iron to remove the crinkles. This fringe is pretty knit with woolen yarn or with cotton or linen thread.

*Monango, N. D.* M. A. OBERMAN.

### BUYING CHRISTMAS GIFTS.

The other day a well-known lady said to a friend: "The greatest trouble of my life has been deciding what to buy as Christmas presents. This year I took the papers, read all the advertisements and then sat down in cold blood and made the following list. Why, when the list was made the work was done. Never again will I be seen walking frantically up to a clerk, begging her to tell me what I shall buy for the house-girl or the children's school-teachers. I have got 'em on my list, and here it is:

"For the cook: A high-art two-dollar rocking-chair, or a tin set for her wash stand, or half a dozen plates or tumblers. For the house-girl: A muff, or a shoulder-cape, an album or a pair of kid gloves, or a few nice handkerchiefs. For the yard-boy: A bottle of cologne, a nice pocket-book, a pair of wristlets or a walking-cane. For the children's teacher: A lamp, an umbrella, a pretty table for her bedside, or a growing plant. For my daughter: A card-case and engraved cards, a cock's-feather boa, or a little moonstone pin. For my boy: A camera, a scarf-pin, or a silver







Farm Gleanings.

PUMPKIN PIE.

When "melancholy days" come 'round, and leaves get brown and red,  
When corn is shocked, and when you add a blanket to your bed,  
When apples, pared and quartered, are set in the sun to dry,  
This is the time to smack your lips and think of pumpkin pie.  
This pumpkin pie is a tempting dish to almost any fellow,  
So sweet and tender, luscious (yum!) and then withal so yellow,  
You stir up eggs and milk and spice and sugar—oh, my eye!  
And then you add the pumpkin, and that makes the pumpkin pie.  
—Brandon Bamer.

THE RELATIONS OF PUBLIC HIGHWAYS TO RAILWAYS.

A LETTER TO PRESIDENTS OF RAILROAD COMPANIES.

PERMIT me to urge upon your attention the great importance of good roads as feeders to railroads. Throughout the United States the condition of the common country roads is the index to the prosperity of railroads. When highways are impassable, freight and passenger earnings are necessarily diminished and the price of railroad securities lowered; when the roads are in good condition, merchandise is accumulated at the depots, and in moving it trains are delayed and accidents increased. A uniform good condition of roads would enable railroads to handle freights more expeditiously and advantageously.  
Good roads are the means by which a country is built up populously and prosperously; bad roads delay civilization and cause districts to be sparsely settled and poverty and ignorance to abound.

The railroad companies of this country, representing millions of employees and billions of capital, and controlled and directed by men of high intelligence, have a commanding influence in every legislative hall in the United States.

Every railway corporation can request its officers, agents and employes to do what they can to create a right sentiment in regard to the improvement of highways in their respective neighborhoods; and all along the various lines depot masters and freight agents could report to a road department established by the company the condition of the roads in their towns and what is being done to improve them. These depot masters could be furnished from time to time with pamphlets containing instructions for the construction and maintenance of highways, for distribution to persons doing business at their stations, and thus educate them how to build better roads, as well as teach them that better highways effect saving in transportation. Any railroad running through a territory having good roads must have a great advantage over a competing line with poor roads from its stations.

The executive officers of a railroad corporation can instruct representatives in Congress on the importance of better highways so that favorable legislation may be secured; newspapers to whom railroad companies extend their patronage might be requested to devote space to agitating this matter.

The building up of suburban districts, which is of such a profitable character to railroads, is first brought about by the construction of good roads by those who wish to sell land.

Aside from the material advantages that may accrue to a railroad by its aiding in the work of agitating this subject, there is to be considered the broader question of the great benefits that might be conferred upon the entire community.

Will you not aid this great movement which is of so much national importance?  
ALBERT A. POPE.

SWEDISH DAIRYING.

There are two points in which the people of Sweden are not behind the foremost nations of the world, and those are inventions and dairying. The people of Sweden seem to have a natural talent for making inventions, and some of the most important of those applied to dairy science have come to us from this northern country.

One of the great objects of the Swedish dairyman is to increase his income. Whether this increase comes from a higher price received in the market, or from a cheaper manufacture, from a larger dairy

product or a more profitable use of refuse of the dairy, it is equally welcome.

With reference to this last item, namely, the profitable disposal of all refuse material, a Swedish dairy inspector, Mr. Rhenstrom, has worked out a method by which the so-called refuse becomes an item of considerable importance; in fact, under his methods there ceases to be such a thing as refuse in the dairy. Whey to be run into the gutter, or skim-milk to be fed at little profit to calves or pigs are, in Sweden, things of the past.

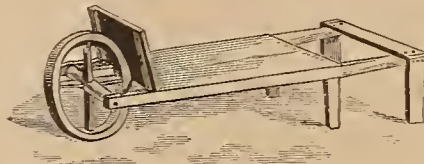
In the most modern method of Swedish dairying, skim-milk—sweet and sour—and whey become valuable raw material, which, properly handled, adds much to the income of the dairyman. The process is as follows:

Skim-milk is handled as in the manufacture of skim cheese, except that more rennet is used, and the precipitation is made at a higher temperature in order to be more complete. The product is pressed, dried and ground, and in this form, containing as it does a very large percentage of albuminoid material, is used in making compound feeding-cakes for horses, cattle, etc. The whey remaining after the curds have been removed, as above described, or in ordinary cheese-making, is mixed with an equal quantity of skim-milk and evaporated. When the evaporation is complete the product is dried in cakes, cut in small cubes, roasted and ground ready for use.

We need not enter into a discussion as to the comparative chemical value of the two methods. It is more satisfactory to know that the product of skim-milk finds a more legitimate and profitable use than if the milk were fed to swine and calves, or turned into skim cheese and offered on a market where there is not, and never will be, any demand for it. The process of evaporation makes useful absolutely all the solids of the skim-milk and whey. There is nothing wasted, and while the point may be urged that the digestive functions of pigs and calves utilize all the nourishment of skim-milk and whey in its natural form, yet the fact remains that the several products of the processes described are available for more profitable uses.—*Farm and Home (England.)*

CORN-HUSKING RACK.

I send my idea of a portable rack for husking corn in the field, to save exposure to cold this time of the year by getting down on the damp ground. Nail a board



across the handle of a wheelbarrow for a seat, and nail some legs to the ends of the seat to keep it from tipping and it is ready for use.  
FAYETTE INGRAHAM.  
New York.

TRAINING COLTS.

The practice of letting colts run wild until they are two or three years old has been changed to the habit of breaking to halter while young. Often they are broken to lead before they are weaned, and are handled and petted more or less until considered old enough to break to harness. Many yearling colts are actually broken to harness and driven before light vehicles, but at this age, unless managed with rare judgment, injury is liable to follow from overexertion.

If the colt is of a nervous temperament, treat kindly by feeding grain, and teach it to eat lumps of sugar from your hand, and soon you will be able to rub and pet it. Speak gently to the colt and soon your coming will be a welcome visit. When tying with a halter use a strong one, so that if it is scared and pulls back, the halter will not break, but hold firmly. The colt will not soon repeat that method of getting away. Throughout the breaking process, use harness and vehicles that are strong and safe. If a colt once runs away, it seems to watch for a similar opportunity.

Should the colt be fearful and try your patience, do not get mad and give it an excessive drive simply to let it know you are the master, or whip and otherwise abuse it to gain the same point. The chances are that if you tell the truth about the matter afterwards, you will acknowledge your mistake.

Teach colts to instantly obey the word "whoa," and train them to stand until requested to go. Call the colt by its name very frequently. When used by the side

of another horse the latter should be of the gentlest disposition, and no matter how kind and trusty it has been, never leave them without tying both of them, as colts frequently get into bad snarls and the mate, however gentle, is often led to cause you trouble and loss.—*S. Yates, in American Agriculturist.*

BEET PULP ENSILAGE.

A dairyman, Richard Gird, is reported as making excavations for a silo at his cattle-yards in Chino, California, in which to preserve beet pulp for winter use. The silo will be five hundred feet long, sixty feet wide and nine feet deep, and its capacity will be 10,000 tons of pulp. In speaking of it the *Champion* of that place says: Beet pulp is easily preserved and makes the best kind of feed for beef cattle or milch cows. Pulp-fed beef used here last fall and winter was as tender and juicy as any eastern stall-fed, and milch cows fed upon it gave the most satisfactory results. No artificial floor or covering is used for the silo, as the outer layer of pulp forms an impervious coating which excludes the air and very effectually preserves the mass.

WINTER QUARTERS FOR SWINE.

The farmer who looks after the comfort of his stock should now direct his attention to the winter quarters for his swine. As a rule, no class of live stock have so little attention given to their surroundings, and no other stock on the farm shows a greater appreciation of comfortable quarters. Any place or anything is good enough for the hogs, is the prevailing idea among farmers. Hogs are invariably kept for the profit there is in them. The money returns are what a farmer sees when he buys or breeds swine. This being true, there are two incentives for making the pig-pens and feed-lots as convenient and pleasant as possible. First, for the better returns for the amount of feed. Second, for the comfort of the hogs and the pleasure there is in knowing that your stock is being treated humanely. A little planning now and a few hours' work may be of much value to you during the coming winter.—*National Stockman and Farmer.*

WHAT IS COMPOUND OXYGEN?

A modern medical agent with air for its base. This is greatly enriched with Oxygen, the life giving and sustaining element of air. Then the whole is magnetized. Finally these subtle elements are so combined and confined that they may be transported and released at will.

Now what will this do? In the light of 23 years of wide and widening experience, we say briefly—relieve and cure an incredible number of physical ills. Colds, Catarrh and Consumption; Asthma, Neuralgia and Rheumatism; Dyspepsia, Debility, and Nervous Prostration are among the more numerous and important.

Over 60,000 carefully recorded cases are in our office and at your disposal, or a book of 200 pages is yours for the asking.

We have proof for those who doubt, and relief for those who suffer. Will you have it? Address Drs. STARKEY & PALEN, 1529 Arch street, Philadelphia, or Chicago, San Francisco, New York, and Toronto, Ont.

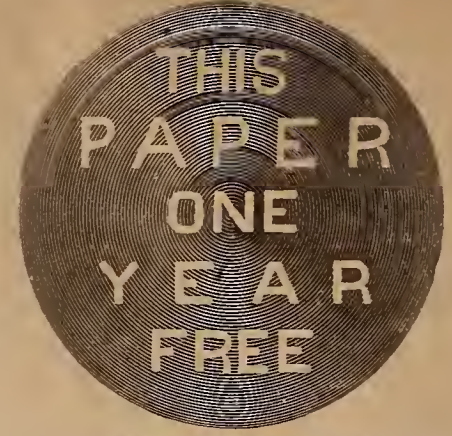
**GOLD-SILVER-NICKEL PLATING.**  
A trade easily learned; costs little to start. I will furnish outfits and give work in part payment. Circulars free. W. Lowey, 4 Barclay St., New York City

Circular Distributers Wanted.

Publishers, Patentees, Manufacturers, etc., are daily requesting us to supply the addresses of reliable circular distributers, bill posters, etc. Brun's success is marvelous, and will open up in 200,000 AGENTS' HERALDS next issue, to be mailed to business men, new, profitable and permanent employment to one man, woman or youth in every town and hamlet in the U. S. and Canada. "The early bird catches the worm." We want a few such ads. as Brun's (sample below) to start with in this month's MAMMOTH editions of AGENTS' HERALD.

**BRUNN** Nails up signs, distributes circulars, papers, samples, etc., throughout Blackhawk and surrounding counties at only \$3.00 per 1000. Address W. H. BRUNN, Waterloo, Va.

Brunn paid \$2.40 to insert above 4 lines, June '90. He began during the summer. That ad. paid then, is paying yet. He has been kept constantly busy, employs three men to assist him, clearing on their labor from \$10 to \$15 a day distributing circulars at \$3.00 per 1000 for many firms, who saw his ad. in THE HERALD. It costs every firm at least \$10 in postage alone to mail 1000 circulars. A saving to each firm who employs you of \$7 per 1000. Ten firms may each send you 1000 at the same time, making 1000 packages of 10 each, for distributing which you would promptly receive \$300, \$15 in advance and \$15 when work is done. Parents, make your boys a present. Start them in this growing business. Begin this neat business before some one in your county gets the start of you. "Come in on the ground floor." Instructions How to Conduct the Business Free, to each distributor ONLY, who sends us \$2.40 cash or postage stamps for a 4 line "ad."  
AGENTS' HERALD.  
No. 2 S. 5th Street, Philada., Pa.



To any one sending us only one **NEW** yearly subscriber at the regular price, 50 cents, for the paper alone. This offer is good now under the following conditions:

The **NEW** subscriber must be a person whose name is not now on our list, and must be a person whom you have sought out and solicited to take the paper and who has consented to receive it. A change from one member of a family to another is not securing a **NEW** subscriber.

The new subscriber will receive the paper a full year for the regular subscription price, 50 cents, but will not be entitled to any present or premium with it except upon payment of the full "Price, including one year's subscription." For example: Premium No. 539, **Perfection Hammock**, and this paper one year for only \$1.50; or, "**Uncle Tom's Cabin**" and this paper one year for 60 cents.

Send us a new subscriber under these terms and we will send you the paper free for one year as your reward.

This offer must not be combined with any other, and applies to this paper only.

Accept it now, while it is good. It may be withdrawn.

We have an office at 927 Chestnut Street, Philadelphia, Pa., also at Springfield, Ohio. Send your letters to the office nearest to you and address

**FARM AND FIRESIDE.**  
Philadelphia, Pa., or Springfield, Ohio.

AGENTS WANTED.

**BIG PAY. PLEASANT WORK.**  
Business sure to please you. Send stamp for particulars. Address T. JEFFERYS, Addison, Pa.

IF YOU WANT WORK

that is pleasant and profitable send us your address immediately. We teach men and women how to earn from \$5.00 per day to \$3,000 per year without having had previous experience, and furnish the employment at which they can make that amount. Capital unnecessary; a trial will cost you nothing. Write to-day. Mention this paper.  
E. C. ALLEN & CO., Box 1013, Augusta, Me.

**Given Away** **A Cold Watch,**  
Solid Gold, Stem-Winding, Ladies' or Gents' size, absolutely given away to every person who will send us their name and correctly answer our new **PUZZLE** according to terms. \$500.00 in **GOLD** Prizes also given away. Puzzle free by mail. Address **HOBB'S MEDICINE CO.,** 335 Dearborn St., CHICAGO, ILL.

**GOLD RINGS FREE!**

We will give one half-round Ring, 18k Rolled Gold plating wanted to anyone who will sell 1 doz. "Indestructible" Lamp Wicks (need no trimming) among friends at 10cts. each. Write us and we will mail you the Wicks. You sell them and send us the money and we will mail you the Ring.  
STAR CHEMICAL CO., Box 55, Centerbrook, Conn.

Agents Wanted on Salary

Would you like to make \$250.00 per month from now until spring? Write for particulars to-day; all that is required is a little **Vim, Vigor, Puck and Push** and you can make it. We want a **live, wide-awake representative** either man or woman, in your locality to represent us and sell by sample, no peddling, our goods are new and as staple as flour, and you have the chance to establish a permanent business for yourself that will pay you handsomely. Address "**Manufacturers**," P. O. Box 5308, Boston, Mass.

**FREE!** A NEW MUSIC BOX & CLOCK COMBINED, RUNS PERFECT 1000 TUNES, TIME KEEPER, 8 DAYS. DANCE AND SACRED MUSIC. WGT. 23 LBS. HGT. 18 IN. MUSIC

To advertise and introduce them quick the inventor will furnish any reliable person (either sex) in every county or town, one of these charming and attractive instruments to show, if applied for at once. Address Inventor, 26 West 81st street, New York City and get one with full particulars, testimonials, etc.

Have it Ready.

The liniment, **Phenol Sodique**, is so good for a wound, or worn skin, or skin disease, that it ought to be kept by a horse owner. Equally good for any animal.

If not at your druggist's, send for circular.  
HANCE BROTHERS & WHITE, Pharmaceutical Chemists, Philadelphia.  
Look out for counterfeits. There is but one genuine. Better cut the advertisement out and have it to refer to.



**Our Miscellany.**

**HOW TO PRESERVE THE TEETH.**

The following directions for the care of the teeth have been issued by the medical committee of the National Dental Hospital, London:

1. The teeth should be cleaned at least once a day, the best time being night, the last thing. For this purpose use a soft brush, on which take a little soap, and then some prepared chalk, brushing up and down and across. There is rarely any objection to the friction causing the gum to bleed slightly.
  2. Avoid all rough usage of the teeth, such as cracking nuts, biting thread, etc., as by so doing even good, sound teeth may be injured.
  3. When decay is first observed, advice should at once be sought. It is the stopping in a small hole that is of the greatest service, though not unfrequently a large filling preserves the tooth for years.
  4. It is of the greatest importance that children from four years and upwards should have their teeth frequently examined by the dental surgeon, to see that the first set, particularly the back teeth, are not decaying too early, and to have the opportunity of timely treatment for the regulation and preservation of the second set.
  5. Children should be taught to rinse the mouth night and morning, and to begin the use of the tooth-brush early (likewise the toothpick.)
  6. With regard to the food of children, to those who are old enough whole-meal bread, porridge and milk should be given. This is much more wholesome and substantial food than white bread.
- If the foregoing instructions were carried out, comparatively few teeth would have to be extracted.

**CARE OF WINTER ROSES.**

Early-planted roses for winter flowering will now be benefited by a thin mulching of manure, but it is safer to err on the side of thinness than to apply too heavy a coating, as the latter generally results in injury to the plants. The use of a moderate quantity of bone-dust is at all times beneficial to the soil for roses, providing the bone be of good quality, and the most satisfactory grade of this fertilizer is secured from a button factory, because the bone so used is in its natural state, and is much superior as a plant-food to that which has been boiled or dissolved with acids. Good bone-dust feels somewhat greasy when rubbed between the fingers, while that prepared from bones that have been boiled in order to extract the oil is quite dry and feels gritty to the touch.

As the young roses make their growth, disbudding must be attended to frequently, for the strength of the plant is all needed to make wood at this season, so as to secure a strong growth ready for winter flowering; and even in winter it is necessary to disbud regularly, if flowers of extra size are desired. This is practiced by the large commercial growers, who make a specialty of roses, and they disbud as regularly as they do in the case of chrysanthemums, in order to produce the eight and ten inch flowers frequently seen at the autumn shows. Among the varieties specially benefited by disbudding are the Bride, Catherine Mermet and Wooton, all of which send out their lateral buds before the terminal flower opens, and thereby its size is reduced. La France is also improved by the same method; for this variety, when growing strongly, often forms lateral buds.—*Commercial Gazette.*

**AN ALARMING POSSIBILITY.**

"Marriage is a lottery."  
"Yes, next thing Wanamaker will be excluding love letters from the mails."

A DEEP SEATED COUGH, cruelly tries the Lungs and wastes the general strength. A prudent resort for the afflicted is to use Dr. D. Jayne's Expectorant, a remedy for all troubled with Asthma, Bronchitis, or any Pulmonary affection.

**FREE PRESENTS TO SUBSCRIBERS.**

During the next 30 days we wish to bring the FARM AND FIRESIDE to the attention of a million farmers and to enroll their names as members of our large and growing family of readers. The paper becomes a great favorite with all who read it, and with one of the beautiful free presents which we offer on page 19, will meet with still greater appreciation. You cannot afford to neglect this opportunity. Subscribe at once, or renew your subscription, and secure one of these valuable free presents. Read the offers carefully.

**CONSUMPTION CURED.**

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma, and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. NOYES, 820 Powers' Block, Rochester, N. Y.

MANAGER WANTED—To take charge of Branch House in each State. Address Fred De Haven, Louisville, Ky.

**RUPTURE CURED.** No Cure No Pay. Send stamp. HAYDEN CO., B. 65, No. Windham, Me.

**DO YOU WANT TO MAKE FROM \$10.00 to \$15.00 a Day**

The opportunity is yours. The business is ready. Hundreds of enterprising agents who are selling our Grand Historical Picture voluntarily report that it is the best paying business they ever engaged in. This magnificent picture is entitled

**"COLUMBUS AT THE ROYAL COURT OF SPAIN."**

Size of Picture, 20 by 28 Inches. Size of Frame, 31 by 40 Inches—Made of Heavy Gold Molding 6 Inches Wide.

The attention of everyone has been drawn to the subject of the picture. The grand achievement of the bold and intrepid Spanish navigator, Christopher Columbus, is being lauded and immortalized by the great writers and orators of the land. The world is paying homage to his name in the magnificent celebrations of this year and next. His name is upon everybody's lips. The picture portrays him at the very moment of his complete triumph over all the seemingly unsurmountable difficulties that had continuously beset his enterprise. It is a true and realistic copy of the famous painting, by M. Brozik,

**VALUED AT OVER \$50,000.00,**

Now Exhibited in the Metropolitan Art Museum in New York City.

It shows him standing in the Royal Court, resplendent with all the gorgeous and magnificent accessories that distinguished royalty in the fifteenth century.

**PURCHASERS ARE ASTONISHED**

At the exquisite beauty of the picture, which rivals the original painting in the perfect technique of execution and coloring, and at the surprisingly low price at which it is being sold. The frame alone would cost from \$3.00 to \$5.00 at any store.

IT IS THE GRANDEST BARGAIN EVER OFFERED.

**AGENTS ARE ENTHUSIASTIC.**

As shown by the flood of testimonials we are receiving every day (a few of which we give below), the people have become so thoroughly aroused by the celebration of Columbus day and the world's fair that it is no trouble at all to sell the picture. Agents report that

IT SELLS ITSELF.

**Agents are Offered a Big Commission. Write for Terms.**

**READ WHAT AGENTS ARE DOING.**

**A Lady Who Will Get There.**

DE SOTO, ILL., Oct. 13, 1892.  
I have taken one hundred orders for the picture up to date, but have not worked more than half of my time.  
MRS. EDITH BULLAR.

**Bad Weather but Good Business.**

DOYLESTOWN, OHIO, Oct. 9, 1892.  
Dear Sirs—I have taken fifteen orders for your picture, "Columbus at the Royal Court of Spain," in only two days, and would have taken more but the weather prevented. Do not fail to send me more order-books at once.  
JOHN GATES.

**Making \$1.00 Every Hour.**

NEWMAN, ILL., Aug. 1, 1892.  
Dear Sirs—I have received the picture of "Columbus at the Royal Court." I was surprised; it was so much better than I expected, both in finish of picture and frame. I have worked about four hours and taken four orders.  
J. H. WILLIAMS.

**Outsells Anything She Ever Handled.**

HUTSONVILLE, ILL., Oct. 10, 1892.  
Gentlemen—I received the picture all right and in good shape. I have taken ten orders in two days. It outsells anything I ever handled.  
MRS. CARRIE CROUCH.

**Pluck Sure to Bring Profit.**

FARGO, N. DAK., Sept. 22, 1892.  
Gentlemen—I received your picture of "Columbus at the Royal Court of Spain" in good shape. Everyone seems to be delighted with it. I have taken fifteen orders, commencing one week ago, working about three hours per day, as I am unable to do a full day's work.  
A. SPOTTS.

**Makes \$5.00 in the First Two Hours.**

SUNFIELD, MICH., Oct. 10, 1892.  
Dear Sirs—I started out with "Columbus at the Royal Court of Spain" this morning. In about two hours I had five orders. The picture and frame is a delight to the people.  
D. MYERS.

**\$2.00 Made in Ten Minutes.**

VERSAILLES, ILL., Oct. 10, 1892.  
Gentlemen—I have just received the picture and frame, all in good order, and am more than pleased. I have just opened it, and have taken two orders already in less than ten minutes.  
ANDREW LEAR.

**A Young Lady Making \$8.00 Per Day.**

YELLOW SPRINGS, OHIO, Oct. 12, 1892.  
Gents—Received the picture in good condition. It far exceeded my expectations. I started out yesterday afternoon and sold four.  
MINNIE BALDWIN.

**Made \$11.00 in One Hour and Twenty Minutes.**

CHARLOTTE, VT., Oct. 9, 1892.  
Dear Sirs—The outfit you sent me came to hand all right and safe. I started out at 2 o'clock and in just one hour and twenty minutes sold eleven pictures. As you say, they sell themselves as soon as I uncover them.  
DENNIS TONER.

**What Others Can Do, You Can Do.**

Do not Delay. There is Territory Sufficient for All.

The exhibition of this picture in any locality is sure to bring hundreds of orders, and for this reason we will send to any reliable person applying, who will agree to show it to his friends and neighbors and endeavor to make sales at the regular price, one of these

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And Include One Year's Subscription to Either the Farm and Fireside or Ladies Home Companion Free to Every Purchaser.

We will ship this picture and a complete outfit by express and prepay all express charges to any point in Minnesota, Iowa, Missouri, Arkansas and Louisiana, and all states east of them on receipt of \$2.50. Persons ordering from any point west of these states may send us only \$1.50, they paying the express charges upon receipt of the picture, which is carried at a special low rate by all the express companies. Give your express station if different from your post-office.

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**FREE BY EXPRESS PREPAID A "Human-Hand Truss" for RUPTURE**

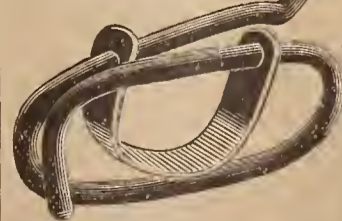
VALUE \$15. To the first person in each county who sends us the names and addresses of the persons in their vicinity who have RUPTURE OR PILES.

We will send the above TRUSS FREE. Send the names today. Beautiful BOOK (illustrated) containing full description of a new and startling method to CURE Rupture and Piles.

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This is the invention of an expert corn-busker, and is a simple, convenient, effective and superior article, to which we take great pleasure in calling the attention of farmers everywhere. It is the most successful invention for making corn-husking short, pleasant and easy. It is made of good steel, and possesses all the good and none of the objectionable qualities of the old-style pegs. Especial advantage and convenience are gained by its adaptation to the hand. You can keep your hands warm while using this husker, as mittens may be worn without interfering with the work. The strap shown in cut does not go with the husker, but is easily put on by any one.



Two given as a premium for 1 new yearly subscriber. Price of one, including one year's subscription, 60 cents; or two, including one year's subscription, 65 cents. We offer one for sale for 15 cents, or two for 25 cents. Postage paid by us in each case. Address FARM AND FIRESIDE, Philadelphia, Pa., or Springfield, Ohio.

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Send us at once a photograph of yourself, or any member of your family, living or dead, and we will make you from it an enlarged Portrait, with frame complete, absolutely free of charge. This offer is made in order to introduce our new Portraits and Frames in your vicinity. Put your name and address on back of photos, and send it to BROOKLYN ART UNION, 627 Marcy Ave., cor. Hart St., Brooklyn, N. Y. Refer you to any banks in this city.

Smiles.

HYMN TO A PLUMBER.

Sweet man, so cool, so calm, so bright,
Owner of earth and sky!

That glitter, that enchainning gleam,
Speaks your own sweet trust,

Great man! Some fourteen days ago
My sink pipe sprang a leak:

You sent two men to look again;
They came and saw and went,

Your bill, therefore, great man, is here,
By special post it came,

How could the world move on its way
Of your great grasp here?

-American Angler.

MAN'S SUPERIORITY.

She goes down to the dry-goods store and
spends our good old dollars

To obliterate the difference between herself
and man;

But, when it comes to whiskers—by this idea
we're cheered—

IT WAS TERRIBLE.

Mrs. Charles Sweet had been married nearly three
months, and life had gone on so smoothly,

The sweetest-tempered little woman in all the
world," he said.

Well, the other evening Charlie went home and
Hattie didn't meet him at the door with a kiss

"Why, Hattie," he said anxiously, "what's the
matter?"

"Don't even look at me!"

"My dear!"

"Oh, I could, Charlie Sweet! I never was so mad
in all the mortal days of my life!"

"Mad? I should say so! Here that abominable
washer-woman didn't come to-day and I just pitched
in and did out the washing myself,

A BOY'S ESSAY ON CATS.

A small boy in one of the Detroit schools recently
handed in this composition on cats: Cats have four
legs and nine lives.

was very clean to spit on their hands and wash
their faces in the manner which they do.

P. S.—Cats has lectrisity in thare backs and
they can blo up thare tales as big as a fli brush

THEN OUTSPOKE A BACHELOR.

They were very pretty and there was apparently
five or six years' difference in their ages.

The passengers smiled as she left, and the
murmur went rippling through the coach,

The other girl sat looking nervously out of the
window, and once or twice gathered her parcels

At last he came. He bulged into the door like
a house on fire, looked along the seats

And a crusty-looking old bachelor in the further
end of the car croaked out, in unison with the

SEASIDE CONFIDENCES.

It is one of the advantages of life at a summer
resort that people of different sorts are brought
together.

"Yes," remarked a stranger to the editor, as the
two sat on the veranda sipping lemonade

"How many hours a day do you work?" asked
the stranger.

"Four," said the editor. "Heavens! I work ten."

"Newspaper or general literature?" "Neither. I'm
a barber."

THE DIFFICULTY.

An amusing instance of the tricks resorted to by
men summoned to attend as common jurymen,

The associate asked the nervous little creature
what was the matter with her parent.

THE RAZOR-BACK AGAIN.

About the razor-backed, fast-running hogs lately
touched on in Life, another story comes to us from
Hanover county, in Virginia.

The native heard him through plainly, and then
answered: "That's all you know 'bout it, stranger.

HE WAS THE BOY.

A gentleman in Yorkshire one day took his little
boy out for a walk, but the boy, from some cause

The harvest-time is now over, and with crops safely
housed, the farmer finds some leisure time at his
command.

JUDGED BY RESULTS.

McGeachy (in disgust)—"Wan would tink it was
Saint Patrick's day instead av th' aniversary av a
dago."

O'Mara—"Will, in me own moind Columbush was
the greater mon."

McGeachy (reaching for a brick)—"Yez'll have to
prove that."

A LABOR SKETCH.

"Jenny," called out Mrs. Wilson to her beautiful
daughter up-stairs, "I've got the washing ready for
you to hang out."

Then Miss Jenny put aside the novel she was
reading, rolled up the sleeves from her lovely white
arms,

HIS STATEMENT.

She—"Where were you last night so late that you
couldn't get home until after midnight?"

She—"Oh, you were, eh? Well, let me tell you
this. If Mr. Barney's statements aren't any more
reliable than the one you have just made,

ROASTS AND RIBS.

"Hamaneegsroastribsobeeff," called the pretty
waiter girl, when she was interrupted by the
bachelor boarder:

"Then the pretty waiter girl said in a voice
inaudible to the other weary boarders:

ABLE TO BUY THE BEST.

"Your husband has gone fishing to-day, you say?"

"What does he expect to catch?" "I think he will
catch trout to-day, for he was well supplied with
money when he went away."

INTUITION.

Fond mother—"I'm shocked, Tommy. Where did
you hear such a naughty word?"

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CONSUMPTION. (except last stages), CATARRH, BRONCHITIS, ASTHMA...

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RESCUED FROM THE GRAVE IN THE LAND OF FLOWERS. HOMOSASSA, FLA., May 9, 1892.

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A GODSEND TO THE AFFLICTED. MEDINA, Orleans Co., N. Y., May 10, 1891. DR. A. OWEN, NEW YORK CITY.

CURED OF RHEUMATISM, SPINAL DISEASE AND NERVOUS PROSTRATION. KINGS PARK, L. I., N. Y., April 2, 1892.

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RUPTURE Positive Cure. By mail. Sealed Book Free. Address: Dr. W. S. Rice, Box F, Smithville, N. Y.

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With steps as light as summer air,  
Eyes glad with smiles, and brow of pearl,  
Shaded with many a careless curl  
Of unconfined and flowing hair;  
A seeming child in everything,  
Save thoughtful brow and ripening charms,  
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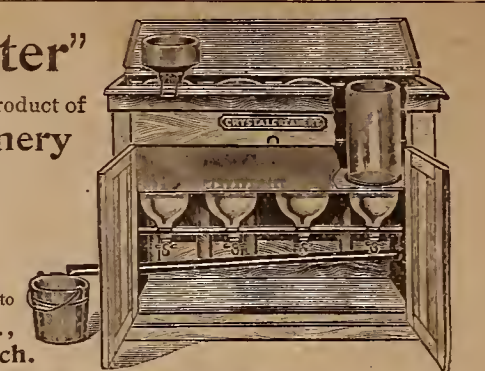
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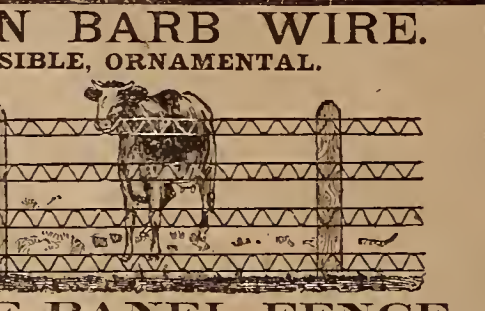
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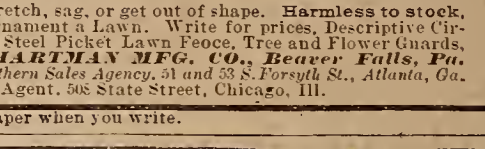
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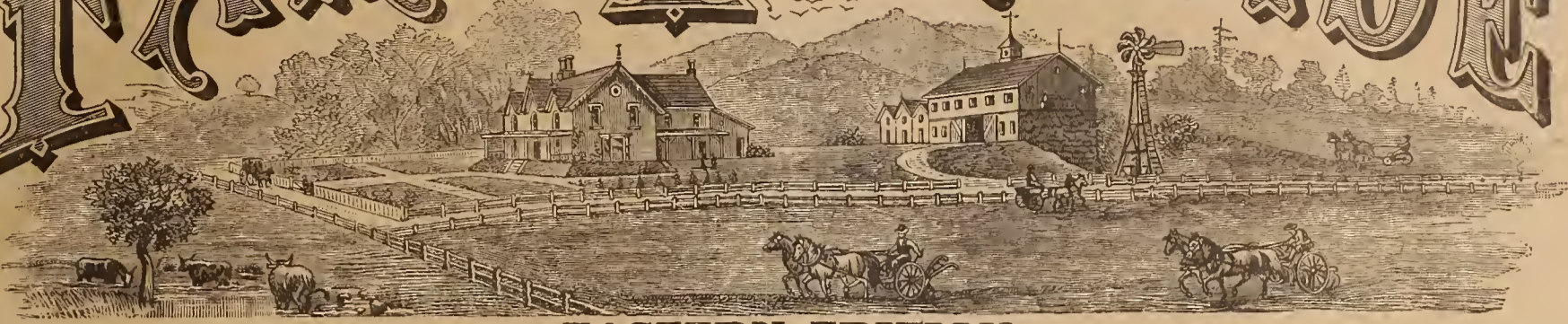
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# FARM & FIRESIDE



EASTERN EDITION.

VOL. XVI. NO. 4.

PHILADELPHIA, PA., and SPRINGFIELD, OHIO, NOVEMBER 15, 1892.

TERMS 50 CENTS A YEAR.  
24 NUMBERS.

The Circulation of FARM AND FIRESIDE  
this issue is

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The Average Circulation for the 24 issues of  
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Farm and Fireside has More Actual  
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Journal in the World.

## Current Comment.

IN the November *Forum* is an article by Prof. Davis, of South Carolina, entitled, "The matter with the small farmer." The small cotton planter is under consideration, but the article applies equally well to all small growers of staple crops.

The embarrassed condition of the small cotton planter, for whom the future holds little hope of relief through established methods, is clearly described. His hopeless condition explains his willingness to listen to any new political scheme of finance or control of transportation proposed for his relief. Prof. Davis points out that remedial legislation will not solve the problem, and that there are natural causes operating more powerfully than the alleged plutocratic legislation for good or ill to the farmer.

First, he disposes of the fallacy that farmers are growing poorer because farm values were seventy per cent of all the wealth of the country in 1850, about fifty per cent in 1860, and are less than twenty-five per cent now. Absolutely, the value of farms increased from four billion dollars in 1850 to eight billion dollars in 1860, eleven billion dollars in 1870, and twelve billion dollars in 1880. The comparative diminution of agricultural values is due mainly to natural causes. The most prosperous country is one that has both a town and a country population for the exchange of commodities. Yet here the proportion of farm values cannot be as great as in a community purely agricultural. It does not follow that the farmer is worse off than his father merely because his proportion of the total wealth is not as great.

Neither is it true that farmers are swindled because railroad values are now nearly equal to farm values, although this industry was unknown to the census of 1820.

Then he names some of the disadvantages of the small farmer. A most serious drawback to the farmer of the South-Atlantic coast arises from diminishing returns from land. The soil of the older states long ago lost its original powers, and its productiveness now depends on extra tillage and the application of fertilizers. The cost of production is much greater than on the new lands of the West. No legislation can equalize this difference.

A more formidable drawback to the small farmer is the competition of the huge plantations of the West. Fertile lands admit of production at little cost; and cotton can be sold at prices that cannot be other than ruinous to the small farmer. The competition among producers must grow stronger every year. The Yazoo delta is said to be capable of producing the cotton supply of the world; and here machinery for picking cotton can be applied. Congress cannot

prevent competition between the large and small planter.

As the most important factor in the problem, the writer names "the fixed charge of the family." The support of the family must come from the proceeds of the crop, whether large or small. This fixed charge approximates four hundred dollars a year, although it is a sad fact that very many farmers are compelled to live on much less than this. Assuming this to be the income of the farmer, it will be seen that if he devotes himself exclusively to cotton—his only cash crop—it will not be enough to charge against the crop the amount expended in legitimate production, such as plowing, cultivation, harvesting, rent, etc. The bill for the support of the family must also be paid. Cost of production thus becomes a very different thing from the cost of the family. No absolute figures can be given as to the cost of production proper. A Georgia planter places it at four cents a pound. This is far below the average cost. The most successful culture is about twenty bales to the acre, but the average is probably less than ten. Taking the most favorable case claimed, a cost of four cents and a selling price of eight, there will be a profit of two hundred dollars on ten bales.

Assuming a profit of ten dollars a bale, this crop would yield but one hundred dollars for the family charge. As the family charge is to some extent constant, it follows that the smaller the farm the heavier the burden on the farmer. While a profit of ten dollars each on forty bales will meet a charge of four hundred dollars, such a profit on ten bales means exceedingly strained circumstances. The larger the crop the less the proportion of the fixed charge. The large planter cannot only make his crop cheaper per pound through improved facilities, but a smaller profit on each bale suffices for outside needs. Such laws of inequality are not found on our statute books.

Yet no one can say that farming does not pay in the sense that other occupations and trades pay. If a pound of cotton can be produced for five cents and sold for seven, there is a profit of forty per cent. What other business pays more? The owner of a share in a national bank thinks he is doing well if he receives a dividend of eight per cent; but he does not hope to live on an investment of five hundred dollars in bank stock. The farmer is at once landlord, capitalist and laborer. He makes full wages as laborer, and a fair rent and a fair profit on his investment; but the trouble is that his investment is too small for his family. The fixed charge of the family falls heavily on all small producers.

Many of the most serious burdens resting on small farmers are imposed by natural causes. The small farmer should more and more endeavor to leave the production of the staple crops to the large planters and devote himself to "small farming" indeed. He has muscle, and he has land in plenty. He greatly needs capital to utilize them to the best advantage. Denunciation of railroads, factories and banks will hardly make him more prosperous.

A WORD of caution may not be out of place regarding a shrewdly advertised compound or article for increasing the yield of butter from milk. Butter is the fatty portion of milk, with small and varying amounts of water and salt, and a very little casein and milk sugar. If, by the addition of any compound to the cream before or during the process of churning, the product is made to contain all the ca-

sein and lac-sugar as well as the butter fat, that product is not butter. Such a compound would be more cheese than butter. To call it butter or to sell it as butter is a fraud.

It is true that the ordinary farm methods of making butter do not save all the butter there is in the milk. The loss varies from ten to thirty per cent, and even more occasionally. By the improved separator factory system the loss may be less than three per cent. The claim that the use of any article or chemical compound can double or treble the yield of butter is a fraud on its face. Now, this advertised article will either increase the yield of the churn as claimed, or it will not. If it does not, the butter-maker who buys it is cheated at once. If it does double or treble the product of his churn and he sells the mixture of cheese and butter as genuine butter, he cheats his customers.

While we suspect that the article referred to is an arrant fraud, we are free to say that along this very line we may look for great discoveries. The food value of the casein and lac sugar in milk is far greater than that of the butter fat. The discovery of a process by which the fat, casein, sugar and salts—the solids of milk—can be separated from the water and combined together in a palatable, wholesome and easily digestible food would be one of the greatest importance. Such a discovery may be confidently expected. It will enable us to make good use of the most valuable food elements of milk and save an enormous waste. However, when the discovery is really made, it will stand forth before the public on its true merits. Dairymen can afford to leave these so-called butter compounds severely alone until their value is fully and publicly demonstrated.

FROM E. C. Cole, of Missouri, we have received a fine specimen of a plant in full bearing, which he calls "Cole's Domestic Coffee Berry." In accompanying circulars it is claimed that from the roasted and ground "berries" of this plant can be made a substitute for coffee equal to genuine mocha; that the yield is from forty to sixty-five bushels per acre; that it can be grown at a cost of one cent per pound; that it is better than corn for fattening hogs; that it is good for rheumatism, etc. Wholesale price of seed is \$3.50 per pound, cash with order.

With the specimen bush came a sample of the parched and ground "berries," ready for making coffee. This sample looked like ground coffee, tasted like it, and had the characteristic aroma of good coffee. It could not very well help it; for, on close examination, we found that the sample contained the roasted and ground beans of genuine coffee, mixed with the other. The descriptive circulars are silent on a very important point. They fail to state what proportion of this coffee substitute should be genuine coffee and what proportion "Cole's Domestic." In the absence of definite instructions in this particular, it is fair to presume that "the less of the latter the better," would be a good rule to follow. This wonderful novelty is nothing more or less than a variety of peas or beans, for sale by regular seedsmen at much less than fabulous prices. The beverage made from its prepared berries is a variety—the roasted variety—of bean soup. We made an actual test of the substitute. The sample peas received were roasted, ground and prepared the same as coffee. And our testimonial is that "Cole's Domestic" is a cup that neither cheers or inebriates.

THERE is a society in Paris for the practical study of profit-sharing. This society maintains, says its president, that progress in the present social condition consists, before all, in assuring the mass of working people the enjoyment of the fruits of their labor.

"For that purpose it is necessary that the remuneration of human labor be always proportional to the value of the assistance rendered, and to the gravity of the risk run. The directing capacity of the heads of a business and the responsibility incurred by them, demand doubtless a large share of the profits, but the humblest assistant deserves his reward, and ought not to be disinclined. On the one hand, if the capital may be destroyed by bankruptcy, if tools and machinery wear out and have to be replaced, the man who contributes his arms—that is, the human tools, runs also risks of wear and tear, and of destruction.

It may legitimately be said, in a theoretical declaration about the natural rights of labor, that in principle each factor of production, work, administration and capital, should, after payment of wages and interest, receive its just proportional part of the net gain."

A fair application of this just principle of profit-sharing would undoubtedly solve the labor question. Co-operation would speed social progress. But with greed on the side of capital and distrust on the side of labor, the great problem is to bring about co-operation.

SINCE 1860 there has been a remarkable development in the sheep industry of the United States. During the war and the period of currency inflation there was an abnormal increase, followed naturally by a disastrous reduction in the number and value of sheep.

Following this depression came a long period of healthy development.

From 1871 to 1884 the number of sheep in the country steadily increased from 31,000,000 to 50,000,000 in round numbers. The value gradually increased, with some fluctuations, from \$74,000,000 in 1871 to \$124,000,000 in 1883. During this period the fleece doubled in weight and improved in quality. The importations of foreign wool were only five per cent greater during the last half of the period than the first half, although the population increased twenty-five per cent and the per capita consumption of wool about twenty per cent, making a relative decline.

Following the tariff of 1883, with its changes in the schedule of duties and its classifications permitting foreign wool of high value to come in under low duties, came the first depression in the sheep industry since the one after the war. In six years the value of the sheep in the United States declined \$20,000,000 and the number 8,000,000. During this period the annual importations of wool averaged over 100,000,000 pounds, nearly double the average of the preceding seventeen years.

Under the tariff act of 1890 there has already been a very encouraging improvement in the industry. From January, 1891, to January, 1892, the number increased 1,500,000 and the value nearly \$8,000,000.

D. R. McNEAL, the Ohio food and dairy commissioner, is winning victories right along in his fight against adulterations and frauds. The bluffing libel suits brought against him by the vinegar sophisticators have been abandoned. Force the fighting. A vigorous enforcement of the law is in the interest of consumers and honest merchants.

