

Vol XX No 39.

MONTREAL, CHICAGO and SPRINGFIELD MASS DEC 1 1899

50 Cts a Year

Dominion and Financial Affairs.

Our Foreign Trade in Produce.

Canada's best customer the past 31 years has been the mother country, says Statistician Johnson. She has taken more than one-half of the whole, or \$1,260,565,563 in this period. Our next best customer has been the U S, which country has taken over \$955,000,000, or 305 millions less than the U K. The B W I come next with purchases from us amounting to nearly 60 millions. Newfoundland has taken 49, France 12, Germany 9, and all other countries 118 million. Great Britain began in '68 by taking about 18 millions of our products; by '72 she had got beyond 25, by '82 nearly 40, by '92 beyond 54, after which year her takings increased steadily till, in '98, they were over 93 millions.

The U S has shown no such activity in buying from Canada. In '68 the purchases of that country from us amounted to over \$22,000,000. By '72 they had increased to nearly 30; by '82 to 41 millions. That is the highest figure their purchases ever reached. They have been steadily decreasing, and in '98 they were only \$34,400,000. During the 31 years Great Britain's purchases from us have increased five times what they were in the first year of confederation. In the same period the U S purchases have increased about two-thirds more than they were in '68. Great Britain, which purchased in '68 \$1,400,000 less than the U S, bought in '98 \$58,300,000 more than the U S. The development which has taken place during the period under consideration may be seen by the comparison of 1868 and 1898:

CANADIAN EXPORT VALUES COMPARED.

	1868	1898
Cheese	\$ 620,543	\$17,572,763
Butter	1,038,042	2,046,086
Flour	2,254,489	5,425,760
Wool	12,506,484	22,683,748
Ships	837,522	191,069
Other manufactures	2,331,198	8,304,296
Total	\$20,278,347	\$56,224,322

Keep a Dog and a Gun.

A farmer living near St Thomas, Ont, made the remark that he was going to procure a dog and a gun and keep both loaded. The remark was caused by a robbery that recently occurred in the neighborhood. Three masked burglars entered a house at about 9 o'clock in the evening and pointing revolvers at the inmates, forbade them to make an outcry. There were four women and an old gentleman of 80 years sitting around the stove at the time. The inmates were completely cowed by the burglars, who helped themselves to all the valuables in the house and departed. There was a revolver in the room, but it was not loaded, as is generally the case. Another household in the neighborhood was aroused a few nights previously by the barking and snapping of a terrier dog, who no doubt was the

cause of the burglars' calculations failing. House robbery has become a common occurrence and the best preventive is a little cur with a big bark. A good revolver, good enough to kill, should be kept in every farmhouse to go with the dog, and it should be so placed after dark that it can be secured quickly enough to get the "drop" on the first burglar in sight. It is a good plan to bolt all doors as soon as darkness comes. As a rule, there is not enough precaution taken by farmers to protect their families and property from depredations of the criminal class.

A Big New Industry.

The horse won't be abolished by the automobile for many a year, yet it is true that the interest in motor vehicles is extraordinarily keen. In the palmiest days of the bicycle industry, there were not as many inventors and as much money going into the business as are now seeking to develop the automobile idea. This is true not only in the U S, but in England and Europe. Within a few years, motors will become so cheap and effective as to be applied to any vehicle. When that time comes the changes inaugurated in rural life by the electric railway will be intensified, for with a private motor carriage in which one can go 20 miles an hour, well-to-do people will not be satisfied to live in towns. Motor vehicles will also come into use among progressive farmers and market gardeners. A western concern already claims to have a motor that can be rigged onto any vehicle at a cost of \$75 to \$200 and do the work of several horses. Truly, we live in a "fast" age.

The Profits of Implement Manufacturers

will be less under present advanced prices than during the low values of the past few years. Why? Because the increased cost of iron and steel makes the margin of profit smaller than it was under the old schedule. It behoves the whole manufacturing world, however, to resist any further advance in iron. The receipts from agriculture and other industries will not warrant outrageous prices for iron. The trusts that shove up prices will be killed by their own weight. People won't buy except when absolutely obliged to.

While We Think of It.

Speaks well for Manitoba soil! Mr White of Riding Mountain received 3 lbs Carman No 1 potatoes from the Central experiment farm from which he harvested 25 lbs good merchantable tubers without the assistance of manure.

The experiment farms planted 104 varieties potatoes; the highest yield at Ottawa, Ont, was at the rate of 393 bu p a for Holborn Abundance, 448 bu for Irish Daisy at Nappan, N S,

682 bu for Seedling No 7 at Brandon. Man, 706 bu for Polaris at Indian Head, N W T. 623 bu for Dakota Red at Agassiz, B C.

Dominion Commissioner of Agr J. W. Robertson of Ottawa offers \$50 divided among 12 prizes for the best 100 heads bearing the largest number of seed of oats and the same for wheat. This contest is open to boys, girls and teachers.

Busy? Making money? Happy? Oh, yes. Getting out of debt and laying by a bit for a rainy day? Oh, no, haven't thought of that. Well, friend, think, then act.

Have you gotten up a club for Farm and Home yet? If not, why not? There's money in it for you, and good, too.

Successful effort is like a watch; persistence is the spring, enterprise the escape wheel, judgment the regulator, shrewdness the minute hand and thrift the hour hand.

The general sentiment among the farmers of Canada is thus expressed by R. T. Bayless of Wakeham, Manitoba: "I like the Canadian Farm and Home very much. The short, pithy articles are full of information, and yet not too long, nor difficult for an ordinary person to understand."

CO-OPERATION IN MANITOBA.

As a firm advocate of co-operation, our Canadian Farm and Home will be glad to know that petty jealousies among farmers are giving way to a spirit of union. Farmers' co-operative elevators are getting to be pretty numerous in Manitoba, and where properly managed are most beneficial and a decided financial success. A large, well-equipped elevator has been built by a number of our Mennonite farmers at Jretna and is in operation this season, and will be of great benefit to all concerned. These Mennonite settlers are also conducting a most successful mutual hail insurance business, which is most economically managed and is gradually gaining the confidence of the English-speaking farmers, many of whom insured their crops with them this year, but fortunately in our district there was very little loss from this source.—[R. C. Bayless, Wakeham.

Canadian Cheese Stands High in the estimation of English consumers, who have been buying freely for some time at the good prices ruling. Stocks in Montreal and further west in Ont are reported very much smaller than a year ago, and a sharp advance of 3 1/2 c p lb since late summer has been well maintained until recently. Within a short time slight concessions have been granted, due partly to the belief that high prices must materially restrict the consumption, both in this country and in England. The British markets have shown some weakness with fine Ont, Sept made, quotable at 25 1/2 c p cwt. Montreal exports of cheese for the season up to Oct 21 were 1,646,000 boxes compared with 1,630,000 boxes same period in '98.

Root Crops and Their Culture.

PREPARATION FOR FEED CROPS.

On every well-managed farm there is a properly arranged rotation of crops and where this is steadily maintained all is plain sailing. Where such a happy state of affairs is present, half the difficulty of management is surmounted, all is prearranged and the work thus well begun is half finished. No shift or course of crops is perfect without placing roots and other winter feed crops in a prominent position, as on the amount of food grown on the farm depends the volume of the output in animal products, be they under the class or beef, dairy or pork.

Throughout the east and mid-west the management and production of stock must be given a place and stock of the highest class, or they will fall short in the keen competition which exists through the cheaper lands of the ranch and range, where cheaper meats are produced. When farmers once know the profit of root crops they will pay more attention to their growth and take more stock in this most valuable adjunct to the daily winter ration. Again, it is not alone through the direct financial return that the advantage of the growth of root and feed crops is found, for it will be obvious the earlier the manure produced is again returned to the soil and again at work assisting the growth of the feed supply, the higher will be the state of fertility attained, the greater the number of animals supported upon a given acreage. On the other hand, if the manure produced is applied to a crop sold from the farm, much of the stock in trade in the form of plant food is sold directly away from the farm.

It is during the autumn previous that the beginning for the preparation of the soil intended for next season's root crop should begin, and for this purpose there is nothing equals a clover sod. Through two years the soil has lain dormant, and a large proportion of the annual weed seeds will have lost their vitality and will not germinate, hence the number of weeds to fight will be reduced to a minimum. Again, after turning down a clover sod the soil will be left in the most friable and mellow condition, and by this means the most tenacious clay may be reduced to a state in which good root crops may be grown, while a soil that is really suitable for this purpose will work with the least possible expenditure of labor, thereby reducing the work in the root field to a real pleasure instead of a most disagreeable task.

Two plans are practiced in fall preparation. Perhaps the most approved plan is to plow the clover early in Sept and then more deeply just before winter. Should there be a supply of summer-made manure on hand, this should be applied before the second plowing. The part of the field thus prepared will be best adapted to mangolds or sugar beets, as they should be sown as early as the ground will work readily. At the same time, working the soil while yet wet must be strictly guarded against, as this will work badly for future success.

Where the ground has been plowed but once, this should be performed just before winter sets in. Then the manure

Farm and Home.

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OUR ADVERTISERS.

It is the intention of the publishers of Farm and Home to admit into their columns none but reliable advertisers, and we believe that all the advertisements in this paper are from such parties. If subscribers find any of them to be otherwise, we will esteem it a favor if they will advise us, and we will at any time give our personal attention to any complaints which we receive. Always mention this paper when answering advertisements, as advertisers often advertise different things in several papers.

The circulation of Farm and Home for this issue is

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Sworn circulation statements on Farm and Home are sent to advertisers every three months and are made a part of each and every contract.

All Around the Farm THE MILLER'S TOLL.

I enjoy the reports in F & H of how farmers pay off their mortgages in different ways. All farmers could pay off their mortgages much easier if they did not have to give the miller one-half the grain in order to get the other half ground. I may take a grist to mill of No 1 wheat, yet all the flour I can get is 32 or 33 lbs from 1 bu grain and no bran or shorts. I can take a grist of No 2 wheat and get only 26 or 27 lbs flour from 1 bu grain, no shorts or bran. The miller takes one-half or more. If that is not robbing the people of Ill, I would like to know what is? Millers ought to be under obligation to do custom work and allowed only a per cent of the wheat.—J. T. Havens, McDonough Co, Ill.

An act was passed by the legislature of Ill in 1872, which is now in force, regarding the miller's toll, as follows:

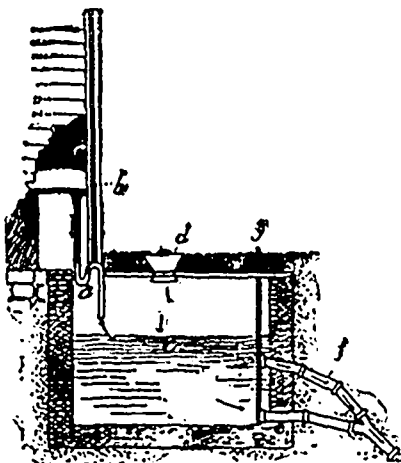
"The owner or occupier of every public grist mill within this state shall grind the grain brought to his mill as well as the nature and condition of his mill will permit, and in due turn as the same shall be brought, and may take for the toll, if a water or steam mill for grinding and bolting wheat, rye or other grain, one-eighth part; for grinding Indian corn, oats, barley and buckwheat, or other grain not required to be bolted, one-seventh part; for grinding malt and chopping all kinds of grain, one-eighth part. If any miller or occupier of any mill shall take a greater proportionate quantity of toll than is allowed by this act, or shall not sufficiently grind or bolt (as the case may be), agreeably to the capacity of his mill, and in due turn, as the same may have been brought, all grain received into such mill for the purpose of being ground or ground and bolted, as directed by the owner, every miller or occupier of a public mill, so

offending, shall forfeit and pay the sum of \$5 to the party injured."