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**The Advertisers in this Paper.**

We believe that all the advertisements in this paper are from reliable firms or business men, and do not intentionally or knowingly insert advertisements from any but reliable parties; if subscribers find any of them to be otherwise we should be glad to know it. Always mention this paper when answering advertisements, as advertisers often have different things advertised in several papers.

**Our Farm.**

**COMMENTS ON CURRENT FARM LITERATURE.**

**INSECTS AND INSECTICIDES.**—It certainly does seem that the insect enemies which attack the farmers' crops have increased in recent years at a fearful rate, both in kind and numbers. New and heretofore unknown or little known insects are all the time making their debut, and many of the older ones multiply much faster than is desirable. But our knowledge of the weak points of our enemies, and our means of fighting them, almost keeps step with the increase of the insects themselves; and the progressive soil worker who keeps up to times, and utilizes all the means put at his command by investigators, can yet manage to raise his crops in spite of all insect attacks.

There is always a great demand for information about insects. In Professor Saunders' "Insects Injurious to Fruits," and Mary Treat's book on insects, we had some good and popular works treating on these matters; but at present they cannot lay claim to completeness. None of the popular works on insects, heretofore published in America, treat on the whole range of insect pests which trouble the farmers' crops, stock and household, but more generally confine themselves to those which attack fruits, and perhaps, vegetables. A more complete work was really needed, and for this reason I welcome the new book, "Insects and Insecticides," a practical manual concerning noxious insects and the methods of preventing their injuries, by Clarence M. Weed, D. Sc. The book is divided in six parts, all richly illustrated. Part I treats on insects affecting the larger fruits; part II on insects affecting small fruits; part III on insects affecting shade trees, ornamental plants and flowers; part IV on insects affecting vegetables; part V on insects affecting cereal and forage crops; part VI on insect pests of domestic animals and the household. This will be sufficient to show the scope and the value of the work. Besides its completeness, it is also printed in large, clear type, on beautiful, heavy paper, and bound in a neat and substantial manner in cloth.

A work of this kind has long been needed. I am glad we now have it, and if any one among the readers of the FARM AND FIRESIDE contemplates buying an "insect book," by all means select Weed's, as it is by far the most serviceable now in existence.

**CLOTHES-MOTHS.**—For the past season (and for the first time that I can remember) we have been troubled a great deal by clothes-moths. Unfortunately we were not even aware of it until this fall, when the great damage which the moths have done came to light, and caused a good deal of consternation in the family. A thorough search was made at once, and buhach (insect-

powder) used by the pound. Not having had personal experience with the pest before, I knew little of its life history. Just then this new book of Weed's fell into my hands, and naturally I looked for information on "clothes-moths" at once. The following is an extract of what I found. It may help other readers of FARM AND FIRESIDE who find themselves in a similar situation as I was.

"The commonest one (of these clothes-moths) probably is the case-making clothes-moth. The small, light-brown moths, distinguished by the darker spots at intervals on the wings, begin to appear in May, and are occasionally seen fitting about as late as August. They pair, and the female then searches for suitable places for the deposition of her eggs, working her way into dark corners and deep into the folds of garments, apparently choosing by instinct the least conspicuous places. From these eggs hatch the white, soft-bodied larvæ, each one of which begins immediately to make a case for itself from the fragments of cloth upon which it feeds. The case is in the shape of a hollow roll or cylinder, and the interior is lined with silk. As they grow they enlarge these cases by adding material to either end, and by inserting gores down the sides which they slit open for the purpose. The larva reaches its full growth toward winter, and then crawling into some yet more protected spot remains there torpid through the winter within its case, which is at this time thickened and fastened at either end with silk. The transformation of the pupa takes place within the case the following spring, and the moths soon afterwards issue. The larva feeds in all woolen cloths, and also in hair-cloth, fur and feathers.

"During the latter part of May or early in June a vigorous campaign should be entered upon. All carpets, clothes, cloth-covered furniture, furs and rugs should be thoroughly shaken and aired, and if possible, exposed to the sunlight as long as practicable. If the house is badly infested, or if any particular article is supposed to be badly infested, a free use of benzine will be advisable. All floor cracks and dark closets should be sprayed with this substance. Too much pains cannot be taken to destroy every moth and every egg, and every newly-hatched larva, for immunity for the rest of the year depends largely—almost entirely—upon the thoroughness with which the work of extermination is carried on at this time. The benzine spray will kill the insect in every stage, and is one of the few substances that will kill the egg. But no light should be brought into a room in which it has been used until after a thorough airing, and until the odor is almost dissipated."

The author also gives useful hints about the proper packing away of furs and winter clothing through the summer, recommending pasteboard boxes, with a strip of wrapping-paper gummed around the edges of the cover, so as to leave no crack. "Camphor, tobacco, naphthalene and other strong odorants are only partial repellants." Cloth-covered furniture which is in constant use will not be harmed, and the same may be said of cloth-lined carriages. Where such furniture is stored away, or kept unused in a dark room, or where the carriages are left in a dark coach-house through the summer, at least two sprayings with benzine, say once in June and once about August first, will be advisable.

**CHRYSANTHEMUM CULTURE.**—The chrysanthemum has become a popular flower. No doubt about it. The enthusiasm for its culture amounts to almost a craze. I cannot say that I am greatly affected by it. True, the varied odd forms and the gay colors are attractive and interesting. But I do not admire the taste which runs to large size. There is a certain coarseness in these mammoth flowers which I do not admire. On the other hand I can find much to attract me and to admire in some of the small, delicate, double white, rather old-fashioned flowers which the majority of people hardly notice at our chrysanthemum shows. Their very modesty, their inconspicuousness, their chastity and delicacy have indescribable charms for me. Still, I know I am not in harmony with popular taste in this, and my motto is to let everyone have his innocent enjoyments in his own fashion. I was tempted to make these remarks after glancing through the pages of a new book on chrysanthemum culture, written by James Morton. The work is nicely gotten up, beautifully printed and illustrated, and substantially bound in cloth. I do not know its price; but think that the chrysanthemum enthusiast will want it, whatever it costs. T. GREINER.

**THE FOOD VALUES OF SOME WASTE PRODUCTS.**

The *American Farmer* believes the time has come when farmers should find the cost of keeping stock reduced by using all the crops of the farm. The use of corn, so cheaply produced and so abundant in quantity, has long been practiced to the detriment of live-stock raising. Corn is not a perfect food; and though the main object sought by nearly all farmers, especially of the old school, there are values in the blades of the corn-plant and in the stalks which are not known to general farmers. The practice of "pulling fodder" (the blades) and securing them for roughness has long been highly esteemed by southern farmers. In the West corn fodder, the blades and stalks, with or without the ears, is a valuable adjunct in wintering cattle, horses and sheep. The blades, shuck and a part of the stalk is eaten, but the larger woody part of the stalks are not consumed.

In the West it is the custom to begin feeding hogs green corn, cut and hauled to animals, as soon as the ears are glazed. This is rather a wasteful practice, but there is sufficient compensation for the loss of grain in the consumption of the green stalks. It is found that hogs eat the whole plant, corn, blades and stalks, until near maturity. In the matured stalk the same nutriment exists as before, but the woody form prevents its use by all stock. Those who convert their corn crops into ensilage find no objections to the lower parts of the corn stalks, or butts. By the action undergone in the silo these butts are tender, juicy and palatable. In the use of corn stalks under the above conditions is found values, but in the dry state they are a waste product of the farm.

The experiment station of New Jersey, and also of Maryland, has given very careful attention to this subject and shows the value of corn stalks as a feed for stock. The New Jersey station in the bulletin gives some valuable information on this subject that few farmers have known. Scientific investigations show the following facts:

FIELD CORN STALKS PER TON—FOOD CONSTITUENTS.	
Fat.....	17 pounds
Protein.....	60 "
N. free ex. and fiber.....	1076 "
Nitrogen.....	15 "
Ph. acid.....	5.20 "
Potash.....	20.40 "
WHEAT STRAW.	
Fat.....	12.80 pounds
Protein.....	13.00 "
N. free ex. and fiber.....	760 "
Nitrogen.....	10.20 "
Ph. acid.....	4.40 "
Potash.....	24.40 "
OAT STRAW.	
Fat.....	12.80 pounds
Protein.....	30.00 "
N. free ex. and fiber.....	818.60 "
Nitrogen.....	13.00 "
Ph. acid.....	4.40 "
Potash.....	24.40 "
RYE STRAW.	
Fat.....	8.00 pounds
Protein.....	15.60 "
N. free ex. and fiber.....	998.40 "
Nitrogen.....	10.00 "
Ph. acid.....	5.80 "
Potash.....	15.80 "

This comparison shows that corn fodder as a food excels both wheat, oats and rye straw. A very careful study and analysis of corn stalks by the Maryland experiment station, under Major Alvord, director of the station, shows that the butts of corn stalks, which weigh twice as much as the tops and blades of the plant, are too valuable to be abandoned to the manure pile.

Prof. Alvord says: "By analysis it is shown that two pounds of stalk butts contain as much nutriment as one pound of corn and cob meal, and that two and one half pounds of stalks are equivalent as food to one pound of good corn-meal. It is estimated that there is generally half a ton of butts left in the field after stripping the fodder and cutting the tops, which is equivalent to an absolute waste of four hundred pounds of corn-meal, or six and one half bushels of corn per acre."

Few farmers have realized the enormous waste that has been going on for years and years on their farms.

*How can this waste be avoided?* Ensilage is the most direct way. The cutting of corn stalks in one inch or half inch lengths is better, and by moistening or putting into bins, boxes or barrels for a time will become moist, and when fed in combination with ground feeds show good results. Another way is well spoken of and highly recommended. By the use of a

machine called perhaps a macerator, which cuts corn stalks in short pieces and at the same operation breaks up the stalks into fine pieces, the corn butts are reduced to a form that is acceptable to stock.

A prominent Virginia farmer hired the owner of one of these machines to come to his farm and cut up a large lot of corn fodder. It was piled up on the barn floor in a heap. Pretty soon it was discovered that this dry stuff was heating and getting moist, which caused some alarm for a time. It had every evidence of spoiling; but the cattle ate it eagerly and improved in flesh and in milk.

This interesting experience gave so satisfactory results that the practice has been continued, and recommended to others as an economy in keeping stock and in utilizing to the fullest extent this unappreciated product of the farm. If the great corn belt of the United States should convert the corn stalks into a feeding product it would revolutionize stock raising. It would so cheapen the production of meat and milk that no country in the world could successfully compete with it.

The cheapening of feeding methods is the most important question to the American farmer to-day. The Englishman boasts that he can import stock and feed from this country, and by his superior skill in systematic feeding beat the American farmer in results. This may be no idle boast, and should stimulate our people to more serious considerations of the subject of feeds and feeding. If corn stalks may, by changing the form, become a part of more economical stock feeding, it is time it received attention. R. M. BELL.

**NOTES ON PLUMS AND OTHER FRUITS.**

The following letter has been sent to me:

(1) I have a thrifty Mariana plum-tree, some eight or nine years old, branching very low, and with an immense, thick top—when in bloom a beautiful sight—but all the fruit turns yellow and drops before they grow as large as peas. Why is this?

(2) I have a beautiful Japan chestnut, large, fine top, branching very low; is now eight years old, and never had a single blossom or bud. Why is this?

(3) Six years ago I planted a two-year-old Kentish Cobb filbert, which has grown nicely, but have had no fruit from it. Why is this?

(4) I have been badly deceived by nursery or catalogue men about certain trees bearing early. I bought a Meech's quince, bearing, and nursed it four years before it had a blossom. I had an Ogon Japan plum that was to bear the second year—but it took five!

(5) By the way, said plum-tree, just as it came into bearing, was killed or ruined by peach-tree borers before I discovered the cause of its wilting and dying. I came near losing two others—a Botan and Coe's Golden Drop. My peach-trees are ruined by the worms and the knife before they bear any amount. Can't keep them out by tar, whale-oil or carbolic-acid soap, etc. The Abundance plum is the best I have planted. DR. A. L. Yardley, Pa.

This communication touches a number of fine points about fruit growing, and I would comment on it as follows:

(1) Many of our native plums usually refuse to set fruit if standing alone, and all do better, as a rule, when several varieties, or even species, are planted closely together. This is especially true in regard to northern locations. The Wild Goose, for instance, is known to produce fruit on solitary trees in the southern states, while utterly barren under such conditions in the northern states. I am not impressed very favorably with the Mariana as a fruit. There are better plums. But you will be able to get your tree to fruit if you plant other plum-trees, especially such free bloomers as Miner, De Soto, Ogon, Botan, etc., near it; or if you will graft scions of these into a few branches of the Mariana. The latter will be the surest and most quickly effective proceeding.

(2) The Japan chestnut is very variable, and usually a pretty poor fruit besides. Some trees bear young, some not until they are quite large; some bear reasonably well; some are shy bearers; some bear quite small nuts, and others nuts of mammoth size. The probability is that your tree will be inferior in bearing and inferior in fruit, simply because that is the rule with unselected trees, and the lots heretofore sent out by most nurserymen were not of "picked" varieties. I have never seen a Japanese chestnut that would bear half as well as the Paragon of Mr. Egle's, or produce a nut half as good in quality. And even the Paragon lacks the brittleness and refined flavor of the American sweet chestnut. Many chestnuts also refuse to bear fruit when standing alone. Mixed planting, or planting in clumps or clusters, is to be recommended.

(3) The trouble with filberts in this country is that the fruit blossoms, which come out in February, find no pollen, and therefore remain unfertilized and barren. The catkins spend their pollen long before that time. How to remedy this I do not know. The inquirer might save pollen, or branches with catkins, of any kind of filbert or hazelnut, and carefully watching the time when the pistils of the inconspicuous flowers are receptive, place these branches or scatter the pollen over his Kentish Cob filbert-bush.

(4) Nurserymen and fruit-tree agents are often rather reckless with their promises of early fruiting on the trees and plants they sell. These promises should always be taken *cum grano salis*. One prominent nurseryman sells a "strawberry that fruits immediately," and there are innumerable fruit-trees and grape-vines, etc., that salesmen "warrant to bear the next season." These fellows are simply lying, and you should not buy of them. You cannot trust them in anything. The Japanese plums are early bearers, no doubt—in fact, *remarkably* early bearers; but don't expect much fruit from them until after they have made a reasonable amount of wood growth.

(5) Your plums may possibly have been budded on peach stocks, and the borer has attacked the peach. JOSEPH.

#### SOIL MOISTURE.

When ground is plowed in the spring and a stratum of soil four to six inches in depth is shaved completely from that below and reversed in a loose condition upon it, there is provided a covering which acts as a strong mulch. It has for a long time been believed by studious, observant farmers that this checks in a marked degree the loss of water by evaporation from the undisturbed soil.

Precise figures have been lacking, however, until recently the Pennsylvania experiment station made careful investigations. One plot was plowed April 28, 1892, and the soil was carefully tested in comparison with a similarly unplowed field, May 6th. The unplowed ground contained in the upper four feet, 9.13 pounds less water per square foot than did the plowed ground, an equivalent of 1.75 inches of rainfall.

When it is observed that the amount of water available for crop production, on almost all lands, is less than that which can be used to the best advantage, when one year is taken with another, such a fact has an important bearing upon problems of tillage. It teaches that where corn and potato ground is to be plowed in the spring, the plowing should be done as the soil is dry enough to permit it, and that where corn is to be planted upon fall plowing, the disc harrow, or similar tool, should be used upon this ground as early as practicable, to avoid a needless loss of water by surface evaporation.

The prevention of excessive waste of soil water is not the only important gain which results from early spring tillage. With all clay soils and clayey loams there is a certain degree of dryness at which they work with the least resistance, and are at the same time in the best possible tilth; as these soils pass from the excessive wet stage through the stage of best moisture to that of too little, they shrink and draw together into the larger or smaller clods which are so annoying, so productive of labor, and so preventive of large yields.

The ground referred to in the above experiment was plowed on April 28, was left in excellent tilth; but that which, side by side with it, laid eight days longer without plowing, had developed in it during that time great numbers of clods of extreme size and excessive hardness, and as a consequence it became necessary to go over this ground twice with a loaded harrow, twice with a disc harrow, and twice with a heavy roller before it was brought into a condition of tilth only approximating that which it might have had had it been plowed on April 28. Not only did the delay in plowing increase four-fold the labor of fitting the ground, but at the same time it resulted in an unnecessary waste of water, which was really large and greatly needed.

We are fast coming to believe that surface tillage diminishes the rate of evaporation from the soil; but as yet we are without positive data in regard to just how great this saving may be. This question was also studied at the above station. It was found that during sixty-four days, for each column of soil one square foot in section and six feet long, the uncultivated ground had dried 8.84 pounds more than cultivated.

A saving of 8.84 pounds per square foot is equivalent to a rainfall of 1.7 inches;

301.49 pounds of water are required for a pound of dry matter in corn, and the above saving of water in times of shortage should increase the yield of dry matter per acre 1,277 pounds, which is about 14 per cent of a good yield.

It should be observed that the retaining of water already in the ground, to the extent indicated above, must be much more serviceable to crops than to have an equivalent added to the surface in the form of rain, for in all such cases a very large portion of that, especially in dry times, is returned at once to the air without passing through the crop.—*Our Grange Homes.*

#### "ROBBING THE BEES?"

A writer advises beekeepers to take out of the hive all honey and to substitute sugar for winter food. Another writer criticises this practice and calls it "robbing the bees" of what rightfully belongs to them—of what is better winter food than sugar can be, for the purpose of gain—for a few paltry dollars.

It is evident that the writer who criticises is not familiar with the solution of "bee problems." It is good advice to remove all honey and give sugar in any year, provided the price of honey is high enough and the price of sugar low enough to make it an object. The retail price of honey ought to be not less than twenty-five cents a pound. In September the price was fifteen to twenty cents a pound. At this price and the price of sugar less than five cents a pound, it pays to substitute sugar for honey.

Twenty-five pounds of sugar (and water, for the sugar is dissolved in water) is sufficient to carry a colony through the winter. If twenty-five pounds be used, the cost is less than one dollar and twenty-five cents.

Twenty-four pounds of granulated sugar are sold to-day for one dollar. Five pounds of honey will pay for, nearly, at present prices, the sugar substituted.

Now, as to robbing the bees of what rightfully belongs to them, of what is better, says the critic, than sugar can be for winter food. This is erroneous. It has been demonstrated beyond question that granulated sugar is better food for bees in winter than honey under some circumstances, and under any circumstances is as good as honey. In a very dry or wet season the honey gathered lacks some constituent that is given it in ordinary seasons, and the result is dysentery, followed, if the bees cannot fly, by the spoiling of the stores and their own death. In some apiaries it is the practice to extract all honey in the fall, except that in combs where there is brood, and feed sugar for winter food. Indeed, there are beekeepers who declare that under any and all circumstances the bees come forth in the spring in better condition if fed during the winter on sugar—granulated sugar dissolved in water.

The beekeeper must not attempt to extract the honey in brood combs if there be any brood in them, for the centrifugal force will throw out the larvæ. The extracting is done as soon as the honey yield in the fields ceases. Feeding is neither a long process nor difficult one, especially if the object be to give the bees winter food merely. But that should not be the only object.

Another object should be in feeding in the fall to stimulate the queen. In this case the feeding should be continued as long as possible—up to within twenty-one days of cold weather, or as near it as it can be estimated, in order that all the queen's eggs may hatch before winter comes. The object is to fill the hive with young bees to live through the winter and be ready to begin work in the spring; there must be something besides old bees that worked in the fall; the greater number of these will die perhaps during the winter. The "bee year" begins as soon as work of gathering honey in the fall ceases. Then the beekeeper begins to prepare for the next year. GEORGE APPLETON.

#### THE DOMESTICATION OF SHEEP.

Chancellor Livingston, in "Essay on Sheep," presumes there was a time when all men were savages and all animals were in a wild state. He theorizes upon the domestication of the sheep, and shows the possible causes of the civilization of our race.

"As this quadruped (the mouflon) has probably been found throughout all the mountainous parts of Europe and Asia, and perhaps even in Africa; as its young are easily tamed; as its milk, its flesh and its skin are extremely valuable to man in a savage state, it is highly probable that

it was among the first quadrupeds that were domesticated; and from this circumstance it has perhaps wrought no less change in man than man has in it. What respect do we not owe it if, as is highly probable, we are indebted to it for the conversion of man from the wild and wandering savage to the mild and gentle shepherd! The horse, the bull and the camel were probably conquests subsequently made over the animal creation, because it requires more strength and skill to tame and render them useful. But the young mouflon was soon tamed. The female savage who followed her husband in the chase snatched it from its bleeding dam, pressed it to her bosom and became its mother; it sported with her children and taught them to love a race which they had hitherto pursued only to destroy. A slight ray of reason must have shown the savage how much less precarious his subsistence would be if he could draw it from an animal that fed at the door of his hut, than if he was compelled to seek it in the chase. He would extend his flock; he would cease to trespass upon the grounds of others, but he would appropriate a portion for the support of his flock; he would compound with his tribe, or the whole tribe, going into the same culture, would mark out limits which they would not suffer to be trespassed upon; they would unite for common defence; the rights of property would be known, and a nation be formed where only wandering hordes had existed. By what simple means does Providence produce the greatest good! That we are not at this moment fierce, savage and brutal, little superior to the beasts that roam in the wilderness, and only employing that little superiority in their destruction and in the destruction of each other, is probably owing to the domestication of gannivorous animals, and first of all, to that of sheep. To them we are also indebted for some of the most pleasing as well as for the most important and useful arts. The cradle of music and poetry was rocked by the shepherds of Arcadia, while the spindle and the distaff, the wheel and the loom originated in the domestication of sheep. This little animal, then, in losing its own wild nature has not only converted the savage into the man, but has led him from one state of civilization to another; the fierce hunter it has changed into the mild shepherd, and the untutored shepherd into the more polished manufacturer. The more sedentary men became, the greater were their wants and dependencies upon each other; and in those wants and that dependence originated civilization and polished societies."

#### COWS' NIGHT SWEATS.

During the few days of extreme warm weather in the past summer the writer visited a large milk farmer who kept about sixty cows. It was about six o'clock in the evening; the cows had been milked and in the stalls were eating their ration of green fodder corn. The owner was asked if the sixty cows remained in the barn all night. He replied that they did stay in the barn every night and that they were more comfortable in there than they would be in the yard or pasture.

Why do some persons go out of their way to dodge the truth to excuse themselves for doing what they know to be wrong or ill-judged. The cows were kept in the barn to save the manure. Every sane farmer knows that the best place for cows is in the open air, either in the open pasture or under sheds open at the sides where the cows can lie without tying—lie as they choose.

The sixty cows were in two long stables side by side, and the cows, when lying down in the old style stanchion, nearly touched each other. Imagine the temperature and the atmosphere in that stable—where sixty stoves were giving off heat, when outside the heat was almost intolerable. Sixty cows, or half that number, will heat a stable in a tight barn to almost seventy degrees Fahrenheit in winter. What then must be the temperature in a stable where there are sixty stoves when outside the mercury shows eighty degrees of heat?

And the farmer, because he wants to save the manure, tries to make himself think that his cows are more comfortable than if they were lying on the cool earth, the soft greensward, for the earth cools quickly after sundown. The fact is, the farmer, for the sake of a little manure, is willing to run the risk of getting a short supply of milk. It has been demonstrated that the cow will give more milk if she spend the summer nights in the paddock (a part of the pasture near the barn fenced off and

provided with sheds without sides) than in the barn.

To get milk—to get the most and the best milk—the bodily comfort of the cow must be considered and ministered to. The farmer with the sixty cows tickles himself with the thought that he is making a good "speck" in manure by keeping the cows tied up through the hot summer nights, when really the amount of manure saved will not make up, perhaps, for the loss caused by the shrinkage of the milk by overcrowding and overheating—overheating to the point that is uncomfortable for the cows. The comfort, the ease, the perfect rest of the cow must be studied if she be expected to yield to the extent of her powers. GEORGE APPLETON.

#### DIPPING SHEEP.

We strongly urge sheepmen everywhere to look to the condition of their flocks, in preparation for the coming winter. If infested with ticks or lice, they should at once be dipped, as no man can afford to feed insects all the winter, or in fact at any time. If scab exists, care should be taken to thoroughly stamp out the disease, and sheds should be well cleansed with a strong solution of the dip which is used, as the powers of contagion may be lurking there in dirty corners. The custom of dipping has become very general of late, and the wholesome and beneficial effects of the practice have been readily acknowledged by those who have adopted it. We are ourselves convinced that it would be policy to dip every flock, clean or unclean, in a dip of good repute, during the next two months. The sheep being thus protected from insects and disease, will thrive much better, and come out in good shape in the spring. Try it. Many of the sad losses of last winter, and considerable pulling of wool by the sheep (which occurred among animals which were compelled to be kept in shed), were due mainly to the fact that the sheep were not in a perfectly clean and healthy condition before winter set in. We are satisfied that regular dipping will soon become part of the general work of every owner of sheep on this continent. In other countries it is generally adopted, and the sheep are thereby kept in the best possible condition. Choose a good dip and use it properly, and use it regularly.—*Sheep Breeder and Wool-Grower.*

#### MERINOS FOR MUTTON.

Here is a bit of sheep literature from a Paris letter in a New England farm paper of September 1, inst: "A fact connected with sheep farming in France is the tendency to return to the pure Merino breed for mutton as well as wool. Perhaps the explanation is to be found in the wool element, for mutton, no matter of what breed, sells at the same prices. Not so in the case of the wool; the coarser breeds are here surpassed by the Merinos in quality and also in quantity." This has been my observation for many years. The French always did like the woolly, hlocky Merino, and only took in hand some of the coarser breeds on trial; and now they are discarding them. There is in America a real need for only two breeds, the Merinos for general purposes and the Shropshires to cross upon them for early-maturing lambs. A multiplicity of breeds is too apt to create a multiplicity of nondescript mongrels.—*National Stockman and Farmer.*

#### Scrofula Humor



"For 4 years I suffered with scrofula. Blotches came out all over my body, and swelling on the right side of the neck and in less than a year I had

Lost 40 lbs. I was induced by H. Mr. G. W. Doner. L. Tubbs, our druggist, to try Hood's Sarsaparilla, and the blotches and lump in my neck disappeared, and I soon began to

#### Gain in Flesh.

In 4 months there was none of the disease left in my system, and I was as well and strong as ever." G. W. DONER, Osceola, South Dakota. "I can vouch for the above. I can show 42 Prescriptions I put up for Mr. Doner, which did him no good. I urged him to take

Hood's Sarsaparilla and he is now cured." H. L. TUBBS, druggist, Osceola, South Dakota.

N. B.—Be sure to get Hood's. HOOD'S PILLS are the best family cathartic, gentle and effective. Try a box. Only 25 cents.







Our Farm.

THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey.

ABOUT FEEDING CHICKS.

WHEN feeding the chicks, always keep in view two essential points—growth and warmth. Unless the chicks grow rapidly, they will not give as large a profit as they should.

Lean meat is nitrogenous. If a piece is cooked and the broth thickened to a crumbly dough, and the meat is in fine pieces, the mess will be very nourishing.

Keep the chicks in a warm place, not under seventy degrees—and keep the brooder at ninety-five degrees. Always give water so that the chicks will not get wet when drinking, as dampness is fatal.

CUT STRAW AND EGGS.

An old farmer who secures eggs all through the winter, when asked for his secret, replied that he gave his hens plenty of cut straw. For awhile there was much unbelief in the reply, as it was supposed that the farmer was feeding cut straw to his hens (according to his statement); but when the facts came out, it appeared that the cut straw was really the secret, but it was used, four inches deep, on the floor of the poultry-house, in which millet seed and wheat were scattered, the hens thereby being provided with a warm place to work.

It will pay better, if the matter of profit from returns is considered, to use straw in the poultry-house than in the cow-stalls. Many cold poultry-houses can be rendered comfortable with straw, cut to three-inch lengths, on the floor, and if the hens are warm and can exercise, the cost will be less and the number of eggs greater.

THE HOME-MADE INCUBATOR.

We have been asked quite a number of questions in regard to the plans of the home-made incubator. We will state that our object is educational, to create an interest in artificial incubation, as it may open avenues for employment to some during the winter season. It is not the best, nor perhaps equal to some that are offered for sale, but hundreds are in use, and they hatch well.

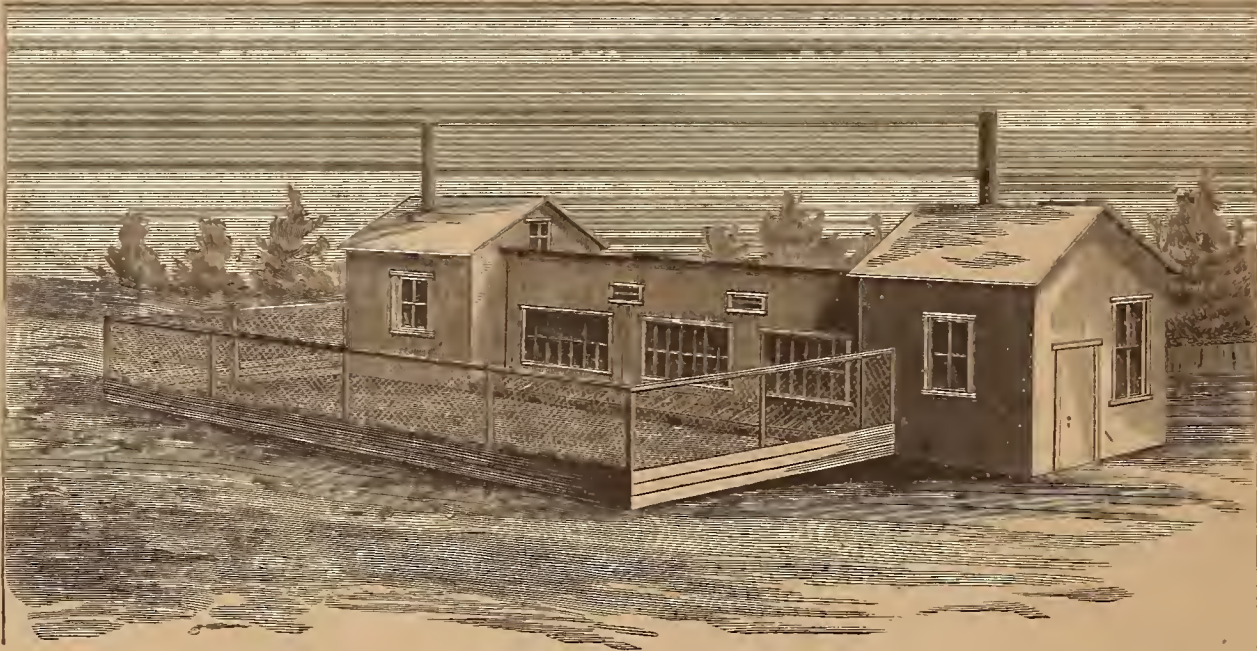
plans have been before published by us, and are sent in this manner in order to avoid repetition.

HEAVY MALES.

In selecting males, never give the preference to size, as size may be due to fat and idleness, but aim to select one that is active and of medium size. Observation will enable you to make a selection without difficulty, but many persons are so partial to large males that they often sacrifice their interests. If the male is pure-bred, you will secure as large chicks for broilers as from one that is much larger.

AN INCUBATOR AND BROODER HOUSE.

The illustration shows an incubator-house (at the left) in which incubators are operated, and in which a stove for heating water is arranged, from which, if preferred, pipes may extend to the brooder-rooms for warming the brooders. The brooder-rooms are in the shape of the shed portion, with large windows in front, and small covered



AN INCUBATOR AND BROODER HOUSE.

runs extending out beyond the windows and below them, glass being used to protect against cold, and to admit warmth and light. A large yard is also attached. The building at the right may be used as a feed and store house, or for occupancy by the attendant. The buildings may be of any preferred size.

AN EGG RATION.

Food rich in the nitrogenous elements will always induce the hens to lay if they are in good condition. It is important that the hens be kept in exercise, as it promotes the appetite and better fits them to lay. An excellent food for this purpose is equal parts of bran, ground oats and corn, and to each quart of the mixture add a gill of linseed meal. Scald it and feed to twelve hens. Give a pound of meat to twenty hens twice a week. Feed twice a day.

TROUGHS IN WINTER.

Earthenware vessels easily become broken in winter, especially if left out at night with water in them. Wooden troughs, made tight and the bottoms tarred with wood-tar, will prove better substitutes at this season; but they must be kept clean, or they will soon become slimy and filthy. Clean water is essential to the health of fowls, and the water should be changed frequently, as it is the source from which diseases are spread.

PREVENTING ROUP.

To prevent roup is something not very easily done, as the fowls are effected by the weather. In cold, dry seasons the roup does not prevail as much as in the fall, when the rains are frequent, the ground wet and discomfort exists in the poultry-house. To guard against the disease, the windows should be so arranged as to permit of plenty of sunlight, in order that the floor and walls may be warmed and moisture may be evaporated. While the pure air may be admitted when desired, through the doors and windows, it should not be overlooked that drafts of air on the birds is liable to hasten an outbreak of the disease. By keeping the floor well dusted with fine, air-slaked lime, the disease may be checked in the beginning and the room made dry.

SPECIAL SALE.—For 60 (sixty) days you can get Roofing, Spouting and Paints at 1/2 (one-half) price. Write for circulars to Jewett, the Roofer, Steubenville, O. On receipt of half the regular price quoted, we will promptly forward any order to any address. This sale is made to prepare for new building and machinery.

SHIPPING BROILERS.

They must be killed by sticking them in the throat, dry-picked, nothing being removed but the feathers. All the pin-feathers must be removed and the skin must not be broken. The crops must be entirely empty; hence, do not feed for thirty hours before killing. Pack in boxes and barrels without any packing materials whatever, and ship by express. Write to your commission merchant, and have all arrangements made before shipping, in order to prevent delay.

SPECIAL ARTICLES.

We have been asked why we do not publish a series of articles, beginning with illustrations of the best poultry-houses, and refer inquirers to them, as well as give points on best breeds, etc., the suggestion coming from a subscriber at Rock Island, Illinois.

The fact is that every issue has a special article, and we illustrate about fifty houses, brooders and appliances each year. We

and must say that they are the hardest fowls I ever raised. Last year I raised 46 from a trio, and I was a "green hand" at the business. This year I raised 90 turkeys from \$15 worth of breeding stock—four hens, from eight months to a year old, and a fine Tom, one and a half year old. I do not know the money value of feed my ninety turkeys consumed this summer, but all I fed them was the skimmed milk from one cow, four bushels of wheat, two of oats and one of corn; but I shall have to feed them more now, as I am marketing them. There is one fault I find with the White Hollands, which is that they are very friendly, and insist on roosting near the house. They always come home at night. A SUBSCRIBER.

COAL-TAR ON PERCHES.—I have never seen in your department anything mentioned about coal-tar for perches in the poultry-houses. I have tried it, and I told one of my neighbors about it, and he thinks a great deal of it. I use hot tar for the perches, and also on every place that the perches rest on, and I have never been able to discover any lice on them. I keep from one to three hundred hens all the time. If this will be of any use to my fellow-poultrymen I shall be pleased. I

have found a good many hints in the FARM AND FIRESIDE that have been useful to me. Livermore, Cal. J. N. C.

INQUIRIES.

Young Turkeys.—Mrs. J. J. R., Randall, Wis., writes: "I lost three young turkeys. Examination shows that the livers had white spots, looking like sacks of fat. They drink a great deal. Would poison so affect them?"

REPLY:—The symptoms are similar to those affecting fowls when Douglass mixture is allowed, or copperas solution, though it is possible that they have been poisoned by eating some substance.

Swollen Joints.—F. L. H., San Antonio, Tex., writes: "What causes young turkeys to swell in the knee-joints, and finally lose the use of their legs, becoming deformed and worthless?"

REPLY:—It is probably due to jumping daily from a high roost, the rapid growth and heavy weight assisting to cause lameness. Keep them on straw at night if it can be conveniently done.

Hen-lice.—G. W. B., Manlius, N. Y., writes: "Give me a remedy for ridding a house of hen-lice."

REPLY:—Saturate every portion of the house with kerosene or the kerosene emulsion, giving two or three applications.

Incubator Manufacturers.—W. H. F., Alabam, Ark., writes: "Please give names of two or three firms who manufacture incubators."

REPLY:—There are several advertisements of such that are in the FARM AND FIRESIDE, or have recently appeared.

Regulator.—B. D., Pittsburg, Kan., writes: "Is there any method to regulate an incubator with an electrical contrivance?"

REPLY:—We know of no one who sells regulators, as they cannot be made to fit any and all incubators, though it is possible to regulate with electricity.

Hot Water for Hatching.—L. E., Marion, Ohio, writes: "Is a lamp required for the hot-water incubator?"

REPLY:—No lamp is needed. Provision is made for storing heat, hence the warmth is easily retained by hot water only, which renders the work less tedious, but perhaps not less laborious.

Lengthened Toe-nails.—A. R. G., Last, Cal., writes: "We have a hen that scratches for her food, but her toe-nails are one and a half inches long. Another hen has the mud hardened into balls on the ends of her toes. What can be done?"

REPLY:—Probably due to the soil being free from gravel or stone, and also soft. Simply cut the nails with shears and apply pulverized alum, to prevent bleeding.

Scrofula.—S. E. W., Butler, Ohio, writes: "What ails my fowls? They break out in lumps like warts as large as peas. They appear around the bills, eyes, and on the legs and body. Sometimes the eyes are sore, swollen and shut."

REPLY:—If it appeared only once, the difficulty may be chicken-pox, but if it appears at different times, or recurs, the difficulty is scrofula, resulting from roup at some time, and which is more or less inherent. It is best to destroy them and procure others.

Sheridan's Condition Powders

MAKE HENS LAY.

If you can't get it send to us. We mail one pack 25c. Five \$1. A 2 1-4 lb. can \$1.25. Six, \$5. Ex. paid. Poultry Raising Guide, free, with \$1 orders. T. S. JOHNSON & CO., 29 Custom House St., Boston, Mass.

If you would like to do a favor to your friends call their attention to our generous offer of a Free Present to every person subscribing for the Farm and Fireside for one year, at the regular rate. A very choice list from which to choose is given on page 19.

CORRESPONDENCE.

THE GOBLER'S BROOD.—I have read a great many remarkable stories about turkey gobblers, but always thought they were exaggerated. I thought that all the gobbler was intended for was to strut around, to show himself to the best advantage, and to trample all the young ones that he could. But my mind has undergone a change recently. My wife has a gobbler about three quarters Bronze variety, and he ran with the flock all the summer. When the young ones were half grown he disappeared, and was gone for three weeks, but one morning I saw him fly on the back of a calf, and scratch and fight, until the calf ran some distance, when he returned to the place where I saw him, and he kept up such yelping and gobbling as to attract my attention. I looked to see the cause, and found that he had three young guineas, adopted as his own. He continued to stay away from the other turkeys, caring for the guineas as carefully as a mother would have done. For three or four weeks he would set out in the stubble and hover them at night, and move around carefully until the dew was off. Before they were large enough to fly onto a roost, something caught the young guineas one night, and he returned to the flock of turkeys, sorely bereaved. I really think he would have continued to care for them if he had not been so unfortunate, for he seemed as devoted as a mother could have been. Whitewood, Ky. A. B. T.

WHITE HOLLAND TURKEYS.—Last spring I noticed several articles about White Holland turkeys. I have given them a thorough trial,



## Our Fireside.

## A SONNET.

I hold before me, in weak, trembling hands,  
The fading portrait of a woman's face;  
A picture not of young and girlish grace,  
But one upon whose sacred head the sands  
Of time had dripped until the gleaming strands  
Shone wan with drifted white. A band of lace  
Circles the wrinkled throat in fond embrace,  
E'en as these boyish arms, years gone, their hands  
Of love clasped 'round the then fair neck of her,  
As she softly rained her lullaby upon  
The drowsy ear in dreamland's tinkling drips;  
And as I scan that face now, thro' the blur  
Of manhood's tears, I hear a voice, long gone,  
Soft crooning thro' the portals of lost lips.  
—Judge.

## BORLENA DUKES' CAPITAL.

PART FIRST.  
CHAPTER I.

Borlena was a Yankee girl of thrifty habits and excellent constitution. If she had been feeble, she would hardly have arrived at the opening of my story, since only a strong constitution could have borne her through a trying childhood, handicapped by such a name; for abominable as was the sound of Borlena, it was but a fraction, (three fourths, so to speak,) of the original baptismal gift bestowed upon her by both sides of the house. Mrs. Duker having been a Tabor—and everybody in Breed's Corner knows who the Tabor, of Taborville, were—was naturally anxious to perpetuate the name. Failing a son, she loyally determined to sacrifice her baby girl. Mr. Duker having lost his favorite sister, his playmate, at sixteen, had promised himself to name his first daughter "Lena," in her memory. The result was that when the Rev. Mr. Peebles asked, "What shall this child be called?" the answer was, "Taborlena." As if ready to face this or any other ill fortune, baby Borlena smiled courageously up when the water touched her forehead.

The same sweet, courageous smile had carried her sunnily through any and every discouragement likely to befall the daughter of New England parents, honest, hard-working and wholly dependent upon the returns of a rocky hillside farm.

The family tree, seemingly as unprolific as the family acres, bore no second fruit, and the little Borlena made such companionship as she might with her undemonstrative parents. So far as possible, they in turn allowed the little creature to come and go in unchecked happiness, and unconsciously basked in her sunny presence, as they were wont to warm themselves unheeding in the sun, which sent its long arrows through the southwest windows of the low, bare kitchen. In the morning and the springtime, Borlena spent her happiest hours, for then the old plow was dragged from its place in the barn, tightened in the handles and sharpened in crude fashion ready for the field; Borlena watching with special interest the brisk shake with which her father assured himself that the cross-bar between the handles was strong. Down into the fields she went later, and watched with ever-new interest as the nose of the plow turned the first spring furrow. At seven, the great, red oxen and she were old friends, secure in an intimacy which permitted her to lay fearless and admiring fingers upon the brass knobs which adorned their horns, as they munched their fodder in the stall. At seven, too, she had learned to shout in shrill mimicry of her father's heavy tone, "Gee" and "Haw," and to understand as well as the brown-eyed oxen the meaning of those mystic words. At eight she was entrusted with the ox-gad, a loug, stripped sapling, supple and efficacious, which in her eyes became a scepter of power by which her majestic steeds were ruled. Up one furrow and down the next; around the stump which marked the corner of the south potato patch went the oxen and their master, while the childish feet of the little driver kept pace as well as she might, waving her homely wand and fondly believing that *Blng* and *Stop* would never have got their lumbering around without her childish "Gee! Haw!" And when the little feet began to lag, tireless as were his own, Peter Duker needed no second hint to lift Borlena safely onto the cross-bar of the plow, where she still held tightly the ox-gad, with her feet braced above the plowshare and her pink sunbonnet nestled firmly back against her father's blue denim shirt.

"I wish," she said one night when, after finishing the chores, her father sat in the kitchen rubbing his knee to get the stiff ache out of it; "I wish you could ride and plow as I do, pa. I'm tired, but I don't ache."

And Peter had laughed and said: "The folks that rides is most likely to have somebody else to do the plowin'."

So the years went by, with Father and Mother Duker in patient industry and loving forethought putting by, even the hardest sea-

sons, a frugal addition to the nest-egg laid in the Taborville bank by Aunt Selina Tabor, who sent five gold dollars to Borlena when she had counted that many years.

"'Twon't be much," said Peter, with pathetic regularity, on each return from making his pitiful addition to Borlena's bank account; "but 'twill be somethin', mother, if we should be took."

And mother would answer, with very much the same monotony of speech "It is comfort-in', tho' 'tain't no ways likely that either of us will be took."

As Mrs. Duker said so many times, "it warn't no ways likely." The quiet life went on, varied only in its weekly round by the days when the rows of milk-pans shining in the sun were sent indoors by cloudy skies to dry in the less uncertain warmth of the kitchen fire. For nature may shine or cease to shine, as pleases her, but no such fickleness may be allowed the mistress of a country home.

Borlena might have been going on yet, drying fruit and sunning milk-pans on the farm at Breed's Corner, had not fate stepped in the summer that she reached sixteen, the very age at which her aunt and namesake, Lena Duker, had died.

Then the unforeseen and "noways likely" came to pass. Both Peter and his faithful wife

moment when Jerry Golden, driving back from Taborville to his mill, found the shattered old carryall with one wheel still balanced, quivering on a roadside boulder, the thills missing with the missing "Jenny," and the pitiful faces of the farmer and his wife lying within a few feet of each other as they had been thrown, apparently striking at the same instant, and in the same instant going out of life. "Took," kind, simple, faithful hearts, by some infinite compassion, together; unconscious of each other's taking or their own.

## CHAPTER II.

When, through some compassion for her youth, Jerry Golden's wife was sent ahead to tell her of the accident, before the slow-moving group came up the walk with their burden of death, Borlena made no outcry; she only grew still and white—all that she felt as she went about was that there was not enough air to breathe, a dead oppression. She opened the spare room and laid its big pillows aside to make room for her father, herself settling the other dear head in the little room where she had seen it lie all through her mother's quiet life. When it was all over, she closed the door of the desolate house and went home with Aunt Selina's son's wife.