Friend Havens and our other Ill subscribers clearly have the law on their side, distinctly stated as to the per cent the miller can legally claim.

USING THE KITCHEN SLOPS.

Pure air is absolutely essential to health; to obtain this it is necessary that the barn and outbuildings be so located as to give the best natural



ECONOMICAL SANITARY ARRANGEMENT.

Drainage. We may have ever so good a natural drainage, the air will become poisoned by throwing on the ground all the wash water and slops which will collect in small pools to be dried by sun evaporation. This process goes on, week after week, month after month, and year after year. The ground soon becomes impregnated with decaying vegetable and animal matter, which sends off poisonous and noxious vapors to poison our wives and children and then at the funeral we talk about the "mysterious hand of Providence," when it is nothing but our criminal neglect of the laws of health.

The question naturally arises, What shall we do with all the slops and wash water? Our cousins in the city are compelled to empty them into the sewer, but there is no return from this except in decreased doctor's bills and increased health, which of course is ample within itself, but the farmer can reap all these benefits and interest on the money invested if he will use these slops to fertilize his orchard or garden. The careful farmer saves all the liquid manure from the stable and applies it to the farm, but how many save that which is nearly as valuable, the wash water and drainage from the water closets? In Germany, they have had a system of sewerage upon which this plan is based, in which the sewer water is used to make a barren, sandy tract of land adjoining one of the large cities a fertile orchard and garden.

The reservoir into which the slops are thrown should be 6 ft long, 3 wide and 3 deep, lined with brick laid in cement and covered with 2-in lumber with 6 in of dirt on top of boards. There should be one tile, c, laid on the bottom so as to drain every bit of water off and another, f, 18 in above it. The whole inside of the reservoir should be thoroughly plastered with cement. The lower tile, c, is to be used in winter, or when it is necessary to wash the reservoir out, but is to be kept closed during summer. In the middle of the reservoir there should be a 2-in matched lumber partition, g, extending from the top to within about 6 in of the bottom so that when it is filled so the water can run out of the upper tile, no foul gas can escape back into the first apartment.

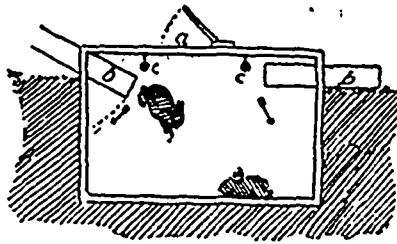
The slop hole, d, should be made funnel shape with a coarse strainer at the bottom to prevent rags, sticks, etc, from being thrown into the reservoir to stop up the tiles. It should be fitted with an air-tight lid to prevent foul air escaping if any should pass the partition. The pipe from the sink, a, should be a 2-in pipe with a strainer over the mouth and have a larger pipe fastened onto the short small one. The large pipe should have a return or horizontal S bend in it that will hold about 1 qt water; this will prevent gas escaping into the house through the drain pipe to the sink. On the upper part of the S bend, there should be attached a small pipe, b, extending up to the eaves where it opens into the air. This pipe will let the foul gas pass off where it

can do no harm. The tiles should be laid 18 in under ground, the joints cemented until it reaches the orchard or garden, where they are loosely laid together and opposite the trees; they are a trifle disjunct to permit the water to pass off more easily. The end of the tile should be left so it can be opened and the accumulating sediment washed out of reservoir and tiles.

The water closet should be so arranged that each person using it can let into it about a pailful of water, which will carry all deposits down the tiles to growing plants. A number of such devices are on the market and are cheaper and better than any homemade. The tiles should be laid the same as the one running from the reservoir to which it can be attached if desired, but it is better to have it run to a different row of trees. If such a water closet is used, it can be placed in the house with perfect sanitary arrangements. If you have not arranged to take care of the liquid manure from the barn, you can have it turned into tiles and run to the orchard. If you will follow the foregoing plan, you will be surprised at the increased health of your family and the increased yield of fruit which will pay a handsome interest on the money invested.—[D. J. Reid, Furnas Co, Neb.]

A SURE-CATCH RABBIT TRAP.

Sink a dry goods box 2 to 3 ft deep into the ground near a hedgerow or in a fence corner, or any secluded spot that may be frequented by rabbits. Leave the top about 6 in above ground. Saw a hole about 6 in square at the top on one side. Make a box, b, without ends, 18 in long, the sides of inch and the top and bottom of 1/2 in boards. This is to fit exactly the 6 in hole in the dry goods box. It may be made so as to work a little freely and is to be hung on a pivot in such a way that the end outside the box is slightly heavier. Put the bait, c, at the inner end of the pivoted box. It does not take much to induce a rabbit to enter a hole. Once inside this the animal crawls along un-



ANTBODY'S RABBIT TRAP.

til past the middle, when its weight overbalances the box, which tips up suddenly, and the animal slides out into the larger box. The pivoted box then falls back to its original position and is ready for another rabbit. The trap is easily constructed, simple and has the advantage of being always set. There can be two entrances as shown in the illustration. The top and sides of the box exposed above ground can be covered with leaves, snow or anything to disguise it. The trap door, a, is for removing the captured rabbits.

Common Salt as a Fertilizer—For 9 or 10 yrs, common salt has been used on one set of plots at the rate of 300 lbs p a, sprinkled over the surface of a sandy loam soil. Compared with unmanured plots, common salt has increased the yield of wheat 3 bu p a for the whole period. Salt has more than doubled the crop of barley; where the unmanured plots have averaged 14 bu, salted plots have averaged 28 1/2 bu as an average of 9 yrs test, which is a most remarkable increase. With oats, the use of salt has added an average of nearly 5 bu p a.—[Director William Saunders, Dominion Exper Farm.]

Get After the Chinch Bugs Now—In some sections, chinch bugs winter largely among matted grass, fallen leaves and other rubbish, in shocks of corn fodder, left out in the fields over winter, and outbreaks in wheat fields, even where sown among corn, have again and again been traced to such shocks standing out over winter among wheat. Shocks of corn should be drawn in from off wheat fields at once. When possible to do so, all matted grass, fallen leaves or other rubbish bordering on wheat fields should be burned this winter or in early spring. Where tim-

othy grass has this year been destroyed, examination should be made about the roots of the grass along the margins of such areas of destruction. If chinch bugs are found, they can be prevented from doing further injury next spring by plowing quite deeply now, which will place them so far below the surface that they will be destroyed, and thus prevented from continuing their ravages next year. In timothy meadows the pest must be looked for just below the surface of the ground about the bulbous roots of the grass.—[O Exp Sta.]

Sodium Nitrate is especially valuable for intensive culture in gardens and fields tributary to large cities where quickness and abundance of growth are factors of prime necessity. The ready-formed nitrate is an indispensable fertilizer for flowers and gardens as well as for fields. It performs a function which cannot be easily replaced by any other form of nitrogenous material among field crops. The sugar beet is especially susceptible to the influence of nitrate of soda, and this is the most economic form of nitrogenous fertilizer that can be secured.—[Dr H. W. Wiley.]

The Best Winter Snow Road is made with a heavy roller of 900 lbs, 5 ft in diameter and 13 ft long, to be drawn by six horses. A road rolled will cut down gradually and leave a solid, even road, but where not rolled it will cut through the first time. Rolled roads will be solid all the way through and melt away gradually.—[Vt Road Commissioner Wells.]

Chat with the Editor—J. M. S.: Gingseng roots are sold by J. I. Gleed of East Aurora, N Y.—Mrs D. has one cow and wants to know how to make butter, she has never had a cow until recently. If she will send \$1.50 to the Orange Judd company of 52 Lafayette place, New York, for Stewart's Dairyman's Manual, she will find the book of the greatest value; it contains full directions for butter making in summer or winter, from sweet or sour cream, and also how to make all kinds of cheese. This book is a good investment for the money.—G. M. S.: There is no law restraining dehorning in New York state.

Milch Cows and Springers have been in good demand this fall owing to the slight advance in milk and high prices for cheese. Good animals have sold at \$60 each in the big markets, but recently a slight reaction has taken place with present quotations generally 35 @50.

Farms remote from market towns, having good, arable and fertile land good water, beautiful scenery and everything that goes to make a pleasant home with good surroundings, are of comparatively little value, simply and only for the want of good highway facilities. One of the greatest factors in sustaining and improving the rural towns is good roads, well managed.

Where there is no danger of loss of fertility by washing, haul the manure and spread on the snow or frozen ground.

Air-dried swamp muck is one of the best stable absorbents. It also contains a large proportion of fertility.

WANTED AGENTS.

We want at least one good agent at every postoffice where we are not at present represented, to solicit subscriptions to FARM AND HOME. This is a rare opportunity for men and women out of employment, and even for enterprising boys and girls who wish to engage in profitable work through the fall and winter months. If you can canvass all of the time or any part of the time and would make money easily and quickly, send at once for our new terms to agents and complete premium list, which we send free on request.

Address FARM AND HOME, Springfield, Mass., or Chicago, Ill.

Business Side of Farming.

COARSE GRAINS FAIRLY FAVORED.

While devoid of special activity, moderate support is accorded the market for corn, oats, barley, etc. Leading primary points, such as Chicago, are getting comparatively small receipts of corn, farmers evidently being in no hurry to market their surplus. This fact, taken with the continuously good demand on foreign account, has encouraged traders who believe this cereal should sell higher than the present level. One thing which works against any sharp advance is the unexpectedly liberal movement of corn from Argentina to Europe, competing directly with shipments from the U S.

A feature of the oats trade was the improvement in the demand for round lots to ship to the seaboard and for export. During ten months of this year we shipped about 38,000,000 bu against 46,000,000 last year. Western Europe will buy liberal quantities of our oats at low prices, but any material advance stimulates exports from Russia. Barley continues to sell at a comparatively narrow range, Chicago quotations being 3 1/2 @ 4 1/2 c p bu, trade moderate but not urgent. Rye is inclined to follow wheat, about the usual outlet on milling and distilling account.

WHEAT LOWEST ON THE CROP.

That is what has overtaken the market, late Nov finding contract grade quotable around 67c p bu in Chicago, or 8c below the top prices secured in Oct. Conditions are much as outlined in the last number of Farm and Home, the chief difficulty in maintaining prices being the realization of the liberal world's stocks. While greatly in excess of a year ago these are not burdensome compared with some recent years at this date.

Our exports are fair, but less than last year, flour is dull, stocks liberal, foreign markets indifferent as to both flour and wheat. While sentiment in the trade has continued bearish the fact remains that the statistical position ought not to greatly depress prices, considering the increased consumptive powers of the industrial world, both in this country and abroad. The world's crop of wheat is less than that of '98, but a full average taking a series of years.

PLACING CATTLE ON FEED.

Farmers continue to buy stock cattle at Chicago and other points of accumulation for shipment to the country, but demand quality, and this has restricted movement to some extent. With a good corn crop everything favors liberal feeding this winter, and the up-to-date farmer is shrewd enough to know that his young stock must be of the right kind in order to "pan out" satisfactorily next spring. Sales of stockers and feeders cover a wide range, \$2 75 @ 3 50 p 100 lbs for ordinary, up to 4 25 @ 4 75 for selected feeding steers in condition to put on flesh at once. The trade in beef cattle continues moderately steady in spite of liberal marketing.