"It'll give her a chance to turn herself,

she went straight to the bank to see Mr. Webster, the president and her father's friend.

Quite unversed in business ways, her confident request to see Mr. Webster brought her promptly to him, however.

"I'm Borlena Duker," she said simply, as she found herself in the president's private office. In her confusion she addressed the back of a young man writing at one of the desks. The owner of the back turned with a quizzical smile at the sound of the portentous name in such girlish accents, but at sight of the tender, innocent eyes and mouth he sprang to his feet.

"You want my father, I presume," he said, courteously. "Be seated a moment; he is with a gentleman inside," motioning to another closed door, and as Borlena settled herself somewhat nervously on a chair, the young man returned to his writing.

An hour later the elder gentleman was bidding her good-by, with a cordial pressure of the hand.

"Since you have asked me," he was saying, "I think your decision a wise one. I think I know of a purchaser who will pay at once if he takes the farm, and in that case you will have quite a little capital, with the deposit with us in your name. Think it over to-night and consult your friends if you wish, and to-morrow, if you still decide to sell everything, see Mr. Gill. He is my lawyer, and will be a judicious adviser."

"Remarkable decision of character," he said to his son. "I only wish you had as much, Forrest." But Forrest was working away at a row of figures all looking up at him with timid, blue eyes.

Emboldened by the cheerful ride of the morning, Ben Golden made his appearance at the bars of the west pasture in the early evening, where he had plainly caught a glimpse from the mill across lots of Borlena's light print dress, and where he was sure of a chance to speak to her alone; a prospect which filled him with a mixture of delight and apprehension, which made it necessary to swallow frequently and retie his spotted neckerchief more loosely. The girl was too used to Ben to notice his sudden appearance. Indeed, she was rather glad, because Ben was a part of the old life and would understand, being young, perhaps, that she could not go on living as she had done, without her father and mother. She felt a sudden fury of haste possessing her, to get away and make a new place for herself somewhere. With her mind full of her own plans, she said at once, "I'm glad you came." And without noticing the illumination of his face at her simple words, she went on: "I saw Mr. Webster this morning, and he talked it over with me; pa always trusted him, you know." And I'm going to sell the place."

"Who to?" said Ben, because he must say something.

"Mr. Webster thinks he has a man who wants a summer home. The summer people won't mind the roughness; they like it because it makes it look pretty. It is pretty, isn't it?"

She glanced across the frequent rocks to the distant hills, dropping her eyes to the too steep pasture land that touched the edge of the stream.

"There's the mill," she said smilingly, "if the prettiness is what they want. Whoever buys this place gets the mill thrown in to the view. Oh, Ben!"

As she added the last exclamation her voice thrilled with an inexplicable change, and dropping her head upon her arms as they rested on the bars, burst into convulsive weeping. How it came about they never knew, but to see Borlena, who had always borne with greater fortitude than he the slivers, the cuts, the bumps and pangs of punishment for her rare naughtiness without a whimper, sobbing like this, was more than Ben could stand. Claspd in his arms, she sobbed her heart out on his honest breast, and when she grew quieter, Ben seemed somehow to do the talking with an eloquence which would have surprised any of his friends.

"I can't bear it, it seems like," he was saying a little later. "But if you'll wait for me, I'll be as patient as I can tell we can buy it back and start together."

"But I don't want to buy it back; I want to get away. Not even—" hesitating, and then with a quiet dignity, more firmly, "not even with you. So you'd best give it up, Ben."

"Give up nothin'," said Ben sturdily. "When do you want to go, and where?"

"I was going as soon as the farm is sold, if I could. There's Aunt Selina's sister that's gone to Bartlett, Kansas. She's written and wants



AND DROPPING HER HEAD UPON HER ARMS AS THEY RESTED ON THE BARS, ETC.

were "took." It was altogether a most unexpected taking off. No one could have foreseen it, that sunny day when Borlena tucked her old striped shawl across Mrs. Duker's best black silk, as her father gathered up the rusty leather reins and ejaculated "Gedapp!" to Jenny, the new mare.

"I wish you'd hitched up Billy," said Borlena, as she pulled a straw out of Jenny's mane. "Billy knows the way and is used to the railroad crossings, and he never minds when Mrs. Gerry's white hens come scrambling out under his feet. Then there's the Duncan's dog that looks so fierce and flies out at every team that goes by. You just sit still, pa, and let me change 'em now. I can slip the other harness onto Billy and hitch him in, in no time."

"Pshaw! Go 'way," said Mr. Duker; "you think Billy's the only hoss 'tever was. What if she does lay her ears back? Jerry Golden says he driv' her sence she was a colt, and she's jest as stiddy as stiddy."

So Borlena, with the unwonted caress of laying a soft hand upon the hard, bony one of her mother in its black, half-hand, had said "Good-by," and watched them drive away toward Taborville to "do their tradin'" and put what money should be left in the bank.

No need to linger with the harrowing tale. Nobody ever knew whether the white hens had startled the uncertain little re, or what had gone between her fright and the

"Liphalet, an' that's something," Mrs. Tabor had said to her husband the day of the funeral; "and Mother Tabor'd want to have her here, ef she hadn't passed on, for her name's sake. She's a likely gal, too, but her ma's always been the manager o' the family."

Borlena, however, showed some gifts of inheritance as a manager when she found herself apparently the especial charge of, what her Aunt Selina would have called, "every male man" of the family, each one in turn making it handy to stop in and offer advice, "Seem's you ain't rightly any one to see to ye," with which opening the child grew wearily familiar. All seemed to agree upon one point as to her best arrangement, and that was that the adviser of the moment should take the farm on shares and bring his family to live there. After the fifth interview of this nature, Borlena put on her hat and jacket and started out one morning on foot for Taborville. She wouldn't ask for the horse, for she wanted to avoid being questioned, but she was not at all sorry at the end of her first half mile to hear Ben Golden's voice offering her a lift.

Ben and she had always known each other, and she knew he would offer no advice. His strong, brown hands helped her lightly to the high, spring seat, and his kind eyes looked frank pleasure into her own as they rode on. At the edge of town he lifted her down and

## FOR CATARRH

boils,  
pimples, eczema, and  
loss of appetite,  
take that sure  
specific,

Ayer's Sarsaparilla  
Cures others, will cure you



## Our Household.

### IN THE ATTIC.

WRITTEN ON A RAINY DAY.

Of all the emotions that sadden the heart,  
When the year from the summer has flown,  
And the wind is about  
With a flutter and shout,  
And all of the leaves have been sown;  
The saddest of all is to creep up the stairs  
That lead to the old attic gray,  
And close to the rain  
Sit alone at the pane  
And fold unused garments away.

We do not know why a fog falls o'er the eye  
When we put the old dresses aside;  
Neither well can we say  
Why the smile does not stay,  
Nor why should the tear close abide.  
But it always is so—I recall when a child,  
How my mother and I used to creep  
To the old, shakely loft,  
And I think, too, how oft  
She used to sit down there and weep,

By the long cedar chest where the baby-clothes  
were,  
And the low, little splint-bottom chair,  
Like a trusty old friend  
That is true to the end,  
Through the summer and winter, 'twas there  
By the old-fashioned crib where the first baby  
died—

The wee, prattling gift of her love,  
That passed like a flower  
In the bud, one dark hour,  
To brighten the country above.

Oh, that old attic room where the garden-seeds  
hung,

The thyme and the sweet-smelling sage,  
The long-handled gourd  
Swinging there, and the sword,  
And the little pet bird's empty cage;  
How they all fill a space in the gloom of  
to-day,  
That finds me afar and alone,  
Up here by the pane,  
And so close to the rain,  
And the olden-time radiance flown.

—Good Housekeeping.

### A PEEP IN CITY WINDOWS.

**A** YOUNG woman who lives in a provincial town determined on a visit to her country's metropolis.

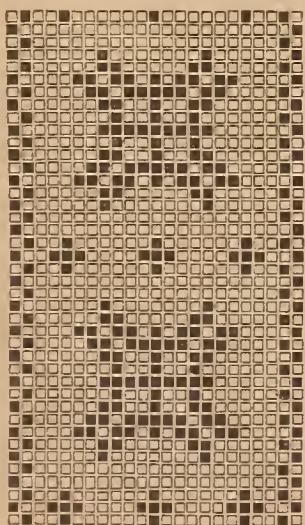
"What will you do there?" asked her friends.

She replied: "I have no more definite plan than to walk the streets and look in the shop windows."

Surely, that is sufficient entertainment. Let us imagine that we accompany her.

A bookstore with old-fashioned volumes attracts a small crowd of people, not all of whom appear literary. The objects which detain the most passers-by are autographs in the window. One is a letter from Eugénia, empress of France; another is from Bulwer. What a fascination there is in a scrap of writing from some noted hand! Perhaps the best and largest collection of autographs in America is in Chicago, over the restaurant of Mr. Gunther. This museum is free. It contains the manuscript copy of Ben-Hur. There are letters from Thackeray, Burns, Walt Whitman, Dickens and nearly every other English author. A person who is fond of books can linger in delight in those treasured pen-strokes.

The majority of women care more for bonnets than for autographs. A window full of hats will bring one to halt for at



CROSS-STITCH.

least a quarter of an hour. Plaid velvet ribbons form a lively feature of window decoration this fall. On a hat of dark green velvet there is an aigrette of peacock feathers with several loops of green velvet, and one of plaid ribbon having a brilliant com-

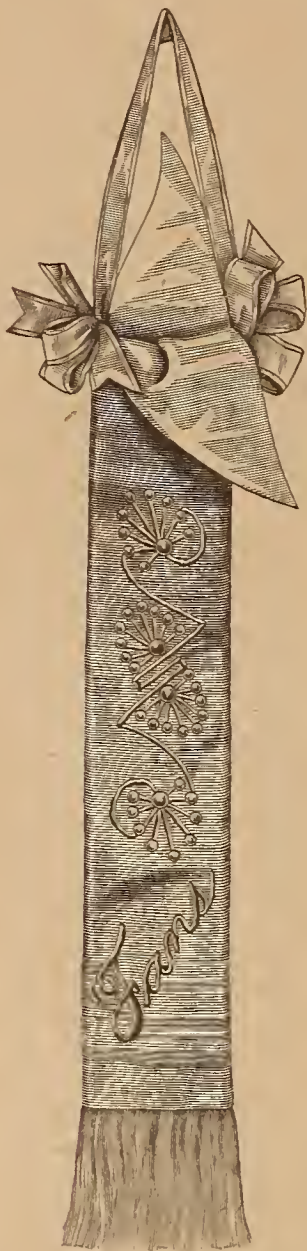
bination of reds, browns, blues and a touch of gold.

A little hat of red velvet has a pointed crown covered with white lace; a puff of the same lace is over velvet around the edge of the brim. Loops of narrow, red velvet ribbon and a white aigrette are in front.

A black and yellow hat has a foundation of yellow velvet with black lace over the crown and edge of brim.

A white velvet hat has a crown embroidered with yellow chenille. A cluster of white orchids with pink and yellow markings nod over the high crown and droop a little in front.

Nothing can be more stylish than the black hats. Most of them have brims of moderate width and rather low crowns. Their feature of greatest effect is the big bow in front. The loops are wide and long, held closely together by being very tightly drawn. A jet, steel, or gold buckle is often used. Enormous prices are asked for these black hats. It seems an extravagance to buy one, but they contain a mass of good material which can be used again and again. This knack of making



A FAN-BAG.

hats is a valuable talent. The other evening a lady lost her hat. It blew away while she was taking an evening promenade, and being of light weight and worn on the back of the head she was not conscious of its departure till she came home to find herself bareheaded. She lamented her loss bitterly till, the next day, a lady said, "Bring me all the black stuff you have." The collection consisted of velvet, plumes, jet, etc., and by half a day's work they were converted into an admirable black hat. It is an economical plan to peep into the milliner's window, go home and collect one's black stuff, set to work and make cheaply what is so dear to buy.

Novelty dress-goods are very rich; too rich to be practical, but one likes to look at them. Striped velvets woven to simulate cords at intervals of from half an inch to wider spaces, are very plentifully shown. Stripes of velvet and satin, alternating, of blue and gray, are frequently seen. There is a velvet with changeable stripes in rainbow colors which, in different lights, suggests peacocks' necks, parrots' wings, sunset skies or jewels under lace.

In a street where gaudy luxuries are displayed, it is restful to the mind and eyes to find a window full of useful and inexpensive goods. Such a window is beautifully draped with flannels. They are the best of their kind, exquisitely fine both in color and texture. A white ground with pink

stripes and little, pink parallelograms scattered up and down is one pretty pattern. A pale blue ground with pink and white stripes has a French effect. There is a pale brown piece—perhaps café au lait will best describe the tint—over which are graceful sprays of blackberry leaves and blossoms in deeper shades of brown. This design is also in gray. All these flannels are only seventy-five cents a yard.

A linen window, when arranged in good taste, has unequalled attractions. Such a one has a spinning-wheel in the center, with its picturesque bunch of flax. Both on the right and left are rows of handkerchiefs, each hung by one corner from the ceiling of the window to the height of the spinning-wheel. They are in rows according to their quality. Modern fashion shows correct taste in handkerchiefs. A hemstitched edge not more than one third of an inch wide, with an initial of corresponding size, is dainty and beautiful enough for any one. Others have narrow, embroidered edges. Some have colored hems hemstitched onto a white center.

Arranged about the window are packages of napkins, in which pansies seem to be a favorite pattern. There are doilies of white and yellow, the latter color being a brilliant but delicate orange. These are woven in a pattern which resembles a fairy checker-board. Table-cloths are in corresponding designs.

Wall-papers tend to solid colors, or to a combination of several shades of the same color. A fine display in a window on Fifth avenue shows only striped papers. The stripes vary in width. There is a stripe two inches wide with stripes of graduated width on each side; this arrangement is indefinitely repeated around the wall, and the color is old gold. The striped effect is produced by a dull or polished surface of the paper. This same design was in pink and blue, in pink and green, and other combinations.

Before the windows of the art stores there are always lingering crowds. In New York, it is encouraging to say, the paintings of home artists command quite as good prices as foreign paintings. Through some of our art journals we all know something about Ridgeway Knight. He is having good luck in winning public favor. A canvas from his hands brings eight hundred dollars when it is no larger than eighteen by twenty inches, and one twenty-four by thirty-six sells for twenty-four hundred dollars. His favorite subjects are peasants girls with wooden shoes. Several landscape artists are highly appreciated. There is one whose merit is subject of discussion. He chooses to paint our American farm scenery as it is, and the simple-hearted observer is pleased, although some more severe critic shrugs his shoulders and says, "No poetry." This artist is R. W. Van Baskerck. One of his pictures is of a New England—or perhaps New Jersey—farm-house. It is a red frame building with dormer windows in the roof. There is a garden full of blooming dahlias; elm-trees are on the roadside. The foreground is made dark gray by a shadow from something outside of the picture; this shadow makes the grass a dark bluish-green. There are chickens pecking in the road before the gate. It is very realistic.

A certain little store makes a specialty of certain tricky pictures. For instance, on the front of a box is painted slats, through which one sees a cat. This is so cleverly done that one is almost deceived into thinking it a real cat behind real bars. On a board is a picture, and over it a glass which has been broken. This is so stimulating to one's curiosity that one involuntarily puts forth the finger to feel the sharp edge of the broken glass, when lo, it is all smooth. But these things having made one wonder and smile, lose their interest. KATE KAUFFMAN.

### OPERA-GLASS BAG.

Bags for holding opera-glasses are now looked upon as indispensable. One thing in regard to them is very essential, and this is that they shall be made only of the richest materials and ornamented with tasteful embroidery made still more resplendent with beads, spangles, etc.

A good idea is to procure some small but rather distinct pattern brocade for the lower part, and to outline the design with a double line of gold thread. If this is not

considered too much trouble, a larger pattern may be chosen and worked over thickly with colored silks. An immense variety is always to be had in gold braids and galons, with or without picots, and which are exactly suitable for trimming and finishing these elegant little articles.



OPERA-GLASS BAG.

To the many ladies who write me where to obtain materials for fauzy work, I would refer them to Henry Hesse, 308 Grand street, New York City.

There are two ways for making opera-bags, the most customary being that here illustrated, and which I will describe first.

The shape for cutting the cardboard base of the opera-glass bag is shown. It is well to vary the sizes. The foundation is covered on one side with some of the brocade that is to be used for the sides, but, of course, it need not be embroidered; the other side is lined with sarcenet, silk, satin, moire, or anything else that happens to be convenient.

Now cut a band of buckram about two to three inches wide and long enough to fit exactly round the base; join the two short ends. Cut a similar strip of the embroidered material, join the ends, and slip it over the buckram. Turn the raw edges over to the wrong side and hold them down with lacing stitches carried across and across. Line the circle with silk to match that used for the bottom of the bag, then sew it around the edges of the base. Make the bag itself next, using satin of a color that will contrast nicely with the brocade. Cut the satin about twice the depth of the embroidered band, and wide enough to allow of easing it on, allowing an extra three or four inches to the depth to turn over at the top to make a hem and a running to hold the ribbon or cord and tassels with which to close the mouth. Join the satin to form a circle, then sew it to the lower part. The easiest way of managing this is to hem down the satin edges to the upper part of the brocade-covered band, easing the satin to make it fit nicely. Any stitches may be hidden beneath a band of gold braid, and a similar band should be sewn around the lower edges of the embroidered band. This completes the bag shown in illustration.

The second way of making an opera-bag does away with the stiff sides, the bag itself springing directly from the cardboard base. This, of course, gives a smaller space for embroidery, and only one material can be conveniently used. Cases for the small collapsible glasses are usually made thus, but the weightier glasses require the more substantial bags.

### CROSS-STITCH.

This can be worked in any color of cotton on white goods. It can also be used in colored silks or wool goods, as decorative trimming for trimming a child's dress.

L. L. C.

### A FAN-BAG.

It does seem as if ribbon was used for almost everything at the present time. This fan-bag is made of yellow satin ribbon of generous width. The long edges are seamed together with over-and-over stitches to within some distance of the top and bottom. The top of each ribbon is cut in a deep point, and one end allowed to stand erect, the other being turned down over the bag. A suspension ribbon is formed in a pretty bow at each end and fastened to the top of the bag. The loose ends of the ribbon at the bottom of the bag are fringed. A spray of any kind may be painted or embroidered on the outside, and below the word "Fans" embroidered diagonally across the bag with Japanese gold thread.

**A PRESCRIPTION.**

My pallid friend, is your pulse beating low? Does the red wine of life too sluggishly flow? Set it spinning through every tingling vein By outdoor work, till you feel once again Like giving a cheery school-boy shout; Get out!

Are you morbid, and like the owl in the tree, Do you gloomily hoot at what you can't see? Perhaps, now, instead of being so wise, You are only looking through jaundiced eyes; Perhaps you are bilious, or getting too stout; Get out!

Out in the air, where fresh breezes blow Away all the cob-webs that sometimes grow In the brains of those who turn from the light To all gloomy thoughts instead of the bright, Contend with such foes, and put them to rout; Get out!

—Medical and Surgical Reporter.

**STRAW BEDS AND CORN-BREAD.**

Our memory goes back to the days when we fed our childish fancy on stories which enlisted a sympathy for the poor family who slept on straw and ate corn-bread; but if our recollection is true the straw was on the floor, filthy and covered with rags, while the corn-bread, perchance, was but a molded crust.

The nutritive value of corn is well known, while the delicious dishes prepared from the meal are legion, and as to the straw beds, happy is the possessor; envy, rather than pity, for him who sleeps thereon.

Where is the advantage? When the number of sleeping hours is taken into consideration, and when the amount of poisonous matter thrown from the body is estimated, one can readily conclude that a bed is not an easy article to keep clean. Just in this particular is the point gained by the straw bed over the mattress or feather bed, either of which is not easily cleaned; consequently, they do service for a number of years, while the straw tick is emptied, washed and refilled with good, clean straw (oat is better than wheat), growu since the last filling.

After the newly-filled tick has been replaced on the bed, it is of rather ungainly proportions, owing to the fact that more straw than at first seems needed must be used in order to insure a comfortable bed. After two or three weeks of coaxing and wakeful nights, interspersed with dreams of landslides, the hills will go down to meet the valleys, and presto! A nice, smooth bed is gained. At this point let the straw alone; don't stir it at all, for stirring it breaks the straw into short bits, then the tick will become chunky in some places and thin in others. If the tick is placed over springs and a pad is placed above it, a greater degree of comfort will be gained.

MARY D. SIBLEY.

**LAMPS AND SHADES.**

Although many houses contain gas, for ready purposes and decorative purposes lamps are much preferred.

The general use of the upright piano has brought into use the piano lamp, which comes in all prices to suit the trade, as cheap as \$3.50 and as expensive as \$25, according to the trimmings, for you must



LIBRARY LAMP.

know that even lamps have almost a wardrobe in these days.

The circular burner gives a very intense as well as a soft light, and shaded with the beautiful shades, which are fashioned of all materials—crape de chene, silk, tissue-paper resembling crape—make them quite ornamental.

The wire support costs from thirty-five cents to one dollar, and the crape paper for the shades costs forty-five cents a roll, or fifteen cents a yard, and comes in all colors. They are very easily made, and from our illustration the idea can be formed how to do it.

Library table lamps are shorter in the standard, and are often upheld by a piece of statuary in silver-bronze. Seven dollars buys a very pretty one of this kind.

The brightening influence of plenty of lamps in the house makes home a strong rival to outside places which are always bright and inviting. We cannot use a stronger foil against outside temptation for our men folks than to make home bright and inviting.

The favorite colors for shades are dark red, pink and yellow. A piano lamp could serve the purpose for lighting a hall as well, as it has the advantage of being carried about.

Student lamps, too, are much cheaper than formerly. I have one which we have used for ten years, for which I paid \$7.50, which can now be had for \$3.50, and nothing is pleasanter to read by than these lamps with a soft shade of color lined with white. It does not pay to bother with poor lamps, as good ones are cheap enough, and all sorts of little appliances come to transform it into a miniature stove on short notice, to make a cupful of tea for the invalid or warm up the baby's milk or crimp the mother's hair. The many uses make them an indispensable feature of housekeeping.

L. L. C.

**CLEANING FURS.**

Now that the season has arrived for getting out fur garments, some of our readers will doubtless be glad to hear how such garments are cleaned and renovated in Russia, the country of furs.

Some rye flour is put into a pot and heated upon a stove, with constant stirring as long as the hand can bear the heat. The flour is then spread over the fur and rubbed into it. After this the fur is brushed with a very clean brush, or better, is gently beaten until all the flour is removed. The fur thus resumes its natural luster and appears absolutely as if new.—*La Science Illustrée.*

**VARIETY IN SERVING HAM.**

The farmer's households remote from market are frequently dependent on the home smoke-house for meat for the family table, and ham then becomes the recourse not only for every-day occasions, but for company as well. To have it served with variety we give the following recipes:

**HAM BOILED IN CIDER.**—Wash a ham well in cold water, put into a large boiler, cover with boiling water and scald a few minutes. Take up, put in a porcelain-lined kettle, cover with cider and simmer gently fifteen minutes for every pound. When done, set the kettle off the stove and allow the ham to cool in it. When cold, take up, remove the skin carefully and wipe over several times to absorb the fat. Garnish with boiled carrots and beets cut in fancy shapes. Serve with olives.

**BAKED HAM.**—Wash a medium-sized ham as for boiling; soak for twenty-four hours in cold water, trim and wipe dry. Make a paste of flour and water, cover the flesh side of the ham with it and put in a baking-pan, the skin down, and bake in a moderate oven twenty-five minutes for every pound, basting every ten minutes with vinegar and mustard mixed with the drippings in the pan. When done, remove the crust and take off the skin. Trim the shank-bone with a wreath of parsley. With a dredging-box sprinkle the top with grated bread crumbs, and serve with currant jelly. Garnish with olives and parsley.

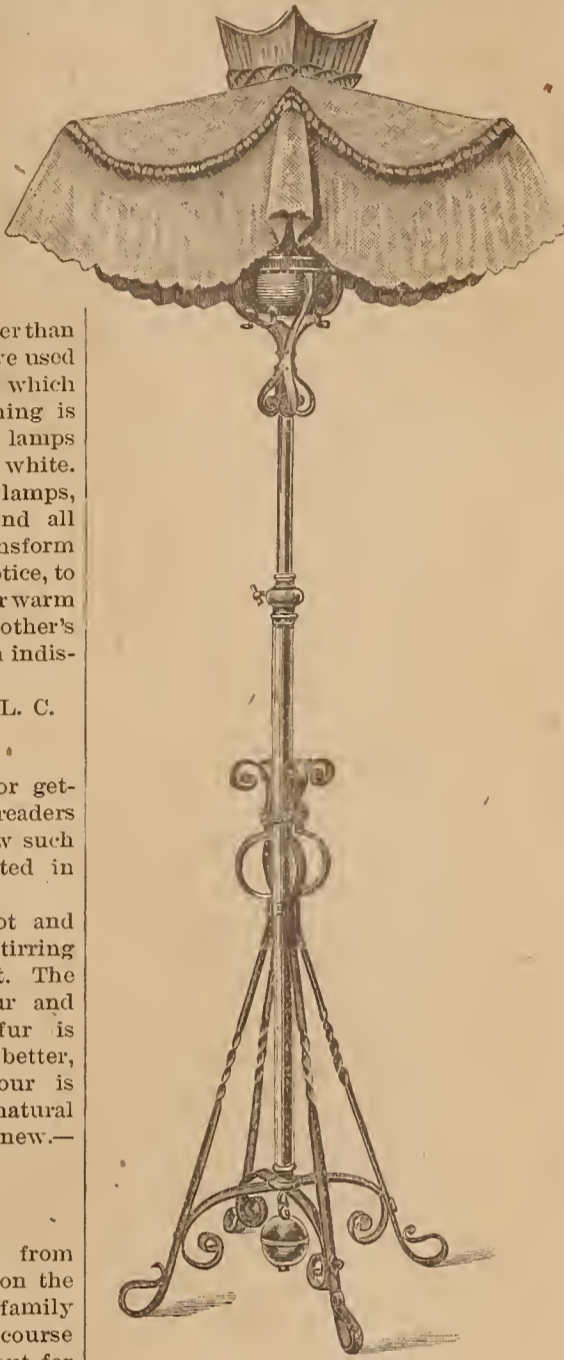
**BROILED HAM.**—Cut in thin slices, trim off the rind and edges. Lay on a broiler over a clear fire for ten minutes. When done, spread lightly with butter, dust with pepper and serve at once.

**HAM AND EGGS.**—Cut and trim ham as for broiling. Heat a frying-pan, put in the ham and fry over a quick fire until the fat is brown. Take up on a heated dish. Allow six eggs to every large slice of ham, break them, and drop one by one into the hot grease; stand over the fire until the yolks are set. Cut the ham in pieces and lift the eggs carefully with an egg-slice and lay one on each piece of ham. Dust with salt and pepper and serve very hot.

**BARBECUED HAM.**—Take thin slices of cold boiled ham, put in a chafing-dish, season with pepper, a little French mustard

and vinegar; heat quickly on one side, then turn, and heat on the other. Dust lightly with sugar, add two tablespoonfuls of currant jelly, let boil up once and serve on a heated dish.

**HAM BALLS.**—Chop a teacupful of lean, cold boiled ham. Put a teacupful of milk on to boil; mix in four tablespoonfuls of bread crumbs, stir until it thickens; add the yolks of two eggs, half a teaspoonful of salt, a pinch of pepper, half a grated nutmeg, with a tablespoonful of mashed potatoes, and mix with a teaspoonful of



PIANO LAMP.

the ham. Make in a croquette, dip in beaten egg, then in cracker meal, lay on a dish until all is made into croquettes, and fry in boiling fat.

**HAM SANDWICHES.**—Cut stale bread very thin, butter lightly, cover with a layer of finely-chopped, cold boiled ham; lay another slice of buttered bread on top and press together.

**HAM SALAD.**—Take the lean part of two pounds of cold boiled ham, chop fine; cut two bunches of celery in small pieces; mix one cupful of olive-oil, half a pint of vinegar, the yolks of four hard-boiled eggs, a tablespoonful of mustard, one teaspoonful each of pepper, salt and sugar. Pour over the ham and serve.

ELIZA R. PARKER.

**WATER AS A MEDICINE.**

The human body is constantly undergoing tissue change. Worn-out particles are cast aside and eliminated from the system, while the new are ever being formed, from the inception of life to its close. Water has the power of increasing these tissue changes, which multiply the waste products, but at the same time they are renewed by its agency, giving rise to increased appetite, which in turn provides fresh nutriment.

Persons but little accustomed to drink water are liable to have the waste products formed faster than they are removed. Any obstruction to the free working of natural laws at once produce disease, which, if once firmly seated, requires both time and money to cure.

People accustomed to rise in the morning weak and languid will find the cause in the imperfect secretion of wastes, which many times may be remedied by drinking a full tumbler of water before retiring. This very materially assists in the process during the night, and leaves tissue fresh and strong, and ready for the active work of the day.

Hot water is one of the best remedial

agents. A hot bath on going to bed, even in the hot nights of summer, is a better reliever of insomnia than many drugs. Inflated parts will subside under the continual poulticing of real hot water. Very hot water, as we all know, is a prompt checker of bleeding, and besides, if it is clean, as it should be, it aids in sterilizing our wounds. A riotous stomach will nearly always gratefully receive a glass or more of hot water.

**A MEDICINE-CABINET.**

Every housekeeper should possess a medicine-cabinet, where all the drugs in the family are kept. This is a simple contrivance, which saves a great deal of trouble and possibly danger. There are always some simple drugs, prescribed medicines, liniments and lotions, which must be kept in the family, and there should always be a little cupboard set apart to contain them. It need not be more than two feet square, but should have a lock-door in front, and be out of the reach of meddlesome or inquisitive children.

Open shelves are not good to keep medicine on. A great many medicines are injured by exposure to the light, and all are much safer behind a locked door than in any other place. Methodical people always use one shelf of such a cabinet for drugs which are prescribed for external use only or dangerous poisons. This is a necessary safeguard against mistakes, as more than one fatal accident has resulted from mistaking bottles. In cases of sudden sickness a great many people are apt to lose their presence of mind, and frightful mistakes may easily be committed if dangerous drugs are not kept by themselves and also distinctly marked, as every bottle and paper in a medicine-cabinet should be.

Too much condemnation cannot be given to the foolish practice of self-doctoring. Drugs in the hands of an inexperienced person are often as dangerous as a keen-edged knife in the hands of a child. But there are certain simples, prescribed medicines and chemicals, which must be kept in the household, and it is to such drugs as these that we refer.

**THE BUFFALO-BUG.**

Though moth and rust corrupt, they are as nothing to the buffalo-bug. That insect is a comparatively new pest in households, but hundreds of housewives have learned to fear him. He has various forms in various states of being, so that to describe a buffalo-bug is to tell what he is from worm to fly. He is best known, perhaps, as a hard-shelled, dark-brown thing, not unlike the lady-bug in shape. The bug will eat any fabric, woolen or hempen, and what he does not eat he destroys. Sometimes he starts on the edge of a carpet or rug, and eats his way around a room. Only poison can stay his course. Sometimes he gets into the crack of a floor and eats the carpet in a straight line from end to end. When the bug starts on such a tour, the housewife's only recourse is to saturate her carpet with turpentine.

**BEWARE OF THE CHEAP THIMBLE.**

\* Girls who sew for a living often suffer from soreness in what is sometimes called the thimble finger, and serious inflammation and swelling is often the result. No sewing girl or woman should let herself be tempted by the low price of thimbles, which are composed of lead or something equally injurious. Silver or plated thimbles are very much the best and safest, and when these are too expensive, a good substitute can be found in a highly-burnished steel thimble. For practical, every-day use, this latter kind is the most convenient, but pewter or lead should never be used, especially by people whose flesh is slow to heal after a scratch or cut.

**HOW TO CARE FOR SHOES.**

A little linseed or sweet oil well rubbed into the leather about once a week prevents the leather cracking. Whenever you have the misfortune to wet your feet, don't despair. Fill your shoes with oats, which will help absorb the moisture, and preserve their shape. When nearly dry rub with oil, and the next day your shoes will look as well, and mayhap better, than before their wetting. The oats may be dried and saved for the next time. Above all things else don't neglect the heels. At the first evidence of so-called "running over," have them repaired.

Now is the time to send in your subscription to the FARM AND FIRESIDE for the coming year, and receive one of the valuable Free Presents offered on page 19 of this issue. Read the offers carefully.

Our Household.

THE OLD SOD.

Over the seas and far away,  
O swallow, do you remember at all  
The nest in the lichened garden wall,  
Where the sun looked through an ivy screen,  
And the leaves of the lilac were large and green?

Here's many a mosque with its ring of towers,  
And pillared temple and stately town,  
And the holy river goes slowly down.  
The sun is seeking his saffron bowers,  
But my heart flies far to an abbey gray,  
Where the dead sleep sweet and the living pray.

Here's yellow champak that Buddah loves,  
And lotus shedding her odorous breath.  
But the orange evening is lonely as death.  
With no sound save the croon of the mourning doves;

In lovely Ireland this hour I know  
How merrily homeward the movers go.

The daisied grass with the dew is pearled,  
And the cattle stand where the shades are long,

The cuckoo's calling his summer song,  
The angelus rings o'er a hawthorn world;  
And eyes I know where the love-lights be  
Are growing misty with thoughts of me.

O swallow, swallow, that land is far,  
And a human body's a prisoned thing,  
But you will fly away in the spring  
To our home where riseth the evening star.  
The blackbird's singing in some green brake,  
And my heart is breaking for that song's sake.  
*—Katherine Tynan.*

GIVING AND RECEIVING.

**A** TWOFOLD grace is exercised in the exchange of presents. Nor should the word "exchange" so quickly be suggested in connection with thought of a gift. As giving, in its purest, sweetest expression, is the spontaneous offering of the heart's affection, so receiving, in a true, natural person, is without disturbing sense of being placed under obligations, but with a childlike simplicity of enjoyment.

When we give to our friends who are supplied with all the necessities of life, we may select luxuries, and as nearly as possible, our choice will naturally be directed with an intention of pleasing any strong tendency which each friend possesses. To the book-lover nothing can be better than a book, but the giver should try to peep over the library already possessed in order to select something new. There are folks who like photographs of works of art or of scenery. Humor any such tendency. You cannot pay a more delicate compliment than to show an appreciation of these peculiar tastes. Some persons have a veneration for relics, and to these you might present a spray of foliage from some celebrated locality. If it is tastefully mounted and framed, in company with a photograph of the place whence it came, the result is an object of beauty possessing many suggestive qualities.

What to give a gentleman is always a perplexing question. If he be a smoker it is agreeable to give something to increase the enjoyment of his favorite self-indulgence. If he prefers a pipe he will likely enjoy a variety of them. Choosing for looks, I should buy one of those long Turkish pipes, though I haven't the least idea as to their practical value. They have amber mouthpieces, bowls which look like terra-cotta and the long distance between the extremities is decorated with colored beads woven in fancy designs. An ash-receiver is a necessity. I saw one of china which an artistic girl had decorated with a picture of a half-consumed cigar; the ashes on the end were very realistic and the whiff of smoke quite graceful. An inscription ran thus:

"My clouds all other clouds dispel."

Very handsome brazen vessels are sold at the Turkish store. Some are in shape of tumblers, embossed with fantastic designs. They are not dear. A dollar will buy one that is handsome enough for any room. Smaller ones, of less simple shape, are even less expensive.

A pair of Turkish slippers of bright red with gold embroidery cost only a dollar. No present could be nicer for a lady.

To satisfy or cultivate a taste for statuary there are abundant opportunities. It is not necessary to have costly objects of bronze and marble to form our appreciation of plastic art. This would be greatly fortunate, of course, but a plaster cast will lead one to grow up to better things. Jean Paul Richter, who always lived in refined poverty, speaks feelingly of the uplifting influence of a min-

ature copy of some great statue. To my surprise I found recently a stove window filled with round and square panels of statuary in relief. "Only twenty-five cents," said the card accompanying the collection. Thorwaldsen's "Night" and "Morning" were there in very attractive condition. You all know these, and for the reason of their familiarity they give greatest pleasure. "Night" is a graceful female figure flying through the air with a sweet sleeping child on her breast. In "Morning" every expression is of wakefulness and there are flowers dropping in garlands.

A mirror is always acceptable, no matter how many are already in possession, for, according to good authority, "All the world loves a looking-glass." It may be a satisfaction for you to know that in cities which are considered the center of taste, there is a revived liking for those old-fashioned mirrors which have a panel above containing a landscape or a spray of flowers. You understand, I hope, the kind I mean. They generally have flat, gilt frames. If you have such a one put away in the garret, get it out, regild it, and rejoice over its antiquity.

A multiplicity of cushions is a matter of comport, beauty and fashion. The square ones with wide, voluminous ruffles around the four sides are favorites. From eighteen inches to twenty-four inches square are the best sizes. You can cover them with pretty cotton sateen for thirty-seven cents a yard or you can be more extravagant. I saw one pillow-cover made of different shades of yellow cigar ribbons. They were laid at right angles and fastened to a foundation by means of fancy stitches of orange embroidery silk.

Let me tell you of some pretty book-marks. They had at the top a butterfly made of water-color paper, painted to



WINDOW GARDEN.

imitate nature. A ribbon of any color five inches long was attached. There were mottoes painted on the ribbons. Here are two of them:

"A jolly good book wherein to look is better to me than gold."

"Come, my best friends, my books, and lead me on."

Nothing appeals to me more pleasantly than certain beautiful cards to be hung in a guest-chamber. Take a piece of cardboard with egg-shell surface, paint at top and on one side a graceful and bright spray of some favorite flower. Prepare corresponding ribbons by which to hang it up, and below in gold letters have printed the following:

"Sleep sweet

Within this quiet room, my guest,

Who'er thou art;

And let no mournful yesterdays

Disturb thy peaceful heart;

Nor let to-morrow scare thy rest

With dreams of coming ill,

Thy maker is thy changeless friend

His love surrounds thee still.

Forget thyself

And all the world,

Put out each feverish light;

The stars are shining over head;

Sleep sweet;

Good-night! Good-night!"

KATE KAUFFMAN.

**AN OPPORTUNE FRIEND** will be found in Dr. D. Jayne's Expectorant, when racked by a severe cold, and the many Lung and Throat affections which sometimes follow. This old remedy has met the approval of two generations, and is to-day as popular, safe, and effective as ever.

HOME TOPICS.

**A BREAKFAST DISH.**—A nice way to use any cold boiled or roast meat, and a change from hash, is to chop the meat fine and add a tablespoonful of bread crumbs to every teaspoonful of the chopped meat. Add a beaten egg and milk enough to moisten the mixture; season with pepper and salt, if the meat is not salt. Butter well some patty-pans, fill them two thirds full of the mixture and set them in a hot oven; as soon as they begin to brown, remove them from the oven and break an egg on the top of each one, then return them to the oven until the egg is cooked to taste. If the pans were well buttered, the patties will be nicely browned on the bottom, and will slip out easily, retaining their shape. Cold boiled ham is nice prepared in this way, and after all has been sliced that can be, there can be enough sent from the bothe for this dish.

**GRAVIES.**—The greasy, limp or watery messes that are often placed on the table and called gravy are not worthy of the name. Nearly everyone likes a good gravy, and when one knows how, it is no more trouble to make it good than otherwise. If you have a roast, be careful that the drippings do not scorch on the bottom of the pan, or the gravy will be spoiled. After taking the roast out, pour off nearly all the grease, set the pan on the top of the stove and stir into it a tablespoonful of flour. Stir this until it is mixed smooth with the drippings, then add a teaspoonful of cold milk with an equal quantity of cold water, let it boil up once, stirring it all the time, and then pour it into the gravy-boat and serve. With mutton or lamb, a teaspoonful of finely-cut parsley added to the gravy flavors it nicely. Gravy for roast fowl is made in the same way, and also when meat is roasted in the pot.

If brown gravy is liked, put some sifted flour in a frying-pan, set it on the stove and stir it constantly until it is evenly browned; then using the browned flour, proceed as above to make the gravy. A pint or so of flour may be browned at once and kept in a tin box for use as desired.

**A WINDOW GARDEN.**—It is not worth while for a busy housekeeper to attempt to keep many plants in the house during the winter. It will add too much to her work, but a few hardy ones that do not require very much care will brighten the house and give her that little interest in something outside of work that she so much needs. A very pretty arrangement for a little window garden is to have a bench made the width of the window-sill and about four inches lower. This will hold two or three geranium-pots, a calla-lily, a palm, a pot of mignonette and a Chinese primrose or two. Have one or two geraniums with variegated foliage. Two lamp-brackets on each side of the window-casing will hold four more small pots, and from a hook at the top suspend a basket of drooping plants. If you can have a zinc box the size of the bench and four inches deep, filled with dirt, into which the pots may be set, it is an improvement, as the soil in the pots will not dry out so rapidly.

MAIDA McL.

THE CUPBOARD BY THE STAIRS.

There are very few of the old farm-houses provided with slide cupboards to the cellar; and if I was building a new house there would be a good bit of study before the expense of such a one would be added to other more necessary conveniences. The ropes break, pulleys get out of order; a carelessness lets the cupboard down with a thud, and away goes the milk, gravy or sauce, etc.; accidents innumerable may happen. Of all modern improvements a cupboard by the cellar stairs will save the most steps in hot weather, unless one has a perfect slide cupboard. Now that the stormy days and cold ones are upon us, persuade the "gude mon" to take an old dry-goods box—if he can afford nothing better and is not carpenter enough to make one—and take off the top and bottom, leaving the four sides or edges. Put cleats on two opposite sides for the shelves to rest on, making as many shelves and as close together as the size of the box and the wife decides. Over one end nail on wire screening that will effectually keep out flies.

Turn the open side of the cupboard toward the stairs, and fasten it up as high and close to the ceiling and stairs as possible. It is more securely kept in place if propped from below by legs or some standards of some sort.

Fit a drop-lid to the upper shelf, as at C. Now a part of the cupboard drops below and back of the stairway so that the next two shelves may have a drop-door, D, that extends only one half the distance across, and will drop down without interfering with the stairway. Fit in siding over the places where the doors do not cover, as there is more or less dust from going up and down stairs, and this face of the cupboard should be made as "dust-proof" as possible, while the screening on the opposite side will keep the victuals thoroughly aired and cooled, by such a free circulation as may be had in any average cellar, that is kept as clean and sweet as it ought to be, and as good health demands it must be. If the screening may be put on two frames opening in the center as doors, the cupboard may be made longer than given above, and articles placed inside on shelves below those which can be reached from the stairs.

Don't you see, farmer sisters, how the milk and butter and cream can be kept down cellar by only going down two or three steps? And the meat, potatoes, etc., can also go down in the same cupboard with but a step or two more.

Don't put them on the same shelf, please. Butter, cream and milk are very exclusive, and prefer no society but their own if they would keep "sweet," and it would be better to give them the lowest shelf, that the steam arising from any cooked food may rise beyond and not around them.

Try my cupboard plan, please; you can make one just as nice or as cheap as you please. Even leather hinges and a wooden button will answer the purpose if nothing better can be had.

GYPSEY.

A THANKSGIVING DINNER.

The preparation of the first Thanksgiving dinner for a young housewife is a great undertaking. I know mine was. When it was ready to put on the table I was so completely exhausted I did not know what to be thankful for the most—that we had a dinner at all, or that it would soon be over.

I will give a reasonably fair menu, that is not difficult to carry out. In the preparation of it let me say, do some things the day before, as making the cake and pie and preparing your turkey, the cranberries and Spanish cream. These recipes are all taken from our new "Model" cook-book:

MENU.

- Turkey, Cranberry Sauce.
- Quirled Potatoes.
- Baked Sweet Potatoes. Lima Beans.
- Boiled Onions.
- Macaroni with Cheese.
- Scalloped Vegetable Oysters. Cold Slaw.
- Lettuce, Mayonnaise Dressing.
- Chicken Pie. Apple Custard Pie.
- Pumpkin Pie. Spanish Cream.
- Ribbon Fig Cake. Caramel Cake.
- Nuts, Raisins, Bonbons.
- Coffee.

**ROAST TURKEY WITH OYSTERS.**—Clean a turkey and lay it in a dripping-pan. Prepare a dressing of stale bread, composed of one quart of bread crumbs and one cupful of butter and water enough to moisten. Add to this two dozen oysters and pepper and salt to suit the taste. Mix all, and stuff the turkey with it; put butter over the outside; put some water in the dripping-pan, set it in the oven and bake until done, basting quite often. Never parboil a young turkey.