The Further Advance in Broom Corn, which is now largely controlled by a syndicate, has carried the price to figures around \$200 p ton in Ill, the center of production. Farmers growing broom corn in Ill, Kan and Neb sold earlier in the season at moderate figures, subsequently capitalists practically effected a corner and are now forcing broom manufacturers to pay very high figures. As a natural result the price of brooms has gone skyward.

The Latest Cotton Estimates of yield are materially smaller than those exploited two months ago. The dept of agri comes out with a report saying that the crop of '99-'00 cannot exceed 9,000,000 bales, this agreeing substantially with some of the conservative trade estimates. At the beginning of the picking season some of the bearish figures were as high as 11,000,000 bales. Under this change of front the price has advanced considerably, and activity prevails in the market for the raw staple and in finished goods.

An Excited Wool Market—This characterized the situation through much of Nov, sales enormous and at advanc-

THE AMERICAN AND FOREIGN PRODUCE MARKETS AT A GLANCE

The highest quotations of wholesale prices for standard grades of farm produce in the leading markets of the world on the dates named; poorer stuff lower.

Table with columns for various commodities (Wheat, Corn, Oats, etc.) and prices in different markets (Boston, New York, Chicago, etc.).

† P cental. ‡ P dz. § Estimated dressed wt.

ing prices. There is an unusual scarcity of fine wool throughout the world and dealers bid sharply for all such, other grades sharing the animation and strength. Demand from manufacturers heavy, all sorts of woolen mills actively engaged in working on orders. The foreign wool markets continue to advance. In the eastern markets, choice O and Pa XX and above is held at 35c p lb and better; Mich X 25 @ 27c, Cal, Ore and Tex wools are in active demand.

Beans Again Higher—A recent spurt placed the market at \$1 80 p bu for new h p pea beans at Chicago, the highest point yet touched. The demand is restricted at these top quotations, but stocks are low and holders firm.

A Good Crop of Barley has been secured this year, the average yield per acre being placed at 27 bu. The area under this crop turns out to be much larger than recent reports of the dept of agri, and is now placed by authorities at approximately 3,600,000 acres, suggesting a '99 crop of more than 96,000,000 bu.

The Area Under Rye, approximating 1,700,000 acres, has this year evidently yielded a crop of nearly 26,000,000 bu, an av per acre between 15 and 16 bu. New York, Pa, Wis, Kan and Ia lead in the amount of land under this crop and conditions were generally favorable throughout the season.

Butter Commands Top Prices—Late Nov brought the highest prices in a long time, choice creamery butter selling at 25 @ 26c p lb in wholesale markets. The strength in the situation is due to restricted offerings and a normal consumptive demand.

Heavy Supplies of Sheep at most of the western markets have made it impossible to hold prices firm. Undesirable grades sold off 25 @ 50c before there was any show of recovery. Desirable heavy butcher sheep are quotable at Chicago at \$3 75 @ 4 25.

The Moderate Apple Crop—This is estimated by authorities at 35 million bbls, compared with 28 1/2 in '98, 41 1/2 in '97, 67 1/2 in '96, and 57 millions on the occasion of the last federal census.

Potatoes in Better Demand—Under increased inquiry, prices advanced a trifle and the undertone one of more confidence.

Interest in the Dairy Markets centers in cheese, which has been selling at the highest figures in years; full creams in Chicago 12 1/2 c p lb against 8 1/2 @ 9c and in N Y 13c against 9c last year. Stocks in the U S and Canada are said to be much smaller than a year ago. Many of the factories have shut down early through scarcity of milk and the demand is excellent from usual sources. Canada enjoys a good export trade, while foreign shipments from the U S are small.

The Hog Packing Season is in active operation and the market for swine is fairly well supported in spite of efforts of buyers to secure lower prices. Up to the recent past hogs have been

selling a little better than a year ago, but late Nov found prices off to the basis of 4c and under at Chicago and other western points and 4 1/2 c at Buffalo and Pittsburg.

Unprecedented Flax Crop—The '99 crop, estimated at a little more than 20,000,000 bu, has never been equaled. Authorities return this figure from an acreage of 1,650,000 acres, average yield 12 bu. The '98 crop was estimated at 17 '97 at 11 and '96 at 17 millions. Best of all, farmers all the way from Kan to N D and Minn are marketing their crops at excellent prices. The av farm price Nov 1 is reported as \$1.07 p bu in Minn, 98c in Mo, 1.05 in Kan, 1.06 in N D, 1.05 in S D.

The Wool Clip of 1899 is placed at 272,000,000 lbs, according to the report just sent out by the nat'l ass'n of wool manufacturers. This compares with 267 in '98, 259 in '97 and 349 millions in '93. The estimated weight p fleece this year is scant 6 1/2 lbs.

Challenge Food Mill. For full information about this, also best Horse-power, Thrasher, Clover-baler, Dog-power, Rye Thrasher and Binder, Fan-mill, Saw-machine (chisel and drag), Land-roller, Steam-engine, Engine and Fodder-cutter, Shredder, Root-cutter, Corn-sheller, and Round-alo. Address: GEO. D. HARDER, M'fr, Cobleskill, N.Y. Please tell what you wish to purchase.

GRIND YOUR GRAIN on a SMALLEY MILL. Neither you nor your stock will have any fault to find. Our mills have great capacity combined with ease of operation which is simply wonderful. Don't take our word for this—try one and be convinced. Special introductory prices in all new territory. Catalogue showing the famous Smalley line complete free if you name this paper. SMALLEY MFG. CO., 506 Baker, Manitowish, Wis. Please mention "FARM AND HOME" when writing.

A FREE BOOK on Food Cooking. We are sending out to all interested parties who ask for it a very entertaining and instructive little book on this subject. It deals with all phases of the subject—its cost, advantages and profit of the practice. Incidentally it tells about the ELECTRIC FEED COOKERS which are made of best gray iron castings and lined with steel plates, with boilers of extra quality galvanized steel, 50 made than all others. Made in three styles and sizes, from 25 to 100 gallons capacity. Heavy stock—can fill orders instantly. Write: ELECTRIC WHEEL CO., Box 56, Quincy, Ill.

ONLY \$5.00 for this first-class cooker and water heater. Fourth thing for cooking feed for stock, pigs or poultry and for heating water for scalding hogs. Dorns wood only. The Farmer's Feed Cooker is made of best cast iron with No. 77 galvanized steel boiler, and holds 70 gallons. We make heavy cookers and will quote prices on application. Send for free circulars. Reliable Mach. & Bldr. Co. Box 46, Quincy, Ill.

THIS IS OUR VISITING CARD The Appleton No. 9 Fodder Cutter. A Foretaste of "Appleton Quality." Simply for the purpose of acquainting you with the superiority of "Appleton Quality" we have built the best extra-hand fodder cutter on the market and will complete a measure as any of our "New Hoes" Fodder Cutters. Five, 3 changes of will want one, and as limited, you should care of getting one power saw, steel tanks, etc., we can supply you "Appleton Quality" which is the best—there also. 100 page descriptive catalogue mailed free. APPLETON MFG. CO., 11 Fargo St., Watavia, Ill.

YOU CAN BUY A FARM WITH YOUR RENT. We will sell you a farm of 40 acres, 6-room house and barn, in our great Chicago Colony in the South, on a cash payment of \$250, balance \$2 monthly. Send for particulars and our Real Estate Journal, all free. D. L. Hixley, 211 S. 10th St., Philadelphia, Pa.

Musty Meal cannot result from grinding grain in the Quaker City MILL. The principle of construction is against heating in grinding. Crushers and grinders can't do it. Having a double hopper for 11 sizes and grinds small grain at same time. Makes feed of family grade. Guaranteed 21st annual catalogue. L. W. STRAUB & CO., 877 Elbert St., Philadelphia, Pa. The A. W. STRAUB CO., Coal & Feed, Chicago, Ill. Also Western agents for Smalley Thrashers, Shellers, Crushers, etc.

THERE IS THE BEST FEED COOKER ON THE MARKET. No Cooker offers a single real advantage which the "Heesen" lacks. It is the simplest, never out of order, and lasts for generations. It is quickest in heating, holds fire longest, is most economical of fuel, and burns anything. Wood or coal. THE HEESSEN FEED COOKER is Guaranteed Full Measure. We don't stamp 50 gallon size "50 gallons." The "Heesen" will save one-third purchase money, and all cost of repairs. Seven sizes—15 to 70 gals. Money back if not satisfactory. Sold only direct from factory to farmer. Send for catalogue. HEESSEN BROS. & CO., 37 High Street, Tecumseh, Mich. Please mention "FARM AND HOME" when writing.

CHRISTMAS IS COMING. No gift to man or boy more useful than a Gillette Safety Razor. Our blades are hand forged from RAZOR STEEL, file tested and warranted. This cut is exact size of Gillette's. To start you we will send one for 45c; 5 for \$2. Postpaid. Best finish shaver, 60c. This knife and shaver, \$1.00, postpaid. Hollow-ground razor with strap, by mail, \$1.25. Send for 66-page free list and "How to Use a Razor." Gillette & Co., 15 A Street, Toledo, Ohio. Please mention "FARM AND HOME" when writing.

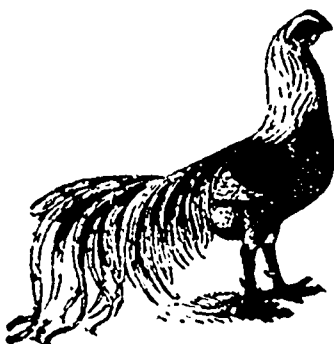
The Poultry Yard.

POINTS PICKED UP.

Wheat, oats and barley together promote laying, if fed warm to poultry. Charcoal finely broken should be given to poultry once or twice a week at all times of the year.

A low fence will confine ducks. They rarely fly, and a fence that they cannot jump over will keep them out. It must be tight, however, or they will find a weak place and crawl under.

Never set your hens where laying hens can lay with them; if you do you will suffer loss. Always keep a record of your fowls to their debt and credit so that you know how they are paying, also a strict egg record.—[S. R. H.]



YOKOHAMA COCK.

The Yokohama fowl is an ornamental product of Japanese skill. It is not a practical bird, but is valued for its long, wavy tail which sometimes reaches a length of three feet. This bird has attracted much attention in Europe and to a less degree in this country, but it is kept only by fanciers.

Feather Legs a Nuisance—Where it is the plan of the chicken raiser to pen his flocks and keep them shut up during wet and muddy weather the feather legs may hold their own with the other fowls; but where they are forced to walk about in the mud, the feathers will collect balls of mud which, in many cases, will grow in size until the bird can no longer carry them about, but will need assistance to rid itself of the impediment. In the winter season, the feathers will become saturated and the water freezing will soon encase the legs and feet in ice. The inevitable result of this is that the feet will become frozen.—[J. L. Irwin.]

Storing Eggs—Subscriber asks how long eggs can be kept in a cold storage house. If the eggs are infertile, and fresh when put in, they will keep four or five months if the temperature is steady. If he wishes to keep a few dozens for his own use he should pack them in dry, sifted coal ashes, or dry salt, end down, not allowing one to touch another. Use boxes which hold 6 to 10 dozens each. Fasten cover down tightly and arrange the boxes so they can be turned twice a week without jarring. This can easily be done by any ingenious person. Be sure the eggs are fresh and infertile. The cocks should be removed from the flock at least 10 days before packing begins. Prices for cold storage eggs depend largely upon the supply of fresh eggs on the market. They usually bring 5 to 8c per dozen less than those strictly fresh.—[Fred Grundy.]