**QUIRLED POTATOES.**—Prepare the potatoes the same as to boil. Let them cook thoroughly, then mash and season well, and press them through the colander into the dish you wish to serve them in. Set them into the oven to brown.

**BAKED SWEET POTATOES.**—Pare and cook like Irish potatoes, then mash and season with butter, pepper and salt. Pile upon a pie-pan and set in the oven to brown. Slip off on a platter as whole as possible.

**LIMA BEANS.**—Shell, wash and put them into boiling water with a little salt; when boiled tender, drain off the water. Serve with a cupful of sweet cream or milk, with a lump of butter in it the size of an egg. Salt and pepper, and let them simmer a few moments.

**BOILED ONIONS.**—To boil onions, remove the outer skin and let them lay in cold salt and water about an hour. Then boil them in milk and water with a little salt until thoroughly tender. Take the onions out of the water with a skimmer and put them into a tureen which has been warmed. Pour over them melted butter and dust with black pepper. Serve immediately.

**MACARONI WITH CHEESE.**—Throw into boiling water some macaroni, with salt according to quantity used; let it boil one fourth of an hour; drain off the water; place the macaroni in a saucepan with





Our Sunday Afternoon.

WHAT WOULD JESUS DO?

A young and earnest pilgrim,
Traveling the king's highway,
Conning over the lessons
From the guide-book every day,

It grew to be his watchword
In service or in fight;
Helped to keep his pilgrim garb
Unsullied, pure and white.

Now, if it be our purpose
To walk where Christ has led,
To follow in his footsteps
With ever careful tread;

WITHOUT PRICE.

THE fountain of life is not fenced in
with bars of gold. The poorest
sinner that breathes may come to
the oracle of grace as freely as he

Of the countless number of the redeemed
the vast majority will be those who felt the
pinch and pain of poverty in the mortal
years. Many a brow will wear a radiant
crown in glory, that was sore puzzled to
devise means for obtaining daily bread on
earth.

SAVE THE FRAGRANCE.

It is related that Gotthold had for some
purpose taken from a cupboard a vial of
rose-water, and after using it inconsider-
ately, left it unstopped. Observing it some-
time after, he found that all the strength
and sweetness of the perfume had evap-
orated. Here, thought he, is a striking
emblem of a heart fond of the world and
open to the impression of outward objects.

What good does it do to take such a heart
to the house of God, and there fill it with
the precious essence of the roses of par-
adise, which are the truth of Scripture?
What good to kindle in a glow of devotion,
if we afterward neglect to close the outlet
-by which we mean to keep the word in
an honest and good heart. (Luke 8:15).

Neglect this duty and the whole strength
and spirit of devotion evaporates and leaves
only a lifeless froth behind. Lord Jesus,
enable me to keep thy word like a living
cordial in my heart. Quicken it there by
thy spirit and grace. Seal it up in my soul,
that it may retain forever its freshness and
its power.

GOD'S SIGHT MY SAFETY.

That delightful passage in Exodus came
flashing up to my mind just now, where
the Israelite sprinkled the blood on the
lintel and the two side posts. Then he
shut the door. He was inside; he did not
see the blood any more. The blood was out-
side upon the posts, and he could not see it
himself; but was he safe? Yes, because it
is written: "When I see the blood, I will
pass over you." It is God's sight of the
blood of his dear son that is the everlast-
ing safeguard of all who are in Christ.
Though it is most precious and sweet to me
to look at that blood once shed for many
for the remission of sins, and I do look at
it, yet if ever there should come a dark
night to me in which I cannot see it, still
God will see it, and I am safe. I am saved,

because it is written, not "when you see
it," but "when I see the blood I will pass
over you." It is the perfection of the sac-
rifice, not your perfection of sight, which
is your safeguard. It is the absence of all
blemish from the sacrifice-not the absence
of blemish from your faith-that makes
you to be "accepted in the beloved."-
Spurgeon.

A WORD TO MOTHERS.

Mothers, in their fondness and solicitude
for their daughters, often err grievously.
Why will not mothers know that to invite
and possess the confidence of their daugh-
ters is to secure them from evil? Never
make them afraid to tell you anything;
never make them ashamed of the natural
desire to have attention from the other sex.
Admit the liking of it as belonging to
youth-to your past youth-but at the same
time enforce the judicious timing of it;
and, above all, encourage a frank avowal
of, and sympathy with, their youthful
preferences. The exchanges of confidences
on this point only strengthens the bond
of love between mother and daughter.
Many a young girl now lost to herself and
society might have been saved by such a
course. Harsh rebuke of these natural
feelings is like pruning all the leaves and
buds and blossoms from a young plant, lest
stray insects should invade it.

HOW RAPIDLY WE THINK.

Helmholz showed that a wave of thought
would require about a minute to travel a
mile of nerve, and Hersch found that a
touch on the face was recognized by the
brain and responded to by a manual signal
in the seventh of a second.

He also found that the speed of sense
differed for different organs, the sense of
hearing being responded to in the sixth of
a second, while that of sight required one
fifth of a second to be felt and signaled. In
all these cases the distance traversed was
about the same, so the inference is that
images travel more slowly than sounds or
touch. It still remained, however, to show
the portion of this interval taken up by
the action of the brain.

Professor Donders, by very delicate appar-
atus, has demonstrated this to be about
seventy-five thousandths of a second. Of
the whole interval forty thousandths are
occupied in the simple act of recognition,
and thirty-five thousandths for the act of
willing response.

FOR THE YOUNG PREACHERS.

If I were young again I would strive to
be, not in the low, vulgar, selfish sense, but
in the high, self-forgetful sense, a popular
preacher. I would toil for this as I would
for virtue itself. If graces of speech would
make me such, I would cultivate these. If
youthful enthusiasm would draw me to
me, I would keep my heart fresh and young
for a hundred years. If simplicity of style
and manner would effect it, I would prac-
tice the severest simplicity. If going
among the people would help me, I would
fling aside all conventionalities and reclu-
sive habits, and go from shop to shop, and
tenement to tenement, till my soul was
saturated with the thoughts and feelings of
lowly men. If a new baptism of power
were needed, I would plead for that till I
received the fresh anointing. I would ex-
haust all possibilities that I might win the
scattered, listless multitudes to listen to the
gospel I was ordained to preach.-Bishop
Ninde.

HOME FRIENDSHIP.

Friendships in the family require most
gentle care and cultivation. We must win
each other's love within home doors just
as we win the love of those outside-by the
sweet ministries and graces of affection. We
must prove ourselves worthy of being
loved by those who are nearest; they will
not love us unless we do, merely because
we are of the same household. We must
show ourselves unselfish, thoughtful, gen-
tle, helpful. Home friendships must be
formed as all friendships are formed-by
the patient knitting of soul to soul and the
slow growing of life into life. Then we
must retain home friends after winning,
just as we retain other friends-by a thou-
sand little winning expressions in all our
intercourse. We cannot depend upon
relationship to keep us loved and loving.
We must live for each other. We must
give as well as receive. We must be
watchful of our acts and words.

Look up the date your subscription expires
to the FARM AND FIRESIDE. Send us 50 cents
for its renewal for a year and secure one
of the valuable Free Presents. See offer on
page 19.

A Household Remedy.

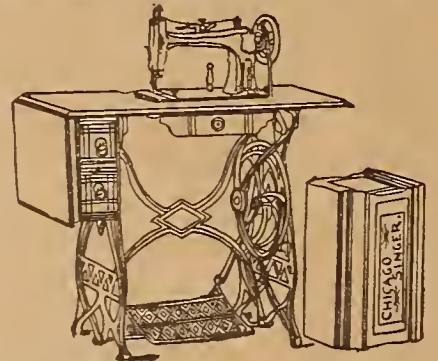
ALLCOCK'S POROUS PLASTERS are the only
reliable plasters ever produced. Fragrant,
clean, inexpensive, and never failing; they
fully meet all the requirements of a house-
hold remedy, and should always be kept
on hand.

For the Relief and Cure of Weak Back,
Weak Muscles, Lameness, Stiff or En-
larged Joints, Pains in the Chest, Small
of the Back and around the Hips, Strains,
Stitches, and all Local Pains, Allcock's
Porous Plasters are unequalled.

Beware of imitations, and do not be deceived by misrepresen-
tation. Ask for ALLCOCK'S, and let no solicitation or explanation
induce you to accept a substitute.

FREE If you will send us within the next 30 days a photograph or a tintype of
yourself, or any member of your family, living or dead, we will make you
one of our finest \$25.00 life-size CRAYON PORTRAITS absolutely free of
charge. This offer is made to introduce our artistic portraits in your
vicinity. Put your name and address back of photo., and send same to Cody & Co., 755 DeKalb
Avenue, Brooklyn, N. Y. References: Rev. T. DeWitt Talmadge, all newspaper publishers,
Banks, and Express Companies of New York and Brooklyn. P. S.-We will forfeit \$100 to any
one sending us photo. and not receiving crayon picture Free as per this offer.

LADIES WHO WILL DO WRITING
The tremendous sale of my preparation,
Gloria Water, has so increased my
correspondence that I will guarantee good wages to ladies who will do writing for me at home. Address
in own handwriting MISS EDNA L. SMYTHE, Box 1101, South Bend, Ind. Mention paper.
WILL MAKE GOOD WAGES.



WORTH \$55, AT \$12.98.

To inaugurate our new Sewing Machine de-
partment, we offer a regular \$55 Chicago Singer
Sewing Machine, with all the latest improve-
ments and full five-years' guarantee, for \$12.98.

MAIL ORDERS PROMPTLY FILLED.

Our establishment is the largest in New
York. Mail Order System one of the most
perfect in America. Our Fall and Winter
FASHION CATALOGUE containing full
descriptions, illustrations and prices of hun-
dreds of articles that can be bought by mail,
sent FREE to any address.

BLOOMINGDALE BROS.,
3rd Ave., Cor. 59th St., New York City.

THE WHOLE FAMILY.
Something for Every Member.

The greatest value for the least money of any mag-
azine in the world. Five serial stories and over 100 short
stories for young and old, by best authors. Hundreds of
poems, anecdotes, &c. Departments on The Household,
Farm and Flowers, Popular Science, Current Events,
Fashions, Music, Religion and Moral Questions, New
Books, etc. 250 Valuable Prizes.

10 Cts. in Stamps for a 3 months' subscription.
Over 300 pages and 250 Splendid Illustrations.
196 Summer St., BOSTON.
RUSSELL PUBLISHING CO.,
Mention this paper when you write.

Advertisement for pianos and organs. Includes a price tag of \$180 and text: 'We Sell DIRECT to FAMILIES... Absolutely Perfect!'

Advertisement for GLOBE CARDS. Includes an illustration of a card and text: 'The Globe Card Co. has always been noted for promptness in filling orders...'

Advertisement for HORNELL SANITARIUM. Includes an illustration of a building and text: 'Cancer is Curable. Without the knife, still harsher caustics, or poisons. The Sanitarium treatment very successful even in extreme cases...'

Advertisement for BEETHOVEN ORGAN CO. Includes an illustration of an organ and text: 'FREE. Our large 24-page Catalogue, profuse-ly illustrated, full of information on the proper construction of Pianos and Organs...'

Advertisement for PLAYS-PLAYS. Includes text: 'Amateur Theatricals, Tem-perature Plays, Drawing-Room Plays, Fairy Plays, Ethiopian Plays, Guide Books, Speakers, Fantomimes, Charades, Jarley's Wax Works, Burlet-Cone Theatrical Face Preparations, Wigs, Beards, Moustaches, and Paper Scenery. New Catalogues, containing many novelties, full description and prices sent FREE! FREE! T. H. FRENCH, 28 West 23d St., N. Y.'

Advertisement for STAMPING OUTFIT FREE!. Includes an illustration of a peacock and text: 'The Ladies' World is a mammoth illustrated magazine, each issue comprising 20 or more large pages, including a handsome cover, and is devoted to stories, poems, ladies' fancy work, artistic needlework, home-decoration, housekeeping, fashions, hygiene, juvenile reading, etiquette, etc., etc. It is one of the best and most popular of ladies' magazines, having a circulation of over 300,000. Its publishers, wishing to introduce it into thousands of homes where it is not already taken, now make the following unprecedented offer: Upon receipt of only 18 cents in postage stamps, we will send The Ladies' World for Three Months, and every subscriber we will send FREE and post-paid, our new Perfection Stamping Outfit, containing a great variety of new patterns, as follows: 1 Ornamented Alphabet, 1 1/2 in. high; 1 Script Alphabet, 3/4 in. high; 1 Spray of Daisies, 5 3/8 in.; 1 Dancing Girl, 4 7/8 in.; 1 Bunch of Violets, 4 x 5 in.; 1 Half Wreath of Wild Roses and Wheat, 7 x 10 in.; 1 Flying Bird, 4 x 1-1/2 in.; 1 Bunch of Pansies, 4 x 4 in.; 1 Peacock, 4 1/2 x 6 in.; 1 Scalloped Border for Flannel Shirt, 1 1/2 x 5 1/2 in.; 1 Braiding Border for Dress, 3 x 7 1/8 in.; 1 Bender for Table Cover, 2 x 7 in.; 1 Border for Pillow Shams, 2 1/2 x 6 in.; 1 Bunch of Butter-cups, 3 x 3 in.; 1 Wild Rose and Bud, 3 x 5 in.; 1 Design for Cushion, 6 x 6 in.; 1 Design for Napkins, 4 x 4 in.; 1 Design for Lunch Cloth, 6 x 6 in., and 25 other beautiful designs, making in all 41 artistic patterns and two complete alphabets, perforated on the best quality of Bond or Parchment Paper, which can be used indefinitely without injury. With each Outfit we send free our Book of Complete Instructions for doing stamping, also Instructions for making Blue, Black and White Powder and distributor. The patterns contained in this Outfit would cost over Two Dollars if purchased singly at retail, yet we send the whole free to anyone sending 18 cents for a three months' subscription to our charming magazine. Five subscriptions and 5 Outfits will be sent for 73 cts. Do not miss this chance! Satisfaction guaranteed. As to our reliability, we refer to any publisher in New York. Address: S. H. MOORE & CO., 21 Park Place, New York.'

Advertisement for FROM FACTORY DIRECT. Includes an illustration of a chair and text: 'this beautiful miniature UPHOL-stered PARLOR SET of three pieces (for the best \$60) will be sent to any ad-dress on receipt of 95 cents to pay expenses, boxing, pack-ing, advertising, etc. This is done as an advertisement and we shall expect every one getting a set to tell their friends who see it where they got it and to recommend our house to them. This beautiful set consists of one sofa and two chairs. They are made of fine lutrois metal frames, beauti-fully finished and decorated, and upholstered in the finest manner with beautiful plush (which we furnish in any color desired). To advertise our house, for 60 days, we propose to furnish these sets on receipt of 95 cents. Postage stamps taken. No additional charge for boxing or shipping. United States Furniture Co., 111 Nassau St., N. Y.' Below this is text: 'If afflicted with sore eyes use Dr. Thompson's Eye-Water'.

Selections.

TURNING THE TABLES.

He sat at the table
With a discontented frown;
The potatoes and steak were underdone
And the bread was baked too brown;

A SIMPLE WEDDING.

THERE was such a pretty wedding
in Chicago the other day. The
bride was the only daughter of
very wealthy people out near Jack-

was full of flowers and friends. The ceremony
was solemn and sweet, and the
happy couple flitted away to the sea-shore
for the honeymoon. The bride was not
worn out with extensive preparations.

Time was when she who expected to be
a bride in the autumn began preparations
for the wedding fully a year before. She
arranged her wardrobe with all the care
and thought required to be spent upon the

husband's eyes as though she were decked
out in some frock fashioned for this special
trip; indeed, she is bound to be more attractive,
for she is so natural, so unconscious
that she has been married only a few
short hours, that the vigilant porter overlooks
the fact that she is a bride; the young
husband is not charged over and over again
to appear indifferent, almost abusive, and
altogether their wedding journey is as
merry as the wedding bells.

GEOGRAPHICAL DON'TS.

Don't say or write Austro-Hungary. The
best writers prefer Austria-Hungary.
Don't, for mercy's sake, say "The Smithsonian
institute." The name is The Smithsonian
institution.
Don't forget that oriental names ending
in "an" have the accent on the last syllable,
as Tehor-an, Beloochis-tan.
Don't call the Chinese "Mongolians." It
is better to reserve the latter name for the
people who live north of China proper.
Don't speak of a native of China as Chinaman.
You would not say that you had an
Ireland man digging in your garden. It is
better to call John a Chinese.

Don't speak of China as our antipodes.
Our antipodes is the point on the other side
of the world reached by a straight line
passing through the place on which we
stand and the center of the earth. Our
antipodes is in the ocean southwest of
Australia.
Don't be mystified if on one map in your
atlas Hudson bay seems to be larger than
the Gulf of Mexico, while on another sheet
of the same atlas the Gulf of Mexico appears
larger than Hudson bay. The apparent
discrepancy is doubtless due to the different
map projections employed.
Don't say that the compass points to the
true north, for it doesn't, except in certain
places. The compass points to the magnetic
north, which is at present considerably
west of the north pole. When Lieutenant
Greeley was at Lady Franklin bay the
declination of his needle was found to be
very great, the needle pointing toward the
magnetic pole in a direction nearly southwest.
When you are writing a novel don't get
your geographical facts badly mixed. In
one of the popular novels of the day the
writer introduced his hero into the antarctic
regions in January, and speaks of the
"inky blackness" of the nights he experienced
there. The month of January is the
height of the antarctic summer, and the
entire month is one continuous day.—Gold-
thwaite's Geographical Magazine.

Among the Free Presents offered in this issue
to everyone subscribing for the FARM AND
FIRESIDE, are articles of which might be
written columns of interesting descriptions.
They are by far the handsomest and most valuable
ever offered by any publication. Remember,
the choice of any one of them will be sent
free, postage prepaid by us, to any person
subscribing or renewing their subscription to the
FARM AND FIRESIDE. See page 19.

ARE YOU LOOKING FOR

A Big Paying Business?

Many hundreds of Enterprising Agents who are selling our Grand Historical Picture,
"Columbus at the Royal Court of Spain," report that

THEY HAVE FOUND IT.

It is inspiring to read the enthusiastic reports and testimonials we are continually receiving from agents who are now in the field making from

\$10.00 TO \$15.00 A DAY.

READ THEIR OWN TESTIMONY.

Making \$1.00 Every Hour.
NEWMAN, ILL., Aug. 1, 1892.
Dear Sirs—I have received the picture of
"Columbus at the Royal Court." I was surprised;
it was so much better than I expected,
both in finish of picture and frame. I have
worked about four hours and taken four orders.
J. H. WILLIAMS.

Makes \$5.00 in the First Two Hours.
SUNFIELD, MICH., Oct. 10, 1892.
Dear Sirs—I started out with "Columbus at
the Royal Court of Spain" this morning. In
about two hours I had five orders. The picture
and frame is a delight to the people.
D. MYERS.

Made \$11.00 in One Hour and Twenty
Minutes.
CHARLOTTE, VT., Oct. 9, 1892.
Dear Sirs—The outfit you sent me came to
hand all right and safe. I started out at 2
o'clock and in just one hour and twenty
minutes sold eleven pictures. As you say, they
sell themselves as soon as I uncover them.
DENNIS TONER.

It is a Seller—Business from the Start.
MUNCIE, IND., Oct. 7, 1892.
Gentlemen—Just received my outfit for the
elegant picture of "Columbus at the Royal
Court of Spain." It is a beauty. I commenced
taking orders before I had it out of the wrapper
five minutes. Of all the articles I ever canvassed
for, I think this is the seller.
J. A. RATCLIFF.

Bad Weather but Good Business.
DOYLESTOWN, OHIO, Oct. 9, 1892.
Dear Sirs—I have taken fifteen orders for
your picture, "Columbus at the Royal Court of
Spain," in only two days, and would have
taken more but the weather prevented. Do
not fail to send me more order-books at once.
JOHN GATES.

Pluck Sure to Bring Profit.
FARGO, N. DAK., Sept. 22, 1892.
Gentlemen—I received your picture of "Col-
umbus at the Royal Court of Spain" in good
shape. Everyone seems to be delighted with
it. I have taken fifteen orders, commencing
one week ago, working about three hours per
day, as I am unable to do a full day's work.
A. SPORTS.

\$2.00 Made in Ten Minutes.
VERSAILLES, ILL., Oct. 10, 1892.
Gentlemen—I have just received the picture
and frame, all in good order, and am more
than pleased. I have just opened it, and have
taken two orders already in less than ten
minutes.
ANDREW LEAR.

\$31.00 Profit for Twenty Hours' Work.
SELMA, ALA., Oct. 8, 1892.
Gentlemen—I have canvassed for your pic-
ture five days, giving four hours a day to it,
and I must say I have met with great success.
I have thirty-one orders. I commenced at one
end of the town and am going to visit every
house before I give it up.
DAVID LEACH.

We want Live, Pushing Agents in Every Locality. There is Big Money in It. Write for Our Liberal Terms.

The picture is a perfect reproduction in all its artistic beauty and exquisite coloring of the famous painting by the celebrated artist, M. Brozik.

VALUED AT OVER \$50,000.00

And now Exhibited in the Metropolitan Art Museum in New York City.

The attention of everyone has been drawn to the subject of this picture. The grand achievement of the bold and intrepid Spanish navigator, Christopher Columbus, is being lauded and immortalized by the great writers and orators of the land. The world is paying homage to his name in the magnificent celebrations of this year and next. His name is upon everybody's lips. The picture portrays him at the very moment of his complete triumph over all the seemingly insurmountable difficulties that had continuously beset his enterprise. The harmonious combination of colors (as exquisite in its execution as it is ravishing to the eye) shows this famous Spanish court with its illustrious dignitaries robed in the regal costumes of the 15th century. Columbus stands in the center of the group, with all the enthusiastic ardor of his adventurous nature aroused, explaining to the royal court his great and glorious designs for the discovery of a new world.

The Picture is equal in every way to pictures for which the people are willingly paying from \$12.00 to \$15.00. Dealers to whom agents have shown the frame pronounce them worth from \$3.00 to \$5.00 alone. Is it any wonder they sell?

As the exhibition of this picture in any locality is sure to bring hundreds of orders, we will send to any reliable person applying, who will agree to show it to his friends and neighbors and endeavor to make sales at the regular price, one of these

Fifteen Dollar Pictures
In Heavy, 6-inch Gold Frame For Only \$2.50

Size of picture, 20 by 28 inches. Size of frame, 30 by 40 inches.

And Include One Year's Subscription to Either the Farm and Fireside or Ladies Home Companion Free to Every Purchaser.

We will ship this picture and a complete outfit by express and prepay all express charges to any point in Minnesota, Iowa, Missouri, Arkansas and Louisiana, and all states east of them, on receipt of \$2.50. Persons ordering from any point west of these states may send us only \$1.50, they paying the express charges upon receipt of the picture, which is carried at a special low rate by all the express companies. Give your express station if different from your post-office.

Address FARM AND FIRESIDE, Philadelphia, Pa., or Springfield, Ohio.

A SPLENDID CHRISTMAS PRESENT This grand picture in the rich, heavy gold frame, will make a most appropriate and valuable Christmas gift. Agents should take orders for delivery early in December.





Smiles.

SHE MADE A SHIRT.

More years ago than I shall name I tried to win a good wife's fame; I know not how—but all the same I made a shirt.

HE LAUGHED BUT ONCE.

"I suppose you haven't forgotten that it is leap year," he said, as he took a seat beside her, "and so I must be careful not to lead the conversation in a dangerous direction," and he laughed.

HER AMENDMENT.

Flossie had seen something on the street which greatly amused her, and when she had concluded talking of it to her mother she drew a long breath and exclaimed: "Why, mamma, I just thought I would bust."

A POSER.

The lecturer on theosophy has concluded. "If there is any question," he said, "that any of you would like to ask me before I sit down, I should be pleased to answer it."

THE FATHER IMPROVING.

Mother—"Have you heard how Mr. Spanker is this morning?" Small son—"Oh, he's all right. He's getting well fast."

SCHIFFMANN'S ASTHMA CURE

Is used by inhalation, thus reaching the seat of the disease direct. Its action is immediate and certain. No waiting for results. Ask any druggist or address, Dr. R. Schiffmann, St. Paul, Minn., for a free trial package.

CHARMING CHRISTMAS PRESENTS.

Nowhere will you find more appropriate articles for holiday presents than the Free Gifts offered on page 19.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma, and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints.

FIRESIDE.

SHE PREFERRED A COMET.

"Oh I was a star," he said, smiling at his poetic fancy. "Would rather you were a comet," she said lightly. His heart beat tumultuously.

A BIBLE READER.

"I see your father is reading the Bible," he said. "Yes, sir," she replied. "He is setting you a good example."

A SWIFT VESSEL.

"-Pa! -her-Well? -a vessel a boat? -es. -a!" "What is it?" "At kind of a boat is a blood-vessel?" "It's a lifeboat. Now run away to bed."

HER CUSTOM.

Mrs. Prentice—"How do you always manage to have such delicious beef?" Mrs. Binthyre—"I select a good, honest butcher and then stand by him."

A GOOD REASON.

First boy—"Why do they call all goats Billy goats and Naunty goats? Why don't they call 'em Georgie goats, and Johnny goats, and Jimmy goats, an' so on?"

PERSEVERING.

Customer—"Waiter, do you remember me? I came in here yesterday and ordered a steak." Waiter—"Yes, sir. Will you have the same thing to-day, sir?"

THE QUESTION.

"Ikey, you should get married right away quick." "What for, father?" "What for? Why oh your pearly teeth bad who haf you to make over your bloperty to?"

HAVE YOU GOT PILES ITCHING PILES known by moisture like perspiration, cause intense itching when warm. This form is BLEEDING OR PROTRUDING PILES.

REMnants for CRAZY PATCH, large pkg. pretty pieces 10c; 25 Skeins EMB. SILK 20c; Box CURLINE 25c; CRAZY STITCHES with order. LADIES' ART CO., B. 966, St. LOUIS.

LOWEST PRICES. Outfit FREE. Good Salary Write to-day and secure general agency. Catlg. FREE. ROBT. JOHNS, Mfr. Dept. 13, 61 & 63 S. May St., CHICAGO.

50 cts. A Minute. GIANT OXIE CO., 21 Willow St., Augusta, Me.

YOU CAN MAKE \$4 PER DAY Handling the FASTEST SELLING article on record OVER A MILLION SOLD IN PHILADELPHIA!

LOOK HERE! Do you use lamps? Our patent attachment improves the light, avoids dirty work in filling, saves time and money.

Asthma The African Kola Plant, discovered in Congo, West Africa, is Nature's Sure Cure for Asthma.

CONSUMPTION (except last stages) CATARRH, BRONCHITIS, ASTHMA, and all Diseases of the Lungs, surely cured by the New Andral-Broca Discovery.

DEAFNESS & HEAD NOISES CURED by PIERCE'S Invisible Tubular Ear Cushions. Wonders heard. Successful when all remedies fail. Sold only by F. HISCOX, 553 B'way, N.Y.

RUPTURE Positive Cure. By mail. Sealed Book Free. Address Dr. W. S. Rice, Box F, Smithville, N. Y.

OPIMUM Morphine Habit Cured in 10 to 20 days. No pay till cured. Dr. J. Stephens, Lebanon, O.

WORTH A GUINEA A BOX. BEECHAM'S PILLS (Tasteless-Effectual.) FOR ALL BILIOUS and NERVOUS DISORDERS. Such as Sick Headache, Wind and Pain in the Stomach, Giddiness, Fullness, Swelling after Meals, Dizziness, Drowsiness, Chills, Flushings of Heat, Loss of Appetite, Shortness of Breath, Costiveness, Scurry, Blisters on the Skin, Disturbed Sleep, Frightful Dreams, All Nervous and Trembling Sensations, and Irregularities Incidental to Ladies.

Beauty often depends on plumpness; so does comfort; so does health. If you get thin, there is something wrong, though you may feel no sign of it.

Thinness itself is a sign; sometimes the first sign; sometimes not.

The way to get back plumpness is by CAREFUL LIVING, which sometimes includes the use of Scott's Emulsion of cod-liver oil.

Let us send you—free—a little book which throws much light on all these subjects.

SCOTT & BOWNE, Chemists, 132 South 5th Avenue, New York. Your druggist keeps Scott's Emulsion of cod-liver oil—all druggists everywhere do. \$1.

ON 30 DAYS' TRIAL. THIS NEW ELASTIC TRUSS Has a Pad different from all others, in cup shape, with Self-adjusting Ball in center, adapts itself to all positions of the body, while the ball in the cup presses back the intestines, just as a person does with the finger. With light pressure the Hernia is held securely day and night, and a radical cure certain.

\$10,000 IN PREMIUMS Given away to those who purchase our Great Family Remedy which is Guaranteed to permanently cure Dyspepsia, Indigestion, Biliousness, Sour Stomach, Constipation, Sick Headache, Rheumatism, Female Weakness, Nervous Debility and even Consumption in its early stages.

FAT FOLKS REDUCED Mrs. Alice Maple, Chicago, Ill., says: "My weight was 230 lbs., now it is 165 lbs., a reduction of 65 lbs., and I feel so much better that I would not take \$1,000 and be put back where I was. I am both surprised and proud of the change. I recommend your treatment to all sufferers from obesity. Will answer all inquiries if stamp is enclosed for reply."

PATIENTS TREATED BY MAIL. CONFIDENTIAL. Harmless, and with no starving, inconvenience, or bad effects. For particulars address, with 5 cents in stamps, DR. O. W. F. SNYDER, M'WICKER'S THEATER, CHICAGO, ILL.

PILES CURED FREE. A New Painless, Certain Cure, gives Instant Relief and Lasting Cure. I will send means of cure (sealed) Free by mail to fellow sufferers. I have nothing to sell. Send stamp. Address T. C. BARNES, News Dealer, Marshall, Mich.

Dr. Chase's New and Complete Receipt Book AND HOUSEHOLD PHYSICIAN. "The Crowning Life Work" of the Great Old Doctor. Nearly 900 pages. Newly illustrated. The greatest selling book in the world to-day. Big terms to agents. Printed in English and German. Address F. B. DICKERSON CO., Department E, Detroit, Mich.

FREE TRIAL TO ANYONE of Dr. Judd's Electric Belt and Battery Combined, Electric Trusses. DR. JUDD, Detroit, Mich. Agents wanted.

CANCER AND TUMORS scientifically treated and cured. No knife. Book free. Dr. L. H. Gratiery, 163 Elm Street, Cincinnati, Ohio.

VARICOCELE We will send you on the MARVELOUS French remedy CALTHOS free. It is an absolute and permanent cure. Use it and pay if satisfied. Address Von Mohl Co., Sole Agents, Cincinnati, O.

DEAFNESS & HEAD NOISES CURED by PIERCE'S Invisible Tubular Ear Cushions. Wonders heard. Successful when all remedies fail. Sold only by F. HISCOX, 553 B'way, N.Y. Write for book of proof FREE

RUPTURE Positive Cure. By mail. Sealed Book Free. Address Dr. W. S. Rice, Box F, Smithville, N. Y.

OPIMUM Morphine Habit Cured in 10 to 20 days. No pay till cured. Dr. J. Stephens, Lebanon, O.

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If the Choice is Not Named when the Subscription is Sent, we will Mail One of the Free Gifts of Our Own Selection, as Every New Subscriber and Everyone Renewing their Subscription is Entitled to a Free Gift.

Free Gift No. 1.

## A MAGNIFICENT PORTFOLIO OF 100 Superb Photographs

FROM ALL QUARTERS OF THE GLOBE.

Size of pages, 14 by 11 inches.

Photographs of Famous Castles, Historic Ruins, Great Cathedrals, Monuments, Towers, Arches, the world's most noted pieces of Sculpture, Beautiful Landscapes and Mountain Scenery. Located in all parts of the world, including the countries of England, Ireland, Scotland, France, Germany, Italy, Austria, Belgium, Norway, Russia, Turkey, Greece, Spain, Palestine and other countries of Asia, Africa and South America; also our own United States, and Canada and Mexico.

Each Picture is Described in a Concise, Accurate and Entertainingly-written Article, Every One a Gem, Containing the Knowledge of the World's Master Minds upon the Subject.

Printed in Artistic Style, upon the Best Enameled Paper.

### \$2.00 WOULD BE A LOW PRICE

For this book if offered for sale, and thousands of people would willingly pay that price after seeing it, rather than fail to get a copy. As a special inducement to greatly enlarge our family of readers, it is offered

Absolutely Free to Subscribers to this Journal.

These magnificent and artistic pictures are made by a new process, combining the latest inventions in photography and electricity, giving an artistic result never before attained. Everybody knows that the photographer's camera makes no mistakes; it gives an exact likeness of the object. By our process of photo-etching, an exact reproduction is secured, and the engravings as printed in our book are as precise and exact and natural as the photographs themselves, showing all details of light and shade just as in the photos. To make the engravings in the style of a few years ago, it would have cost about \$15,000.00, but no amount of money could make them equal our photo-etchings in artistic beauty. Some of the photographs used in making the etchings were secured at a cost of over \$50.00 each.

As a gift to a friend, nothing could be more appropriate or give more pleasure.

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With steps as light as summer air,  
Eyes glad with smiles, and brow of pearl,  
Shadowed with many a careless curl  
Of unconfined and flowing hair;  
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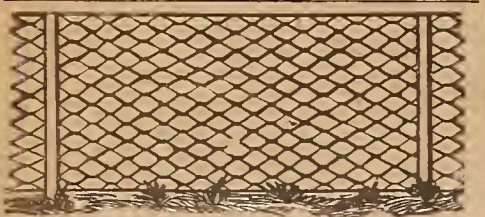
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THE *Breeder's Gazette* throws a searchlight on British condemnation of American cattle. What is revealed it describes as follows:

The grip of the dressed-beef magnates upon the markets of the world has been still further strengthened since our last issue, the English authorities having ordered the slaughter of the 1,200 head of Canadian cattle lately landed at Dundee and closed the ports of the United

Kingdom to the further introduction of Dominion bullocks. In vain have Scottish farmers, Scottish veterinarians and Canadian officials and cattle growers protested that a mistake has been made and that no contagious pleuro-pneumonia existed among the cattle landed by the steamships Huron and Monk-seaton. The pressure from English breeders has been too strong to be resisted. They demand protection from competition, no matter how grossly unscrupulous the means by which their ends are accomplished, and by this latest coup they have freed themselves from the numerous cargoes of "stores" our Canadian neighbors have been placing upon the British markets. As in the alleged cases of lung-plague which were made the basis of a similar restrictive order against the United States, Prof. Williams, of Edinboro, one of the highest veterinary authorities of the Old World, declares that there was no contagious pleuro about this latest "find" of the British inspectors. Dr. McEachran, chief of the Dominion veterinary service, emphatically avers that it is not possible that these cattle had the disease in question. When our northern neighbors have had as much experience as the states have had with Prof. Brown and his crew, they will understand, as everybody else has all along understood, that it is not pleuro but pretexts that the privy council's "vets" are at all times zealously seeking. We had scarcely expected that their game would extend so far as to exclude the cattle of one of Great Britain's own dependencies, and we must therefore give them credit for even more nerve than we had imagined these inspectors to possess. The I-am-holler-than-thou attitude of the Canadian government toward the United States in this disease matter must now be abandoned. They have now sent across the water exactly the same thing we have suffered so much from sending, but we have no disposition to gloat over a neighbor's misfortune. The English are rapidly delivering themselves over to the tender mercies of one of the biggest monopolies of the age, the American dressed-beef combination, and in doing so are injuring the cattle-growing industries of two continents.

From the theoretical standpoint the surplus beef of both Canada and the United States should go abroad in refrigerators, but until there is a further diversification of the slaughtering interests it is a heavy blow to producers to have foreign shipments of live cattle seriously curtailed by the ukase of the czar of the British agricultural office.

COL. CHAS. J. MURPHY, the special agent of the department of agriculture for introducing American corn in Europe, reports encouraging progress in his work. What has been accomplished is told by Secretary Rusk as follows:

The time is not far off when the enormous yields of corn in the western states will find a profitable market, and we will no more hear of the golden ears being used for fuel because the price it brings makes it cheaper than fuel. Our exports of corn have been small—not over four per cent of the product. In spreading information abroad about American farm products, I have taken corn as one of our staple crops. People in Europe have heretofore used American Indian corn solely as feed for cattle, and consequently, have only used it extensively when the price was very low. I have been trying to show the people in that part of the world the value of Indian corn as a food for human beings, so as to establish, if possible, a steady demand for Indian corn or corn-meal, or some of the other forms of Indian corn so favorably known in the domestic economy of our American homes. It has been difficult work, because nothing is harder than to remove prejudice, and when people have been accustomed for years to regard an article as fit only for the food of cattle and swine, it is not easy to persuade them to eat it themselves. Patience and perseverance have, however, at last succeeded in giving us some good results. The work has been directed especially to the markets of Great Britain and Germany, the two countries in Europe that

are obliged every year to import a large proportion of their cereal foods. In Great Britain the use of Indian corn in some of its various forms is slowly, but steadily and surely, gaining ground. In Germany it has for obvious reasons been more rapid, the main reason being that a large proportion of the German people use rye bread, and that last year the export of rye from Russia, whence the Germans used to draw a large portion of their supply, was cut off, with the result of raising the price of rye very materially. As soon as the Russian supply was cut off I despatched our corn agent in Europe to Germany, and he has been indefatigable in his efforts there since that time, with the result that to-day there are a dozen cities in Germany, outside of Berlin, where bread is sold made of rye and corn-meal mixed, and there are no less than fourteen mills to my knowledge into which corn-grinding apparatus from America has been introduced for the purpose of preparing the meal. As a result, the first six months of this calendar year showed an export of over 55,000,000 bushels, valued at \$29,000,000, against 11,000,000 bushels, valued at \$7,800,000, for the same period of the previous year. The price has advanced with the increase of exportation. In 1890 the average price at port of shipment was forty-two cents per bushel, and in 1892 it has been over fifty-five cents per bushel on the average.

THERE are thousands of butter makers who use some improved form of the deep-setting system of creaming milk. Many of them, probably a large majority, depend altogether on cold water from springs or wells. It has been demonstrated time and again that this system, good as it is, fails to give its best results without the use of ice. Taking it the year around, there is a large gain in the yield of butter from setting the milk in water at forty degrees temperature, over setting it in water at sixty degrees. The necessary low temperature cannot be obtained without the use of ice. The use of the deep-setting system indicates progress, but it is not progressive to stop short of its requirements. The dairyman who wants to make it do its best will not fail to put up a liberal supply of ice this winter.

There is another important thing about the deep-setting system that is neglected. The milk should be set immediately after it is drawn from the cow. Failure to do this results in a loss of yield of butter.

ACCORDING to the November crop report of the department of agriculture the returns of yield per acre of potatoes are in substantial agreement with the returns of condition throughout the growing season. The year was distinctly unfavorable almost from the time of planting, and the return of yield reflects the unfavorable conditions which have prevailed. The average yield per acre by the present return is sixty-two bushels, against 93.9 last year and 57.5 in 1890. The average yield for ten years ending with 1889 was not far from eighty bushels, and during that period the yield was smaller than the present return in only two years, 1881 and 1887.

ONE of the latest achievements of inventive genius is the long-distance telephone. It has practically annihilated distance. Voices are distinctly heard and conversation easily carried on over a thousand-mile line. Besides important improvements in transmitters, receivers, fittings, etc., two wires are used, the circuit being completed by a return wire. The new long-distance telephone will become a formidable rival of the telegraph.

EXCEPTING where the owner is making fruit a specialty there is a very noticeable lack of care of the orchards of Ohio. Not many years ago our orchards were abundantly fruitful. Even in off years farmers generally had enough for their own use. Low prices in years of plenty, the increase of insect pests and fungus diseases and changed climatic conditions are some of the causes of the deterioration of apple orchards. The old orchards are past their period of usefulness, and the young orchards do not thrive as they did years ago.

In fact, the natural life of the apple-tree seems to have been greatly shortened. In spite of all this the pomological exhibits at state and county fairs show that Ohio yet produces fruit of the finest quality. But our orchards require much better care than they are now receiving. Doubtless the present high price of apples will have the good effect of making farmers take better care of their orchards. At least, they should provide for an abundant supply of fruit for home use.

The market fruit of the future may better be grown by specialists, but the farmer cannot afford to neglect his own fruit-trees and depend on the retail market for his supply of fruit. Transportation rates and middlemen's profits make too wide a margin between the orchard and the retail prices for the general farmer to depend on the specialist for his supply.

SIX hundred thousand annually is the flood of immigration to the United States. For the thrifty, the industrious, the law-abiding and the liberty-loving who come here to make homes and become true American citizens this country has a warm welcome. But the inflowing tide is now laden with the flotsam and jetsam of pauperism, crime and anarchy. Immigration now brings with it contagious elements destructive to American civilization. Patriotism sees the danger and demands the restriction of immigration. The law of self-preservation requires it. As prompt and effective measures should be taken as against the most pestilential diseases.

MUTTON eaters have the prospect of a picnic. However, a period of cheap mutton will undoubtedly lead to an enlarged consumption of the most wholesome and nutritious of meats, and do some good for the future of sheep husbandry in this country. Following a period of low prices will come a period of better prices, with an enlarged home market for mutton. It is fortunate for the sheep industry that the attention of breeders for several years past has been directed to the flesh as well as to the fleece.

BEWARE of the "gold-cure" prescriptions for dipsomania that are published or advertised in the papers. Free Prescription is an old, contemptible fraud. He always calls for something that druggists cannot supply. "Electrofied" gold, of course, can only be obtained from old Free Prescription himself. This time he wants the dollars of the drunkard. Let him alone.

OFFICIAL statistics show that the United States now does nearly one third the manufacturing of the world. Her greatest competitors combined, Great Britain and Germany, do not equal her. The value of her manufactures is nearly one third greater than those of France, Russia and Austria.

**FARM AND FIRESIDE.**  
ISSUED 1st AND 15th OF EACH MONTH BY  
MAST, CROWELL & KIRKPATRICK.

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**The Advertisers in this Paper.**

We believe that all the advertisements in this paper are from reliable firms or business men, and do not intentionally or knowingly insert advertisements from any but reliable parties; if subscribers find any of them to be otherwise we should be glad to know it. Always mention this paper when answering advertisements, as advertisers often have different things advertised in several papers.

*Our Farm.*

**RAMBLING TALKS ON THE MANURE QUESTION.**

**A**VERAGE manuring means average farming, average crops and average lack of profits. That is the lesson I tried to impress upon the reader in my rambling talk of October 15th. The farmer, as a class, must first learn to know the full value of plant-foods, and to understand in what way they can be used to the best advantage. The best schooling which could be given to a young man and prospective farmer, is to let him work awhile for a successful market gardener or fruit raiser. The ordinary farmer could hardly believe his own eyes when seeing the quantities of manures some growers of vegetables, etc., put on their land. But the results obtained through this liberality in the use of manure cannot do otherwise but inspire the beholder with faith in the efficacy of such liberality. I will cite one instance.

There are many Bartlett pear orchards in this vicinity. All are profitable; none, however, nearly as much so as a certain orchard of somewhat less than two acres. The average orchard of the average pear grower here is in sod, and seldom manured. It brings a few hundred dollars per acre, seldom more than \$500, and perhaps not over \$250 one year with another. The two-acre orchard mentioned brought to its owner \$1,600 this year, about \$1,000 last year, \$2,700 in 1890 and about \$1,500 in 1889, or about \$7,000 in the four years—just about \$1,000 annually per acre. Why such phenomenal results? Simply because the two acres are kept in high cultivation. The owner applies heavy dressings of compost every year, and keeps the compost stirred during the first half of the season, never allowing a bit of weed growth in the orchard. There are big heaps of old cow manure on some dairy farms within two miles of the place. This manure is offered for sale. The owner of the orchard buys one hundred "loads" every year or every other year at fifty cents a load. My friend draws nearly three tons to the load, so that the ton costs him only about twenty cents, while it is worth nearly ten times that much alone for its nitrogen, phosphoric acid and potash. What a chance to purchase plant-foods!

One should think all the farmers in the vicinity would just stumble over each other trying to buy all the manure they could get or haul at such figures. Yet I notice there is always an abundant supply of old manure on hand on these dairy farms; the owner of the pear orchard in question, and a neighboring strawberry grower, seem to be the only parties who ever haul a load. With such chances within reach, farming can be made to pay,

and pay well. See the effect of the manure applications in the pear orchard! The whole cost of the manure put on the two acres is probably less than \$20 per year. This amount of plant-food is the cause. The result is an increase of the average gross receipts from the two acres, of more than \$1,000.

Of course, this is an exceptional case. The Bartlett pear crop is just exactly suited to this locality and soil. No other could be expected to give such profits. I have mentioned this instance only to demonstrate a principle, and to show that thoroughness in manuring and cultivation pays. The owner of the orchard could afford to pay not only the full, but even an extravagant price for plant-foods, rather than leave anything in the matter of feeding his trees undone. Instead of the \$20 per year, he could afford to pay many times that sum for manure rather than go on as his neighbors do, and raise only one half what his trees are enabled to bear when well treated.