Dressing Ducks and Geese—A Chicago commission man directs that ducks and geese should be scalded in the same temperature of water as for other kinds of poultry, but it requires more time for the water to penetrate and loosen the feathers. Do not singe the bodies for the purpose of removing any down or hair, as the heat from the flame will give them an oily and unsightly appearance. After they are plucked clean they should be held in scalding water about ten seconds for the purpose of plumping, and then rinsed off in clean cold water. Fat heavy stock always preferred.

Green Bone for Hens—It is a fact that can be proved from the experience of the most prominent poultrymen in the country, that green cut bone is the greatest egg producing food in the world. It is a food that cannot be

omitted from the diet to have the best results obtained both in breeding and egg production. While the most prominent poultrymen know this to be a fact there are thousands upon thousands of our readers who are still ignorant on the subject. If they would get one of the cheap bone mills advertised in our columns, grind the fresh green bones that are now wasted, and feed this fresh bone meal to their poultry in moderate quantities, all such persons would soon be convinced of the truth of our statement.

A Remarkable Contest is to be started soon by the Orange Judd Co., New York and Chicago, publishers of the American Agriculturist weeklies. Prizes aggregating thousands of dollars are offered for the best account of poultry management for one year. Particulars can be obtained of the above concern, the contest being open to all.

Each 100 lbs of Poultry of the general purpose breeds should have about 5 lbs of grain food per day; that is, for 25 fowls weighing 4 lbs each. Chickens require more food than hens in proportion to their weight, nearly twice as much when very young.

The Cost of Keeping a hen may be averaged at \$1 per year. She should lay \$2 worth of eggs, leaving \$1 profit. These are the rough estimates of some of the most extensive growers.

Can They Do It—A strain of Leg-horns is needed which lays a dark egg. The breeders of Buff Leghorns seem to have the best chance for producing a towt of this kind.

Before Packing and Shipping, poultry should be thoroughly dry and cold, but not frozen; the animal heat should be entirely out of the body; pack in boxes or barrels.—[Sprague Commission Co.]

Too Much Poultry appeared on the markets to permit a satisfactory Thanksgiving trade, and in some instances the situation was rather demoralized.

Hens Kept in a Yard in which they have been raised will seldom think of flying over the top. It is when they are moved to new yards that they often learn to use their wings.

Natural Grit—If possible, locate the run on gravelly soil which will supply plenty of grit for years.

Curtain for Henhouse—During cold weather it is desirable to keep fowls warm without resorting to artificial heat. Have all perches, b, in one end of the coop and fasten rings to the ceiling so that a heavy burlap or flannel curtain, c, may be hung, dividing the coop. There will be enough natural heat from the fowls' bodies to warm this smaller space in the coldest weather. Hang the curtain in place after the fowls go to roost.



A Food which seems to me calculated to give the greatest possible number of eggs is made as follows: Thirty pounds corn, fifteen pounds oats, ten pounds wheat, ten pounds barley and fifteen pounds wheat bran.—[L. M. An-nabic, Pa.]

FLOTS OF EGGS winter, summer and all the time. Property of Green Cut Bone makes a steady layer of any hen. She will lay double the eggs. HARR'S NEW BONE CUTTER cuts it finer, sharper and easier than any other and they break less and last longer. We make a GLOVER CUTTER that actually cuts to shreds—no pulling. Also Harr's Crystal Grit and Sprague's Food Tray. Catalogue Free, P. W. HARR CO., Box 24, Millers, Mass.

GREEN BONE FOR HENS—It is a fact that can be proved from the experience of the most prominent poultrymen in the country, that green cut bone is the greatest egg producing food in the world. It is a food that cannot be

DEATH TO LICE on hens and chickens. 6c per box. Free. S. J. HANFORTH, Box 17, Appleton, Wis.

SHERIDAN'S POWDER advertisement featuring an illustration of a hen and text describing its benefits for poultry health and egg production.

WHY? advertisement for a bone cutter, highlighting its efficiency and safety for poultry processing.

INCUBATORS advertisement, showcasing various models and their features for hatching poultry.

A SONG OF SUCCESS advertisement for a 20th Century Poultry Book, offering valuable information for poultry raisers.

SUCCESSFUL INCUBATION advertisement, providing tips and techniques for ensuring high hatch rates.

THE IMPROVED VICTOR Incubator advertisement, emphasizing its advanced design and reliability.

HATCH with the perfect self-regulating EXCELSIOR Incubator advertisement, promoting its consistent performance.

DON'T BUY AN INCUBATOR advertisement, warning against inferior products and recommending a specific brand.

Nothing Under the Sun BANNER EGG FOOD AND TONIC advertisement, claiming to be the best food for laying hens.

M. M. S. POULTRY FENCING advertisement, offering practical and economical solutions for securing poultry areas.

Our Incubators advertisement, featuring illustrations of incubator models and their specifications.

SHOEMAKER'S POULTRY BOOK advertisement, offering a comprehensive guide to poultry raising.

"Poultry for Profit" advertisement, providing insights into profitable poultry management practices.

POULTRY FOR 1900 advertisement, offering a practical guide for the current year's poultry raising.

DON'T WORRY advertisement, addressing common concerns and providing reassurance for poultry raisers.

THE BANTAM advertisement, highlighting the characteristics and benefits of Bantam chickens.

310 First Premiums advertisement, celebrating the success of a specific poultry product.

HARRISON'S POULTRY BOOK advertisement, offering a detailed manual for poultry management.

55 Hard Bone Shell, Corn & Grit Mill for Poultry advertisement, promoting a high-quality feed supplement.

Plants and Flowers. GROWING BOUVDARDIAS.

Like most of the plants grown for cut flowers, bouvardias are propagated anew each year, no effort being made to keep them longer than a single sea-



A BOUVDARDIA IN BLOSSOM.

son. Bouvardias are readily rooted from pieces of roots cut into lengths of 1 in or so and laid in a warm place an inch below the soil. Young shoots will soon spring up and when well advanced should be placed in small pots. Good, clean, well-jointed green wood answers just as well for cuttings. A single, strong plant will furnish material for hundreds of root and stem cuttings. The young plants are left in the small pots until late May. They may then be repotted for window plants, planted under glass for cut flowers similar to roses and pinks, about 15 in apart each way, or planted out of doors. When placed in the greenhouse in the fall, set them close together. They will furnish a host of cut flowers and should then be discarded. During summer, they need only the ordinary attention of garden plants. To make them compact and bushy, pinch the shoots two or three times during summer. Bouvardia flowers are white, scarlet and yellow, with numerous intermediate shades. There are single and double varieties.

Growing Gladioli in Water—A new way of growing gladioli is by planting the bulbs in hyacinth glasses during winter and spring, so as to have flowers early—even before those for outdoor planting are set out. Plant them any time after Jan 15, and set the glasses away in a warm, dark place for a few days, then gradually bring to the light, but do not give full sunshine till both top and root begin to grow. They blossom much quicker than when grown in soil, and a succession of flowers may be had for several weeks during the spring. The bulbs bearing light colored flowers will be found to force best, as those which have much red in the blossoms develop a weaker root system, and the bulbs are more likely to decay at the base where they come in contact with the water. This seems strange, as the red flowered ones seem stronger when grown out of doors than those with light-colored blossoms.—[Lena A. Holmes, Ill.]

The Spiraeas are well known and deservedly popular. Few garden plants have more to commend them than they. Many species are grown, all of which have good points. One of the best known, and at the same time one of the most satisfactory, is the well-known Spiraea Van Houtel. This is a most graceful shrub, attractive at all seasons of the year. Its foliage appears early in the spring, is bright green, light and attractive, but held in dense sprays. At blooming time it forms one mass of white, which is very striking. It is especially desirable by reason of its habit of growth and the character of its foliage, qualities which persist throughout the season, while the bloom is but for a brief period.—[Prof Fred W. Card, Neb Exp Sta.]

Ornamental Asparagus—These new plants are fine for decorative purposes, either for cut flower work, mantel decoration or as pot plants. A plumosus nanus and A tenuissima are of a climb-

THE SATURDAY EVENING POST

An Illustrated Weekly Magazine Founded A. D. 1728 by Benj. Franklin

The Circle of a Century

By MRS. BURTON HARRISON In New York of To-Day



For One Dollar

We will send to any address

THE SATURDAY EVENING POST

Every Week for Five Months 21 WEEKS

Also, a copy (fac-simile) of the first number of The Pennsylvania Gazette, date of December, 1728, Benjamin Franklin's famous newspaper, which has been regularly published for 172 years, and is now known as THE SATURDAY EVENING POST . . .

Also, a unique little booklet, daintily illustrated, telling the most interesting story of the Gazette in the last century, and of THE SATURDAY EVENING POST since 1821 (when the name); how great names were made by the Post 40 to 60 years ago when it was the most widely circulated periodical in America.

THE CURTIS PUBLISHING COMPANY PHILADELPHIA, PA.

THE SATURDAY EVENING POST, established by Benjamin Franklin in 1728, is a handsomely printed and illustrated weekly magazine, with a circulation of 200,000 copies weekly; 24 to 32 large pages. Edited by George Horace Lorimer, and filled with the best work of the best writers of the world, with fine pictures by leading artists.

A Few of Many Great Features to Appear During the Next Few Months:

Hon. THOMAS B. REED Ex-SENATOR INGALLS

Is continuing a series of papers on National affairs. Known from Maine to Manila, Mr. Reed is the most distinguished American who is writing for the periodicals of the day.

Every true American takes a keen interest in the politics—past and present—of his own land; and if they be discussed by a writer of trenchant style he likes them doubly well.

RUDYARD KIPLING RICHARD HARDING DAVIS

Notable stories by these notable authors will appear in early numbers of the Post. To enumerate the Post's list of contributors would be simply to catalogue the famous writers of America and England.

JEROME K. JEROME CYRUS T. BRADY

Three Men on a Bicycle" (by Mr. Jerome's most humorous production) will begin in January. Each of the papers is practically independent of those that precede it.

A short, rousing serial soon to follow is C. T. Brady's "Paul Jones," an historical romance of even greater and more general interest than his "For the Freedom of the Sea."

FOR YOUR SON, HUSBAND OR BROTHER

THE SATURDAY EVENING POST will print, the coming year, a succession of valuable papers by and about the most prominent business men of the day. The best writers on educational subjects and college work will contribute. Open-air recreation, Golf, Football, Tennis, Winter Sports, and general amateur athletics, will be thoroughly covered by specialists in their special line.

FRANK G. CARPENTER is investigating for THE SATURDAY EVENING POST The Chances for Young Men in the Far East COL WILLIAM A. CHANLER has written an article on A Young Man's Duty to the State WILLIAM H. MAHER will continue his papers. The next one is on The Clerk Who Reads Through Harvard on Fifty Cents. By a man who did it and graduated with high honors.

THE CURTIS PUBLISHING COMPANY, PHILADELPHIA, PA.

THE Pennsylvania GAZETTE.

Containing the firstest Advances Foreign and Domestic.

From Thursday, September 23, to Thursday, October 1, 1776.

THE Pennsylvania Gazette, first published in 1728, is the oldest newspaper in the United States. It was founded by Benjamin Franklin, and has since that time been a leading journal of the country. It contains the most interesting and valuable information for the people of this country, and is a most desirable addition to every household. The Gazette is published every week, and is sold for one dollar per annum in advance. It is also published for one dollar per month, and for one dollar per quarter. The Gazette is published by The Curtis Publishing Company, Philadelphia, Pa.

Please mention "FARM AND HOME" when writing.

ing nature, but can easily be made to assume bush form. If the ends of the branches are pinched out frequently, they will droop gracefully around the pot, often hiding it completely. The foliage is graceful and fernlike, the lacy fronds being from 10 to 15 in long and 5 or 9 in wide at the widest place, tapering to a point. The stems are slender and wiry, so they can be adjusted in any position without fear of breaking them. The sprays are remarkably lasting when cut; I have seen them when they had been cut five weeks and they were still in good condition, retaining their vivid green color well. A sprengerii is of different habit, being drooping and the leaves not of

the lacy texture of the other sorts. The plants are most often used in hanging baskets, the sprays growing from 3 to 5 ft in length if allowed to grow naturally. The sprays form a thick slimy mass of green which quickly covers the basket.—[Marian Meade.]

The Boom in Iron continues and pig has recently sold at \$28 p ton and steel rails at 35. Rolling mills have orders ahead for many months at present high prices.

Of Interest to All Farmers is the winter catalog of the Marvin Smith Co., 55-59 N Jackson street, Chicago, Ill., who carry nearly every line of tools,

implements and machinery and claim they can save our readers 25 per cent because of doing away with retail dealers' or local agents' profits. Their profusely illustrated catalog of 325 pages should be sent for by every reader who has farm machinery to purchase and is obliged to buy at bottom price. No charge is made for cartage; goods are shipped direct from the factory. A liberal discount is offered on cash trade. Besides a big freight and express trade, this enterprising house also does an immense mail order business to all parts of the states and Dominion. A specialty is also made of horse and livery supplies, tanks, windmills, spraying apparatus, grinders, cookers, etc.

Live Stock and Dairy.

FOR BUSY DAIRYMEN.

Milk for the creamery or cheese factory should not be allowed to become frozen, as it is harder to separate and injures the flavor of the butter.

Exercise is essential if health is to be maintained, and the greatest profit reaped, yet to turn cattle out in cold winter weather is little short of throwing profit to the winds, and profits are what we are all after.

Comfort is an important element in cheap milk production, and while fixed stanchions may make it easier to keep cows clean, we need only observe them when lying in the pasture to know how cruel and unnatural their position must be in those "animal stocks."

Granted that the right cows have been secured and the feed is all right and given at regular hours, all these natural advantages will be wasted if the cows are kept in a shivering condition in the lee of a strawstack, or suffocating in a dark, close stable.

Dairy cows do not require a fancy stable. Fairly good shelter may be provided even with a clay floor and walls and roof of straw, if only ventilation and light are provided. Window sashes are so cheap and the value of light so great, you cannot afford to be without it. But by all means keep the stable slick and clean.

The more the cow is deprived of exercise, the greater the need of keeping the pores of the skin open by daily carding and brushing.

By using a cream separator you can get more cream from your milk than by any other method; in fact, getting nearly all of it. In the deep-settling system and the shallow pan system, many minute fat globules have not force of character to get to the top, and like the prodigal of old, many of them are found feeding swine.—[Miss Laura Rose, Ont Dairy School.

THE BREEDING SEASON.

The breeding season is now upon us. A few there are who have bred their sows last month for Feb litters, but the vast majority of swine raisers prefer to breed for March litters. Winter pigs need the very best conditions of warmth and are quite expensive on account of the long time that they inevitably must be kept penned up before there is grass. Winter pigs, too, farrowed in Jan and Feb, need a roomy, well ventilated pen, and but few breeders have such conditions combined with warmth.

The two best months for litters to come are Mar and Sept, and a good, thrifty sow can just as well have two litters a year as one. The most thrifty sow in the writer's herd is one that has not failed to raise two litters a year since she was one year old. She is now suckling her sixth litter in 3 yrs and is in the very best condition—much better than some of the sows that have raised but one litter in the year.

The sow, when mated, should be in good, thrifty condition. It is a mistake to breed a sow in poor condition. It is also a mistake to breed even the most thrifty sow to a boar in poor condition. In either case the litters will be disappointing. They will be found to be hard feeders to the end, and will never make a profit for the owner. By saying that the sow should be in good, thrifty condition, I do not mean that she should be very fat; a sow may be very fat and yet not be in thrifty condition. A sow may be somewhat thin, yet be in thrifty condition. By thrifty condition, the sow should be in such a condition of health and thrift that she is gaining weight every day, is alert, active and in general good spirits, though perhaps not carrying very much fat.

When two litters a year are desired, the sow should be bred any time between Nov 15 and Dec 5. If only one litter a year is wanted, the sows should not be bred for a month later. The litters will then come from Mar to well into May. There is a decided advantage in not having pigs come until from Apr 15 to May 15. The weather is then quite warm and there will be no danger of losing the youngsters by cold. Grass will then be obtainable, and the sows having recourse to grass before farrowing, there will generally be no trouble when farrowing actually takes place. The sow and litter, by reason of the warm weather and grass, can be raised much cheaper. For those, therefore, who are not prepared to give the

March farrow spring conditions, had better not try to have two litters a year, but breed for one litter, to come in April or May.

The period of gestation in sows is 115 days; the period is, however, variable, as often young sows do not "draw" more than 113 or 114 days. A good guide is a week less than 4 mos. Mate the sow to a pure-bred boar. Surely it would be a very poor swine owner, indeed, who would now, in the glare of the light of the 20th century, mate his sow to a scrub boar. A grade boar would be as bad. Some authorities assert that a grade male is worse than a scrub. Then, breed to a pure-bred boar, if you have to take the sow 15 miles to him. It is a common occurrence with me to have men come 10 and 15 miles to my service boars.

The sow should not be taken to the boar on the first day of heat; better wait till the second day, the chance for a sure service is better. The period of heat usually lasts three days. One service of the boar is better than more and the sow should be taken away the moment the boar comes off, and shut up away from other pigs for two days. If you have to go a distance, so that the sow does not get chilled, so plan to have the crate well filled with straw and covered with a heavy rug. Watch the sow in 21 days after the service, in case the sow "comes in" again.—[J. A. Macdonald, P. E. I.

Ripening the Cream simply means the development of a certain kind of germs or bacteria which decompose the albuminous constituents of the milk and change the milk sugar into lactic acid. To develop the required flavor and the same amount of acid each day is probably the hardest part of the butter maker's work and demands the most careful attention.

For the Dairy Cow, oats, chopped, furnish an excellent feed rich in protein, while if peas are added, the mixture is still better and richer in that essential. This forms a good concentrate to feed along with silage. Oil meal in small quantities is very useful with silage or roots, especially the former, as it is very rich in protein. Bran constitutes one of the best and most valuable feeds; it is rich in milk-forming matter and is a very healthful feed for cows. Cottonseed meal, gluten meal, gluten feed, and various other by-products, are all excellent when fed with judgment, but prices of both milk and feed must decide whether it will pay to use them. A good ration for a 1000-lb cow is silage 30 lbs, clover 18, chopped peas and oats 8, bran 2, and oil meal 1. [Prof J. A. Grisdale.

The Boom in Herefords—Very fitting for the closing of the present century was the great exhibition and sale of

Hereford cattle by the American Hereford breeders' ass'n, at Kansas City, Mo, Oct 23-28. It was in fact the crowning event in live stock circles of the closing century. Some \$5000 was offered in premiums by the association, and 3000 was also contributed by individuals and others interested. A total of 289 head were contributed from the leading herds of the country, for sale at auction. The 137 females sold for \$44,895, or an average of 327; the 152 bulls 46,720, or 307 each. Seven animals brought over 1000 each, the highest, Armour Rose, bringing 2500.

A \$30,000,000 Milk Company—The Pure Milk Co has been organized to handle the milk shipped to N Y city by the producers' ass'n, the latter made up of farmers and shippers in N Y, Pa, N J, Mass and Ct. The Co agrees to pay an av price of 2 1/2¢ p qt for milk delivered at country shipping stations, the contract to run five years, but requiring the farmer to buy a certain amount of stock in the concern. The company propose to begin operations in Dec. Opinions vary greatly as to the probability of its carrying out its undertaking. The price named is higher than the av received for a long time.

Our Butter Exports for more than a century have exceeded 1,000,000 lbs annually and have been as high as 35 to 40 millions. This butter has nearly all been of inferior grade and shipped without special care as ordinary ocean freight. The recent rapid extension of the creamery system has raised the average quality of the butter product of the U S and there have been indications that the supply of high grade butter would soon exceed the demand.

Skin Disease—C. W. B.'s horse rubs his neck; he seems to be worse when he is warm. Mix 1 oz acetate of lead, 2 oz tincture of opium and 1 qt soft water, shake well and rub a little on the affected parts twice a day; also give 1/2 oz nitrate of potassium at a dose twice a day in a bran mash and continue it for five days, then skip a week and give again if needed.

Swollen Legs—H. N.'s horse has swollen legs and is stiff. Mix 1 oz acetate of lead with 1 qt soft water, bathe the swollen legs three times a day with a little of this; also give him 1/2 oz nitrate of potassium at a dose three times a day in a small mash of bran for four days, then give one teaspoonful of sulphate of iron at a dose in mash once a day and continue it for two weeks.

To be a successful farmer one must study the newer methods of agriculture whether he will or not.

NEW 20TH CENTURY CREAM SEPARATORS



Sept. 1st marked the introduction of the Improved 20th Century "Baby" or "Dairy" sizes of De Laval Cream Separators and these newest "Alpha" disc machines are simply unapproachable by anything else in the shape of a cream separator. Overwhelming as has been the conceded superiority of the De Laval machines heretofore their standard is now raised still higher and they are more than ever placed in a class by themselves as regards all possible competition. Send for new catalogue.

THE DE LAVAL SEPARATOR CO.
RANDOLPH & CANAL STS., CHICAGO. | 74 CORTLANDT STREET, NEW YORK.

A FEED COOKER



is a money saver on every farm. It increases the grain you have by making it more palatable and digestible. **THE FARMER'S FAVORITE** is a thoroughly reliable cooker at a reasonable price. Farmers made of best gray iron, bodies of best galvanized steel. It is of special value for cooking feed for all kinds of live stock and poultry for heating water for scalding eggs, etc. Excellent for evaporating maple sap, boiling down syrup, sugar-cane, etc. Just the thing for building up a stock. Don't buy until you get our circulars and prices. **L. R. LEWIS, 30 Main St., Cortlandt, N. Y.** Please mention "FARM AND HOME" when writing.

Eureka Steam Feed Cooker saves for 13 to 12 your corn and other feed. To hold 100 pounds of feed. Limited number for sale at a low price; write now for special circular, also free Catalogue explaining how we are able to sell Vehicles, Cutters, Harrows, Tank Heaters, Feed Cutters, Corn Shellers, Horse Powers, Agri. Implements and other things at so much less than others ask. Catalogue may save you money. **C. W. HUNTER & SONS, CHICAGO, ILL.** Please mention "FARM AND HOME" when writing.

Best smoked in a few hours with KHAUSERS' LIQUID EXTRACT OF SMOKE. Made from hickory wood. Cheaper, cleaner, sweeter, and surer than the old way. Send for circular. **E. KHAUSER & SONS, MILWAUKEE, PA.**

COW HOPPLE FOR KICKING COWS, either from habit or sore teats. By mail, 50c. Also **WART CURE**, Guaranteed to remove Warts from horses, cows, teats or man. Postpaid at 25 and 50 cents. Send for circulars. Agents wanted. **HENRY BASSETT, Salem, New Jersey.**

Don't

Don't think if you buy a farm separator you must buy something complicated and hard to manage.

Don't think that because one kind of farm separator requires an hour to wash it that all do.

Don't think that constant repair bills are a necessity just because some one with a complicated separator has to pay them.