The grower of average farm crops cannot afford to pay extravagant prices for manure. At the present prices of cereals and the low prices often obtained for potatoes, etc., I doubt whether it would pay to purchase complete plant-foods at full commercial rates for the purpose of using them in the production of these ordinary crops. It will usually pay to purchase a single substance of plant-foods, such as phosphoric acid in superphosphates or phosphates, or potash in potash salts, when such single plant-food is lacking in a soil provided with all others in sufficient quantities. Such conditions are not unusual. We find them where crops using up one certain kind of plant-food much faster than the others, are grown for many years to the exclusion of other crops. Wheat, oats, etc., for instance, use up phosphoric acid faster than other plant-food elements, and tobacco, many fruit crops, etc., live especially on potash. Continued, one-sided cropping, therefore, may result in exhausting the soil of a single kind of plant-food; and when that is the case, the application of just that kind of plant-food will be liable to help make the soil again productive.

One of the first tasks of the progressive farmer is to find out, by judging from the antecedents of each piece of land, or from planting tests, the true condition of the soil, and then to apply the needed plant-food. This is scientific farming.

When it comes to the use of miscellaneous manures, those originating in the barn-yard and household, the whole matter hinges on the price of the articles. When you can buy "loads" of old manure at fifty cents each, with the privilege of putting on all that two or three horses can draw, you have a regular bonanza. It can be made the means of bringing up the worn-out farm to the highest state of production at moderate cost, and to make an unprofitable style of farming profitable. The farmer who has an opportunity to procure manures—the safe old composts which are complete, furnishing all needed elements of fertility—at a mere fraction of their real value, should keep his teams hauling manure every day they are not otherwise busy. In many cases such manures can be had for the hauling. City stables are often glad, especially during summer, to get rid of the manure.

It is hard to understand why such chances are neglected. I do not know of a single other country where similar conditions exist. The European farmer watches with jealous eye every chance to purchase manures. There you find little boys picking up the horse droppings in the city streets and on public highways, and selling them to farmers and gardeners by the basketful. There the farmers pay city people for the privilege of cleaning out closets and outhouses, and drawing the contents to their fields. Everything that can be utilized for manurial purposes is carefully gathered and saved. That is one of the reasons of the high state of agriculture in those countries, and accounts for the fact that the question, "Does farming pay?" has not the significance in Europe that it has here.

T. GREINER.

**WINTER FEED FOR DAIRY COWS.**

Dairymen, this winter, will need to be careful in regard to the kind of feed they buy, because all kinds bid fair to be rather higher than usual. Mill feed has been exceptionally high all the fall, and hay, in some sections, is higher than it has been for years. The corn crop is a light one—in some states is very short—and unless dairy products advance sharply in price, less profit than usual will be made in dairying this winter. In buying grain feed a saving

can be made by buying in car-load lots, and this can be done by several neighbors joining and buying together, and buying a sufficient quantity to last all winter.

I would suggest that if linseed meal can be bought at a reasonable price, a liberal quantity of this excellent feed should be purchased. I have fed it for many years, and always with satisfaction; it is claimed that it makes the richest manure of almost any available feed. To those dairymen who make butter, cotton-seed meal may prove to be one of the cheapest feeds they can buy; it is a good meal to feed in connection with corn fodder.

Speaking of corn fodder reminds me to say that it is a feed that, the country through, is wasted more than any other. All that is claimed for ensilage as a cow feed may be realized from corn fodder if it be properly cared for and fed. It should not be allowed to stand in the field longer than necessary to cure, so that it won't mold when stacked or housed. The present season being so dry, the fodder will be ready to house as soon as the corn is husked. If corn fodder be cut up, then wet and the meal mixed with it, and the mass after being thoroughly forked over so that the meal will be evenly distributed, and then piled—or covered up in the mixing-box if the quantity be small—it will heat and get so soft that it will resemble ensilage; in fact, will be ensilage for all practical purposes. Fed in this way it will be worth double what it would be fed in the wasteful way usually practiced of feeding it uncut in racks or on the ground.

In sections where the fodder crop is a short one, wheat straw may be run through the cutter and mixed with the fodder before the latter is wet up and the meal mixed with it. Cotton-seed meal will come into play here to make the ration richer; linseed meal will also answer the purpose.

**BALANCING THE RATION.**

I am not in favor of balancing the ration according to the chemist's standpoint, unless the market price of the feed will justify it. We all know that certain kinds of feed will give good results, and when buying feeds we must be governed by their market price more than by their chemical analysis. This may sound like agricultural heresy, but I believe it to be good business.

**CULL THE HERD.**

But one of the most important things we will have to do is cull out the poor cows and get rid of them before winter sets in. If it won't pay to keep a poor cow when feed is cheap and plentiful, how much less will it pay when feed is scarce and dear. We must each have our standard as to what constitutes a good cow, and then make thorough work in getting rid of all that do not come up to that standard. Make a beginning now and sell off the poor cows, and give the feed they would have eaten to the rest of the herd; it may make all the difference between working hard all winter and not making a dollar, or working not near so hard and making a fair profit. It is no use trying to make money feeding poor cows. Set your standard as high as you dare to, and every year make it a little higher than the preceding one. There is no good reason why you should not have a herd of cows that will average 300 pounds of butter a year, or 5,000 pounds of milk, if you keep a milk dairy.

**THE CALVES.**

The same culling process should be used with the calves as with the cows. Don't raise calves from cows that you consider poor ones; only keep the calves from the best cows. In feeding the calves it is not necessary to keep them fat. We do not want them to get in the habit of laying on fat; all we want is to keep them in thrifty condition, and this can be done without feeding them much grain feed. I am speaking, of course, of calves old enough to do without milk. A very important point is to keep the calves comfortable; they should have a warm stable or shed, with plenty of good bedding, and if the bedding be of wheat straw, they will eat a good deal of it, if it has been stacked so it will shed rain. There is a vast difference between feeding stock with straw by letting them go to the straw stack, with the stack itself as their only shelter, and feeding that same straw in a comfortable stable or shed. If no shed is available, then one can be made out of poles and rails, roofed and sided with straw; so far as comfort goes this shed will be warmer than the average shed built of boards. Stock must be kept comfortable in order to thrive, and comfortable stock can be fed much more cheaply than that which suffers from cold or wet. Discomfort always costs us a loss in feed or flesh, or both.

A. L. CROSBY.

**THE LOUK SHEEP.**

The long and critical study of sheep and soils in England has led to the establishment of a greater number of types of sheep suited to, or more properly, belonging to, and produced by the varied conditions found in the British islands, than are known to exist in any other country of the world. The most of these families existed in a wool form while England was a wool-growing country. The improvement which changed the carcass, and the wool qualities, too, began about one hundred and fifty years ago to accommodate the demand for food. The changes then begun so successfully, depending upon better farming, have continued to the present time, and are still going on. Breeds of English sheep, that were little esteemed half a century ago in England, by the advancement of progressive farming into pastoral regions, the more mountainous parts of the British islands, have taken new form and are regarded with the interest due to their indigenous fitness to occupy their old localities under the influences of tillage and better husbandry. Among these newer breeds of sheep, now claiming a share of public favor, are the Louk sheep. They are "hill sheep," quite resembling other types that have for centuries occupied similar pasturage, yet like their native soil, possessing distinct character.

Mr. J. Boothman gives the following description, which is recognized as critical. He says: "The Louk sheep is the finest-wooled of all the varieties of mountain sheep in England. The name Louk is from its native county, Loukeshire, and is, as said, a hill sheep, reared on Pendle and Lancashire hills. It thrives well on heather (bushes), which these hills produce almost exclusively. Its close, fine fleece of wool is proof against the wind, or being pulled off by the bushes. Unlike some other of the "hill sheep," it seems to be equally at home on the low lands, where gentlemen keep them for show and other purposes. They appreciate the larger food supplies, and readily develop into heavier-bodied sheep, and take on a perfection that no other British mountain sheep is capable of.

The most of the ewes are sold off at five years old to grass-land farmers for the purpose of crossing with the Leicester ram. This cross is one of the best breeds of store sheep. The wool is long, fine and lustrous. The carcass, when slaughtered, heavy, and well-flavored mutton. The wool is not so fine as the Merino sheep; but it is one of the English fine-wooled breeds remaining. One of the important recommendations in its favor being its elasticity, strength and evenness of fiber, which renders it capable of being drawn out into a tolerable fine thread. For that reason it is a favorite wool with the manufacturers, especially for the best quality of white blankets. They would be readily improved by a judicious cross that would give greater plumpness and size of body without disturbing the constitutional hardiness or their agility so prominently fitting them for mountain pasturage. The lambs of this breed of sheep are remarkably strong and hardy.

The Louk is a horned sheep, with speckled face and legs. They seem to hold their own on the fells (rocky, thin or marshy soil). They are much more hardy than the Leicesters and other breeds which are largely kept on the lower, richer grounds. The weight of a Louk ewe carcass when dressed is from sixty to eighty pounds. The weight of the ewe's fleece, one year's growth of wool, washed before shearing, is six to seven pounds.

Such sheep might be profitably introduced to the rich grazing-lands of the Appalachian range and be expected to readily acclimate. Their hardiness and active nature would commend them for hardships incident to mountain pastures, while their usefulness in the crosses would recommend them for feeders in the grain-producing valleys. The production of feeders should be largely engaged in by those owing mountain lands. The time will come again when wool growing in pastoral regions will be so profitable that the supplies of sheep for feeding will be withheld. This will necessitate the home supplies from the natural hill and mountain regions where grain growing is impossible or less profitable. The Louk sheep, it is worthy of note, affords a generous and useful fleece by no means to be forgotten or neglected. The question of the hour is for a mutton and wool sheep; the future sheep need not be less a wool sheep, and combine both characteristics in a high degree, provided proper considerations to the combined usefulness of the sheep are duly considered.

R. M. BELL.

THE ARRIVAL OF THE ORGAN.

One afternoon about four o'clock four travelers in a prairie schooner approached a frontier town near the Rocky mountains.

As the travelers approached, they saw that the inhabitants of the center of the town, men, women and children, were out of doors, and apparently watching their approach.

The travelers had had some experience in this part of the country, and they felt a little uneasy as to the purpose of this demonstration.

But their fears were groundless. The people paid little attention to the travelers as they drove up to the hotel door, but continued to look along the road the travelers had come.

Across the prairie, a mile or more away, appeared what proved to be, on nearer approach, a four-mule team drawing an immense covered wagon.

But he is admonished to move on. "Hyer, don't stop there talkin'! Drive up ter the school-house! Don't keep us er waitin' all day."

A shout went up, and the man with one suspender waved his hat and shouted, "She's come!"

Many of us here in California have been greatly amused at the "fuss" made over what the eastern papers and gardeners call "the new onion culture,"

I call to mind my first trip through Sonoma county, in the spring of 1888. Passing along a road, I saw a swarthy son of Portugal busily planting young onions

COMMERCIAL FERTILIZERS ON CORN.

The following experiment in the use of commercial fertilizers on corn was made this season by Mr. Orlando Trotter, of Washington county,

The land was laid off in plots of one tenth acre each, and fertilizers were applied at the rate per acre in the given table.

costing about \$25 a ton in Ohio. The cost of the muriate of potash is about \$45 per ton, and that of nitrate of soda about the same.

Mr. Trotter reports that the land upon which this experiment was made has been under cultivation for perhaps forty years, and is badly worn.

Table with columns: Plot No., Fertilizers per Acre—Pounds., Yield per acre., Increase per acre., Cost of Fertilizer, Value of Increase.

In this table the increase is found by comparing each fertilized plot with the adjoining unfertilized one. The cost of fertilizers is computed at latest prices per ton in Ohio, and the value of the increase at forty cents per bushel.

While the results of this test are in harmony with most of the similar tests made in various parts of Ohio, under direction of the experiment station, there have been a few exceptions, in which superphosphate and potash seemed to have a better effect than is shown here.

THE NEW ONION CULTURE.

Many of us here in California have been greatly amused at the "fuss" made over what the eastern papers and gardeners call "the new onion culture,"

I call to mind my first trip through Sonoma county, in the spring of 1888. Passing along a road, I saw a swarthy son of Portugal busily planting young onions

The young onions had been carried in great bundles to the field, and laid there with their long, silken, white roots exposed to the sun and air, and it looked like a harsh way to treat young, succulent plants.

Since that I have learned that they are little injured by such exposure. These people of the patin race keep these young onion seedlings for sale at the green-groceries by the hundreds and thousands,

Such is the "new onion culture." It is a grand, good thing here, and it should be East, but there is no need of giving the onions one fourth the work that some give them.

Some of this naturally sub-irrigated land of ours is very fine for growing summer crops of vegetables, such as onions, cucumbers, carrots, cabbage, corn, etc.

BURN OFF STUBBLE LANDS.

The season has been favorable for an excessive growth of vegetation on farms. The wheat-stubble lands have grown up in foul weeds, grasses, and in many instances, burs.

Too little attention is given, by American farmers especially, to "cleaning the ground," as English and Canadian farmers call it.

The value of vegetable matter in the soil

—humus, as the scientists call it—is important, but a bountiful crop of foul weeds are not to be tolerated on any account.

Another valuable item must be referred to here. By destroying the trash now on the ground, the plow may be started a whole week in advance of the land covered with a coat of trash.

R. M. BELL.

POVERTY IN AMERICA.

"There is very little genuine poverty in America," said Judge A. W. Wilder. "Our poverty is rather comparative than real. We have men with incomes of one hundred thousand dollars a year and more.

FOUR FARMS.

Many of our readers will recollect the story of the farmer of one hundred and sixty acres who had three sons. When one married, one quarter of the farm was given him.

While it is the fact that it may not yet be found feasible to support a family on less than eighty to one hundred and sixty acres, still it has been found quite practicable so to do near large cities on a very few acres by means of intensive cultivation.

Catarrh

Is a constitutional and not a local disease, and therefore it cannot be cured by local applications. It requires a constitutional remedy like Hood's Sarsaparilla, which, working through the blood, effects a permanent cure of Catarrh by eradicating the impurity which causes and promotes the disease.

Local Applications Failed.

Hood's Sarsaparilla

HOOD'S PILLS cure liver ills.





### Our Farm.

#### THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey.

#### SMALL GRAINS AND PROFITS.

THE fowls are small compared with the animals, but they gain proportionately in weight and pay for the food consumed. If a fowl weighing six pounds makes a gain of one pound it is exactly proportionate to the gain of one hundred pounds in a steer that may increase in weight from six hundred to seven hundred pounds, and a steer will require more room than will one hundred fowls. By the use of a pure-bred male in a flock of common hens the farmer may add an additional pound in weight to all poultry hatched from the cross. If he has one hundred of such birds he has gained one hundred pounds by improvement. It is more important to improve the poultry than the animals, especially when the flock is large, as a gain of two eggs only per month, or even only a half pound of weight in the carcass, may amount in value to a large sum in a year. To show what can be done by the use of pure-bred males we selected two medium-sized common hens, full sisters, and mated one of them with a Plymouth Rock male and the other with a scrub male, hatching eggs from both hens for comparison, selecting the cockerels (six of each) for experiment. When they were six months old they were weighed. The half-bred Plymouth Rock cockerels averaged nine and one fourth pounds each, and the others seven and one eighth pounds. Both lots were fed alike, (all being together), and were fed very heavily, in order to force them in growth. There was over two pounds difference in weight, or twenty-five cents gain, at twelve and one half cents per pound. Had we raised two hundred of the cross-bred chickens there would have been a gain of \$50 by using the pure-bred Plymouth Rock, and yet he did not cost but \$2. The pullets from the cross were also larger than the others, and were much better egg producers. Gains from poultry may appear small, but they are really large when we take the percentage of gain into consideration.

#### WIRE FENCES IN WINTER.

It cannot be denied that by the introduction of wire netting for fencing, the cost of confining poultry has been greatly reduced, for the wire fence is not only durable, but can be easily constructed. During the winter season the usefulness of the wire fence depends upon how it is arranged. When the cold winds come from the North and West the hens must remain inside the poultry-house or be terribly exposed, as the open wire does not serve in any manner as a protection. When erecting a fence this fact must not be overlooked, as much of the usefulness of the hens in the winter depends upon warmth and protection from high winds. Wind-breaks are always serviceable, but they are not easily made or grown. When wire is placed in position, let it be above two feet of boards. That is, when making the fence, use two feet of boards at the bottom, not only as a protection against winds, but also to prevent the birds from pecking each other. The boards also make the fence higher and stronger, thus preventing the flyers from going over it, as well as keeping dogs from breaking through.

#### VEGETABLES FOR POULTRY.

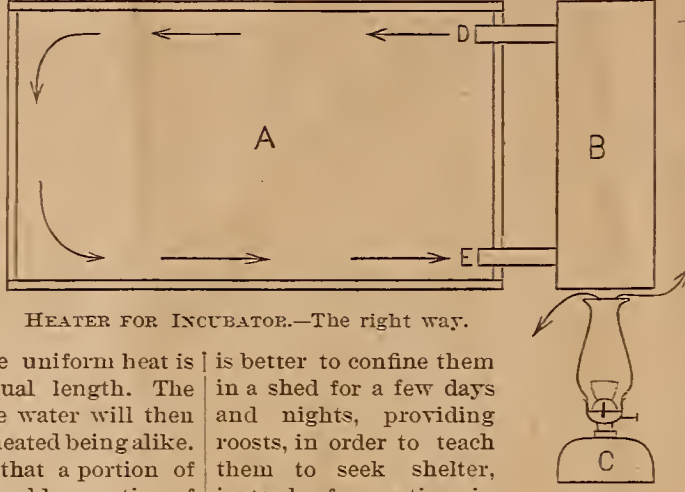
The hens will be benefited if given ensilage or cooked roots as a portion of their diet. Such foods assist in keeping them in condition and promote the appetite. One of the causes of failure to get eggs in winter is the sameness of diet. The hens like a change, and show their appreciation by their egg production. All kinds of vegetables will be highly relished by them, and will lessen the cost of the food.

#### EGGS WERE HIGHER.

Eggs have been higher this year than ever before, but whether due to the tariff of five cents per dozen, or to some other cause, we are unable to state. One thing is certain, which is that fewer eggs have been imported. The point sought to be impressed is that eggs have sold well, and the farmer who has a great many of them for sale next year will make a larger proportionate profit than from any other source.

#### HEATER FOR INCUBATOR.

When an incubator is heated by attaching a small boiler to a tank, using a lamp, an important point is uniform temperature in all parts of the egg-drawer and the proper circulation of the water. For the benefit of those who are using hot-water incubators, and who wish to attach a lamp boiler, we illustrate how to avoid a mistake in attaching the boiler. In the illustration, A is the tank, filled with water, B the boiler, C the lamp, and D and E the pipes leading from the boiler to the tank, the pipes being of tin, half an inch in diameter, and the boiler of galvanized iron. The boiler should be covered with asbestos-paper, two thicknesses, as a protection to avoid loss of heat, or it may be surrounded by an iron jacket, an inch larger in diameter than the tank, the space being filled with dry plaster.



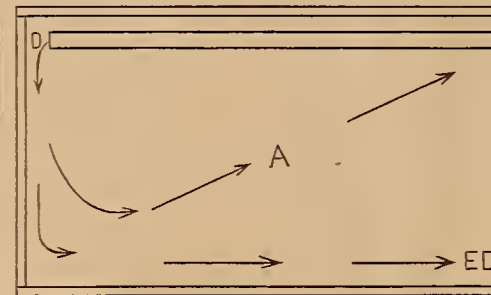
The right way to secure uniform heat is to have the pipes of equal length. The arrows indicate how the water will then flow, the whole quantity heated being alike.

The wrong way shows that a portion of the heat will rise to the colder portion of the tank, near the upper part of the boiler, the rear of the tank being warmer than the front, and the circulation sluggish.

It may be mentioned that the methods have both been thoroughly tried and tested, and are here given for the benefit of those interested in heating with lamps. It may be also stated, however, that we believe the most satisfactory results will be obtained if lamps are not used at all, as the boiling water, poured into the tank, will retain the heat for twelve hours or more with little or no change of temperature.

#### TURKEYS AND CONFINEMENT.

The turkey is a bird that will not endure confinement, and any attempt to fatten one in a close coop will result in disappointment, as it will become restless, dissatisfied, and lose in flesh. The way to fatten them is to put several of them



together, in a yard, and feed them four times a day, giving a little meat and plenty of ground grain, moistened with milk. Some persons add a pound of crude tallow to each peck of the ground grain, intimately mixing it with the grain while the mess is warm.

#### HOW MUCH LAND.

We are asked how much land is required in order to make a living from the poultry business. It is estimated that one hundred hens are sufficient for one acre of ground. A great many persons keep a larger number of birds on that area, but it is best to give plenty of room. It is difficult to state how much land is required in order to make a "living," as the sum sought for that purpose depends upon the number of persons in the family, and their frugality. A five-acre farm should pay if devoted to poultry by an experienced person.

#### DON'T BUY DISEASE.

It is the easiest matter to get roup into your flock when you buy a bird from another yard. If you wish to purchase, it will pay you to inspect the flock from which your purchase is to be made, and if you buy from parties at a distance, be sure that they are reliable, and insist on a written guarantee against loss from disease should such purchased bird be unhealthy. Lice is carried from one flock to another by purchased birds, and diseases are also spread in the same manner. One cannot be too careful.

#### USE PAPER FOR PROTECTION.

Use wall-paper, wrapping-paper or even newspaper on the walls of your poultry-house, pasting it on with thick paste, if you cannot stop up the cracks in any other way. A little extra work in that direction may render the house comfortable, while

the cost is almost insignificant. Swelled eyes and heads are usually caused by currents of air from some unseen crack or crevice, and the paper will cover them. In the spring the paper should be removed in order to guard against providing a harboring place for lice.

#### TURKEYS IN TREES.

If your turkeys insist on selecting trees, the trees should be on the south side of a house, or some other wind-break, as they will have roup if exposed to the winds. It

is better to confine them in a shed for a few days and nights, providing roosts, in order to teach them to seek shelter, instead of roosting in trees.

#### CORN FODDER FOR DUCKS.

Take the blades of corn fodder, cut them fine with a fodder-cutter, scald them, and leave them in the tub all night. In the morning sprinkle the mess with bran and corn-meal, moisten with warm water again, and feed the mess to your ducks. The result will be a cheap food that will be highly relished by them.

#### CORRESPONDENCE.

**BEETS FOR POULTRY.**—I think the editor makes one big mistake when he says hens get too fat to lay. I have dressed them that had been laying, and they reached ten pounds. I have never seen recommended in any paper what I feed mostly, which is beets, raw. Norbitant Giant and table beets are the kinds. We have recently put one hundred bushels in the cellar for that purpose. The red-kind of beets makes the yolk a rich color. My hens get scalded wheat bran, warm, in the morning, with beets and milk, and eggs never fail.  
*Center Belmont, Me.  
Mrs. L. N. B.*

#### INQUIRIES.

**Pigeons.**—H. H. C., Germantown, N. Y., asks: "Will some one inform me how to make pigeons attached to their homes, and what to feed them?"  
**REPLY:**—The adult pigeon will always return to its original home, unless its mate is lost, hence pigeons are difficult to locate on a new place unless carried there when young. Feed them mostly on grain, allowing meat and green food.

**Turkeys.**—Mrs. S. A. W., Easton, Mich., asks: "My turkeys are affected with a swell-

ing under each eye, and a watery discharge from the nostrils. Please give a remedy."  
**REPLY:**—Probably roup, due to exposure. Anoint face and eyes with a few drops of a mixture of one part spirits turpentine and three parts sweet-oil, and inject two drops of peroxide of hydrogen in each nostril once a day.

**Bone-cutters.**—E. L. S., Wheaton, Ill., asks: "What is the difference between a bone-cutter and a bone-mill, and which is better for use with a large flock?"

**REPLY:**—A bone-mill grinds bones, which are first broken to pieces about the size of a walnut, but the bone-cutter does not grind, and large pieces of bone may be placed in the hopper. It cuts the fresh, green bones from the butcher, as well as cutting the adhering meat also. Where bones can be procured daily the cutter will prove almost invaluable.

**Cholera.**—R. E. B., Jewell, Ohio, asks: "Give prevention and cure for chicken cholera. I have tried every remedy that has been suggested, with the same result. I keep my birds and houses clean, and allow free range. They are mostly Leghorns."

**REPLY:**—There is no certain cure for cholera, the best remedy, however, being a teaspoonful of liquid carbolic acid in three pints of water, giving no other drink. It may be possible that the disease is not cholera, but indigestion. Nearly all diseases are termed cholera by the inexperienced. You should have given symptoms.

**Poultry Do Have**

These diseases, the first is what diphtheria is to human beings, and closely allied to that disease. Symptoms are, sneezing like a cold, slight watering of the eyes; running at the nostrils, severe inflammation in the throat, canker, swollen head and eruptions on head and face. A breeder of fighting game fowl which from their habits, are more liable to roup than others, gives us a **TREATMENT**, which he says is a **Positively Sure Cure** for the

## ROUP

By the use of  
**JOHNSON'S  
Anodyne Liniment**

Space here will not permit giving his full directions for use. Send to us for full particulars, by mail; free. It also cures all Bowel Complaints, Leg Weakness and Rheumatic Lameness like magic. Sold everywhere. Price, 35c., 6 bottles, \$2.00. Express paid. Pamphlet free. I. S. JOHNSON & CO., 22 Custom House St., Boston, Mass. Mention this paper when you write.

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must be ready for a job which would finish up the week.

Imagie, then, Borlena's dismay when, having driven out the next morning, hoping to be greeted by the welcome roar, as she entered the last gateway, she found everything at a standstill, because of the non-appearance of Jan Olsen...

It seemed to Borlena that she had done nothing but seize some unexpected hull by the horns at every phase of her new venture. There was but one compelling thought that swept all before it.

"Could a boy do it?" she asked of Carl. "Yah, so he he strong; but we got no boy."

Young Rodemeyer hesitated, but seeing resolution in the young girl's dancing eyes, he moved quickly away. The men, with some incredulous mutterings...

"Then you must take Jan's place. Be quick!" "Den who dakes mein?" he asked.

"I shall," said Borlena, springing with a swing of her supple body into the place which Carl had occupied. The signal was given and there was no time for surprise...

When the thrasher finally rattled out of the fields that night, Borlena had already driven homeward in a rather dazed state of mind. Uninjured save for the shock...

A new man was readily hired from Pappinville to meet the emergency, the other men bestirring themselves to such good purpose that a sturdy fellow was waiting in Jan's place when she met them next day.

"I've saved \$3 a day, you see," she said. "Doing my own 'bossin', as Joh calls it; then I saved \$2 the day I substituted for Jan."

"And there's—I'm not going to tell you, Ben," as she pushed a red collar-hox toward him. "You can count it for yourself!"

"Eighty-five, ninety, ninety-six dollars and fifty cents! Grinning crickets!" said Ben.

"Yes, you've counted right!" cried his wife, excitedly. "Seems to be 'bout all I can do nowadays."

"Why, Ben?" exclaimed Borlena, the look of innocent pleasure dying out of her face, at this unexpected taunt.

"Oh, Ben!" with which pitiful repetition of his name she dropped her face upon her arms, in the way her husband remembered so well at the bars of the old west pasture.

"I won't have to do any more real work, you know, Ben. It is no trouble at all to run things now, for the men are only too anxious to do their part. At this rate we'll have money in hank by spring, and next season you can run the thrasher when business gets dull, or we can take turns and divide the profits."

"But when spring came there seemed little prospect of Borlena's taking turns at anything outside her pretty home.

"Liphalet! Liphalet Tabor!" It was Mariny's voice to which Liphalet responded from the woodpile where Mariny herself speedily appeared...

"Who d'ye s'pose has 'rit?" she asked, with an air of eager mystery. "Who should hev 'rit," said Liphalet, "unless Borleny? Her letter alius set you to cacklin' like a hen with a new-laid egg."

Unmindful of this slur, Mariny kept right on. "Last time she 'rit, she'd put all her money most into a thrashin'-masheen, 'n' what d'ye s'pose she's gone and done now?"

"Wa'al, I sh'd say," drawled Liphalet, "most likely she's raisin' another partner in the thrashin' consarn, to run the new masheen. That's about the idee most women hev o' biness!"

"What a master hand you be at guessin'!" said Mariny, crestfallen. "I'd never thought on 't, sonchow; 'n they've named him Duke, too, for her pa!"

THE END.

CHANGING DISEASES.

In that delightful book, "Rudder Grange," the husband of Pomona gives as his reason for not removing from a malarial neighborhood...

Now, in case of malarial diseases, aside from the unwillingness of patients to "change diseases," it is generally not convenient to change their residences. If this were done in every case...

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Any person desiring to change disease for good health should write us a plain statement of their case, when, if possible, the way will be pointed out. The consultation is without charge.

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Our Household.

ON CHRISTMAS EVE.

'Twas the night before Christmas, when down in the clover  
 Stood Brindle, and Rosy, and Molly and Red.  
 Said Molly, demurely, the milking is over  
 And its time, I am sure, honest cows were abed.  
 As she turned to the spot where she usually rested,  
 Through all the long night till the coming of day  
 Her slow, lagging foot-step she sharply arrested,  
 And listened to what Madam Brindle did say.  
 My friends, said old Brindle, you surely remember  
 What night this may be—of all nights in the year,  
 'Tis the twenty-fourth night in the month of December—  
 Christmas eve, and a time to all Christians so dear.  
 The children all hang up their stockings with rapture  
 At thought of the wonders the coming day brings,  
 And each one as surely determined to capture  
 Old Santa, all laden with candy and things.  
 We, too, have a custom that's strictly adhered to.  
 In all this broad land, from the west to the east,  
 It gives us much pleasure, and thus 'tis endeared to  
 Our hearts and is followed by every beast.  
 This custom we've practiced for ages and ages.  
 When the shadows come, borne on the evening breeze—  
 'Tis the wonder of saints and the puzzle of sages—  
 On Christmas eve cattle get down on their knees.

A CONVENIENT KITCHEN.

**I**HAVE had several letters asking for plans of our kitchen, and I send them herewith, and wish to state that I have already published same in the *Ohio Farmer*.  
 There are several reasons why we consider our kitchen one of the best. The water and wood are both handy and under cover. The boards in the porch floor over the cistern are to be fitted closely, and left so as to be removed when the cistern is to be cleaned. If a chain-pump can be put upon the porch in addition to the force-pump in the sink, the water will be more thoroughly aired and keep sweeter.

Nothing can save more steps than a dish-cupboard opening into both kitchen and dining-room; and by putting the cupboards into the walls as partitions, there is much economy of space and labor. Nearly all the cupboards in the house are built in this manner, and we think it a very satisfactory plan; they need not open but on one side if not desirable to do so.

Our stove is so close to the dining-room that we need only the one fire in moderate weather (in the summer we use gasoline), and it takes but a few steps to place a meal of victuals on the table.

Our bath-tub for bathing is a luxury; for a wash-bench, a necessity; a convenient cutting-table; and as a lounge, it has rested many weary feet when we were watching dinner and could not go to some other room to lie down. Country people cannot all afford the luxury of a bath-room, with the necessary heating, cold and hot water pipes, so we poor people will take our bath-tub in the kitchen, where we always have a warm room when the water is hot; cold water is usually very close.

There could be a rubber hose attached to the kitchen pump, and extending to the bath-tub so that cold water could be pumped directly into the tub.

Our baking-table is a genuine comfort; with scarcely a step except to the oven, a whole day's baking may be done; for the sugar, flour, meal, spices, soda, cream of tartar and extracts are within arm's reach, and the table takes up no more room than any ordinary table which is usually found in every kitchen.

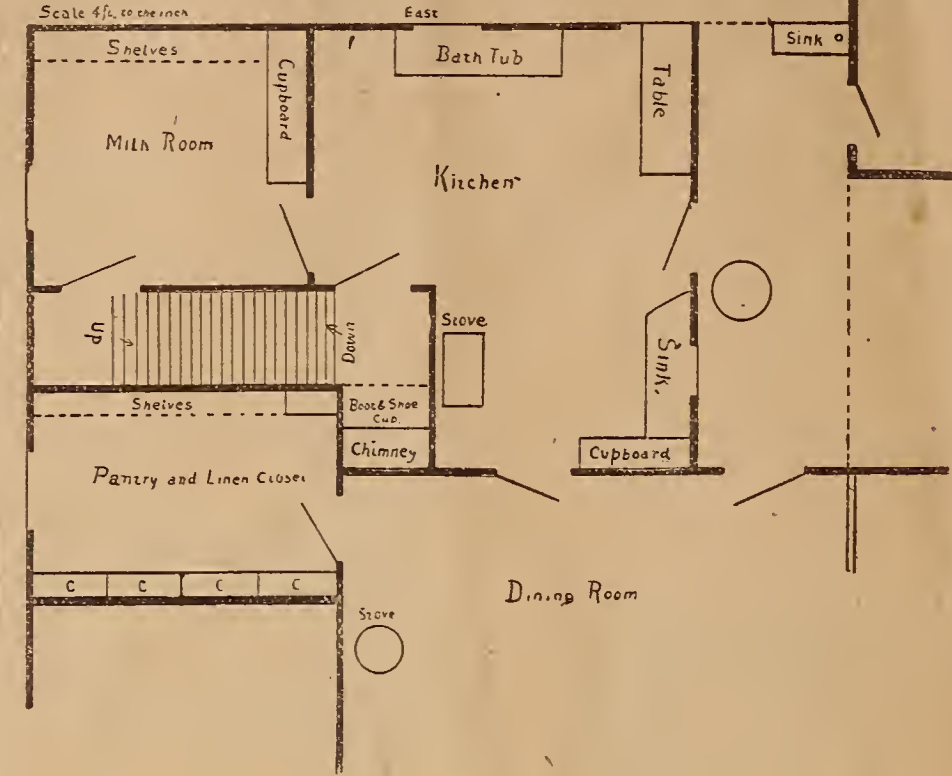
The boot and shoe shelves in the cellar-

way next the chimney are a blessing to the wife, who can now sweep without changing a row of boots and rubbers a yard long and three tiers deep.

The milk-room is handy; or if you do not keep cows for butter making, it is doubly handy as a store-room and closet for outside garments.

The "cupboard by the cellar stairs" has been described elsewhere by itself, and is certainly to be classed as one of the modern improvements of the age. You get all the

and Tip," "Raising the Pearl," "Left Behind," "Silent Pete." Then among others are, "Who was Paul Grayson," by John Habberton; "The Adventures of Jimmy Brown," by W. L. Alden, a fund of humor for the whole family. Mrs. Burnett's "Little Lord Fauntleroy," and "Betty, a Butterfly;" Lucy C. Lillie's "Nan," "Rolf House," "Joe's Opportunity;" "Princess Liliwinkins," by Henrietta Christian Wright. The Elsie books, by Martha Finley. There are a dozen of these, and they carry



No. 1. (Scale, 4 feet to the inch.)

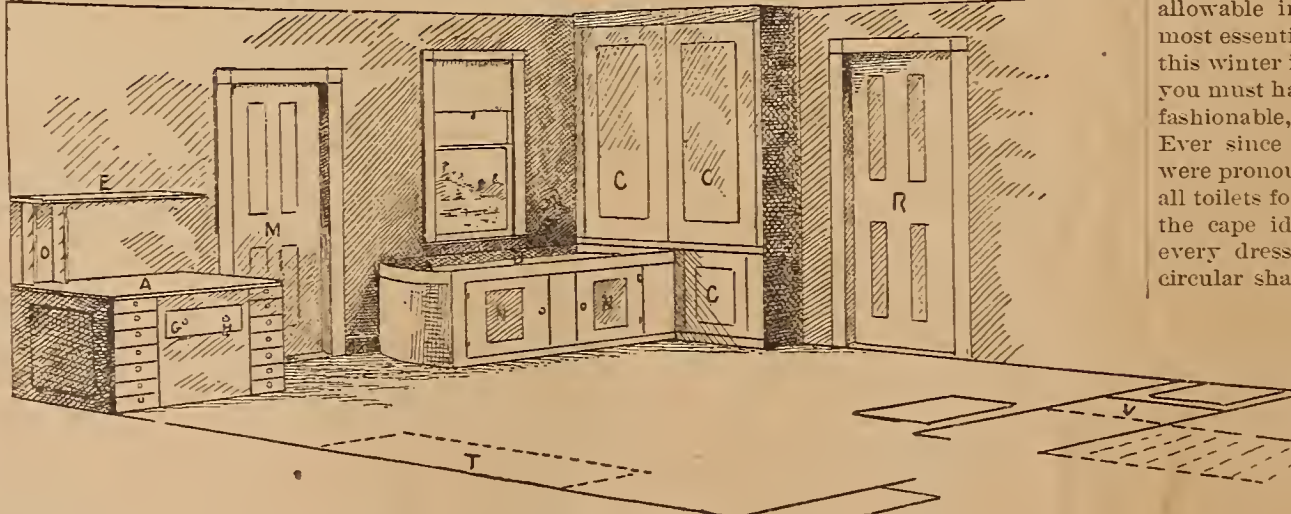
benefit of the cellar coolness without going down the cellar stairs, or very many of them. GYPSY.

LIST OF CHILDREN'S BOOKS SUITABLE FOR CHRISTMAS GIVING.

The world of children's books is so very inviting now it is not necessary for our children to read poor reading, if parents will only be careful to provide the good.

One of our most fascinating writers for children is James Otis. Those, young and old, who have not read his books for children, have great pleasure for themselves in store yet, and when the books come into the family I am certain the old folks will be the first to absorb them, as one of our aggrieved little ones remarked when *Harper's Young People* was introduced into the family. Papa came home with it and immediately settled himself with it. Little Lil, with her wistful, brown eyes, looked longingly in its direction, and finally said, rather tartly, "I think Mr. Harper put the wrong name on that paper; he should have called it Harper's Old People—papa and mamma always want it first." Papa laughingly handed the little girl her paper, and said, "Forgive me, dear, I always forget what an old fellow I am getting to be;" but I noticed after that they read it in partnership, as neither was willing to wait.

No. 2.—SHOWING SIDE WALLS ON THE SOUTH AND WEST. (Scale, 4 feet to the inch.)



No. 2.—SHOWING SIDE WALLS ON THE SOUTH AND WEST. (Scale, 4 feet to the inch.)

A—Baking-table, under which are the sugar, at G, flour, at H, and meal, in the drawer, L. The sugar and flour boxes open with drop-lids at G and H. O—Rack for butcher-knives. E—Shelf for spices, soda, cream of tartar and extracts. Under the shelf are nails for iron spoons, etc. The drawers on the left of the table, A, are: 1. Salves and rags for cut fingers. 2. Can wrenches and openers, tack-puller, corkscrews, etc. 3. Can rubbers and extra covers. 4. String. 5. Old flannel. The drawers on the right are: 1. Knives, forks and spoons. 2. Dish-towels. 3. Hand-towels. 4. Meal. V—Shelves in the cellarway for boots, shoes and rubbers. M—Outside door onto south porch. B—Sink, with force-pump at X. NN—Cupboards for Kettles and cooking-basins. CCC—Dish cupboards opening into kitchen and dining-room. R—Door to dining-room. T—Bath-tub.

Elsie on from her little girlhood to a grandmother, and I am not ashamed to say I have read most of them twice. Then there is a book called "The Story of the Bible," a very fascinating book to read to children Sunday afternoons. I think none of these books cost over a dollar or a dollar and a half.

*Harper's Young People* or the *Youth's Companion*, once introduced into a family, will be found impossible to give up, and as they come every week make the pleasure last the whole year through. The first is \$2 per year, the second \$1.75.

Don't waste your money in senseless toys that your children outgrow and that after awhile will fill up your house with things that must be confined to the lumber-room.

Two little girls I knew invested their babyhood money in a nice set of furniture for their own room, and had more pleasure in buying it than you could imagine.

In buying books, those a little ahead of them are better than those they will out-

poetry. For them supply Adelaide Proctor's poems, Longfellow, Tennyson.

I know of quite a little girl who has asked for "Hiawatha" for Christmas, her interest in it being awakened by her teacher reading it to her scholars Friday afternoons.

I can remember how I held my breath while a friend of my mother's read "Lalla Rookh" to me after I had gone to bed, to soothe me to sleep, but my interest grew in it to such an extent that I was too wide awake, and finally read it for myself, in surprise, too, that poetry contained such fascinating stories. And her thoughtfulness in directing me what to read opened the whole field of poetry to me, so that very early I had read many of the very best poets.

Children should never be left to select their own reading; and as you direct their reading, so you cultivate their thoughts.

There is a quantity of pernicious reading scattered about, and when one is waiting a few minutes here and a few minutes there, the temptation to read whatever is at hand is very great.

What better Christmas gift could you find for your young daughter or your daughter's friend than the HOME COMPANION? Could you invest fifty cents in a safer gift? And for the mother who gets so little time to read, where can she find so readily just what she wants as in the "Household" department of the FARM AND FIRESIDE? Let this Christmas help you to make wise selections for all your loved ones. CHRISTIE IRVING.

NO CHANCE FOR SANTA CLAUS.

She put out her foot just enough to disclose  
 The rather diminutive size of her hose,  
 And said: "My friends to buy presents are flocking,  
 And beautiful things they are certain to find;  
 Now, what thing is prettiest—tell me your mind—  
 I can possibly get in my stocking?"

He looked down at her foot, and looked up at her face,  
 And he bowed with a moderate measure of grace,  
 And said: "I'll be honest, but don't think me shocking;  
 They may get what they choose, but there's nothing, I swear,  
 Which can even remotely begin to compare  
 With what you now have in your stocking."  
 —Music and the Drama.

WRAPS FOR WEE PEOPLE.

Mothers may rejoice these days that fashion and common sense have clasped hands concerning the garments which protect children from winter weather. No more shivering little legs under short skirts. To be stylish, the cloak must be quite long. Only the little foot to the instep should be visible. The sleeves, too, are full and long, protecting the wrists, places where the blood comes very near the surface, and therefore is susceptible to changes of temperature.

As is generally the case, if you conform to one or two points of fashion, liberty is allowable in other respects. Perhaps the most essential thing to make a cloak stylish this winter is a combination of capes. One you must have, and if you wish to be very fashionable, two are better; three are best. Ever since last summer, when pelerines were pronounced the necessary adjuncts of all toilets for big people and little people, the cape idea has been incorporated into every dress and wrap. These are cut in circular shape, or they consist of straight goods gathered on a yoke.

The finish of the edges is a matter of taste. In some of the tailor-made garments the edges are simply cut with the silk lining neatly stitched near the edge. This is the most stylish of all finishes for smooth cloth, but it takes professional skill to do it properly. An edge of fur is prettier for a child's wrap, and a handy mother can put it on so as to look very well.

When we spoke of a multiplicity of capes, we should have said that if the cloth selected for a little cloak is shaggy, more than one cape will make the child look quite too bunchy, and as shaggy materials are in vogue, after all, one cape is apt to be all that can be worn. Let me describe a few wraps seen on the street or in the best stores.

The material of one is a dark red, with a zigzag pattern of shaggy black creeping over it. This is made long, with a shoulder-cape edged with black fur. A little red bonnet, trimmed with black fur, goes with the coat.

grow. I don't believe any one is too old to read any of Miss Alcott's books. "Little Men" and "Little Women" will never grow old; they will last like "The Arabian Nights" and "Thaddeus of Warsaw" and "Pilgrim's Progress," all of which should be read in the heyday of youth, before life has become too practical.

There are histories for those who have a fondness for it, and often a child shows intense liking for it early in life. For such a child I should see that he had the very best. Girls often develop a great fondness for

The same material in white, with the pattern of zigzags in brown, is made in nearly the same way. A brown velvet bonnet is intended to wear with this, and an artistic mother will see at once that such a suit is becoming to a golden-haired girl.

Blanket flannels in plaids are used abundantly, and these are simply hemmed. The same material, with spotted figures, makes a good—yet not too good—coat. Very pretty goods of this kind is of red, with white and black spots placed close together. There is no more brilliant combination for a little brunette. Make her a bonnet of the same, with a white lace frill around her face. The few black curls over the forehead and the black eyes will look unusually sparkling.

The wraps intended for little boys have the capes a trifle longer, generally cut more plainly, and not edged with any fancy trimming.

Besides fur, cords are used as an embellishment, when a more simple and less expensive edge is desired.

Dame Fashion certainly has a tender side for economical mothers, for very frequently she seems to devise something for the purpose of making over and using up old pieces of finery. Now she says velvet sleeves are quite allowable in a child's cloak. Changeable silks and velvets are very stylish this season, and the very prettiest little wrap ever seen is of dull-blue cloth, made with two double box-plaits, both in front and back, which hang straight the whole length of the little person. The sleeves are of changeable blue-and-green velvet, held in at the wrist with dainty bows of velvet ribbon. There is a little turn-over collar of cloth, with another one standing. Between them the same ribbon is prettily twined and knotted in front. The lining is changeable, blue-and-green

CHRISTMAS CHIMES.

I. Little Penelope Socrates, A Boston maid of four, Wide opened her eyes on Christmas morn And looked the landscape o'er. "What is't inflates my bas de bleu?" She asked with dignity; "'Tis Ibsen in the original; Oh, joy beyond degree!"

II. Miss May Cadwallader Rittenhouse, Of Philadelphia town, Awoke—as much as they ever do there— And watched the snow come down. "Well, I'm glad that Christmas has come again," You might have heard her say, "For my family's one year older now Than it was last Christmas day."

III. It was Christmas in giddy Gotham, And Miss Irene de Jones Awoke at noon, and yawned and yawned, And stretched her languid bones. "Well, I'm sorry that it's Christmas; Papa at home will stay, For 'change is closed and he won't make A single cent all day."

IV. Oh, windily dawned the Christmas In the city by the lake, And Miss Arabel Wabash Breezy Was instantly awake. "Ah! what's that in my stocking? Well, in two jiffs I'll know!" And she drew forth a grand piano From away down in the toe.

—Boston Courier.

THE FAMILY COMB.

Barbarous ideas are fast dying out and being relegated to the past, yet it is astonishing when we contemplate the room for reformation. In some families the affection lavished upon an old, half toothless,

The daily papers are full of comments upon the now universal custom of giving presents at Christmas, but while they often say that the art of giving has become a science, they seldom recognize the fact that they are stating a serious truth in these words. Science is "truth ascertained," and the science of giving implies a knowledge of the principles and laws which pertain to its nature. As we learn the laws which, of necessity, govern true giving, and the facts upon which its principles are based, we become adepts in the science of gift-making, which is not merely a matter of a shopping list and the length of one's purse.

Giving is generally completely misunderstood, although this seems like a sweeping statement. But a true knowledge of the subject, a thoughtful study of its laws, shows us that only one gift is possible, and that is part of oneself. Most of us regard the giving of a present as a lessening of our obligations. We send a gift as a substitute for ourselves, but the vacuum remains unfilled, and while we have not benefited the recipient one whit, we have injured our own natures by this juggling with truth, this attempt to reverse a law of true giving. We are unwilling to fit ourselves into the niche that duty has formed for us, but throw our so-called gifts into the vacant space, press them into the corners and crowd them in, and then turn our backs upon the pitiful spectacle. It is as impossible to fashion a real gift from anything outside of ourselves as it would be to perform any other feat contrary to inherent laws.

Does all this sound very unpractical, and as if all material expression was to be despised? All must hope, on the contrary, that the custom of giving presents at certain seasons will never decrease, if they are to be true gifts. Is a letter the paper and ink with which it is written, or the thought

high that those who bring true gifts in their hands are well nigh disheartened at the division that separates them, too, from those they seek. No gift can find its way through this artificial barrier until those on both sides who would give themselves to one another shall slowly, painstakingly, and with intelligent care, remove the obstacles bit by bit, and so reach one another in spite of difficulties.

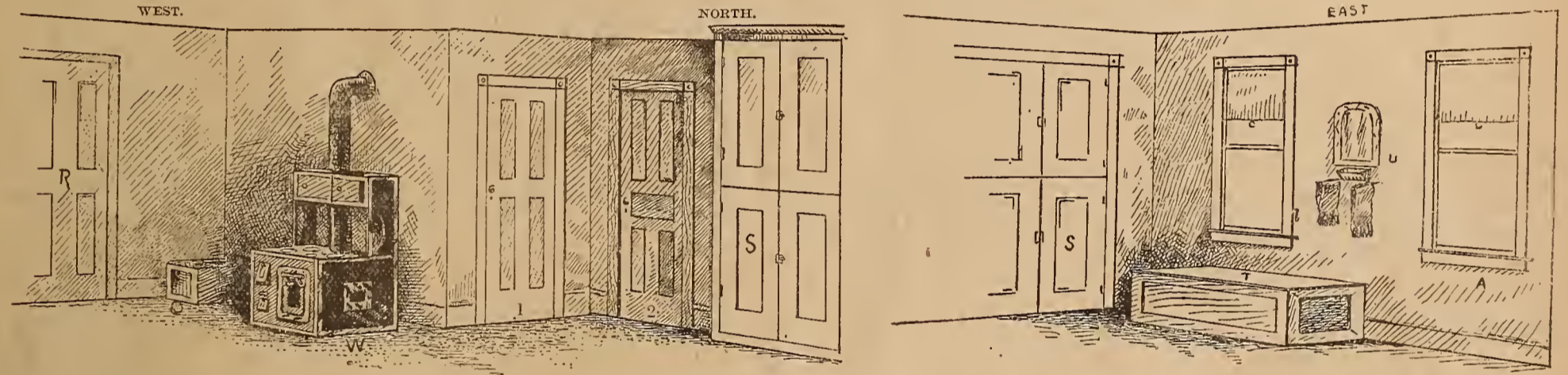
"Every good gift and every perfect gift to us men is from above, and cometh down from the Father of Lights" with his message, which is never omitted, and it is his message which makes these gifts perfect. The season of giving is never over, and in the new year, which is his gift to us to-day, we can learn no better lesson, no surer way to happiness than by earnest study of the science of giving.

Not to God only, but also to our brother man, must we give our hearts with our offerings, if we would not keep back part of the price.—Far and Near.

RIGHTS OF THE LITTLE FOLKS.

If I had my way, I would make the treating of children improperly a criminal act, with death for the penalty. I think they ought to have their rights, and their rights are love, sweet words, kisses, toys, candies, and whatever the heart of a young one may yearn for.

Do I disapprove of whipping? Well, I would never whip a little girl; it destroys her self-respect, but a judicious dose of the slipper occasionally administered to the boy will do him good. But it must be mild, and once the whipping is over he must be forgiven and his sin forgotten. He mustn't be nagged at. If I were a boy and the entire household nagged me, as I have seen boys nagged, I would poison them. Which only goes to prove, as few boys do this, there must be something au-



No. 3. (Scale, 4 feet to the inch.)

W—Range that sits close to the wall; room for wood-box in the corner at O. 1—Door to the cellar stairs. 2—Door to the milk-room. S—Cupboard for baking-tins and baked food. R—Door into the dining-room. U—Hanging clothes-bars; above is comb-case and looking-glass. T—Bath-tub with cover which lifts back, and is held up by a strong hook fastened to the

window-casing. With the cover down, it is used for a wash-bench on Monday. It forms a good table to cut out sewing. Throw down a lap-robe and it will do for a lounge. Being next to an outside wall, the waste-water is easily carried off by drain-pipe.

silk. This is a very expensive garment, but take a hint from it and see if you can utilize that piece of velvet which was a pannel in the skirt of your wedding-dress.

For little boys in kilts or perhaps older, miniature copies of their father's silk hats are worn. They give the little fellows a piquant expression. The crowns are rather low and broad. One in dark red, on a golden-haired boy in black suit, with white collar and cuffs, made him as picturesque a youngster as lives in the present or the past.

Another style of hat is in imitation of George Washington's. Take any wide-brimmed felt, turn it up on three sides, trim it with a rosette and a rooster's feather, and there you are, as stylish as possible! KATE KAUFFMAN.

THINGS THAT DO NOT HURT CHILDREN.

No child was ever made worthless or bad by too much loving kindness.

No child—that is, no girl child—was ever made anything but happy by a pink party frock.

No child was ever made a liar when he had the sympathy and confidence of his mother!

No child was ever made more than a little achy by eating the contents of his stocking early in the day.

No child was ever made more than a little faint by absorbing the blue paint that distinguishes Sheu from Han.

No child was ever made unbelieving when he was told all the beautiful nursery stories of the little child who came at Christmas, and the good that he did.

WHEN THE MUCOUS SURFACES of the Bronchia are sore and inflamed, Dr. D. Jayne's Expecto- rant will afford prompt relief. For breaking up a Cold or subduing a Cough, you will find in it a certain remedy.

coarse comb is remarkable. Why, nobody wants anybody else to claim it as his individual property, but instead, it must be made a joint possession of the family.

Susan combs her wavy tresses with it; John pushes its remaining teeth through his short locks; grandfather uses it, and so does grandmother; father and mother must not neglect their opportunities. In short, this valuable article is called upon to do duty for golden hair, black hair, brow hair, gray hair and red hair.

All this is sad enough, but when a neighbor loses hers and sends in to borrow the comb, it becomes time for this long-suffering article to cry aloud in rebellion.

Let the day come speedily when a recognition shall be made of the eternal fitness of things, when the cry, "Where is the comb? I can't find the comb!" no longer breaks the peace of the household, but is forever hushed, when each member of the household shall point with proud finger to his own brush and comb and say: "These are my jewels." M. D. S.

THE ART OF GIVING.

We have just passed through the season of giving, when much of our time and thoughts have been spent upon the presents we have given to our friends or have received from them, and now, like the child who sits undecided with a circle of new toys about him, we pause for a moment to choose from among our own those few precious gifts which shall be most dear to us in the new year. The decision does not occupy much time. The baby fixes upon his favorite playthings and carries them off to bed with him, but we gather closely to us enough to fill our hearts, for by their capacity, and not by handfuls, do we measure what we wish to bear with us through the coming months.

of the person from whom it comes? Which is the gift, the article sent or the message which it conveys to us from our friend? Is not the article unchanged until something of the giver is added to make it a gift? If the present comes with no message from the sender, if it is only a soulless commodity which the giver tries to deceive himself and you into thinking is an adequate equivalent for the message he wilfully withholds, then you would be better without it, even if it seems to be a material aid, and the sender has increased, not lessened, his responsibility toward you.

The evils of pretended giving are not negative, but positive, as are all sins against truth. It produces a false relation between the giver and the recipient, and lessens their sympathy for each other and their power of mutual comprehension. Some people have a bad habit of dividing the world into rich and poor, with no regard to the fact that these are relative terms. Then they preach about the duty of the rich to give to the poor, and of the poor to receive such gifts gracefully and gratefully, meaning material benefits without the message from friend to friend. The "rich man," whoever he may be, is to escape the duty and privilege of right giving by this false giving, which injures both himself and the "poor man," who is often pointed out as such by these same blind guides.

Instead of giving himself—his time, his intelligence, his love—he is told to give his possessions, which are worse than worthless without him, unless, as it sometimes happens, they pass through the hands of some one else on the way, whose life is put into them and transforms them.

False gifts, which the thoughtless or selfish world hastens to claim from the rich, are piled up between them and their brothers until the barrier is made up so

gelie in them, whether they are big or little. Now, just remember what I say, won't you? And get all the loveliness you can for the small boys and girls, for the dogs and the cats that abide in the nursery. And don't tell them that you give them a Christmas gift because they have been good; give it to them whether they have been good or bad, because it's Christmas.

That's the spirit to put in your pocket-book when you go out to buy the Christmas things; or at least that is what is thought by—Bab.

A WOMAN'S EXCHANGE.

A lady, compelled to provide a livelihood for herself, found she could make and furnish the following articles to customers, and also make it profitable to herself:

- Beef broth for invalids, 18 cents a quart;
- beef stew, 12 cents a quart; vegetable soup, 12 cents a quart; tomato soup, 12 cents a quart; pea soup, 10 cents a quart; potato soup, 12 cents a quart; fish chowder, 16 cents a quart; clam chowder, 16 cents a quart; corn chowder, 16 cents a quart; evaporated milk, 7 cents a half pint; pressed beef, 16 cents a pound; spiced meat, 16 cents a pound; cracked wheat, 5 cents a pound; oatmeal mush, 5 cents a pound; corn mush, 5 cents a pound; boiled white hominy, 5 cents a pound; boiled yellow hominy, 5 cents a pound; Aladdin hash, 8 cents a pound; rice pudding, 12 cents a quart; Indian pudding, 15 cents a quart; health bread, small loaves, 5 cents each; white bread, small loaves, 5 cents a loaf; baked beans, 14 cents a quart.

Monday, vegetable soup, pea soup. Tuesday, beef stew, tomato soup. Wednesday, clam chowder, pea soup. Thursday, beef stew, vegetable soup, bean soup. Friday, fish chowder, pea soup. Saturday, beef stew, tomato soup.

**Our Household.**

Drip, drip, drip! Thus steadily fell the rain,  
Till the earth was damp as a water-logged  
ship  
Half sunken in the ocean's gray plain.  
Oh, woe for the maiden whose gown  
Is built with a train a la mode,  
For in the hard work of cleaning the town  
She bears a great share of the load.

**TOILET CONVENIENCES AND CHRISTMAS GIFTS.**

"My lady has a looking-glass—a pretty little thing  
All hung with dainty ribbon and bedight with  
silken string,  
That rests upon her table in a fluffy nest of  
lace,  
And, apathetic, mirrors back the fairness of  
her face.  
Ah, lucky glass, it puzzles me how you can  
seem to be  
So cool and unresponsive when she stops so  
oft to see  
The radiant reflection that you show her,  
sweet and true.  
And the witching blushes mantle as she bends  
to smile at you.  
Yes, and I've always marveled that a lady fair  
can be  
So sweetly unaffected and so modest, too, as  
she;  
For surely none will blame her on the score of  
vanity,  
While yet there is a looking-glass, and she has  
eyes to see."

—George Percy Taggart.

SO MANY quaint toilet accessories  
have been revived from the  
past; the little oblong swing-  
ing mirror, or the square one,  
which can be attached to a  
wide, long toilet-table, and  
form a very pretty piece of  
furniture for a young lady's  
room.

Nothing will ever be daintier  
than the dressing-table got  
up in diaphanous white goods over a deli-  
cate color, and trimmed with ribbons.

The numerous things in china which  
form the decorations, as well as being very  
convenient also to hold all the necessary  
toilet appliances, come in all sorts of beau-  
tifully decorated china, or plain to be dec-  
orated by the buyer. The china tray for  
pins, hair-pins, brush and comb, is a very  
handy affair.

HAIR-PINS.—These are made in imitation  
of tortoise shell in celluloid, that are really  
prettier than the shell. Ladies should dis-  
card the wire pin, as it eventually breaks  
the hair. They come both light and dark.  
A lady with dark hair should not wear the  
light pins, nor gold wire pins.

CHOCOLATE SETS.—This favorite beverage  
is used once a day by some people, and

to \$2.25. A lady stopped me on the street  
some little time ago to know where I got  
mine. At that time there were none on  
sale, and I had worn mine two years, but  
they can be had now, almost anywhere. A  
larger hand-bag made of leather and silk  
comes for shopping purposes. These are  
inexpensive, costing from \$1.25 to \$1.50.

SILK SLUMBER-ROBES.—I do not know  
of a more acceptable gift to an invalid than  
one of these couch robes, which are woven  
of refuse silk, and are in bright Roman  
colors, and are just a good weight for the  
purpose—together with an eider-down pil-  
low, the comfort of which you will never  
be conscious of until you try to do without  
after having one. The robes are \$1.50 and  
\$1.75, and the pillows from seventy-five  
cents to \$2—depending on the size.

Eider-down comforts are being brought  
on, too, as low as \$5, and are a very superior  
covering, being very light as well as  
warm.

LINEN.—The endless variety of articles  
in linen are too numerous to mention, but  
your jewel-box, pin-tray, handkerchief  
and glove case can be made of embroid-  
ered linen, and when soiled are easily  
laundered. The stamped linen pieces can  
be had from eight cents to \$1, according to  
size.

ROMAN EMBROIDERY still holds its own  
as a decoration for linen, and nothing is  
prettier. While silk floss is the most suit-  
able for working, as it launders well, as  
also does the bright yellow. The picot  
around the edge is made by inserting a  
large pin between every other stitch and  
then withdrawing it when the stitch is  
made. The cross-threads can be just the  
heavy silk. It must all be cut out after it  
is washed and starched stiff. To keep the  
work perfectly smooth it should be basted  
in embroidery hoops. These can be made  
of fig-boxes and the cover, by cutting the  
rim of each about an inch wide and cover-  
ing them with muslin; they must slip into  
each other singly to hold the work, which  
baste to the inner hoop.

PLATE-MATS.—Very pretty mats are made  
of white felt pinked around the edge to put  
between the best china plates as they are  
piled in the cupboard. This prevents one  
from marring the other, as they are apt to  
do when placed one in another.

COMPORTS.—This old-style dish is being  
revived to the trade, it was always a  
graceful dish upon the table. Let it contain  
fruit or flowers, and those of small size are  
very nice for jelly.

BAKING-DISHES.—My attention was di-  
rected to a very attractive dish suitable for  
serving baked beans, puddings, scalloped  
oysters or potatoes upon the table. Every  
housekeeper knows how it spoils all of  
these dishes, as well as baked macaroni, to

Water tastes a different thing out of one of  
these.

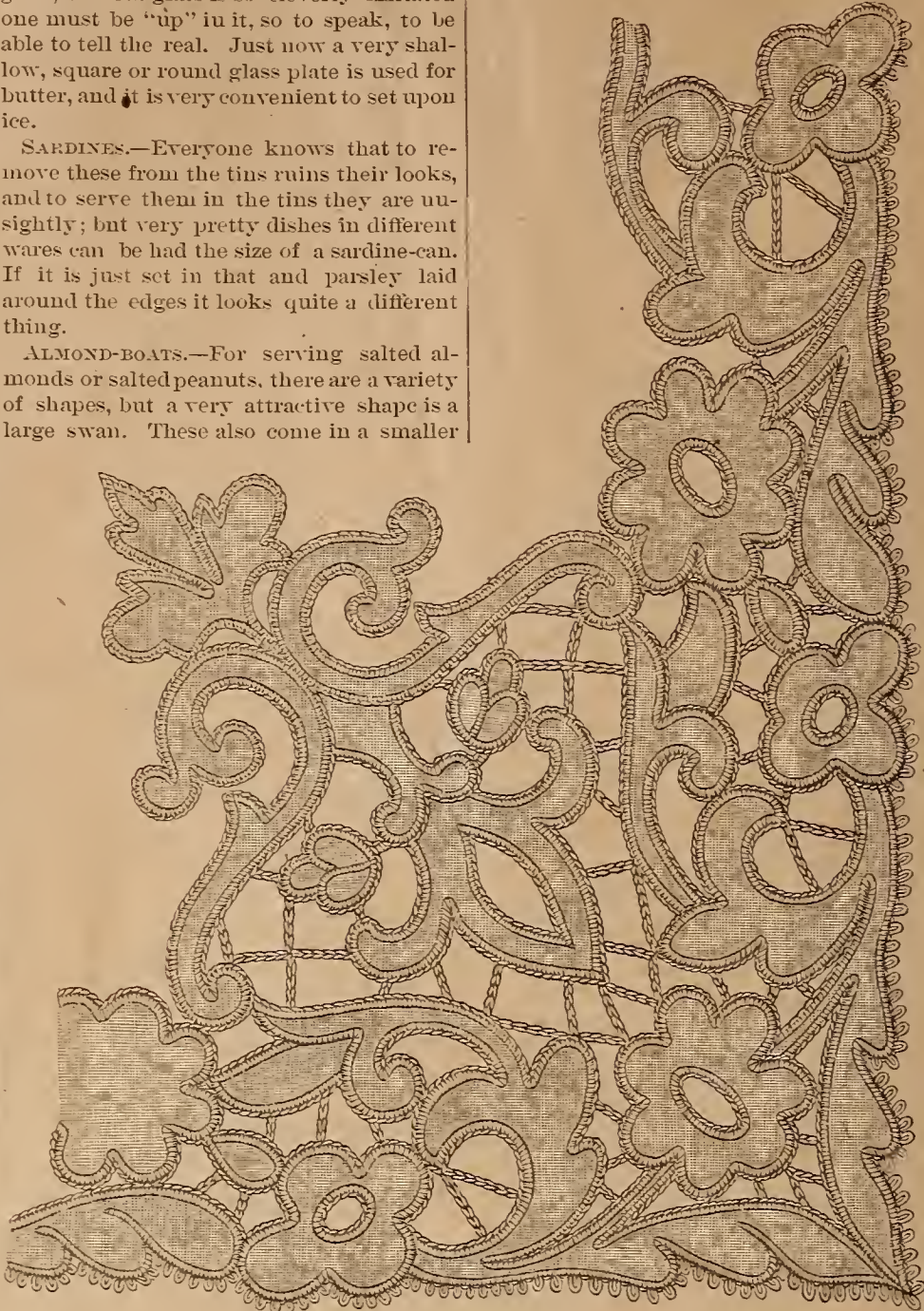
CUT GLASS.—This is the fad of the day,  
being more desired as a wedding pres-  
ent than silver. There are many things  
that look much more appetizing served in  
glass, but cut glass is so cleverly imitated  
one must be "up" in it, so to speak, to be  
able to tell the real. Just now a very shal-  
low, square or round glass plate is used for  
butter, and it is very convenient to set upon  
ice.

SARDINES.—Everyone knows that to re-  
move these from the tins ruins their looks,  
and to serve them in the tins they are un-  
sightly; but very pretty dishes in different  
wares can be had the size of a sardine-can.  
If it is just set in that and parsley laid  
around the edges it looks quite a different  
thing.

ALMOND-BOATS.—For serving salted al-  
monds or salted peanuts, there are a variety  
of shapes, but a very attractive shape is a  
large swan. These also come in a smaller

the leather covering. Any boy who is at  
all skilful with tools may make this use-  
ful article as well, perhaps much better,  
than his sister.

DECORATED PLATE-HANDLE.—The house-  
keeper having pretty plates often likes to



FOR TABLE-COVER.

size for salt. Fashion is returning to the  
old-fashioned open salts with a salt-spoon.  
Some of us have our grandmother's salt-  
spoons, which it is time to bring out again.  
The new ones are so diminutive as to seem  
like mere doll-baby spoons.

KNIVES.—Pearl-handled and china-  
handled fruit-knives are an addition to  
ones treasures, and no housewife seems to  
have too many in the way of table ap-  
pointments. Linen, china and glass are  
all dear to every woman's heart, and it is  
pleasant to sit at a table perfect in its ap-  
pointments, and it does not make much  
more trouble to have it right along than  
only occasionally for company.

TABLE-COVERS.—Somewhere in your be-  
longings perhaps you have one of the linen  
dresses we used to wear so much. Utilize  
it now for table-covers, working in it  
shades of browns, in the large flowers used  
for borders, and cut out upon the  
lower edge.

A KEY-BOARD.—A handsome  
key-board that hangs in the hall of  
a house is about a foot long, three  
inches wide, and an inch thick. It  
is made of white wood, and cov-  
ered with dark green leather  
ornamented with a simple design  
through the center and a border  
of brass and silvered nails. Scrolls, or a  
number of small circles a little distance  
apart and joined by a row of nails, may  
be used for the design through the center.  
The nails with cut, smooth heads  
are to be had at most hardware stores.  
Small hooks to hold the keys are set along  
the lower edge at equal distances apart, just  
above the border. A nail-guard should be  
put over the heads of the nails while work-  
ing, that they may not be bruised. It is  
the best plan in doing this work to mark  
the design on paper. Lay the paper on the  
board, and then with an awl follow the  
lines of the pattern, making holes just  
where the nails are to go. If small nails  
are to be used anywhere in the design, do  
not drill as deep holes as for larger ones.  
The effect is prettiest when the brass and  
silver nails are combined. The board is  
hung with loops of brass screwed to the  
back of the board. A panel of stained  
and polished wood may be used without

use them to pass around cake or fruit.  
There is a very convenient handle that  
comes, which fits any plate. These the  
ladies decorate with satin ribbon in delicate  
colors and use with any pretty plate. It  
also makes a very nice card-receiver. It is  
illustrated in this number, in the group  
with the drawn-work scarf; this scarf is  
the work of a lady seventy years of age,  
showing what beautiful work can be done  
late in life.

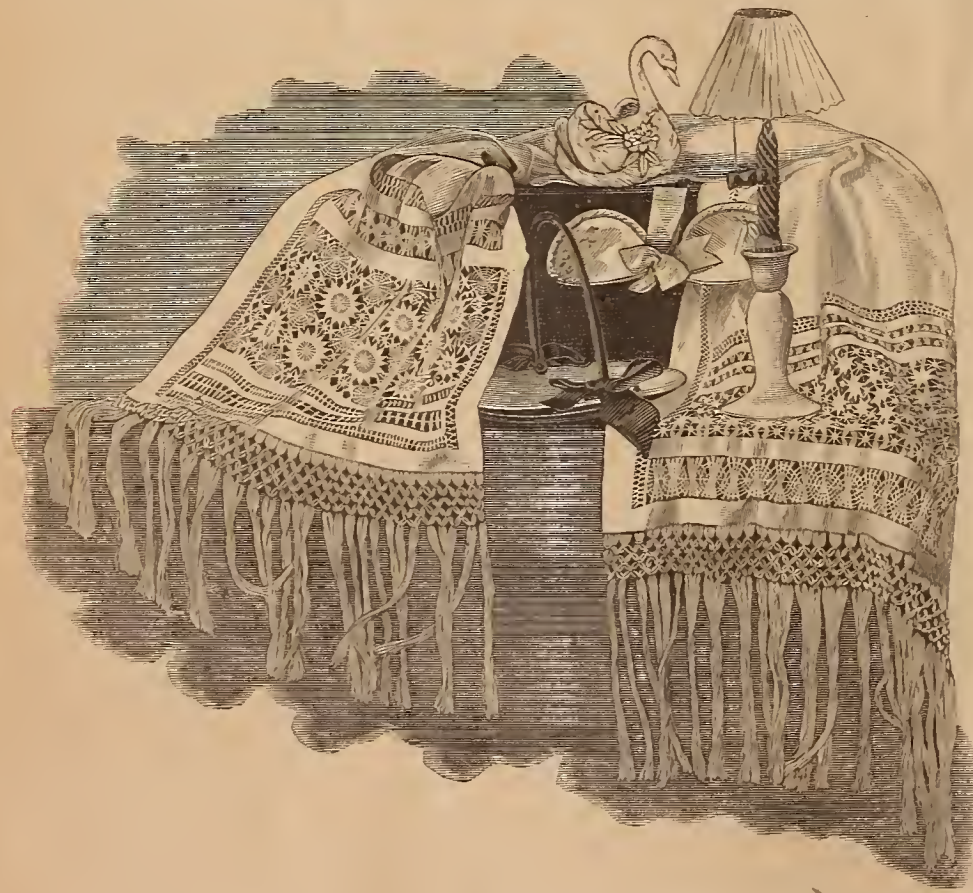
With the chocolate set is a very delicate  
creamers and sugar-bowl, which comes in  
two sizes, at prices \$1.65 and \$2.25. The  
plain white to be decorated at home, or the  
already decorated, which is done in very  
delicate pink or blue.



CHOCOLATE SET. SARDINE-DISH. SUGAR-BOWL  
AND CREAMER.

HAIR-PIN HOLDER.—Hanging over the  
linen throw is a very pretty hair-pin  
holder. This is made of pale pink water-  
color paper, with a spray of flowers and a  
few fine hair-pins painted on it. The back  
is covered with white kid, and it is trimmed  
around the inside with some of the kid  
braided. It is caught through the middle  
with ribbon, a bow and loops to hang it  
up with. I hope some girls will be able from  
this article to find something pretty for  
everyone. LOUISE LONG CHRISTIE.

Persons with a taste for traveling, but who  
are unable to gratify that taste, will find a  
mine of pleasure and instruction in the  
Magnificent Portfolio of Superb Photographs  
which we offer in this issue. Tourists pur-  
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ing 50 cents for a year's subscription to this  
paper. This is the most liberal offer we have  
ever made; do not overlook it. See page 19.



SCARF. PLATE-HOLDER. ALMOND-BOAT. HAIR-PIN HOLDER. CANDLESTICK.

very convenient-shaped pitchers, cups and  
saucers come for serving it; the cups them-  
selves, coming in all prices, from sixty  
cents to four and five dollars apiece. The  
shapes are very varied, but all being tall.

SATCHELS.—The incapacity of the present-  
day skirts for containing a pocket has re-  
vived the small chatelaine pocket of chamois  
and leather, which can be hooked onto the  
dress belt; one who has worn one would not  
be without it for convenience. They come  
in prices varying from sixty-five cents

remove them from a baking-dish to another.  
These dishes are of a dark gray pottery,  
and while fire-proof, are not unsightly. A  
cover accompanies them, which answers for  
another dish. Another set of china has a  
baking-dish which sets into another more  
ornamental, and this in turn upon a shal-  
low plate. It serves as a baking-dish, and  
the ornamental one can be further used for  
ice-cream and cake.

GLASSES.—These come in tall, thin shapes  
and are more preferable than a thick glass.















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in fact, the wealth of the nations of the world in all that makes them of interest to the student, traveler or artist, has been captured with a camera and transferred to the pages of this book. The photographer's camera makes no mistakes; it gives an exact likeness of the object, and by our process of photo-etching, an exact reproduction is secured. The magnificent illustrations in our book are as precise, exact and natural as the photographs themselves, showing all details of light and shade just as nature presents them.

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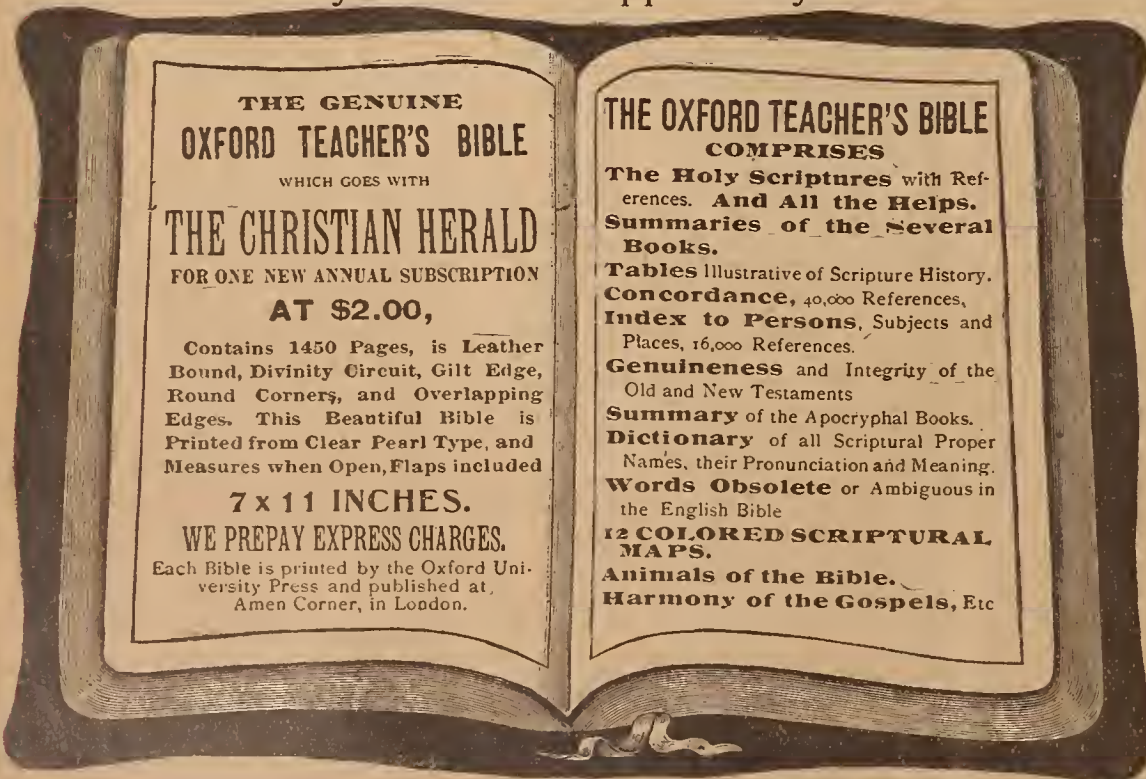
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# FARM & FIRESIDE.



Ferry Holway

22 PAGES, WITH SUPPLEMENT.

EASTERN EDITION.

VOL. XVI. NO. 6.

DECEMBER 15, 1892.

TERMS (50 CENTS A YEAR. 24 NUMBERS.)

The Circulation of FARM AND FIRESIDE this issue is

**251,200 COPIES.**

The Average Circulation for the 24 issues of the last 12 months has been

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Farm and Fireside has More Actual Subscribers than any Agricultural Journal in the World.

## Current Comment.

SINCE its formation two years ago the association of students of the school of agriculture in the Ohio state university has labored diligently to cultivate among the farmers of the state a greater interest in the school. In a circular-letter recently issued the association announces that its work has been well rewarded. The beginning of the present college year found as many new students in the first year of the agricultural courses as there are in the other four years of these courses. The university offers a free scholarship in agriculture each year to each county in the state. Some counties are yet without representatives in the school of agriculture.

They are urged to make appointments immediately, that the students may begin school in January or April. Every boy who intends to farm should have, and can get at the university, a thorough practical and scientific education. With a free scholarship, fifty dollars or one hundred dollars cash, and with push and energy, he may reasonably expect to get through.

The letter states that "there is not a legitimate and honorable employment under the sun which to-day offers better compensation to educated, earnest men than agriculture. It is a fact that there are as many calls at good salaries for men educated in the school of agriculture as for the graduates of any other school of the university; and the success of our graduates who are on farms of their own leaves no doubt as to the profit, in taking an agricultural course, to those who intend to farm for themselves."

Catalogues and full information concerning the school of agriculture will be furnished, on application, by Prof. Thomas F. Hunt, 101 King avenue, Columbus, Ohio.

FROM the fourth annual report of Secretary Rusk, of the department of agriculture, we publish the following abstract:

Of the more than one billion dollars representing the exports of our domestic products for the past year, nearly 80 per cent consisted of agricultural products, thus not only making the United States the creditor of the world for a sum exceeding \$200,000,000—the excess of our exports over imports—but relieving our home markets from a surplus product which would otherwise have reduced prices to a point below cost of production.

In spite of an aggregate increase of imports, there is a reduction in the proportion of imports consisting of products which compete with our American agriculture, for while in the fiscal year ending in 1889,

54 per cent of the imports were competing, only 44 per cent of our imports for the past fiscal year did so compete. The imports competing with the products of our own soil are still far too great. Forty million dollars' worth of animal products, 67 million dollars' worth of fibers, 27 million dollars' worth of hides, 30 million dollars' worth of fruits and wines and 25 million dollars of raw silk are instances of products imported, which could, with proper encouragement, be produced in our own country. He declares these figures to indicate the main ultimate object of the work of the department, which he defines, in brief, as "the closest study of all markets abroad which may be reached by our own agricultural products, accompanied by persistent and intelligent efforts to extend them, and substitution in our own markets of home-grown for foreign-grown products."

Since his last report, prohibitions against American pork products have been withdrawn in all countries where they existed, and 40 million pounds of inspected pork, which without inspection could not have found a market abroad, have been exported. Comparing the export trade for May, June, July and August of this year, as a period in which the inspection can be clearly noted, with the same period last year, he notes an increase in quantity shipped this year of 62 per cent, at an advance in price which increased values for the same period by 66½ per cent. He compares prices for September, 1892, with those of September, 1890, the year before pork inspection was adopted, and shows an increase of 80 cents per hundred pounds in favor of this year, an average of \$2 per head on every hog sold, an increase in price highly gratifying in view of the large increase in the number of hogs marketed.

Our inspection laws have restored the confidence of foreigners in the healthfulness of our cattle. Live cattle exports in 1889 amounted to 205,000 head, whereas in 1892 we exported 394,000, at an increase in value averaging \$8 per head. A comparison of Chicago market quotations for September, 1892, with September, 1889, shows an increase in the value of the cattle sold, amounting to from \$4 to \$15 per head, according to weight. On the aggregate of cattle sold in a single year, this would amount to 40 million dollars.

The secretary says of the work of his Indian corn agent in Germany, that many difficulties attended the introduction of a new food heretofore generally regarded in Europe as not suitable for human consumption. A mixed corn-and-rye bread was found necessary to secure keeping qualities in a country where all bread is made and sold by the bakeries, and corn-grinding machinery purchased in America is now in use in several mills in that country; one result is the maintenance of the price of corn in the face of largely increased exports, conditions which have heretofore always accompanied a great depreciation in price. The corn exports for 1890, the only year in which they have equaled those of the present year, brought the price down to a fraction under 42 cents a bushel at port of shipment, against a fraction over 55 cents per bushel this year, a difference aggregating, on the exports of the past fiscal year, not less than 10 million dollars.

Secretary Rusk notes the reduction of the cotton area in this country as a movement in the right direction, and calls attention to the rapid increase in our imports of raw cotton. He has undertaken experiments with imported seed, to secure the production of a home-grown cotton which will

meet all the requirements for which Egyptian and other cottons are now imported.

With reference to our cereals, he attributes the excessive anticipations formed regarding the price for wheat throughout the crop year of 1891 to failure to appreciate the changed conditions now surrounding the production and marketing of the world's wheat crop. "Taking the world throughout, the fat crops," he says, "more than equaled the lean crops of 1891, so that there was actually more wheat grown in that year than in 1890." Even the exports from Russia, where famine existed in so large a section, and where exports were for a time prohibited, amounted to 105,000,000 bushels, nearly as much as the average for the past four years, and more than the average for the past ten years. He says: "The conditions which have at last overwhelmed cotton growers now confront wheat growers." Hence, the American farmer must reduce the wheat acreage and so bring production down to the normal demand.

Of barley, he says: "The domestic market, which has hitherto absorbed 10,000,000 bushels of foreign barley, is now reserved for the domestic product, and our acreage and production have increased and been disposed of at good prices."

The experience of the department in the domestic sugar industry for the past year confirms his former reports and shows that domestic sugar can be produced with profit to the grower of the crop and to the manufacturer, provided that the conditions of culture and manufacture insisted upon by the department are secured.

The secretary indulges in a retrospect of the work of the department under his administration, which he believes to be appropriate in submitting his last report. In it he briefly refers to the specially important measures undertaken and carried out during this administration, and the large increase in the divisions of the work, and the important part which the new divisions have played in extending the usefulness and maintaining the efficiency of the department. Referring to the economy with which he has endeavored to carry out his comprehensive plans, he says that after deducting the appropriation for the weather bureau, which is not an increase, but a transfer, and the appropriation for the state experiment stations, which is not under his control, the total sum remaining of the present year's appropriations barely exceeds the appropriations of the department less that for the stations for the fiscal year ending in 1889. He does not justify this restriction of the appropriations within narrow limits, but he does claim credit for what has been accomplished with the limited appropriations at his disposal.

The rainfall experiments, he says, are being made as Congress directed; but the facts in his possession do not, in his opinion, justify the anticipations formed by the believers in this sort of artificial rain-making.

He insists upon the necessity for the universal inspection of all animal food products, applicable not only to products intended for interstate or export trade, but entering into domestic consumption everywhere. "Americans," he says, "are large meat-eaters, and need the most healthful kind of food." "Science," he adds, "is revealing daily more intimate relations between the diseases of the human and animal race, and the insidious means by which they are communicated from one to the other. Against the possibility of such results we must protect our people."

Secretary Rusk also points out that there are many reasons making a national standard of grain highly desirable, and concludes that some system of national inspection and grading must be established in the interest of the grain growers, under the control of the secretary of agriculture.

He concludes by declaring the work of the department hitherto to have been but foundation work, and says that since he has been in charge of it he has sought at all times, while preparing the foundation, to bear in mind the plans for an ultimate superstructure of which every American farmer and citizen will feel proud, and that he will be quite satisfied if, in the future, his share of credit in the history of the department will be that he was instrumental in laying a broad and lasting foundation.

As his last word, the secretary expresses his profound appreciation of the cordial sympathy and broad intelligence with which the president has uniformly, throughout his administration, heeded the needs of agriculture, and he predicts that the people of this country will learn to appreciate more and more the fact that the first administration during which the department of agriculture held the rank of an executive department of the government was presided over by a chief executive who never failed to appreciate the importance of agriculture, its dignity and its value to the country at large.

THE agricultural college of Pennsylvania is making praiseworthy efforts toward the popularization of agricultural instruction. In a circular just sent out it announces an "Agricultural Chautauqua," which provides for a course of home reading upon agricultural and horticultural subjects, to be pursued under the direction of the college, and covering three groups of subjects—agriculture, animal husbandry and horticulture. Five standard books have been selected under each group, to be read by students at home. In short, the college offers to those who cannot take advantage of its agricultural instruction, aid in carrying on study at home, according to the following official program:

1. A carefully-prepared course of reading designed to cover the most important branches of agricultural science and practice.
2. A reduction of price on books needed, all of which are standard books.
3. Personal advice and assistance through correspondence, topical outlines, and supplementary lectures.
4. To those who desire, examinations upon the subjects read, with certificates and diplomas for those attaining a certain degree of excellence.

Here is a fine opportunity for all farmers, old or young, who feel the need of a better understanding of the underlying principles of their calling; and we hope that thousands, not only in Pennsylvania, but in other states as well, will avail themselves of it. For further particulars the reader should address the Pennsylvania State College, State College Post-office, Pa.

THE beet-sugar factory at Chino, California, made nearly eight million pounds of sugar this year. This is a good record for the first season. The average price paid to farmers for beets was four dollars per ton.

THE United States, first in agriculture, first in mining and first in manufacturing, is an eleven-billion-dollar country.

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We believe that all the advertisements in this paper are from reliable firms or business men, and do not intentionally or knowingly insert advertisements from any but reliable parties; if subscribers find any of them to be otherwise we should be glad to know it. Always mention this paper when answering advertisements, as advertisers often have different things advertised in several papers.

Our Farm.

THE GREAT FLOWER SHOW.

**N**EVER before in the history of the chrysanthemum in this country has such a fine display been made as that shown at Madison Square Garden, New York, during the first week of November. It is true there have been larger displays, both of individual varieties and of the flower as a class, but old "mum" enthusiasts agree that for variety, skill in training and number of new, distinct and probably valuable sorts, the display outranks all others previously made. Nor is the end yet. The interested visitor could not but compare the present exhibition with the earlier ones of less than ten years ago, and note the similarity between the earlier and later day exhibitions of the rose. It is surely within the range of sensible prophecy to hope that ere many years we will have reached the same degree of perfection with the flower of Japan that we have with the rose. While the credit for the introduction of the newer sorts belongs to the professional culturist, the public is entitled to a large share of the glory for their quick appreciation of the possibilities in the chrysanthemum, and enabling, by their good taste, the florist to exert himself in perfecting the race.

Although the chrysanthemum reigned as queen at the exhibition, the fine display was by no means confined to this flower. Roses, carnations, decorative plants, orchids, decorative designs, etc., were all the best of their kind, and received the admiration of the thousands of visitors. It appears that at last the great metropolis has so broken away from money-getting and politics that it is ready to recognize the beauties of nature, and we are to have regular horticultural exhibits spring and fall.

The decorations and group arrangements in this big building were very fine, and added greatly to the beauty of the whole. An innovation this year was the devoting of special days to special displays or arrangements. For example, one day was rose day, during which that flower was given prominence over all others; another day devoted especially to the display of seedlings, a third day to floral table decorations, and so on.

New York has seldom seen such a handsome display of decorative plants. Every prominent florist and many wealthy amateurs within hauling distance of the city sent specimen plants. At the entrance of the amphitheater was a solid clump of palms, Pandanus, Crotons, Dracaenas, Marantas, Alocasias and Anthusiums, the great branches of the stately palms towering full fifty feet high. The arrangement was per-

fect, the gradual softening down from the heavy foliage of *Cycas revoluta* at the top to the filmy foliage of the maiden-hair and other ferns at the base, testified to the skill of the decorator. In the amphitheater was constructed a towering fountain, the large basin of which was filled with aquatics; the sides of this basin were covered with natural cork bark and all crevices filled with ferns and mosses, making the whole a most tropical-appearing scene. Fine specimens of *Cycas revoluta* (Sago palm) were shown; one in particular, it was claimed, was nearly a century old, which seemed likely, to judge by its gnarled and twisted trunk.

The collection of orchids was good, and the exhibitors showed good judgment in displaying such sorts as could be readily grown by the novice rather than showing the rare and almost unattainable specimens. Orchid culture is not only a fashionable fad, but the flower-loving public is beginning to get acquainted with the fact that the class is most interesting, comparatively easy to grow, and best of all are in the front rank as a flower for cutting.

In the line of decorations aside from table arrangements, J. H. Small & Sons, of Washington, D. C., were awarded the palm. One end of the garden was devoted to their display, which consisted of a representation of the capitol and grounds at Washington, a reproduction of a marriage altar, used at

violet immortelles; the whole is intermingled with white and pink chrysanthemums twined in and about the railing. Stately palms form the outer edge. The canopy, semicircular in form, made of some soft, clinging drapery in white, was festooned with smilax, with white and pink carnations and satin ribbons of the same color for relief. From the center of the canopy hangs a wedding-bell of pink and white carnations. Written descriptions fail in testifying to its extreme beauty. The attention it attracted from numerous young couples will surely result ere long in the Messrs. Small having a number of orders to construct similar affairs.