Don't think that some other farm separator is as good as the Sharples because an agent for the other condemns the Sharples. Send for Catalogue No. 68.

The Sharples Co., P. M. SHARPLES,
Canal & Washington Sts. West Chester, Pa. CHICAGO. U. S. A.

Please mention "FARM AND HOME" when writing.



CHEAP GOOD WHEELS

make the wagon or vehicle new at a mere nominal cost.

\$7.50 buys 4 Sperry Wheels, 7-8 in. Steel Tire
\$9.00 buys 4 Carriage Wheels, 1 in. Steel Tire

IT'S CHEAPER THAN REPAIRING.

In fact the high quality of these wheels makes repairing unnecessary. Also turn-bush axles and set boxes when so ordered. Price list No. 88 and measuring rules free.

Wilmington Wheel Co., Wilmington, Del.

Please mention "FARM AND HOME" when writing.

PRINT BUTTER should be wrapped in GOOD PARCHMENT

Your name or Creamery should be printed on every sheet. Send for Samples.

(Not the Cheap Kind.)
PATERSON PARCHMENT PAPER CO., Eighth St., Passaic, N. J.

Please mention "FARM AND HOME" when writing.

THE LOSS OF AN EYE—terrible calamity. The tip of a horn often does it in tying up cattle. Cut off the horns quickly and humanely with the **Keystone Dehorning Knife** after crushing or tearing. Highest Award World's Fair. FULLY GUARANTEED. Write **A. C. BROSIUS, COCHRANVILLE, PENN.**

at once for descriptive circulars, prices, etc.

Please mention "FARM AND HOME" when writing.

100% a Year is Big Interest

but that is what many users of the **IMPROVED UNITED STATES SEPARATOR** are receiving on the money invested.

It is nothing unusual to receive letters from users of the U. S. stating that it has produced enough more cream in a year to pay for the machine, to say nothing of the improved quality of the product and the saving of time and labor. Our 1900 or "New Century" Separators, with increased capacities, are better than ever.

We also manufacture **A Complete Line of Dairy and Creamery Apparatus.** Write for our latest illustrated catalogue.—Free.

VERMONT FARM MACHINE CO., Bellows Falls, Vt.

Please mention "FARM AND HOME" when writing.

STOCK-FEED-COOKERS

CIRCULARS FREE. Book all about Cooking Feed, 5 cents. **GRANITE STATE EVAPORATOR CO., ALBANY, N. Y.** (Mention this paper.)



The Johnson Co (Kan) Patrons' Co-operative Store and Hall.

Organize and Educate.

A CO-OPERATIVE SUCCESS.

By sticking closely to the true principle of co-operation, the farmers of Johnson Co, Kan, during the past quarter century have achieved a success equaled nowhere else in the U. S. Twenty-three years ago, a few, feeling they were imposed on by merchants, selected a committee to wait on some of the then existing stores and see if they could make a contract to procure 'or cash goods at 10 per cent above cost. The answer was something near this: "We buy our goods and will sell at our regular profit." After this committee reported, the few farmers resolved to start a co-operative grange store or farmers' store and \$800 was subscribed as stock. With this amount a small room was rented and a store was started, that is now the leading store in America of its kind.

The stores of the town at once set to work to freeze it out by each one taking a certain article and selling at cost. One, say, would take sugar, another canned goods, one hardware, one clothing, etc. The manager dropped into the scheme and just kept in stock such articles as were actually necessary, and as farmers came to buy, he would send them to the parties who were selling a certain line at cost. In fact, he would have some of the farmers go and buy for him to sell in the grange store and as the object was obtained, kept the grange store in existence and bought goods of the other fellow at cost.

After a year or so the merchants got tired and dropped back to their old line. The grangers that were organized through the county were to have a rebate on all profits after all expenses were paid. The stock was sold at \$5 a share, but no one person was to have more than 200 shares or \$1000. The stock was to be paid interest at 10 per cent out of profits. The stockholders as to get twice as much rebate as a granger who had no stock in the store.

The result, after 23 yrs, finds us in a fine brick building, 115x120 ft, three stories high. The second floor is in offices and third is a large hall. The company has a capital stock to-day of \$118,000 fully paid up and \$27,000 cash surplus. Has sold goods in the 23 yrs to the amount of \$4,896,570, paid back to stockholders \$117,908, and Patrons who bought goods \$213,915. There are now five branch stores in the county, one at Stanley, Spring Hill, Gardiner, Edgerton and Prairie Center. All their stock comes through the main store. Each carries a stock of about \$8000; they also own all the buildings in which the stores are located. There are 19 employees in the main store at Olathe and some of them could manage other stores. There are about 50 flourishing granges in Kan at the present time and they will meet in 28th annual session at the grange hall shown above, Dec 12 to 14.—[W. T. McClure.

THE NATIONAL GRANGE.

Delegates from 26 states met at Springfield, O, Nov 15-23, constituting the voting membership of the national grange. About 1000 Patrons attended the sessions, receptions and excursions of the first week, more than half of

which received the highest degrees of the order. The hospitality of Ohio Patrons was unlimited, a public reception being tendered by the commercial club at which words of welcome were spoken by Gov Bushnell, Master Ellis of the Ohio state grange and the mayor of Springfield. Master Jones, on this occasion, delivered one of the most forceful speeches heard on a grange platform in many a day. He stood up manfully for justice and equity between farmers, commercial and professional interests. One of the catchy points of his remarks was that while Gov Bushnell had told of the building up of his immense reaper interests to where his annual output was 3000 carloads per year, Master Jones, in referring to this prosperity, asked anyone present to stand up who could tell of similar prosperity on any farm anywhere in the U. S. An excursion was made the next day to this immense reaper works, to the famous Masons' home, and later to Columbus to Ohio state university, the state penitentiary, capitol, and an elaborate banquet was served.

The reports of officers showed good work and growth in all sections. Some 220 granges have been organized, 25,000 increased membership reported, most satisfactory results accomplished in the lecture field and halls of legislation. The largest membership by states is in the following order: N. Y., Me., N. H., O., Pa., Mass., Mich., Ct., Ill., Vt., N. J., Ore., Ind., Kan.

National Master Jones delivered a masterly address to a crowded hall in public meeting. He outlined vigorous policies of work, justly claiming that the yearly increasing membership called for better and more work and the accomplishment of grander results. The past year, the officers of the national grange have been called before several distinguished conventions and commissions to state the needs and conditions of farmers and he is convinced the or. was never before in higher esteem. He urged the development of internal waterways and the extension of mail delivery as two matters of great moment to farmers and which would redound to the improvement of their conditions.

Reports of state masters showed each state trying to do earnest, vigorous work. In Mich. 75 granges have been established the past year and all granges strengthened; none have become dormant. Over 5000 new members have been received and receipts have increased \$2000 compared with last year. Pomona granges are being organized, not of the migratory literary style, but for solid business protection. The Patrons of Ore and Wash have recently organized a life insurance association and the fire insurance associations of each state are doing grand work. Nearly all the members of the N. J. Bd of Agr are Patrons and they are uniting the work of both organizations so grand results are being accomplished.

Education, the Foundation of All Prosperity, is laid in the little red schoolhouse. Our nation's future depends on our schools. It is discouraging to see men elected to school boards whose only ability consists in being able to keep on the right side of their political boss. Not long ago a man was elected to be a member of the school board simply for changing his politics, then immediately sub-let his

ARE YOUR KIDNEYS WEAK?

Have You Bladder or Uric Acid Trouble.



To Prove for Yourself the Wonderful Curative Properties of the Great Kidney and Bladder Remedy, SWAMP-ROOT, Every Reader of "Farm and Home" May Have a Sample Bottle Sent Absolutely Free by Mail.

Have you ever considered what neglecting your kidneys means?

Have you ever realized the terrible risk you are taking?

Do you not pass on the street, every day, men and women whose countenances show that the final stake is up and the die being cast?

How may you know them?

By their pale, sallow, sunken or bloated countenances, dull, lack-luster eyes, puffy or dark circles under the eyes, slow, languid movements, blotched, pimpled, unhealthy complexions and general appearance, weakness and debility.

In addition to their outward appearance, how do they feel themselves?

Weak, worn out, tired, languid, restless, nervous, irritable and worried easily over trifles, feverish, chilly, short of breath, dizzy, irregular heart, rheumatic, with pain or dull ache in the back, neuralgic, sleepless, generally debilitated and used up.

Weak and unhealthy kidneys cause all these symptoms.

If your water, when allowed to remain undisturbed in a glass or bottle for twenty-four hours, forms a sediment or settling, or has a cloudy appearance, it is evidence that your kidneys and bladder need immediate attention.

Your kidneys are the most important organs of the body.

They work to keep you in health by filtering out of your blood the poisons and germs of disease.

Dr. Kilmer's Swamp-Root, the great kidney remedy, cures unhealthy kid-

neys, helps them to do their work, aids them to filter and purify the blood, and restores health to both men and women in all cases of kidney and bladder disorders, lame back, dull pain or ache in the back, gravel, catarrh of the bladder, rheumatism, sciatica, neuralgia, uric acid troubles and Bright's disease, which is the worst form of neglected kidney trouble.

Swamp-Root corrects inability to hold water and promptly overcomes that unpleasant necessity of being compelled to go often during the day and to get up many times during the night.

Swamp-Root is the great medical triumph of the nineteenth century, discovered after years of untiring effort and research by the eminent kidney and bladder specialist, Dr. Kilmer, and can be purchased at any drug store in fifty-cent or one-dollar bottles. Make a note of the name, SWAMP-ROOT, Dr. Kilmer's Swamp-Root, and remember it is prepared only by Dr. Kilmer & Co., Binghamton, N. Y.

You can test for yourself its wonderful properties by sending your address to Dr. Kilmer & Co., Binghamton, N. Y., upon receipt of which a sample bottle, together with a valuable book on the subject, will be mailed you absolutely free. This book contains some of the thousands upon thousands of testimonial letters received from sufferers cured.

Dr. Kilmer's Swamp-Root is so remarkably successful that our readers are advised to write for a free sample bottle and to state that they read this generous offer in Farm and Home.

office to an illiterate man who ever since has made it his business to interfere with teacher and scholars and never misses an opportunity to let people know that "larnin'" amounts to nothing. Scholars are kept at home because their parents can't spare them and at the age of 21 they enter into the struggle for existence with an edu-

cation limited to writing their names and figuring up a load of wood. If the farmer took the same interest in education as his city brother, we would not now present to the world the ridiculous picture of asking the different trusts and combinations for the privilege of earning our daily bread by the sweat of our brow.—[A. J. G., N. H.]

How the Mortgage Was Lifted.

MINED TO PAY FOR A FARM.

Bought a farm of 60 a and paid \$2400, 200 down and mortgaged for 2200, hav-



EDWARD PHILLIPS.

an advertisement of a mining company that wanted men. Started the next morning and arrived at the mine in Butte Co at night, and with \$2 in my pocket. Got work at once at \$2.50 a day and board myself. Hotel board cost \$1 a day, furnishing my own bed. Boarded for 2 mos, then boarded myself and got along cheaper. After one year was promoted to night foreman, with wages at \$3.50 a night. I worked 4 yrs and lost but two nights. As I received my pay sent it to my wife. After some time she wrote me the mortgage was paid and to come back to our home. I continued at work a short time longer and then went back to my Pennsylvania home. I had saved enough to begin farming in good shape and have since been successful.—[E. P., Tioga Co, Pa.

A LITTLE FARM WELL TILLED.