"Decoration day," as it was termed, was devoted to the arrangement of tea-tables, with only the service and flowers in competition. The one and only Mr. Ward McAllister and the equally renowned Prince Poniatowski officiated as judges, and awarded the first prize to Mrs. Thos. H. Spaulding, wife of the well-known "mum" enthusiast. The china service on this table was of royal Worcester, richly ornamented with gold. The souvenirs were yellow chrysanthemums with plenty of foliage and long stems. In the center of the table was an immense heap of yellow chrysanthemums, with sprigs of maiden-hair ferns peeping out from among the blossoms. A cream-lace scarf laid over a cloth of deep yellow satin was directly underneath the center-

by F. R. Pierson Co., and valued at fifty dollars, was for a vase of cut flowers of the best and most promising forcing rose of recent introduction, never before exhibited at a New York show. Ernest Asmus, of Hoboken, N. J., as exhibitor of Empress Augusta Victoria, was awarded this prize.

John N. May, of Summit, N. J., was awarded the prize for the best new seedling rose of American origin not exhibited previous to 1892. The variety named, Mrs. W. C. Whitney, is a beautiful deep pink rose, destined to become very popular.

At last we are to have an "American Beauty," true to its name and worthy of the skill of the American florist who produced it. It is a sport from American Beauty, and has been named American Belle. A pretty pink in color, fragrant, and of the same full form as American Beauty.

The honor of being the best plant in the exhibition was awarded to the chrysanthemum, Mrs. Alpheus Hardy, better known to the public as Ostrich Plume. The plant was of the umbrella type of training, having a spread of over six feet. It was a magnificent specimen, and grown by the gardener to Walter Hnnnewell, Esq., the wealthy "mum" enthusiast of Wellesley, Mass.

The display of carnations was fine, though because of the small, compact bloom of this flower the visitor gained the impression that it was of little consequence as compared with the more magnificent bloom of the rose and chrysanthemum. "Josiah Eaton," a very full, symmetrical flower, with fine calyx and long stem, white, with a dark tinge, won the prize as the best new seedling. Other seedlings on exhibition which promise well, and with which the public will have an opportunity to become acquainted by next spring, were: Iago, a magnificent blossom of deep maroon shade; Pink Beauty, a light pink; Fred Cody, purple on a white ground; New Jersey, an attractive scarlet, and William Pierce, a very large carmine flower.

Among chrysanthemums the exhibitors are entitled to great credit for the skill displayed, not only in the perfect growth, but in the many shapes turned out. It may be safely asserted that no such skill has ever before been shown. As all who have handled chrysanthemums well know, the plant is not the easiest one in the floral kingdom to grow to perfection, and especially when specimen plants are wanted. The plant is an inveterate drinker, and needs constant care and attention. Once the requisite amount of moisture is not given, the plant drops its foliage and is almost worthless as a specimen. Nearly every shade of color possible in the family was shown; nearly all the old favorites were shown, and gave evidence of improvement, due to increased knowledge and skill. Among the best specimens shown were John Thorpe, a dark crimson; Mrs. Hicks Arnold, a bright red; George W. Childs, vivid crimson; Louis Boemher, a delicate pink, with a furriish coating of white; Waban, of a heliotrope shade; Jerrico, a pure white; W. W. Coles, golden yellow; Harry May, dark chocolate, and Ivory, a pure white, very compact in form. Many of the specimens were trained in the umbrella style, now so popular, which we illustrate.

Peter Henderson & Co., New York, were the fortunate winners of three prizes on their latest importation from Japan, named "Golden Wedding." The prizes were the "Cutting" cup, for the best vase of any variety; the "Gardeu and Forest" cup, for the best six blooms of chrysanthemums of any color, and the first premium of the New York Florist Club, for the best variety of yellow.

The color of "Golden Wedding," which we illustrate, is rich golden yellow; its flowers are large, measuring nine inches across and four to five inches deep; stem strong and woody, holding the flower erect. Petals are long, broad, irregular and loosely incurved, the outer petals being twisted and slightly drooping. The variety is doubtless destined to become extremely popular. The reader will get an idea of its general form and manner of growth from the illustration, but its great beauty is in its exquisite shade of color, which must be seen to be fully appreciated. If we must congratulate the skilled florist or his work, surely the flower-loving public are to be congratulated on the great interest they are showing in these beauties of nature, not alone as admirers of the skill of others, but as growers themselves, fast learning to find in the culture of flowers that peace of mind and health of body which no other recreation has given them.

GEO. R. KNAPP.

Edgewood Experiment Grounds, N. J.



CHRYSANTHEMUM "GOLDEN WEDDING."

the wedding of Governor Flowers' daughter, and the Washington memorial arch, a reproduction in miniature of the arch erected on Fifth avenue, New York.

The representation of the capitol and grounds was a triumph of the florist's art, and was claimed to be the largest floral piece ever constructed. The building was formed entirely of cape flowers, of which upward of two hundred thousand were used. Every window is represented with a miniature pane of glass, and the whole structure was lit by electric lights; the walks leading down from the building were carefully and accurately laid out, small, white gravel-stones being used. The clumps of trees and other greenery on the grounds were represented by small but perfect specimens of ferns and palms.

The arch attracted great attention because of its beauty, but as much greenery and drapery was used instead of flowers, it was not so popular.

The reproduction of the marriage altar was a superb bit of work. The background is composed of a gigantic mirror, to which is affixed the monogram of the people to be married, made of immortelles in colors. This mirror is fastened to the center of the wall, surrounded by maiden-hair ferns. In front of a smilax-covered railing is a white pillow with a cross in

piece. The glass service was of Venetian ware, and bore delicate tracteries in gold flowers. The dishes were filled with bonbons, nuts, cake and fruit. Silver-wrought baskets held the confections. Silver lamps at each corner of the table were covered with yellow silk shades. The chairs were festooned with yellow satin ribbon, and the whole tiny room was shaded in the same hue. The table was set for twelve.

"Rose day" was given over to the queen of flowers, and if the chrysanthemum has its admirers, the rose has no less in numbers and enthusiasm. The display was pronounced by those who should know as being the finest ever held in this country. Thousands upon thousands of the beauties were exhibited, and their united fragrance fairly filled the enormous building. The roses were arranged in almost every conceivable form. Immense vases holding over a hundred blooms; Japanese jars, with a dozen selected specimens, and the old-fashioned florist's glass vase with two or three beautiful blossoms, all vied with each other for first place. Prizes were awarded for the best specimens of all the well-known and popular sorts. Among the newer kinds attracting attention was Empress Augusta Victoria, large, beautiful white, with lemon tinge, and delicately fragrant. The prize, a silver cup, donated

## POPULAR ERRORS.

MOON PLANTING.—I know this is dangerous ground to step on. The influence of the moon upon plants and animals and the weather is a legend so old that it has become a sacred piece of tradition, and some of my readers may not feel friendly toward me if I try to show its fallacy. I know persons of considerable intelligence and good education, who are reasonably free from the taint of superstition, who laugh at the idea that radishes must be planted in the decline of the moon in order to make them produce good roots, yet who would not wean a colt, or a lamb, or a calf—or a baby either—except just when “the sign is right.” The belief in the influence of the moon is yet too firmly rooted in the minds of the average farmer to be easily eradicated. Experience is the best teacher; the professional market gardener has seen this thing tried, and he knows there is nothing in it. He plants radishes, for instance, almost every week in the year. He is obliged to plant them during every phase of the moon, and he has learned that he can grow just as good radishes at one time as another, provided other conditions are the same. So it is with peas, carrots and other vegetables.

A. A. Crozier, in “Popular Errors About Plants,” just published by the Rural Publishing Company, names among others the following instance of alleged moon influence: “Pork killed in the new or increase of the moon will not shrink in the pot as it will if killed in the old of the moon. Calves or other animals born in the new of the moon may be expected to live and thrive, while if born in the old of the moon the chances are all against them. A rail fence built in the old of the moon will soon sink into the ground, while if built at any other time it will not sink. Shingles nailed upon a roof in the new of the moon will soon throw out the nails. Sheep sheared at that time will yield heavier fleeces than if sheared at other periods.”

Many farmers, however, who are not believers in these superstitious notions, are yet fully convinced that the “change of the moon” brings a change of the weather. Then we hear of “a wet moon,” or “a dry moon,” according to the angle at which the moon’s horns make their appearance with reference to the horizon. If the crescent holds water, like a bowl, then look out for dry times, but if the crescent dips, so as to let the water out, look out for rain and floods. Another widespread belief regarding the moon is its supposed influence on the rise and fall of the sap in trees. The forest laws of France at one time, if they do not now, prohibited the cutting of timber during the increase of the moon. German foresters also always regarded the same rule. It was thought that the increase of the moon causes the sap to ascend in the timber, and on the other hand, that its decrease causes the sap to descend. Timber, therefore, which is cut in the decrease of the moon will contain less sap, and hence will keep longer than if cut in the increase of the moon.

The notion most widely believed, and lived up to in practice, in regard to the moon influence, is that those plants which bear their edible portion above ground should be planted in the new of the moon, while those whose edible part is below ground should be planted in the old or decrease of the moon. A number of practical experiments have been made, at various times, to test this belief, and they, of course, showed that there is no foundation for it. I understand full well how hard it is for average persons to force themselves from preconceived or inbred notions and superstitions. The teachings of early youth, whether in keeping with common sense or not, will stick to the majority of people until death.

Some of these erroneous beliefs may be harmless. But the notion that we must plant just in a certain phase of the moon is mischievous, and may often result disastrously to the planter, simply because he often allows the best time for the work to pass by. “Many a gardener has lost a good chance for sowing his onion seeds by thinking that when he has failed to get them sowed in the old of the moon in March, he must wait until the old of the moon in April.” Thus with potatoes. We almost invariably have the best success when planting early. When the weather and soil conditions are just right, shortly after new moon in April or May, it would be risky and folly to delay planting two or three weeks in order to plant after full moon.

I like to put this whole question on a common-sense basis. Every result is and must be the natural consequence of a cause, and there should be at least a possibility of connecting cause and effect. But now, please, in what possible way could the moon changes be connected with the meat in the pot, or the comparative growth of top and root, or the movement of the sap, etc. Undoubtedly there is some influence of the moon on plants—the influence of light, which produces chemical changes. But this influence, compared with the light of the sun, is so insignificant that we can well afford to leave it out of our consideration.

OTHER NOTIONS.—Mr. Crozier, in the same work, exposes a number of other popular errors, some of them now generally abandoned, like that of “spontaneous generation,” the “turning of wheat to chess,” the “blue-glass” fad; others still generally believed in. To the latter class belongs that of the poisonous nature of the walnut. That other trees and shrubs do

betting on the result has a good deal of the buying of lottery tickets. No man can predict with any reasonable degree of certainty what conclusions will be reached by a jury of twelve men, much less what will be the verdict of six millions of voters. I myself, having closely watched the trend of public opinion for many years, was not surprised in the outcome of this election. The great majority of people found surprises in it never dreamed of. In short, it is not a safe thing to bet on elections. If people are foolish enough to agree, in case of the defeat of their candidate, to wheel somebody through the streets of a city or town, with a brass band leading the procession, or to be hitched up like a horse, and draw the winner of the bet in a carriage through the muddy or frozen streets of their village, or to shave off half their beard and hair, or to wear a straw hat all winter, or forego accustomed enjoyments of life for a certain length of time, nobody can object to it. One of the two betting parties at least will be adequately punished for his

suffered from a want of sufficient water to slake their thirst. Had the drouth been earlier in the season, the effects of heat would have made the result much worse; but a scarcity of water at any season of the year is a serious thing, and it seems somewhat strange that many who suffer each year during a drouth of from three to eight weeks, make no effort to provide against a time when “the rain falleth not and the earth is parched and bare.”

In comparison with the inconveniences caused by a scarcity of water, the making of wells and cisterns is no task at all. Every farm should have at least two good wells and a cistern, unless spring water is abundant, and the water of such character as to not require to be “broken.” A well or spring should be near the kitchen door. A cistern of sufficient capacity to provide against emergencies should also be near the kitchen door or in the wash-horse. Another well should be provided for the purpose of supplying the stock, and as a provision against the possibility of the failure of the first. This would save time and vexation, and would be much more economical than to drive the stock two or three miles to water. There are many instances of well-to-do farmers who depend upon a single well to supply all requirements for cooking and washing as well as for stock purposes. During the winter of 1872 and ’73, when a dry winter followed an unusually dry autumn, and almost every well was “dry,” four neighbors watered all of their cattle and horses at one of my father’s springs. One of these neighbors still depends on the lone well that failed him then, and has failed several times since. This locality is blessed with an abundance of good water, the only requirement being to provide means of securing it.

One of the first points to be considered in the purchase of a farm is the possibility of an abundant supply of pure, wholesome water; and one of the first things for the purchaser to do after securing the deed is to take steps to make the supply constant and unfailling. When “Shady Nook” came into the possession of the present owner, it boasted of a never-failing well of superior “free-stone” water and two good springs. The first season a reservoir with a capacity of three hundred thousand gallons was constructed especially for stock. This “went dry” the following year, but has never failed since. Of course, this water is not so good as that from wells, springs, or running brooks, but is far better than no water at all. Later, a cistern with a capacity of one hundred barrels was constructed, and supplied from a roof thirty by forty-two feet. It has provided water for all household purposes, and also for watering the garden and many newly-planted trees each year since. Though the old well is unfailling, a new one was sunk in 1891 for the convenience of the stock, which had previously been supplied by one of the springs. This well, though only thirty-four feet deep, has a water-bed of pure gravel ten feet deep, and neither the stock nor the steam-engines have ever exhausted the supply or lowered the bed.

In the building of cisterns many make the mistake of stopping with one of forty or fifty barrels capacity. A few inches larger in diameter and a few feet deeper will double its usefulness as well as its capacity, and it is better to go over a hundred barrels than to stop short of it. Another point is to drain all the roof accessible into it, that the smallest of rains may renew the supply. Where used for cooking and drinking, it should contain a filter, and be so large as not to require the summer rains.

JOHN L. SHAWVER.

Shady Nook Farm.

## Two Things

### In Regard to Catarrh

**1st, It is a Constitutional Disease; and 2d, It Requires a Constitutional Remedy.**

These two facts are now so well known to the medical fraternity that local applications, like snuffs and inhalants, are regarded as at best likely to give only temporary relief. To effect a permanent cure of Catarrh requires a constitutional remedy like Hood’s Sarsaparilla, which by purifying the blood, repairing the diseased tissues, and imparting healthy tone to the affected organs, does give thorough and lasting cure.

“I want to say that Hood’s Sarsaparilla is a permanent cure for catarrh. After suffering with catarrh for many years, I was requested to take

### Hood’s Sarsaparilla

and after using three or four bottles I am healed of the most annoying disease the human system is heir to.” P. B. STOUT, Sheridan, Ind.

HOOD’S PILLS—best for family use.



UMBRELLA FORM OF CHRYSANTHEMUM TRAINING.

not thrive in close vicinity of the walnut, is simply a natural consequence of the dense shade made by the walnut, and of the large demands of the surface-feeding walnut roots upon the food elements in the soil. In other words, a natural consequence of overshadowing and starvation. Another popular error of the latter class is that house plants are injurious to health. Let none of the readers of FARM AND FIRESIDE forego the enjoyment of keeping plenty of house plants for fear of their being injurious to health. They have no such influence; on the other hand, they tend to improve the air inside. If plants thrive in a sitting-room, people should. If plants are sickly, the atmosphere is not just in best condition for people’s health.

BETTING ON ELECTIONS.—One of the greatest errors, which the people of the United States often fall into, is this craze for betting on the outcome of elections. I am well aware that games of chance have some fascination for most people; still, the free indulgence in these things is demoralizing, and more than mischievous. The outcome of the past election shows that

folly. Or when a rich man bets with another rich man a sum of money which either party can easily spare, there will be little harm done in the end. One man will have a little more money, and the other a little less—that is all. But when poor people risk their hard-earned cash, or their land, horses, cattle, furniture, house and lot, etc.,—instances of this kind being reported in abundance—this is going altogether too far. It is foolish. It is immoral. It is partisanship run mad. It is against common sense, and against decency. It should be stopped. Perhaps with the gradual subsidence of partisanship now evidently going on, it will cease with it.

T. GREINER.

#### THE WATER SUPPLY.

During October most of our neighbors lamented a scarcity of water. The cisterns were dry and wells were low, with no great quantity even in the larger creeks. The housewives complained of the extra labor connected with making “broke” water for the washing of dishes and clothing. Some suffered much from the effects of such water on their hands. In some cases stock





Our Farm.

WATER AS MANURE.

In the new onion culture on this coast some facts are given as to the wonderful richness of the soil of certain tracts of land, naturally sub-irrigated by water forced up or brought up from below by capillary attraction.

Now, the fact is that all of this naturally moist land is not of the same richness. Some of it is very poor. It lays in its natural state nearly barren of plant growth. In some places only a few species of coarse sedges, ferns, etc., grow on it.

My attention was first called to this point in the valley of the Illinois river, Illinois. There, in the lower valley of the river, we had five strata, which if bored through gave flows of artesian water, all of very different characteristics, or in other words, carrying very different minerals in solution.

These same phenomena are even more plainly marked here, simply because our natural flowing spring water is more varied by mineral matters held in solution.

As a saving clause we have that beneficent provision of nature by which such lifeless waters, on due exposure to the air, are fitted for sustaining life.

It follows that water for irrigation, taken from springs or artesian wells, if it is to act as both manure and drink for the crop, should flow a long distance through an open conduit, or be stored up for a reasonable time in a broad, open reservoir.

Sonoma county, Cal.

EXTRACTS FROM CORRESPONDENCE.

FROM MISSOURI.—Caldwell county is situated in the northwestern part of the state. It is mostly prairie, watered by numerous small streams. The soil is rich and fertile.

Polo, Mo.

FROM ILLINOIS.—Douglas county is a fine farming county. It is noted for raising hundreds of acres of broom-corn of a very fine quality. It is worth from \$75 to \$100 a ton.

Leasure, Ill.

FROM CALIFORNIA.—I suppose you are all frozen up back there in Ohio, my native state. Here in Ventura county, California, we have not had an unpleasant day since—well, it is an old saying, "we have 360 pleasant days in the year," and the remark is almost literally true.

Fillmore, Cal.

FROM ARIZONA.—I live in a land of sunshine, that is but little known to the average American. Years ago, no one knows how many, this territory was densely populated.

Phoenix, Arizona.

J. S. T.

How To Make Money WITH A FEW HENS Is the Teaching of FARM-POULTRY.

A Live, Practical Poultry Raising Guide. It is acknowledged to be "The Best Poultry Magazine Published" in the world.

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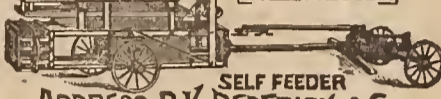
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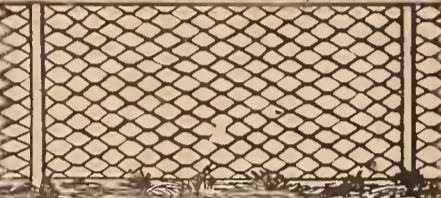
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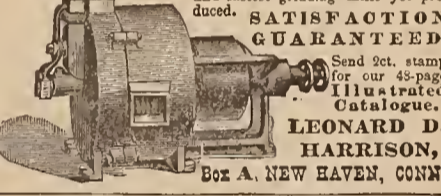
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student, and then as an earnest and thoroughly successful teacher.

Of the supper and the final games and merriment, I have not space to write. But I remember it all so well as I write, with the green box before me, in which are the things which came to me from the tree. There is a pair of red and green and pink and yellow knit suspenders, presented me by Aunt Cynthia after she had knitted them with her own hands, that were always doing kindly deeds. There is a Barlow knife that one tow-headed little urchin gave me in the kindness of his little heart. There is a little volume of poems, on the fly-leaf of which is written, "With kind wishes of your true friend, Clarissa Cobb." A big, courageous-looking candy rooster came from a little girl of five, and there is with it one of her long, soft, brown curls I asked for when I came away three months later. It's shining mates and their quaint and sweet little wearer were laid in the grave that same year. There are some cardboard book-marks, a red and green glass breast-pin (from Uncle Ziah), and several other things of little value in themselves. The boys and girls who gave them to me are men and women now, with new hopes and joys and cares. I would be glad to know that they have the same kindly thoughts and memories of me that I have of them, after the lapse of all the years since we met for the last time in the little school-house out there on the prairies of the Ten-mile district.

J. L. HARBOUR.

HEATING THE HOUSE.

Next to stoves hot-air furnaces are most extensively used for heating houses. In theory they are excellent devices, says *Good House-keeping*, and when of sufficient size and properly set and piped they are effective and economical. They take the place of several stoves and confine the labor and dirt to one apparatus in the basement, and when properly managed warm the whole house evenly. A good feature of their use is that ventilation becomes a necessity to their effective operation. Fresh, cold air being warmed by contact with the heated surfaces of the furnace is conducted to rooms above. But as these rooms are already full of air, provision must be made to remove a portion of it before the hot air can gain adequate access. This removal of air through flues, fire-places or open windows ventilates the rooms. Now if the furnace is so large that it does not have to be overheated to warm sufficient air to render the rooms comfortable, we have an excellent system. Large volumes of moderately heated air should be provided by the furnace system of heating, instead of a small amount of highly-heated or "burned" air, as is too often the case.

In the use of stoves and furnaces, particularly the latter, it is well to provide for the evaporation of water to supply the proper degree of humidity to the air. Air at a low degree of temperature will hold only a certain amount of moisture. As it becomes heated it takes up more moisture, and if supplied in no other way it will be abstracted from the bodies of persons in the room, from the furniture, etc. This produces headache and discomfort to persons and injury to furniture. A better course than to rely entirely upon the usual water-holder placed in the furnace is to place vessels of water in the registers. Furnaces should be frequently examined in order to know that the draft is right, that all pipes are clean, that castings and fire-pot are sound, and that it neither leaks gas nor takes air from the cellar instead of taking it from outdoors.

A SAD EXPERIENCE.

Munkacsy, the celebrated painter, endured much suffering and many privations before he attained the proud position he now holds. *London Figaro* relates a story of an adventure which befell him at the early age of seven. Left an orphan at the time of the Hungarian war, his education was undertaken by his godmother, who owned a tolerably large estate, picturesquely situated among the mountains of Giula. One evening while most of the villagers were away attending a fete at another village some miles distant, a troop of bandits suddenly made their appearance, bound and gagged all the servants, and beat some of them to death, then laid them all in a row in the dining-room. Little Munkacsy—perhaps on account of his tender years—was spared the beating, but was tied up to one of the servants. In this position he saw his dear godmother dragged about and cruelly beaten by the robbers until she had given up all the money and valuables that were in the house. By the following morning the steward managed to extricate himself from his bonds and released those of the servants who had not died of fright or their wounds. Notwithstanding all efforts of the doctors who were summoned, Munkacsy's godmother died three days afterward, and thus the poor little fellow was again left without a protector.

FRIDAY.

Friday has long lain under the accusation of being an unlucky day. The *Figaro* takes up its defence and puts Christopher Columbus himself upon the stand. Here is the testimony:  
On Friday he left the port of Palos to discover America. On Friday he completed his observations concerning the magnetic variations. On Friday he saw birds, the first indication of a new world. On Friday, October 12, 1492, he saw land. On Friday he planted the



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first cross upon American soil. On Friday, October 19th, he announced to the Catholic kings his return, in the month of April. On Friday he made his triumphal entry into Barcelona. On Friday, November 16th, he found a cross planted by an unknown hand on a deserted island in the sea of Notre Dame. On Friday, November 30th, he planted a cross in Puerto-Santo. On Friday, January 4th, he set sail for Spain. On Friday, January 25th, he caught an immense stock of fish. On Friday, February 15th, he came out of a terrible hurricane. On Friday, March 8th, he received an invitation from his former enemy, the king of Portugal to dine. On Friday, March 16th, he made his triumphal entry into Palos.

Columbus often spoke of the strange coincidence, and he had a great veneration for his lucky day.

SALMON AND GOLD, RATHER THAN THE SOIL, CONSTITUTE ALASKA'S WEALTH.

Lyman E. Knapp, the governor of Alaska, in his annual report to the secretary of the interior, says that the lack of proper transportation facilities is a serious hinderance to the prompt and efficient administration of the laws of that territory.

The rosy-hued reports of Alaska as an agricultural Eldorado, he says, should be received with allowances. It seems wrong to tempt poor men to invest their all in traveling expenses to reach a land where only disappointment and hardship await them, and the governor considers it his duty to urge conservatism in organizing colonization schemes for the settlement of the territory.

The imports of Alaska during the last year are shown to have aggregated \$2,164,238, of which \$400,000 was in cannery supplies and \$250,000 was in machinery.

The exports aggregated \$7,759,064. Of this amount \$3,157,176 was in canned salmon, \$1,210,625 in whalebone, \$1,207,107 in gold and silver bullion and ore, \$755,587 in sealskins and \$375,000 in codfish.

The white population of Alaska is given as 4,303, of whom 3,860 are males, and these include some 378 men on ships in the harbor when the census was taken. The natives number 23,274.

BIG TAX-PAYERS IN NEW YORK CITY.

The Astors are not the largest tax-payers in the city, as is often asserted. This year they will pay taxes on \$21,000,000, while the Vanderbilts will pay on \$30,400,000. The Vanderbilt assessment is largely increased by the New York Central and Hudson River railroad property inside the city limits, and therefore open to the gaze of the argus-eyed tax man. The next heavy tax-payers are: The Consolidated Gas company, \$22,000,000; Mr. Gould's Manhattan Elevated railroad, \$20,000,000; the R. and O. Goelet estate, \$6,670,000; Lorillard family, \$6,550,000; Equitable Life Insurance company, \$6,300,000, and so on up to one hundred and twenty separate individuals, estates and firms that own one eighth of the entire city of New York, the elevated railroads above New York and the subways beneath New York.

This gathering in and gobbling up, so to speak, is not the pleasant phase of this topic, by any means, but it is one that we cannot ignore. And in all likelihood it is one that some day in the not very dim and distant future may require serious consideration. The simple, every-day desire and attempt of one man to get possession of and distribute the wealth which some other fellow has does not seem to meet the requirements of the case.—*John A. Cockerill, in New York Recorder.*

DON'T TOBACCO SPIT YOUR LIFE AWAY

Is the startling, truthful title of a little book just received, telling all about *Notobac*, the wonderful, harmless, economical, guaranteed cure for the tobacco habit in every form. Tobacco users who want to quit and can't, by mentioning FARM AND FIRESIDE can get the book mailed free. Address THE STERLING REMEDY CO., Box 763, Indiana Mineral Springs, Ind.

Money for Sale!

The World's Fair Directors

Have 5,000,000 Souvenir Half Dollar Coins in their treasury, the gift of the American people by Act of Congress. The patriotic and historic features of these Coins and their limited number, compared with the millions who want them—our population is 66,000,000—have combined to create so great a demand for these World's Fair Souvenir Coins that they are already quoted at large premiums. Liberal offers from speculators, who wish to absorb them and reap enormous profits, have been rejected for the reason that

This is the People's Fair==

We Are the People's Servants==

and a divided sense of duty confronts us—

We need \$5,000,000 to fully carry out our announced plans, and

We have decided to deal direct with the people---

To whom we are directly responsible---among whom an equitable distribution of these National heirlooms should be made.

The World's Fair Offer to the American People:

That none of our plans for the people's profit be curtailed we must realize from the sale of 5,000,000 Souvenir World's Fair Fifty-cent Silver Coins the sum of \$5,000,000. This means \$1.00 for each Coin, a much smaller sum than the people would have to pay for them if purchased through an indirect medium. Every patriotic man, woman and child should endeavor to own and cherish one of these Coins, as they will be valuable in future years—a cherished object of family pride.

Remember that only 5,000,000 Coins must be divided among 66,000,000 people. These Coins could be sold at a high premium to Syndicates, but we have enough confidence in the people to keep the price at a Dollar for each Coin, as this will make us realize \$5,000,000—the sum needed to open the Fair's gates on the people's broad plan.

World's Fair Souvenir Coin for a Dollar.

**How to Get The Coins** Go to your nearest Bank and subscribe for as many coins as you need for your family and friends. These Sub-Agents of the World's Columbian Exposition will give you their receipt for your money, as delivery of these coins will not begin before December. There is no expense to you attending the distribution of the Souvenir Coins, as we send them to your local bank. If for any reason it is inconvenient for you to subscribe send Postoffice or Express Money Order or Registered Letter for as many coins as you wish with instructions how to send them to you, to

TREASURER WORLD'S COLUMBIAN EXPOSITION. CHICAGO, ILLS.

Orders will be Filled in the Order in which they are Received.

**FREE** If you will send us within the next 30 days a photograph or a tintype of yourself, or any member of your family, living or dead, we will make you one of our finest \$25.00 life-size CRAYON PORTRAITS absolutely free of charge. This offer is made to introduce our artistic portraits in your vicinity. Put your name and address back of photo., and send same to Cody & Co., 755 DeKalb Avenue, Brooklyn, N. Y. References: Rev. T. DeWitt Talmadge, all newspaper publishers, Banks, and Express Companies of New York and Brooklyn. P. S.—We will forfeit \$100 to any one sending us photo. and not receiving crayon picture Free as per this offer.

When you write, be sure to mention Farm and Fireside.

**Our Household.**

**A CHRISTMAS GLEE.**

Come, haste, let us seek it,  
The dear Christmas holly—  
Its crimson lights gleam brightly forth from  
the snow;  
See it reach out its bonnie green boughs as an  
offering—  
A rare Yule-tide gift on its friends to bestow!

Go seek it, ye children,  
The dear Christmas holly—  
Seek it first from the home-shrine with swift,  
loving hands;  
Bring its sheen and its glow to the place  
made most sacred  
By tears and by joys, throughout kingdoms  
and lands.

Go seek it, ye yeomen,  
The brave Christmas holly—  
Make a forest of emerald and red in the  
kirk—  
Bring the rarest of sprays for the altar—and  
to it  
Come, worshipers all—be ye Christian or  
Turk.

Go seek it, ye skeptic,  
The dear Christmas holly—  
As you clasp this bright emblem of Yule-tide—  
forsake  
Your scorn of the truth and your grim spec-  
ulations,  
And of the deep joy of the Yule-tide par-  
take.

So gather it, good folk,  
The dear Christmas holly—  
Let it glow from the altar, and shine at the  
feast—  
May the glory and love of the Christ-child  
surround us  
As shone the light down from His star in the  
East!

—Good Housekeeping.

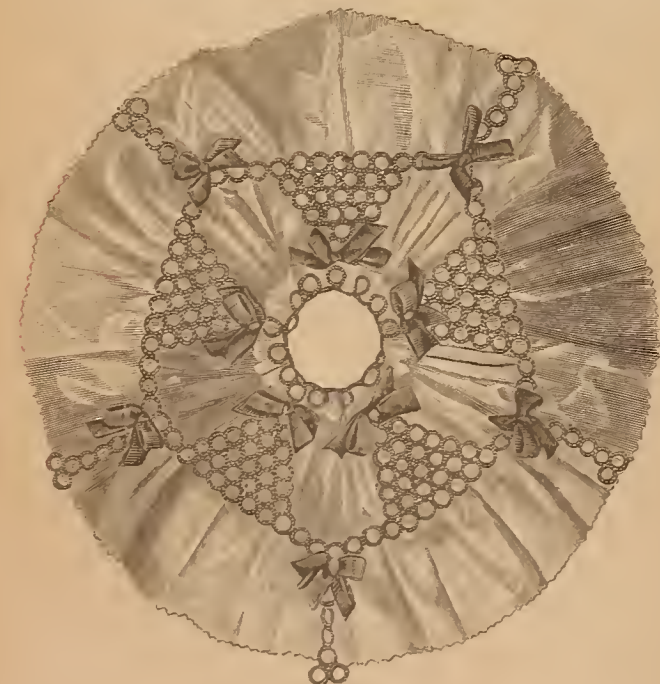
**A FEW MORE XMAS SUGGESTIONS.**

**PHOTOGRAPH-HOLDERS.**—For hanging upon the wall, take a quarter of a yard of ribbon the width of the picture, or two ribbons of different colors, and sew them together. Crochet rings in silk to match the ribbons and arrange them as in the engraving. A bag having a stiff bottom of pasteboard covered with linen, the width of the pictures and three inches deep. On the front and back side have another linen-covered piece the height of the picture; put a puff of silk in the sides with cords to draw it up.

**NEWSPAPER-CASES** of linen doubled and fastened to a roller to hang up, dispose of the papers very readily. For ornamentation, resort to the brush or needle, or applique-work looks well upon them.

**LAMP-SHADE.**—This is made of silk and crocheted rings. The frame must be bought first to fit the lamp, and the shade is then constructed very easily. They cost from thirty-five cents to ninety cents and one dollar, the last kind being the most substantial wires.

**PORTIERE.**—These are almost indispensable in house furnishing, and are really



LAMP-SHADE.

very comfortable over a door to keep out drafts. They are worked on denim with good effect, but the best are of the heavy, soft goods that are found in all our stores.

**CROCHETED TRIMMING.**—Where ring trimming is desired that must be laundered, make the rings of the material wound around a suitable-sized pencil, as in our engraving, crochet only half way around before joining the next, and finish the other side coming back. Make all the wheels first. This does away with loose ends.

**NOVELTIES.**—Among the pretty novelties of the season are the articles in white metal resembling silver. Hair-pin boxes, ink-stands and calendar combined, postage-stamp box, photograph-frame.

A very pretty fancy jar to cover a flower-pot will cost one dollar; a dozen lovely thin, water glasses can be bought for sixty cents, eighty-five cents and one dollar and a half, all a delight to any housekeeper.

A cracker-jar is an addition to the table, and comes at prices varying from one to five dollars.

Wedgewood pieces are brought out in novel styles this year. It is in three colors, dark blue, pale blue and sage green.

The pepper and salt shakers are one dollar and seventy-five cents apiece.

A small creamer and sugar-bowl is always a pretty gift. Indeed, all these small individual creamer and sugar-bowls come in the most tempting forms, like a snail-shell unfolding, some like an opening flower. Two or three sets of different kinds can be used upon a table with good effect.

A very pretty gift is an ostrich-feather fan in black. These are always in good taste, and a good one can be got for four dollars.

For an elderly person a white, wool shawl is always in good taste, and lasts many years, as it can be washed nicely. The usual cost is from three dollars and fifty cents to five dollars.

If you are going to give a cheap present, give it in something perishable, as something to eat or a flower, but don't let it be some abomination of material and form that one hesitates to burn when its first beauty is gone, and yet is an eyesore.

Above all, don't give "duty presents;" they deceive no one, and hurt wherever they go. Let some love go with them or drop them altogether.

Above all, remember those who in the past year have had taken from them some one who would have made a sweet Christmas for them. Express your sympathy to them in some kind way.

CHRISTIE IRVING.

**CHRISTMAS NOVELTIES.**

Among the specific articles new to the season is first, it is needless to say, a

**MOUNT FOR PHOTOGRAPHS.**

It is a large, fan-shaped piece of wood intended to hang by ribbons on the wall. This is first covered with plush in any of the pale tints mentioned. What would be otherwise the sticks is a thin, flat piece of wood, rounded at the edges and neatly covered with white kid. If the plush is pale green, the kid has a greenish wash, and the decoration is a spray of white roses with foliage. The lower edge is bordered with a row of similar but much smaller pieces set shellwise along, on which are lettered some such legends as, "Pleasant to walk with, pleasant to talk with, pleasant, too, to look upon." Or if pale pink is chosen, the legend is, "Rosy is the west, rosy is the south, rosy are her cheeks, a rose her mouth." Behind these small, kid-quarter-circles, photographs are placed, and against the background of plush. They are also used to hold cards; or if the days of the week are placed on the kid sections, they will serve to keep a record of engagements.

Another novelty is an **ALBUM** which consists of graduated pockets of pale green paper placed in a pasteboard box, lined with green and covered with pale green plush. The cover to

this box is likewise covered with plush, which is seen as a border for a nautical scene on white kid, which is washed to reflect the green of the plush. These kid mounts, it should be said, may be securely attached with stratenas, which makes this very workmanlike look a very simple operation.

Square mouchoir-boxes are luxuriously lined and faced with plush. The covers are made entirely of kid, and Aubert's charming group of maiden and a Cupid in a winter landscape hovering over a fire is a

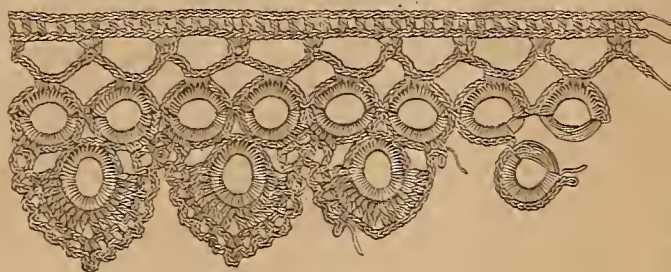
favorite decorative theme. This is washed in cold blue tints, with outlines and shading of deeper blue. Other mouchoir-boxes with marine views are pear-shaped and shell-shaped.

Chamois cut in the form of little spades is tied together in groups of three through holes in the handle. On the upper layer is painted a man's face with a glass in his eye. These are intended to polish eyeglasses.

Three or four pointed ovals of chamois cut in points, such as described in the sachet above, are laced around balls of twine.

A square of chamois with the four corners tied is used as a sachet. The ornamentation consists in rounding the corners and laying them like pansy petals, when they are painted to carry out the idea.

Work-bags of white kid and silk are



CROCHETED TRIMMING.

made by using the kid as a round bottom, with decorated points overlying the silk lining and extending to the gathering-string. The decoration consists of delicate flowers and vines painted on the kid points, the outer denticulated edges being outlined in gold.

Among the inexpensive substitutes for cards are the old-fashioned book-markers, not, as before, worked upon cardboard, but made of twelve inches of thick, inch-wide ribbon, with a flat metal ornament fastened to each end, and an appropriate motto painted or stitched upon the ribbon, which passes over and keeps two places in the book.

Another easily-made convenience is a tape measure of the same kind of ribbon divided into inches by needle-worked bars. The numbers are drawn at the bars, and worked in outline stitch. A brass ring covered with crochet-work is sewed to each end of the ribbon for convenience in holding it.

A tobacco-pouch may be made under protest by those who do not favor the smoking habit; but all the same, a male relative who has contracted the habit will continue it in spite of remonstrance, and one may as well yield gracefully to the inevitable, and help to keep the house tidy by providing a receptacle for the obnoxious weed that is to vanish in smoke. Very satisfactory ones are made of four melon-shaped pieces of silk lined with oil-silk of a very superior quality. Lining and outside are made up separately into two bags, and then put one within the other, with the seams touching. At the bottom of the oil-silk bag the points of the melon-shaped pieces are sewed together; at the top they are cut off, and the straight edge bound with soft, white ribbon, through which a cord or braid is run to draw it up separately from the outside. The silk cover is made in the same way at the bottom, but between the melon-shaped pieces at the top are set gores of another shade of the same colored silk, making the top straight across. An inch or more of the top is then faced with silk, and a casing and cord put in at the right depth to make a frill when the bag is drawn up. The silk pieces before joining may be decorated with designs in silk or gold thread representing crossed pipes, small cigar-boxes, a smoker's cap or any suitable device, or every piece but one may have an arabesque all-over pattern worked upon it, a motto in tiny letters occupying the otherwise unadorned side.

Dainty Christmas tokens are little bonbonnières, that are useful, after their freight of confectionery is devoured, for jewel-cases or table ornaments. Some charming ones at the decorative art rooms are pink or blue satin bags with flat, square bottom that is fitted to a square of semi-transparent celluloid, which is cut with turned-up pieces, like the sides of a box. These are painted with flowers the shade of the satin, which shows softly through the celluloid. The satin bag, lined with silk, is drawn together at the top with a broad frill. A model for the celluloid base can be found by opening a medium-sized note envelope fully, marking off the square in the center and squaring off the points of the flaps. The upright pieces are pierced at the corners, and held together by bows of nar-

row ribbon. By taking a few stitches, the same ribbons can be attached to the satin bag to secure it in position.

Peu-wipers have had their desirability slightly wiped out by the rage for fountain-pens, but there are still old-fashioned people who would be pleased to add them to their desk furnishings. An admirable one that will not tax the maker's skill is made of a doll four inches tall, dressed like a peasant girl, and bearing upon her back a straw pannier or guide basket, such as are to be found in toy stores, which is closely filled with strips of undressed kid, which is said to be the best absorber of ink known. The strips, which are in many shades, include black, but eschew white. The tops and backs of old kid gloves will furnish the strips, which are a third of an inch wide, packed in very closely and sewed securely into the bottom of the basket. They are cut long enough to project a little above the top of the basket. If the feet of the pannier bearer are glued firmly to one of the small, square boxes that are used for holding stamps, the desk convenience will have an additional value.

Some people even now have a liking for a pretty cushion that is not large enough to be overconspicuous, in these days when pin-trays have superseded the capacious and time-honored pincushions that till lately absorbed half the space on the bureau top. No one could grudge the room taken up by a dainty, flower-like cushion which looks like a large, violet-hued pansy dropped upon a mat of lace. The flower is three inches in diameter, and worked solidly in satin-stitch, in shades of purple and violet, with a little yellow at the heart. The material upon which it is worked is all cut away, and the flower laid upon a circle formed by gathering up blond lace edging till it lies smoothly in that form. The lace is supported by a pale green silk piece of circular shape, to which is fastened a full edge of loops made of pearl-edge baby ribbon of green like the silk, thus giving a hint of foliage. The cushion below is a much smaller circle, and so slightly stuffed as hardly to elevate the flower and lace above the table it rests upon.

A delightful Christmas present for an old lady or for an invalid, whose quiet life predisposes to cold feet, is a soft, down hassock.—Harper's Bazar.

**CHRISTMAS AT OAK FARM.**

It was Christmas eve. The snow fell thick and fast, and the wintry wind howled among the branches of the great trees, that shivered as they felt its icy breath. In the large cities and small towns the streets were filled with people carrying bundles of every shape and size, hurrying along to reach their comfortable homes. But out in the country the stillness and quiet of the wintry night was unbroken save by the moaning of the wind. Yet the old farm-houses were aglow with the light of the fire crackling and roaring up the great chimneys.



NEWSPAPER-CASE.

In one of the largest of these country homes sat a little boy and girl in two little chairs in the corner of the old-fashioned sitting-room. Their heads were very close together, as they talked in whispers so as not to disturb their aged grandfather, who sat dozing in his arm-chair.

The year so near its close had brought sad afflictions to the little children of Oak Farm. First, in the beautiful spring the fair young mother (who had been widowed while the little ones were mere babies),

died, and a few months later the good old grandmother who had received the weeping children into her home and heart when they were left motherless, had gone forth from the old home, taking the brightness and sunshine with her, and leaving grandpa and the children very desolate.

Christmas, the blessed season of rejoicing for childhood, had come again, bringing joy and gladness into many homes, but to Oak Farm it brought only sad memories, for the hearts of the little orphans were sore as they sat in the chimney corner, the grandfather forgetful of the Christmas time and seemingly of their presence. The bright eyes of the little ones filled with tears as they talked of their mother and grandmother, who always united in making Christmas such a happy time for them.

"Last year mamma dressed my dolly so pretty, in white and pink," sobbed little Nellie.

"And she gave me such a pretty rocking-horse, and made him such a beautiful saddle," echoed Willie.

"And do you remember the big turkey, plum pudding, mince-pies and all the good things grandma cooked us, when we came out to dinner? I am afraid we sha'n't have any Christmas dinner to-morrow, for I believe grandpa and Nancy have forgotten all about it," spoke Nellie.

"Yes, yes," replied Willie; "and grandma knit me such pretty blue and red mittens, and grandpa gave me such a pretty story-book, and Nancy baked us such heaps of doughnuts and sweetcakes. Oh, dear, don't you wish good people would never die?" And the poor child wept aloud.

This roused grandpa, and forcing back the great sob that well nigh choked him, he said:

"Come, children, it is growing late, and time you were in bed."

Rising, they kissed their aged grandfather and ascended the stairs to their own little room.

"Shall we hang up our stockings?" asked little Nellie, as she prepared to retire.

"Oh, yes, and we will ask the angels to tell Santa Claus to come, even if it is dark up here. Mamma always used to have a light and a fire for him."

And the innocent child knelt and offered a fervent prayer to the divine babe whose birthday the morrow would be.

The wind still whistled around the old house in fitful gusts, while grim shadows danced on the wall. The grandfather and the old housekeeper in the adjoining rooms slept heavily, and the children wept themselves to sleep. Suddenly they heard sweet strains of music fill the air with melody; a brilliant light shone into the room, in the midst of which they saw their dear mother, holding her hands out to them and smiling sweetly. Then the bright light died away, the music ceased, the lovely picture faded and the two children awoke to see their well-filled stockings hanging by the chimney corner.