On Jan 3, '96, I bought a 20 a farm, five miles from town, in Prince Edward Co, Ont, paying cash, the value amounting to \$1200. The house and barn were new and good, the farm consisted of 5 a pasture land, very stony and on a steep side hill, 6 a of work land, also stony but strong, and 6 a of good level land, which had never been plowed for at least 50 yrs.

The same day I purchased the place I mortgaged it for \$200, with which I bought a span of horses, set of harness, plows and other farming implements. The interest, 6 per cent, I put away at the time and determined that I would pay the \$200 in 2 yrs. There was an orchard of about 50 apple trees on the place and I made a cast-iron vow never to use a cent of "apple money" until the mortgage was paid off.

The fences were very poor and I had very little money to spare for rails, so I cut cord wood at 50c a cord until I made enough to buy rails with which to repair the fences. This I did in March and by the three spring work began I had the satisfaction of knowing that whatever I raised was safe from the attentions of the neighbors' cattle. The same spring I broke up the 6 a of land and planted to corn, 4 a of yellow and 2 a of sweet for market. In the orchard I planted beans, and sowed peas and oats on equal halves of the rest, reserving 1 a for a garden.

I worked out as much as possible and made enough to buy my clothes, pay working expenses, and had a surplus of \$6.40. I kept track of every cent I earned and spent.

I am a bachelor, my widowed sister keeping house for me, and our expenses were therefore not large. I sold enough sweet corn, garden stuff and eggs to pay our grocery bill, and in the fall had saved \$5.60, principally egg money, from 40 hens. Also sold 20 bu of beans at \$1 p bu and put away \$15 of that. My apples that year came to \$42. Sold also \$15 worth of peas, but saved corn and oats for the horses and pigs. Had no hay or cow, so traded corn stalks for oat straw to feed the horses and used pea straw for bedding.

During the fall of '97 I went at the fence corners and pasture field and piled up 30 cord of building stone. The next winter I hauled these to town and sold for \$3 p cord and of the \$90 thus earned I put away \$75. In Feb, '97, I sent a club of 10 subscribers to Farm and Home, for which I received a check for \$4.92, besides my commission. I saved \$5 of that. I had now only \$36 to make up, but "pride goes before a fall," for I was laid up by an accident in the

spring of '97, and had to hire help for my spring's work, and it took all my summer's work to get out of debt, for I would not touch my mortgage money. However, my "apple money" for last year came to \$85, so I paid off the "poor man's curse" and for the first time since Jan 3, '96, I felt myself to be a free man.

The farm is worth more now than it was when I bought it, for I have set out 50 young trees, have a good gravel road back to the lane, dug a first-class well in place of an unreliable spring, have cleaned off a lot of stone, have good fences and built a tool house and workshop from a plan in Farm and Home. Have bought a third horse, a cutter and some new implements and got a few dollars ahead, to be married. When the neighbors wonder and ask how I did it, I lay the blame on Farm and Home, for I was working out when I first took it, and it was through it that I determined to have a home of my own, though I came into the snug little sum of \$1000 when I became of age. What is more, I can honestly say that I have saved many dollars by a careful reading of its pages and taking, through it, advice from farmers older than a [Twenty-Four-Year-Old.

OHIO STATE GRANGE.

The 27th annual session at Springfield last month was a rouser, 83 of the 88 counties being represented by delegates. A big crowd of Patrons from all parts of the state were present the four days the grange was in session. The grange made no changes in its laws except to pay deputy masters' mileage to and from the annual sessions.

The grange put itself on record as in opposition to and favoring the restriction of the liquor traffic, wants woman suffrage, extension of free rural mail delivery, indorses the work of the state exp sta and state university, farmers' institutes and state fair, wants the enactment of the Davidson bill placing a tax of 10c p lb on all colored oleomargarine, a state board of equalization that will make an equitable valuation of all real estate, election of president, vice-president and U S senators by direct vote of the people, repeal of dog law and protection of sheep industry, a \$10,000 state appropriation for traveling libraries, opposition to the grantings of subsidies or special privileges, to national appropriations for irrigation, to all forms of trusts, and heartily favoring such legislation as will restrict or suppress them.

F. A. Dethleick was re-elected to the executive committee. R. L. Holman reported rebates of over \$1200 for the year from contract-trading houses. Secretary Akins reported over 500 live, active granges, and Treasurer Miller \$3500 cash on hand, and increased receipts of 2000 over last year.

Something Must be Done to close the gap between the farmer and what agricultural science has to offer. The short course in the Wis agricultural college, the dairy school, the farm institutes, the Wis dairymen's ass'n, all aided very greatly by the agricultural press, are doing what they can to close this gap in Wis. Much similar work is being done in other states. These forces are taking hold of young men, giving them a broader idea of what it means to be a farmer, and how a better study of that science will lighten their labor and increase the profit of it. Three great ruling objects control here: To make better farmers, and thus encourage the making of more farmers. Harsh, unthinking, unprofitable farming drives the boys away from the farm. The farmer must give his boy a chance to know a little more than he can teach him about farming in these days, or he will leave the farm. The third grand result is the building up of the wealth and agricultural prosperity of the state, which comes as the crowning result of a wiser and more practical union of the farm, the farmer and the teacher of agricultural science.—[Ex-Gov Hoard, Wis.

A Sensible Little Book on feed cookers is printed for free distribution by Messrs Heesen Bros & Co, of Tecumseh, Mich. It takes up the questions of best form and materials, principles of heating, economy, convenience and safety. These matters are convincingly treated in a way that makes the book of value to any farmer who is interested in getting the best results from his live stock. Write Heesen Bros & Co,

Tecumseh, Mich, for a copy, and say that the publishers of Farm and Home advised you to.

Farmers Neglect Opportunities for self-improvement more than other classes, because in the routine of their work their opportunities pass before they are aware of it. Sometimes they feel that to avail themselves of an opportunity will necessarily involve a neglect of some branch of their work which at the time the opportunity presents itself they can ill afford to do. At most times they are too tired out bodily to try to improve any opportunity other than the one for rest.—[B. F. Hillman, Me.

The Agriculture of New England is not declining. To Mass, from the west and from the south, come calls for farms. For help in locating in Mass, more than 100 calls by letter at the office of the bd of agr since Aug 1, or an average of two in each day's mail, is not an evidence of decline, but an assurance of prosperity. Ten, yes, 20, abandoned or partially abandoned farms are sought in Mass where one is found. Wealth sees the coming change and invests for future profit. The farmer is not discouraged or downhearted to-day, but looks forward to the coming prosperity and goes forth to meet it. He sees that through co-operation and united effort much can be accomplished to improve his condition and advance his position. The New England farmer is not to decline, but is destined to a new and better life.—from it are to come forth, as of old the best elements of life, honesty of purpose, strength of character and faith in God.—[J. W. Stockwell.

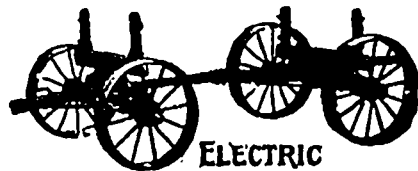
The reading farmer has a decided advantage over the farmer who does not read.

CUTTERS AND SHREDDERS of all sizes, positively the best, and Carriers to match. For full information about these, also best horse-power, Thresher, Clover-huller, Dog-power, Flyc Thresher and Binder, Fanning mill, Saw-machine (circular and drag), Land-roller, Steam-engine, Root-cutter, Corn-sheller and Round-ello. Address GEO. D. HARDER, Mfrs, Cobleskill N. Y. Please tell what you wish to purchase.

VEGETABLE CUTTERS. Sizes to cut fine or coarse suitable for Cattle, Cows or Sheep. The Lowest in Price, Easiest Worked, Most Rapid and Durable in Use. Send for circular. The BELCHER & TAYLOR A.G.L. TOOL CO., Box 15, Chispeo Falls, Mass. Please mention "FARM AND HOME" when writing.

Horse Powers, THRESHING MACHINES and WOOD-SAWING MACHINES. One, Two or Three Horse. If you want the best power in the world for running cream separator, ensilage cutter, or wood saw, try our horse power. Easiest running, best material, and will do the most work of any in the market. 50-page pamphlet Free. Address A. W. GRAY'S SONS, PATENTERS AND SOLE MANUFACTURERS, P. O. Box 45, MIDDLETOWN SPRINGS, VT. Please mention "FARM AND HOME" when writing.

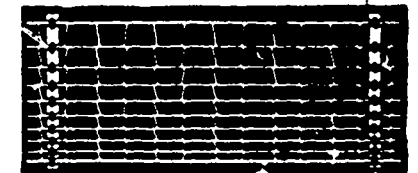
Farm Wagon Economy. The economy of this proposition is not all found in the very reasonable price of the wagon itself, but in the great amount of labor it will save, and its great durability. The Electric Wheel Co, who make this Electric Handy Wagon and the now famous Electric Wheels, have solved the problem of a successful and durable low down wagon at a reasonable price.



This wagon is composed of the best material throughout—white hickory axles, steel wheels, steel hounds, etc. Guaranteed to carry 4,000 lbs. These Electric Steel Wheels are made to fit any wagon, and make practically a new wagon out of the old one. They can be had in any height desired and any width of tire up to 8 inches. With an extra set of these wheels a farmer can interchange them with his regular wheels and have a high or low down wagon at will. Write for catalogue of the full "Electric Line" to Electric Wheel Co., Box 66, Quincy, Ill.

Please mention "FARM AND HOME" when writing.

ARE YOU WITH US?



THE DEALER IS AGAINST US because we sell you wire fence direct from the factory at wholesale price.

The dealer does not give you a better fence than we do, but he charges you more for it. You can buy the

ADVANCE FENCE

direct from us just as cheap as the dealer can. And makes a saving that will amount to something nice. A postal card will bring you circulars and prices.

ADVANCE FENCE COMPANY, 117 Old Street, Peoria, Ill.

Please mention "FARM AND HOME" when writing.



No Trouble to Show

The excellencies of Page Fence if you put it in use. The use of an article decides its merit.

Page Woven Wire Fence Co., Adrian, Mich.

Please mention "FARM AND HOME" when writing.

FENCE! STRONGEST MADE. Bull-tight. Sold to the Farmer at Wholesale Prices. Fully Warranted. Catalog Free. COLLEGE SPRING FENCE CO., Box 14, Winchester, Indiana, U. S. A.

SEE THAT LOG? It's the CHANDLER LOG and it makes the stay stay when you put it on any kind of wire—hard steel or soft, large or small, that's why CHANDLER FENCE is superior to others. Nobody can build it, and it is a rigid, strong, safe and handsome. Agents make money selling and building it. WANT AGENTS everywhere? Will grant free territory. Write us today for terms, catalogue, etc. CHANDLER FENCE CO., 12 S. Howard St., Baltimore, Md. Please mention "FARM AND HOME" when writing.

WEIGHT 30 ALBS. JAWS OPEN LIGHT. 4 TOOLS IN ONE. The screw drill and heavy Grand money-saver. For \$2.50 we will send this outfit and liberal terms to agents. Mention this paper. Your money back if you are not satisfied. BLAKEFIELD MFG. CO., Box 18, Bloomfield, Ind.

VIRGINIA Farms for Sale—Good land, good neighbors, schools and churches convenient. Mild healthy climate, free from extremes of both heat and cold. Low prices and easy terms. Will grant free territory. R. B. Chamblin & Co. (Inc.), Richmond, Va.

ICE PLOWS \$16.50. Circulars free. H. Fray, No. Clifton, N.Y.