And such a dinner of turkey, ham, chickens, puddings, pies, cakes and candies as was at Oak Farm that bright December day, for good old grandpa had overheard the children's conversation in the sitting-

memory of it and their answered prayer of that Christmas eve, and valued the gifts of peace and happiness it brought them, exercising a holy influence over their whole lives.

ELIZA R. PARKER.

SUGGESTIONS FOR PREPARING POULTRY AND MAKING STUFFING.

There are many young housekeepers who will be preparing fowls for probably the first time away from home. It is quite a different matter when one has some one to consult, but when alone, one must depend on their own responsibility.

These suggestions, which I prepared for our "Modern Cook Book," which every young housekeeper ought to own, may help some one to get over this task easier than without them.

The trouble with too many cook-books is that the really practical part is entirely left out. I remember icing a cake for the first time, and as I had no one to ask, could not understand why the icing ran off the cake as fast as I put it on, till the little kittens on the floor were in a fair way to lick it all up; I added corn-starch till I was tired, to stiffen it, and at last it began to stick. Why? Because my cake was getting cold, which I should have waited for before beginning to put it on, but I did not know that then. So many others have helped, probably, to prepare fowls, and yet when left to do it alone it was an entirely different thing.

"Turkeys, geese, chickens and ducks are better killed the day before using, and during the winter, two or three days' keeping will be no injury. Also avoid feeding them twenty-four hours before killing.

The best way is to tie the feet together, hang from a horizontal pole, tie the wings together over the back with a strip of soft, cotton cloth; let them hang five minutes, then cut the throat or head off and allow them to hang until the blood has ceased to drip. Chickens only should be scalded; other fowls and game should be picked dry until all the feathers are removed except the very soft down, then pour hot water on; this will swell the fowl and the down can be easily rubbed off with the palm of the hand. Wipe dry and singe over a burning paper to remove the hair.

If it is an old fowl, feed it a teaspoonful of vinegar a half hour before killing, which is said to make it tender.

Also in boiling a fowl a very little soda added to the water will make it quite tender, or a tablespoonful of vinegar.

To cut up a chicken, lay upon a board, cut off the feet at the first joint, cut a slit in the neck, take out the windpipe and crop, cut off the wings and legs at the joint which unites them to the body, separate the first joint of the leg from the second, cut off the oil-bag, make a slit horizontally under the tail, cut the end of the entrails loose, extend the slit on each side of the joint where the legs were cut off; then, with the left hand hold the breast of the chicken and with the right bend back the rump until the joint in the back separates; cut it clear and place in water; take out the entrails, using a sharp knife to separate the eggs and all other particles to be removed from the back, being careful in removing the heart and liver not to break the gall-bag (a small sack of a blue-green color, about an inch long, attached to the liver), separate the back and breast; commence at the high point of the breast and cut downward toward the head, taking off the breast with the wish-bone; cut the neck from that part of the back to which the ribs are attached, turn the skin off the neck and take out all lumps and stringy substances; very carefully remove the gall-bag from the liver, and

clean the gizzard by making an incision through the thick part and first lining, peeling off the fleshy part, leaving the inside whole and ball-shaped; if the lining breaks, open the gizzard, pour out the contents, peel off the inner lining and wash thoroughly. After washing in second water the chicken is ready to be cooked.

When young chickens are to be baked, with a sharp knife cut open the back at the side of the backbone, press apart and clean as above directed, and place in a dripping-pan, skin side up.

Keeping a pan of water in the oven will keep the fowls from scorching.

Wild game should be first fried in butter before boiling, as it improves the flavor.

If the fishy taste in wild game is objectionable, it can be removed by putting a small onion, cut fine, into the water it is cooked in, or carrots if onions are not liked.

Game can be kept two days in warm weather by cleansing thoroughly, rub the insides and neck with pepper, place inside several pieces of charcoal, cover with a cloth and hang in a dark, cool place.

If, from the odor, you feel they are at all stale, soaking a few hours in charcoal-water or soda-water will sweeten your game when apparently spoiled.

There is nothing so repulsive as under-done game or poultry. Be sure it is well done in cooking.

To select poultry, try if the wing will spring easily or the breast-bone bend readily under the pressure of the thumb. The skin that attaches the wing to the body should break.

A steamer for cooking turkeys can be improvised by placing some pieces of kindling in the bottom of your wash-boiler; on these place your turkey; put in only enough hot water to cover the kindling, cover tightly. If the water boils away, replenish with more hot water. One hour will be sufficient to steam for baking.

CHESTNUT DRESSING.—Shell the nuts, pour on boiling water to remove the skins, then put on to boil in lukewarm water. Cook till soft, then mix with sweet cream, bread crumbs, pepper and salt to taste.

SAGE STUFFING.—Pour enough hot water on the bread crumbs to soften them, put in butter the size of an egg, a spoonful of pulverized sage, a teaspoonful of ground pepper and one of salt, mix thoroughly.

APPLE STUFFING.—Take a pint of tart apple sauce and mix with it a small cupful of bread crumbs, a little powdered sage, a small onion sliced fine, and season with cayenne pepper. This is used for roast goose, duck and game.

POTATO STUFFING.—Take one third of bread crumbs, two thirds of mashed potatoes, butter the size of an egg, salt and pepper, an egg and half a teaspoonful of ground sage; mix thoroughly and fill the fowl.

BREAD STUFFING.—Cut up your bread and leave it dry, season well with pepper and salt, add small pieces of butter, a very little sweet marjoram, which comes in small packages at the drug store; stuff this into your turkey dry, and basting the turkey will give it all the necessary juiciness. This is not so apt to be soggy as stuffing often is. The addition of a few oysters for those who like it is a very great improvement.

The days after a big dinner often find many left-overs, which can be used in this way, and kept a few days so as to have it seem like a new dish:

JELLED CHICKEN OR TURKEY.—Pick all the meat off the bones, and season to taste; soak a quarter of a box of Cox's gelatine in a cupful of cold water; when soft, add a cupful of hot water; when thoroughly dissolved, turn this into your meat, heat over the fire for a few minutes with any gravy that may be left over, and then turn it into a bowl or a mold. This will keep nicely for a week in cold weather, and will slice down nicely for tea.

CROQUETTES.—Chop the meat left of your fowl very fine, mix with mashed potatoes and bread crumbs, season to taste and form into balls, roll them in fine cracker crumbs, and fry in deep, hot, lard-like doughnuts.

Duck is a nice change from other poultry, but should not be allowed to dry out in cooking. The following recipe will be found a good one:

ROAST DUCK.—Prepare your duck for roasting, and use the following stuffing: Chop fine and throw into cold water three good-sized onions, one large spoonful of

sage, two tablespoonfuls of bread crumbs, a piece of butter the size of a walnut, a little salt and pepper and onions drained. Mix well and stuff the duck. If an ordinary-sized duck, bake one hour.

LOUISE LONG CHRISTIE.

A CONTROVERSY.

To the turkey spake the pig:  
"Gobbler, pray don't feel so big,  
Don't you see  
People eat pigs all year through?  
One meal's quite enough of you,  
He—He—He!"

Turkey cleared his throat and said:  
"Has it entered your thick head?  
Priggish snob!

I'm so very good, you dunce,  
That they eat me up at once,  
Gobble—gob!"

—A. L. K.

BEDROOMS.

While one of our most prominent American women was visiting the Old World, she accepted an invitation to visit a noted European princess. All the beds and bedrooms in the palace, with the exception of one, were furnished in the most luxurious manner, with tapestry on the walls, carpets on the floors, and hangings and canopies for the beds.

The princess' own room was the exception. It was furnished in the greatest simplicity. The walls were calcimined white, the floor was painted, the windows had shades only, the bedstead was of brass, with no drapery of any kind. There was no other furniture in the room except that necessary for toilet purposes. The princess had, in her childhood home, been accustomed to living in the greatest simplicity, and her bedroom was modeled after that in her parents' home. The American lady said it was refreshing to view the simple room, after seeing the other luxurious ones.

While draperies and canopies for bedrooms and beds are all the style, as they were in our grandmothers' day, they cannot be commended from a hygienic standpoint. An ideal bedroom is like this European princess'—free from paper, carpet (except rugs, which can be frequently aired), curtains, draperies and clothing. During sleep, the lungs—even in health and much more so in sickness—are throwing off poisonous emanations. A part of these are stored in the paper, draperies, etc., to be again reabsorbed in the system.

While an ideal bedroom has a closet-room adjoining it, which can also be ventilated, some persons do not possess the closet-room, and consequently must keep their wearing apparel in their sleeping-room. While they must keep their clothing in this room, they need keep no unnecessary draperies.

As soon as the occupants have left their beds, the shades should be drawn high up and the windows thrown wide open, to remain so during the day. If the weather is favorable, all the bedding ought to be aired every day in the sun. If this cannot conveniently be done, upon rising, the bedding should be placed before the open window on chairs; and once a week the bedding, including mattress, ought to remain out in the sun an entire day.



CHAIN-STITCH TRIMMING, IN TWO COLORS.

room, and their prayer at their bedside asking the divine infant to send Santa Claus had reached his ears, and at midnight he had called up one of the farm-hands and sent an order to the neighboring town for everything needful to make the children happy, as well as a note for Santa Claus, while faithful old Nancy had prepared a dinner that more than surpassed their expectations.

Willie and Nellie Carlton knew that their vision of their mother was only a dream, but they always treasured the



PHOTOGRAPH-HOLDER.



PORTIERE.

Fresh air must be admitted at night into the room, in winter as well as in summer. There ought to be a circulation of air. This can be obtained by having opposite windows open in the same or an adjoining room.

Don't make the mistake of thinking that because the air of your room is cold it is pure. Cold air is not necessarily pure air.

SOPHIA N. R. JENKINS.

In sending in your subscription for this journal, do not overlook the fact that you are entitled to a valuable Free Gift in addition to the paper. See our offers on another page.

## Our Household.

### A ROSE OF THE GARDEN OF FRAGRANCE.

(From the Persian of "Sa'di's Bostan," an unpublished poem, by Sir Edwin Arnold.)

*Of hearts disconsolate see to the state;  
To bear a breaking heart may be thy fate,  
Help to be happy those thine aid can bless,  
Mindful of thine own day of helplessness.*

*If thou at others' doors needst not to pine,  
In thanks to Allah turn no man from thine.  
Over the orphan's door protection spread;  
Pluck out his heart-grief, lift his drooping head:*

*When, with his neck bent low, thou spiest  
one —*

*Kiss not the lifted face of thine own son.  
Take heed such go not weeping. Allah's  
throne*

*Shakes to the sigh the orphan breathes alone.  
With kindness wipe the tear-drop from his  
eye;*

*Cleanse him of dust from his calamity.*

*There was a merchant, once, who, on the  
way,*

*Meeting one fatherless, and lamed—did stay  
To draw the thorn which pricked his foot,  
and passed,*

*And 'twas forgot; and the man died at last!  
But in a dream the Prince of Khojand  
spies*

*That man again, walking in Paradise—*

*Walking and talking in the blessed land,  
And what he said the Prince could under-  
stand.*

*For he said this, plucking the heavenly  
posies:*

*"Ajab! that one thorn made me many  
roses."*

\* Ajab, wonderful.

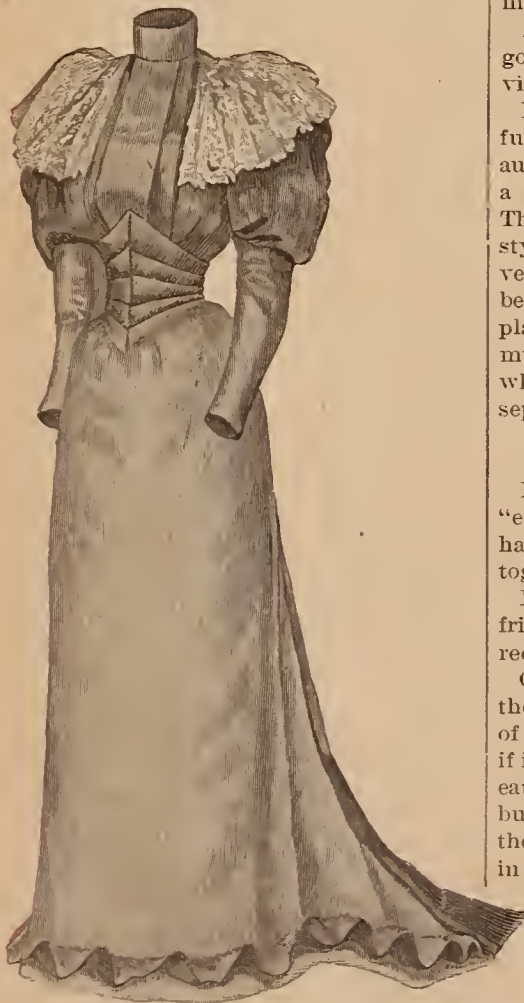
### COMFORTABLE DRESSES.

It used to be the climax of a woman's wishes to possess a silk dress; now it is a handsome wool, or wool and silk mixed; but a silk dress is for the present day reserved more for evening and ceremonious wear.

The beautiful quality of the wools of this winter, in serges, diagonals, beauglines and poplius make them a very desirable dress.

The rough novelty cloths are in high favor, as they seem to stand the weather and rough wear longer than anything else.

The best way for everyone to do is to have but one dress for all-the-time wear. This should be made in a good style and worn out with the season, for nowadays the cut goes out of style as quick as the goods itself. Many ladies make a coat



PRINCESS DRESS.

the dress material, and with the addition of a boa or fur cape, it answers very well, and one does not tire of it as soon as a cloak which is always gone the second season.

If you wear a garment beyond its time, flatter yourself that it deceives no one but yourself.

It is a pity the shawl went so completely out, as it was always a neat, handsome article for a lady in middle life, and did away

## Bill of Fare

—FOR—  
**ONE WEEK.**

### SUNDAY.

Tongue. Canned Corn.  
Saratoga Potatoes. Lettuce, with Eggs.  
Pickles. Currant Jelly.  
Peach Pie. Coffee. Grated Cheese.

### MONDAY.

Roast Beef.  
Potatoes (baked with the meat.)  
Parsnips. Spinach.  
Baked Custard. Apples. Nuts.  
Raisins. Coffee.

### TUESDAY.

Roast Lamb. Baked Potatoes.  
Macaroni, with Cheese. Cresses.  
Tapioca Pudding, with Hard Sauce.  
Cake. Coffee.

### WEDNESDAY.

Meat Pie. Mashed Potatoes.  
Cold Slaw. Baked Corn.  
Beets. Steamed Apple Dumplings.  
Confectionery. Coffee.

### THURSDAY.

Stewed Veal. Vegetable Rice.  
Potatoes, with Veal. Carrots.  
Peach Cobbler. Chocolate.

### FRIDAY.

Baked Hash. Turnips.  
Mashed Potatoes.  
Carrots and Rice. Hot Slaw.  
Apple Sago. Coffee.

### SATURDAY.

Hamburg Steak. Potatoes.  
Baked Beans.  
Oyster-plant. Hominy.  
Mixed Pickles.  
Apple Pie. Pumpkin Pie. Cheese.  
Coffee or Tea.

with the constant bother about providing a new cloak every two or three winters.

The dresses we illustrate are both good styles, and can be made warm enough to dispense with the outside wrap in many places.

The Empire style prevails in many models, and is very much liked. The changeable silks which come to match the goods make the waist, sash and the trimmings.

A skirt and bodice and coat of the wool goods with a silk waist makes a very serviceable suit.

**PRINCESS DRESS.**—This beautiful style is suitable for young and old, the plaited girdle giving a good effect about the waist. The skirts are trimmed in various styles of plaiting, box-plaits of velvet, faced with changeable silk being a favorite. The old knife-plaiting is revived, and used very much on the foundation skirt, where the cloth skirt is made separate. L. L. C.

### HOME TOPICS.

**HASH.**—"Well," says some one, "everybody knows how to make hash of meat and potatoes chopped together."

Beg your pardon, my good friend, but these are not the only requisites of good hash.

Cold, boiled corned beef makes the best hash, but it may be made of any cold beef, roast or boiled, if it has been well cooked. I have eaten hash made of cold steak, but think it is much better if the pieces of steak are first stewed in a little water until they are perfectly tender and well done. In cutting the meat for hash, reject all bits of gristle and tough membrane. Have the meat nearly all lean. Chop the meat with

twice as much potato in a wooden bowl until it is very fine. Season with pepper and salt if the meat used is not salt. Put a tablespoonful of drippings and a tablespoonful of butter in a small kettle, let it get hot and then put in the hash. Put on the cover and set it on the stove. Stir it well once or twice while it is heating and do not add more than a tablespoonful of water, if any. I very seldom add any water.

If you like brown hash, prepare as above, but instead of using the kettle, put in a frying-pan, pressing it down well, put on the cover and do not stir it until it is brown on the bottom, then fold it over like an omelet and turn it out on a platter. If you have no cold potatoes, hash the meat very fine, put a tablespoonful of butter in a frying-pan, with a teacupful of gravy or stock, or lacking either, of water, put in the meat, and when it is hot, pour it over slices of toast and serve.

**CURRIED MUTTON.**—Cold mutton is never relished very well, and especially in the winter, but the remains of a boiled or roasted leg of mutton will make a nice dinner when prepared as follows: Put a tablespoonful of butter in a small pot, and when it is hot, put in half an onion minced fine. Stir it and let it fry until the onion is yellow; then put in the slices of meat which you have cut from the bone, dust in a spoonful of flour and stir all together for two or three minutes, then add a pint of broth which you saved when the mutton was boiled, and half a cauliflower of tomatoes; season with salt, pepper and a scant half teaspoonful of curry-powder. Let all simmer together for about forty minutes and serve with boiled rice. In commencing to use curry-powder, it is best to use only a very little at first, as many people must acquire a taste for it, although nearly everyone likes it when only enough is used to give a delicate flavor. It is nice in gravies, and soup also.

**CHRISTMAS AND GIFT-GIVING.**—Year by year the practice of giving gifts at Christmas has increased, until there is danger that instead of the sweetness and brightness that should crown this day of days it may be filled with small evils, jealousies and heart-burnings. To guard against this, let us not for a moment lose sight of the meaning of Christmas and the blessed gift our Father gave to humanity, which all gift-giving should commemorate. If this is done, who will dare give one gift which is not prompted by love? We cannot afford to lose sight of the true Christmas spirit or have it supplanted by one of selfishness and greed.

Begin very early to teach the children the true spirit of giving. Teach them to think of the poor, the sick and those to

worries. Life cannot be all sunshine for any of us, but there is no better way to ease our own aching hearts than in trying to give joy and comfort to others.

"Oh, blessed-day, which givest the eternal lie To self and sense, and all the brute within! Oh! come to us amid this war of life; To hall and hovel, come; to all who toil In senate, shop or study; and to those Who, sundered by the wastes of half a world, Ill warmed and sorely tempted, ever face Nature's brute powers, and men unmanned to brutes,

Come to them, blest and blessing, Christmas day.

Tell them once more the tale of Bethlehem, The kneeling shepherds and the babe divine, And keep them men indeed, fair Christmas day."

MAIDA McL.

### CHRISTMAS DAINTIES FOR THE FARMER'S HOUSEHOLD.

The abundance of milk, butter and eggs that should be in every farmer's household renders it easy for the housewife to serve her family with many delicious dishes for the Christmas dinner and the holiday entertainments.

The recipes here given are composed chiefly of such material as the country affords.

**MERINGUE CUSTARD.**—Take one quart of milk, four eggs and one cupful of sugar. Heat the milk, beat the eggs and sugar together, pour the boiling milk over them and stir over the fire until nearly ready to boil. Take up, flavor with nutmeg and set in a cool place. When ready to serve, fill custard-cups, cover with meringue made of the beaten whites of three eggs and half a cupful of sugar.

**CUSTARD BLANC MANGE.**—Make custard of one quart of milk, four eggs and a teacupful of sugar. While boiling, stir in one ounce of gelatine. Flavor with extract of lemon. Pour in a mold; when cold, turn out and serve with whipped cream.

**FRUIT BLANC MANGE.**—Take a can of strawberries, raspberries or currants, stew, and strain off the juice; sweeten and place over the fire. When it comes to a boil, stir in a tablespoonful of moss farina to every pint of juice, add a pint of milk, set on ice to cool. Serve with cream and sugar.

**CHARLOTTE DE POMME.**—Cut six sour



STREET COSTUMES.

whom Christmas cheer will not come except they help to bring it. Let them early learn the blessedness of denying self to give joy to another, and Christmas will hold a meaning and a power that has been too often pushed aside.

If our hearts are wrung with sorrow or filled with anxiety, don't let us cloud and disturb the blessed influences of the Christmas season for those around us by our own

apples into quarters, peel and put them in a kettle with a little hot water and a cupful of sugar; stew until they are clear. Take up, line a large glass bowl with slices of stale sponge-cake, turn the apples in, make a round hole in the center and fill with currant jelly. Set in a slow oven for an hour. Turn out on a dish, lay slices of sponge-cake on top and eat with sugar and wine.



**CHRISTMAS FLOAT.**—Beat the whites of six eggs, add six tablespoonfuls of sugar and beat until stiff, add a cupful of currant jelly and set on ice. Serve on saucers with whipped cream.

**VELVET CREAM.**—Take two tablespoonfuls each of strawberry and currant jelly, two tablespoonfuls of sugar, the whites of two eggs well beaten; whip a pint of cream and add. Beat all together and set in a cool place.

**CHARLOTTE RUSSE.**—Line a mold with slices of stale cake. Make a pint of rich custard, set on ice until very cold. Beat the whites of three eggs stiff, mix with a pint of whipped cream and stir in the custard. Pour in the mold and set on ice.

ELIZA R. PARKER.

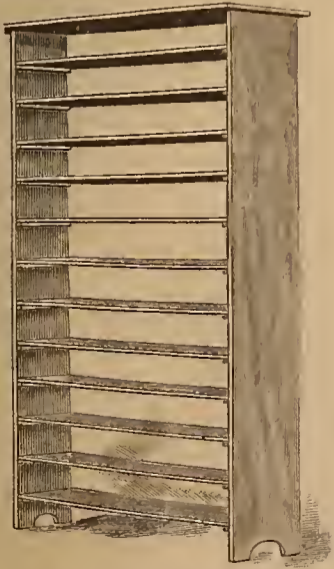
**CONVENIENT PIE-BOARD AND CELLAR SHELVES—EVERY FAMILY OUGHT TO HAVE THEM.**

I mean the contrivances pictured in the cuts below. The first is a bread or kneading board, and is so convenient, simple and cheap in construction that no man can give his wife a laudable excuse for not having one made. This one is made of soft maple, is three feet deep by four in length, and has a strip of pine mortised at each end to prevent warping. This size gives plenty of room to roll pies and yet leave space for the pile of pie-plates, flour-dredger, sugar, lard, etc.; while on the shelf above is the spice-box and bottles of flavoring extracts. The drawer below the shelf contains the rolling-pin and cake-cutters.

The cut speaks for itself, and shows accurately how the board is made, and how it looks when the supports are folded up and the kneading-board turned to the wall. The busy, economical housekeeper who often wishes to make the same fire answer for cooking a meal and baking a batch of pies, and yet dreads to get the kneading-board in the way while she is so busy, will appreciate the utility of this simple convenience; and if her men folks only knew it they would have many little luxuries they now do without, simply because it is too tiresome and laborious to lift and carry everything back and forth from the pantry four or five times a week.

If you have a shady back porch, have one of these hinged tables fastened to the wall, and you will find that in summer you will do the major part of your work on it. Vegetables can be prepared for cooking and fruit for canning, while if you bring your gasoline on the porch also, half the terror of that operation is abated; dishes can be washed on it, and indeed you will find so many uses for it that you will wonder how you ever got along without it.

The second cut portrays a set of shelves for the cellar. So very simple are they that any man who can handle a saw or hammer ought to make one the first rainy day. They were intended for shelves to hold milk-pans, but will be found useful for many other things beside. The model from which this was drawn had curtains of cheese-cloth, front and back alike; the upper edge of the curtain had several eyelets worked in the hem to slip over the small



CELLAR SHELVES.

brass nails on which they were hung, making laundering so easy that no excuse could be found for not keeping them fresh and clean. I would suggest as an improvement that wire netting be tacked tightly over the back, while a door of the same be hinged to the front, thus precluding the possibility of a wandering breeze lifting the curtain to admit flies.

The farmer's wife will find this convenient for milk, while her urban sister will find, if she places her week's marketing in such a place, where the air can circulate

freely, that her meat and vegetables will keep longer and in better condition.

The very first time I went to town I would buy a small-sized zinc, such as are used for setting stoves on, to have on my kitchen-table for setting kettles on. A board will answer the same purpose, but will require scouring every time it is used, while the zinc can be washed in a minute.

JESSIE M. GOOD.

**NOVELTIES FROM OUR EXCHANGES.**

**CHRISTMAS BAGS.**—A work-bag is always an acceptable gift to a woman, and a handsome one is easily made of a strip of velvet one half yard long and one quarter yard deep. A rich peacock-blue lined with gold-colored surah is a good combination. After sewing up the velvet bag, string some gilt sequins about the size of a five-dollar piece, and sew them on closely so that they will overlap. This forms a finish for the bottom. Then insert the lining, make a shirr at the top, leaving an inch and a quarter for a heading, and draw the bag up with a narrow silk tape or ribbon to match the surah.

A yard of Roman stripe sash ribbon eleven inches wide will make a showy work-bag. Cut a circular piece of cardboard about sixteen inches in circumference, and cover it with a part of the ribbon, using a plain silk for lining. Join the piece remaining, gather at the lower edge, and sew neatly to the cardboard. Make a shirr two inches wide, and draw it up with a narrow silk tape or ribbon.

A bag made of brocaded rose-colored sash ribbon (remnants may often be found), with the design outlined with Japanese gold thread, and with a fringe of sequins on the bottom, is very effective. It may be of any depth desired, and should simply be sewed together and drawn up with a ribbon. The little spool-bags are useful and quickly made. For these a strip of gay ribbon, silk or cretonne may be used, and this should be nine inches deep and eight inches wide. Turn up a piece at the bottom according to the height of the spools to be used, and divide into three little pockets. Finish neatly at top and sides, and suspend by a ribbon.

A fan-bag is something new. It is made of white gros-grain ribbon three inches wide, and this is embroidered through the center with some simple design in old blue or pink. After the embroidery is done, the ribbon is simply doubled and seamed together, and finished at the top with a bow. A safety-pin is secured to the back of the bag, by which it may be pinned to the bodice. A knitting-bag made of brocade and lined with silk or satin of a harmonizing color, would be gratefully received by a lady devoted to knitting. This bag may be one yard long (if intended to hold the very long knitting-pins) and a quarter of a yard wide. The front is cut down a quarter of a yard from the top, rounded out slightly, and the top is plaited up into a kind of fan, which allows the bag to hang open when suspended. The top is trimmed with bullion cord, and bullion fringe finishes the bottom.

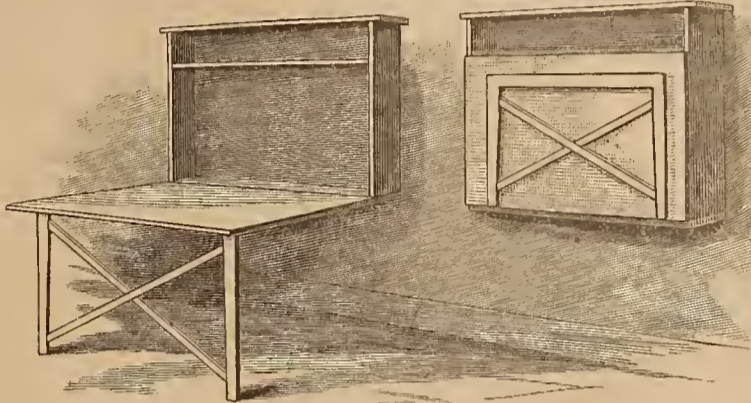
The "Boston bag" has become so well known that even Mr. Howells has honored it, in his humorous way, by mention in "A Hazard of New Fortunes." This bag is made of canvas of the kind called art burlap. A strip half a yard long and thirteen inches wide is used for a good-sized bag. This is embroidered in cross-stitch with some simple design in colored worsted, or worsted and silk, and all the materials may be bought with the work commenced to show the pattern. An inside bag of silk or satin, made full and long enough to reach to the top of the leather handles which are sold with the canvas, is put in. The whole is finished with a silk cord to match, and the bag is drawn up with ribbons.

A laundry-bag is always useful, and it may also be made ornamental enough to serve as a gift. Turkey-red is a suitable material for this, and three yards of twenty-seven-inch-width goods will be needed. Divide this in three equal lengths, and cut two of them through the center down to a depth of sixteen inches. Face this opening all around with a three-and-one-half-inch strip of any gay gingham or

plaid to harmonize, and stitch a piece of the same material across the bottoms also. Sew this bag together, inserting the third strip of Turkey-red for a lining. This makes of it a double bag with openings front and back. Gather the top together into a space of twelve inches. Put on a band exactly like that of an apron, and when it is stitched, slip in a strip of wood, such as is used in the lower edge of window-shades. Suspend by two pieces of red worsted braid, each about twenty-two inches long.—*Mary Frances Harman, in Harper's Bazar.*

**TO HOLD MUSIC OPEN.**—A very nice contrivance to lay upon the music-rack and to hold the music open is made of half a yard of three-inch ribbon; the selvage edges are overhanded together, and the tube thus made is filled with fine sand. The ends are tied first with a thread of silk, and this is concealed by a narrow ribbon and bows. A music-staff and a few bars of music may be put on the ribbon with gold paint.

I have lately seen tapestry or dye paints used in a variety of ways, and here is the prettiest of work, lately exhibited at the Pratt institute, Brooklyn, N. Y. It was on a handkerchief-case of delicate blue satin. A very open pattern was couched over the



CONVENIENT PIE-BOARD.

stamping with gold cord. This left the pattern bare, but wholly inclosed with the cord, and this inclosed part was dyed a deep copper color. Another, made of white satin, was dyed with pink. The work had the effect of applique, but was so much more delicate than any applique-work could be that it is worth a deal of pains to try it.

**A UNIQUE HOLIDAY GIFT.**—A young lady of this city, who is now in the far West, where she went a year ago for the benefit of her health, will receive to-day one of the neatest and most unique presents imaginable.

It was designed by one of Utica's bright young school-teachers, and is in the form of an autograph calendar. Three hundred and sixty-six sheets of paper, six by four inches, were obtained; each of these had the month, day of the month, and day of the week written at the top. They were then sent out in all directions with a request that they be returned with some sentiment—original or selected—written thereon and signed with the friend's name. Many of the original contributions contain pleasant reminders of incidents in the young lady's life. Over two hundred and fifty persons contributed to the calendar; a large number from this city, of course, but others came from other parts of this state, from Utah, Colorado, Minnesota, South Dakota, Illinois, Georgia, Maryland, Connecticut, Massachusetts, New Hampshire and Wales.

A lady of Little Falls painted "1892" and a spray of beautiful roses on a piece of glazed celluloid twelve by eight inches, and the calendar was attached to this by means of yellow ribbon in such a manner that the sheets could be read without being detached. Some of the friends who received the sheets returned ten and five dollar bills with them. These were inserted in the calendar, where the names of the donors occurred.—*Utica Morning Herald and Daily Gazette.*

**JEWEL CUSHION.**—Cut two round disks from yellow India silk, each measuring nine and a quarter inches in diameter, and place between them a few layers of cotton batting sprinkled with sachet-powder. After turning it and basting together the edges of the two pieces of silk, neatly blind-stitch or overhand them together; then take a piece of lace twenty-nine inches long and four and a half inches wide, and after sewing the two ends together, gather the lace up tightly along the straight edge, to form a circular frill, and catch the center of this firmly down to the center of the cushion. Next form into loops a bolt of very narrow ribbon, making the loops long enough to extend from the center of the cushion to its edge. Now sew the open end

of each loop to the center of the cushion, and allow the loop end to lie loosely. The ribbon will fall gracefully over the lace, as seen in illustration.

This pretty gift is ornamental for dressing-case or bureau, and exceedingly useful as a soft pad on which to place watches, rings and other articles of jewelry.—*Dentorest's Family Magazine.*

**PEA-POD PINCUSHION.**—The pea-pod pincushion is very ornamental when fastened to mantel drapery. The pea-pods are made of cartridge-paper covered with green silk, the little peas of balls of green chenille of a lighter shade than that used for the pods. Tendrils are made of twisted cap-wire covered with chenille or purse silk. A very fine wire is sewn along the ridge of the half-open pods to keep them in shape, and to allow of the ornament being twisted and arranged gracefully. Three or four pods look better than only two on a bunch, but this cushion is never made large. It is tied into position with a bunch of green and blue ribbons.

A simple and effective flat pincushion is made like a long square, but buttoned down, church-cushion fashion. The length of such a cushion is from five to six inches, the width three or four and a half inches, and the depth one inch. The sides are velvet, the top and bottom of a dark rich satin. The lining is first made, then stuffed with wool, and if of the largest size, twelve places sewn strongly down in it, and the parts surrounding them well puffed up. Satin is laid over the top part and the indented places again sewed through, each being finished off with a little tuft of white chenille, and the satin sewed neatly around the edges. A piece of plain satin is arranged to cover the bottom, and narrow ribbon velvet is sewed around the cushion's sides. All shades of satin or velvet can be used in making these articles, and two contrasting shades used together form a variety. These flat cushions are suitable for presents to gentlemen, as, being devoid of lace and finery, they do not require care.

A darky pincushion, instead of having for its foundation an ordinary black doll, is made of five skeins of single Berlin wool. Fold the wool all up until it is eight inches in length, then tie it tightly together an inch and a half from the top. This forms the head. To make the arms, detach about thirty strands of wool on each side from the main body, and cut them so that they measure two inches in length. Tie them tightly near the lower ends, leaving the little tufts of ends to imitate hands. Two inches below the neck tie the main part of the wool again together; this forms the body; then separate the remaining wool into two portions, for the legs, tie each leg two inches down, and leave long tufts to imitate the feet. Wind up a little scarlet wool around every part that has been tied, and with the scarlet wool give features to the head, making eyes, nose, mouth and ears. This little pincushion is an easy one to sell at fairs, the cost being trifling, and it looks quaint.

**LITTLE ROUND FRAMES** to hold a small picture, with round opening for the same, are very pretty, and the shape novel. They are covered with white linen, and tiny sprays of forget-me-nots in water-colors are scattered over them. A little ring, crocheted around with white floss, is fastened to the top to suspend them by. Of course, any one who can work neatly, but is not able to paint, might make the same style of frame, covered with India silk or brocade in small pattern. The shape may be cut from pasteboard, and the back and front covered separately and then glued together.

**PAPER-HOLDER.**—If you want an inexpensive holder for newspapers, procure a couple of slates, one a little larger than the other. Bore two holes in one side of each, at equal distances from the center, pass ribbons through and tie the slates together. Bore holes in the upper corners of the slates, put picture cord through with which to suspend the holder. Cut one cord a little longer than the other, and use the longer cord for the smaller slate, which forms the front of the holder. Before putting the slates together, stain the frames a dark brown with walnut stain, and varnish them two or three times. When the frames are dry, paint a small landscape on the smaller slate—a winter scene is most effective—and while still damp, sprinkle with diamond dust. The background is left the natural color of the slate. Use tube paints, choosing silver-white and very pale tints of pink, blue and brown.—*Mrs. J. Wylie.*

You cannot afford to be without our Portfolio of 100 Superb Photographs. See particulars on another page.

Our Sunday Afternoon.

THE KING'S SHIPS.

God hath so many ships upon the sea! His are the merchantmen that carry treasure, The men-of-war, all hannered gallantly, The little fisher-boats and barks of pleasure. In all this sea of time there is not one That sailed without the glorious name thereon. The winds go up and down upon the sea, And some they lightly clasp, entreating kindly, And waft them to the port where they would be; And other ships they buffet, long and blindly. The cloud comes down on the great sinking deep, And on the shore the watchers stand and weep. And God hath many wrecks within the sea; Oh, it is deep! I look in fear and wonder; The wisdom throned above is dark to me, Yet it is sweet to think his care is under; That yet the sunken treasure may be drawn Into his storehouse when the sea is gone. So I, that sail in peril on the sea, With my beloved, whom yet the waves may cover, Say—God hath more than angel's care of me, And larger share than I in friend and lover. Why weep ye so, ye watchers on the land? This deep is but the hollow of his hand. —Boston Transcript.

THE CHARM OF COURTESY.

If woman could ever learn that it is quite possible to combine affability with dignity in commonplace, daily intercourse with their fellow-creatures, this would be a far brighter and more agreeable world. Nine tenths of the gentlewomen one knows would no more address an unacquainted female than bite off a bit of their own tongues. Not once in a blue moon do they dare converse with their servants, the clerk behind the counter, the chance companion of a railway journey, or even the lady who has dropped in to call on a mutual friend.

Awkwardness and timidity, with a sense of alleged well-bred reserve, seal their lips to every form of communication. In their shyness and stupid fear of furnishing an opportunity for undue familiarity, they go through life like oysters, as far as those outside their narrow circle are concerned.

But thank heaven, there is a woman, and her tribe is increasing, who realizes all of the beautiful opportunities and rights the gift of speech gives her. She can afford to talk to her domestics about any and everything, and cement their affectionate respect with every word uttered.

Her kindly recognition of the shop-girl and fragment of pleasant gossip across the yardstick is a wholesome break in a clerk's dull day. To sit beside a respectable female for an hour's train travel, and not exchange greeting as two human beings touching in their journey of life, would confound her kindly nature. She is sure of her dignity, and strong in its integrity, affords to do what possibly a less fine-grained nature shrinks to essay. Her friendly, well-chosen words are as far removed from volubility as her cordial manners are from gush.

Recognizing the power of speech as the most potent of spells for removing dull, unlovely discontent, embarrassment and loneliness, she is free with worthy thoughts graciously expressed. It is noticeable that such women never leave drawing-room, kitchen, shop or coach that every other creature of her kind present does not acknowledge to herself the supreme excellence of courtesy above all other feminine charms.—Illustrated American.

REFORMATION.

Reformation is largely becoming a substitute for religion. Reformation is essential, and should not be undervalued; but reformation without regeneration as a basis is a poor substitute for gospel salvation. A great mistake is made by modern ministers when they leave the impression on the mind that sinners can be transformed into saints simply by a change of purpose or a change of life—they must have a change of character, a radical change of heart; a divine liberation from the bondage of carnality into the freedom of divinity; a conversion from sin to holiness.

A reformation based on a good purpose for the future, without a genuine reconciliation to God, is of no worth; and reconciliation is impossible without repentance. True reformation follows repentance as a necessary result, while human reformation overlaps repentance and tries to work its passage through to glory without divine

aid. A reform that is not preceded by repentance will never transport a sinner from this world to the world to come. A heart-probing experience cannot be improved upon by modern substitutes.

SOME THOUGHTS FOR YOUNG CHRISTIANS.

- 1. Do not consider the Christian life completed now, but only begun.
2. Do not depend upon your emotions for evidence of your piety.
3. Do not expect your experience to be just like that of some one else.
4. Do not expect the fulfillment of all the promises at once; "Patient continuance in well doing" is a necessary virtue, and will find its reward.
5. Do not expect to be a successful Christian without observing the injunction, "Watch and pray."
6. Do not expect to be really happy unless you are diligent in the master's vineyard.
7. Do not accept any standard as worthy of imitation, save that of Jesus Christ.
8. Do not be a periodical Christian; your privilege, as well as your duty, is to be "always abounding in the work of the Lord."
9. Do not fail also to incite others to diligence in the Master's work; the King's business requires haste. "Do with thy might what thy hands find to do," etc.
10. Be not discouraged, although you are deficient in all these things; the province of the Christian is to overcome.—Rev. S. H. Potter.

ORIGINALITY IN PRAYER.

Let the words we use in prayer be our own. Many who would never think of reading their private prayers from a book might about as well, so far as any real employment of their own mind in the exercise is concerned. They float along on a current of stereotyped phrases and dead words, which have become so familiar by long habit that no thought is awakened, no energy put forth, no impression produced. It is the laziest of performances, empty of any definite meaning or actual benefit. If we have fallen to any extent into this vicious custom, we should bring ourselves up with a round turn and make a change. We should carefully and deliberately choose expressions that mean something to us, that bear the stamp of our own intellect, that originate with the need of the hour. It is better to say ten words in this way, slowly, hesitatingly, than to pour forth one hundred in the fluent fashion that indicates neither feeling nor reflection.—Christian Standard.

CHURCH MOORINGS.

An old sea captain was riding in the cars, and a young man sat down by his side. He said: "Young man, where are you going?" "I am going to Philadelphia to live." "Have you letters of introduction?" "Yes," said the young man, and he pulled some of them out. "Well," said the old sea captain, "have you a church certificate?" "Oh, yes," replied the young man; "I did not suppose you desired to look at that." "Yes," said the old sea captain, "I want to see that. As soon as you reach Philadelphia present that to some Christian church. I am an old sailor, and I have been up and down the world; and it is my rule, as soon as I get into port, to fasten my ship fore and aft to the wharf, although it may cost a little wharfage, rather than have my ship out in the stream, floating hither and thither with the tide."—Christian at Work.

PRAY AS IF YOU MEAN BUSINESS.

It was said of the prayers of Dr. Doddridge that they had an intensely businesslike spirit. I suppose this means that prayer to him was not a reverie or a romance, but a reality. He expected to get something by it. It was a substantial transaction, as much as when he went to get a check cashed at the counter of a bank. It was a power, as much so as when he set in motion any physical agency appointed by God to procure results in the kingdom of nature. I see not why all our prayers should not have this air of business, all, at least, that are chiefly occupied with petition. Our petitions should be exceedingly definite. "Ax him summat, man, ax him summat," was the rebuke given by an old Scotchman to one that had long been going round and round in a form of words without seeming to come out anywhere or reach any point.

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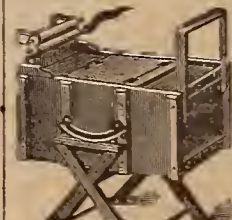
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Farm Cleanings.

BEES AT FAIRS.

One of the attractions at agricultural fairs is the "bee exhibit," shown at many state and county fairs.

She took up beekeeping, she said, as an experiment, became discouraged and thought she must give it up, but persevered and won, and now has occupation (raising small fruits and keeping bees) that is both entertaining and profitable.

That is what agricultural fairs are for, or ought to be, to exhibit all the processes of agriculture and allied industries, and the results of their operations.

It is true that the premiums at fairs for bees and "bee things" may be few and small, but in some cases this is due to the beekeepers themselves.

First of all, let the beekeepers, in any place, organize. A society, however small, has always more influence than individuals.

There is an object in exhibiting bees and their work. It advertises the beekeeper, it helps every way as much as the exhibition of other things, and it stimulates emulation in improvement of methods and progress generally.

The article in FARM AND FIRESIDE of November 15th, "The Value of Some Waste Products," is of great value to the farmer if its instructions are followed.

A bushel basket well pressed and heaped with dry, cut stalks will suffice for a cow, but she will not eat the coarser portions.

Now, contrast this with the practice of feeding stalks whole, on the ground in mud and snow, where at least one half is

wasted, and some idea can be formed of the immense waste that is helping to keep the farmer poor.

I can truly say, that the comfort of doing things right is far greater than the extra work.

THE VALUE OF BUTTERMILK.

The value of buttermilk is not as much appreciated as it deserves to be. As a beverage it is of so much worth that it has gained a distinct place in "materia medica" and is largely prescribed by the best physicians in chest and lung ailments and in most forms of kidney troubles.

There are many other good effects from the free use of buttermilk. It alone will often remedy acidity of the stomach. The lactic acid needed in many cases is supplied by it, much more than by any other drink or food.

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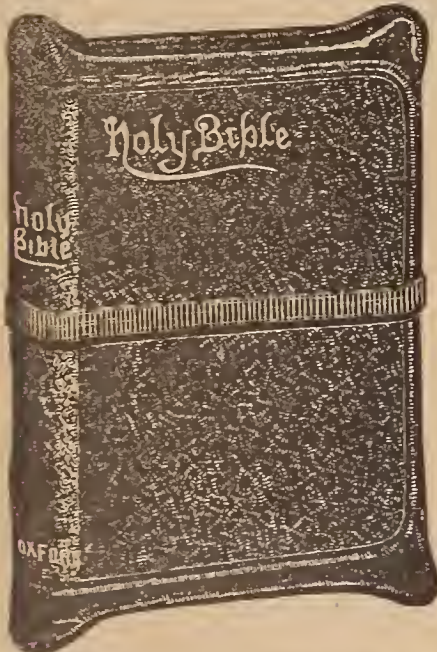
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