WOOD'S "ICE KING" A first-class ICE PLOW. Constructed entirely of Steel and Iron, for the use of Dairy men, Butchers, Farmers and others, at half the price of the Ice man's Plow. Manufactured by the most celebrated makers of fine quality Ice Tools. For particulars write to agent nearest to you or direct to the manufacturer, Wm. T. Wood & Co., Arlington, Mass. PRICE, \$28. For full particulars send for edition "H" of our latest illustrated 48-page Ice Tool Catalogue. We mail free.



University of Illinois. College of Agriculture Building.

Agricultural Education.

DESCENT OF PROPERTY.

R. E. D. Mich. The share that a husband will take in the property of his wife, who dies intestate, leaving no children or descendants of children, will depend, first, as to the personal property, upon the law of the state of which his wife was a resident at the time of her death; second, as to real estate, upon the law of the state where said real estate is situated.

Under the laws of Mich personal property is distributed as follows: After the payment of all just debts of the deceased, where there are no children, one-half to surviving husband, and one-half to the father, if living, of the deceased. If the father is dead, the husband takes one-half, and the other half goes to the mother, brothers and sisters, and issue of any deceased brothers and sisters, share and share alike. If no father, mother, sister, brother, nor issue of any deceased brother or sister be living at the time of the wife's death, the whole of said personal property goes to the husband.

The real estate situated in Mich descends, where there are no children nor descendants of children, as follows: One-half to the husband, and the balance to the father and mother of the deceased, or the survivor of them. If no father or mother, the said balance to the brothers and sisters, and children of deceased brothers and sisters. If no father, mother, brother, sister or children of deceased brother or sister, survive the deceased wife, then the whole of the real estate descends to the husband.

Under the laws of Ohio, after the payment of the debts of the deceased, all her personal property goes to the husband, if there are no children of the deceased. If the real estate of the wife came to her by descent, devise or deed of gift from an ancestor, the estate passes to the husband for life, where there are no children. If the intestate has brothers or sisters of the blood of the ancestor, or the ancestor is living and it came by deed of gift from such ancestor, or if such ancestor is dead and has children, or husband or wife relict of such ancestor, or there are brothers or sisters of such ancestor, or there are brothers or sisters of the half-blood of the intestate, or there are next of kin of the ancestor's blood. Falling in all of these, such estate passes to the husband absolutely. If the said real estate was acquired by purchase, the estate passes to the husband absolutely upon the death of the wife, intestate, leaving no children or descendants of children.

Personal Property—C. S., Mo. If a married woman dies childless, owning personal property in her own right, said personal property would go to her father, mother, brothers and sisters in equal parts, in Mo, but in Ill, under such circumstances, the husband would take the personal property.

Deed—I. M. J., N Y: When one of several owners of land signs a deed of the land and the deed is delivered, no verbal protest on the part of one grantor will give him the right to subsequently return his share of the consideration and receive his share of the land.

Use of Estate—Subscriber, Mich. Where a man leaves to his wife a life estate in property, she has the taxes to pay and the premises to keep in repair.

Our Veterinary Adviser.

[Questions for this department are answered in turn, but on account of the large number of queries received it is often some weeks before replies can be printed. In case an immediate answer by mail is desired, \$1 should be inclosed.]

Megrims—W. H.'s calf whirls around and sometimes falls down; when down she seems as if she had something in her throat. Give 4 oz castor oil at a dose, after this operates give a teaspoonful of the syrup iodide of iron at a dose in a little oatmeal gruel three times a day; also give her some flaxseed tea in her milk.

Liniment—G. P. H. wants a liniment to apply to the leg of a mare which is lame. Mix 2 oz tincture of opium, 1 oz fluid extract of belladonna and 2 oz of tincture of arnica. Add to this 1 pt water and rub in well a little on the affected part three times a day.

Diarrhea—T. C. B. lost two calves; they were attacked with a diarrhea of a dark color and a very offensive odor, one lived two weeks, the other one week. This form of diarrhea is caused by a poison accumulating in the body, either from the food or water. The treatment in such a case would be to give 4 oz castor oil at a dose and after the physic operates to give 1 oz tincture of opium, and 1/2 dr sulphuric acid at a dose in 1 pt water every four hours until the diarrhea stops.

A Mammoth Agricultural College Building is the one now under construction at the Univ of Ill at Urbana, which is expected to be completed late next year. The main building is 240 ft long, three stories high and varies in width from 50 to 104 ft. The offices, class rooms and laboratories will be furnished with the best facilities for teaching and the assembly room will seat 600 people. Adjoining the main building are three wings each 45 by 116 ft and two stories high. One is equipped for dairy manufacturing, including pasteurizing, bottling milk and the manufacture of butter and cheese. Here are three cheese curing rooms, whose temperature will be under control, also a cooler for butter, one for bottled milk and two sterilizers. A working laboratory will be fitted with shafting for setting in motion and otherwise operating the great variety of machinery now employed upon farms. Both stories of this building will be used for this purpose, and there are also wood and iron working shops in connection with the laboratories. In one of the wings is an operating and dissecting room for the veterinary department, with a large area for veterinary clinic and for stock judging. This area is 45x75 ft and large enough to afford room for raising a horse. The buildings contain 1 1/2 a floor space. Some 40 lines of instruction are offered by the 11 professors.

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JOHN M. SMYTH CO.

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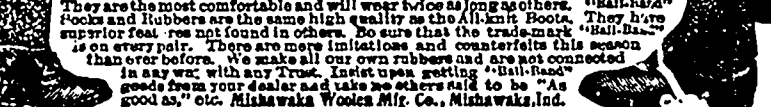


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LACE CURTAINS FREE

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PREPARATION FOR FEED CROPS.

[From Page 1.]

made in the winter should be hauled to the field and placed in a large heap, so that it may be heated and thoroughly rotted, that it may be in readiness to be applied when the ground is fit. By this means the work is kept well up and no hurrying required. After spreading the manure, disk it in well, and mix it with the soil, which should then be carefully plowed and again worked with the disk harrow, which brings the soil to a mellow condition without bringing the manure to the surface. Then by rolling, it may either be immediately drilled up, or if there is time it may be allowed to stand for a week which will allow any weed seeds to germinate.

The chief study in any event is to get the soil in a mellow condition before the root seeds are sown. In this case the root plants come through directly and by the after working the crop gets a start of the roots, and no trouble is experienced in keeping the ground clean. The beginning of May is early enough for mangolds, sugar beets or field cabbage, all of which are capital feed for beef, dairy cattle or swine. In mangolds, both long red and intermediate will be found to yield heavy crops, at least 1000 bu p a, where suitable soil and good attention are given the crop. Field cabbage will also yield tremendously, and nothing is better for late fall and early winter feeding, but there is more difficulty storing cabbage than the root crops. Singling or hand hoeing once should suffice if the work is thoroughly done. A man would be able to perform in a day as his work.

In turnips, much depends upon the locality. They will do from May 20 to 1st June, and no crop admits of such a full preparation before sowing, therefore no crop leaves the ground in as clean a state. We have often reduced the most stubborn piece of wire-grass infested land to ground perfectly clean by the growth of a field of turnips. The horse cultivator must be run through the drills as early as the young plants will permit, before hand hoeing has begun, after singling—twice a week as long as possible, and the better for it is this thorough cultivation which will conserve the moisture and insure a good crop in the driest season. There is nothing like the cultivator after slight showers. By this means the dampness is not only mixed with the dried soil, but the capillary action of the air, as it is called, is cut off and the moisture does not evaporate to the same extent, and is therefore retained for the growth of the crop.

It is success in any avocation which makes it interesting, and nothing will give more real pleasure in the farm work than a good crop of roots, and it is difficult in which the greatest satisfaction is to be found, whether in the well-tilled field, the full cellars, or witnessing the enjoyment and thrift of the animals to which they are fed.—[Frank A. Shore, Middlesex Co. Ont.]

Ontario Fruit Growers—The 31st annual meeting of the Ont fruit growers' ass'n will be held at White's, Dec 5-6, and Sec'y Woolverton has prepared a very interesting program. The papers to be read and the topics to be dis-

cussed are all important to the great horticultural interests of the province. Among the subjects and speakers are the following: Top grafting and irrigation, J. I. Graham, Vandeleur; The commerce in large fruits, Hon J. W. Robertson; San Jose scale, M. Pettit, Winona; Ontario fruits in Manitoba, Dr Saunders, Ottawa; Profits in spraying apples, E. B. Edwards, Q C; Good roads for fruit growers, A. H. Campbell, Toronto. It is expected that Hon John Dryden will be present and address the meeting.

Nova Scotia's Provincial Exhibition at Halifax was the best display of live stock ever got together in the maritime provinces, reports one well qualified to judge. The recent importations of dairy stock from the Channel Islands and Scotland added great strength to the dairy show ring. In the horticultural department the exhibition was grand and clearly showed the wonderful possibilities of fruit production in this fertile province. Field crops, sprains, roots and garden truck shown in large quantities and numerous entries in some classes caused competition to be keen. In dairy products, the maritime provinces are coming to the front, as was shown by the gilt-edge quality of products shown.

Manitoba—Relative to our reputed big wheat crop this season, I think it probable that it is very much over estimated. On fallowed land there was an extra heavy growth of straw, but the yield of grain has not been equal to that from old land. Some fields have produced as low as 8 bu per acre, and from present information the average yield of wheat will be something considerably under 20 bu. Oats are a good crop, also potatoes. Flax is cultivated in much smaller quantities than was the case a few years ago. This year the price being exceptionally good may probably induce a larger acreage next season. We have been favored with a fine harvest season so far as climatic conditions go. With the exception of a little too much wind the weather has been ideal.

Canadian Eggs for U K—Although much smaller than last year, the exports of Canadian eggs to England and Scotland are large, affording a good market for this farm product. Just now there is a fair export trade in both fresh and pickled eggs, orders being placed in Montreal and at various points further west in Ont. Fresh stock suitable for shipment is loaded into ocean vessels at Montreal at 19¢ per doz, pickled stock 15¢@15½¢. The Trade Bulletin reports receipts of eggs at Montreal during the present season to late Oct 200,800 cases against 256,800 cases corresponding period in '98.

For Fattening Steers the Ont experiment farm selected 22 steers and fed 11 different rations for 16 weeks, each two steers having the same feed. The most profitable ration of the 11 consisted of ensilage 50 lbs, turnips 25, cut hay 5 and cut straw 5. The first 2 mos no meal was fed, the third month 2 lbs meal per day and the fourth 6 lbs. The meal consisted of equal parts by weight of peas, barley and oats. The total gain per steer was 155½ lbs, average cost per day per steer 5.91c, cost per cwt of increase 34.22.

Canadian Hay for South Africa—The English govt has been looking into the market for hay for shipment to the Transvaal. It is reported that considerable quantities have been bought in the maritime provinces, most of which will be shipped from St John, N B. Choice hay is quite able in Montreal around 35 \$075 50 p ton; 7 \$075 for No 2, and 6 \$077 for clover.

Five of the Best Carrots as raised by the Dominion experiment farms are: Mammoth White Intermediate, Giant White Yonker, Improved Short White, Early Gem and Ontario Champion. The yield of these varieties at Ottawa was from 25 to 21 tons, Nappan, N S, 17 to 12, Brandon, Man, 12 to 3, Indian Head, N W T, 5 to 3, Agassiz, B C, 34 to 28.

Parchment—A high-grade article is made by the J Atterson Co of Passaic, N J. At dairy exhibits where the use of parchment is becoming quite general, judges in their review of the content frequently call attention to the dis-

trous effects of poor wrapping and the importance of good, reliable material.

For Fowls Confined in yards, green or steamed clover cut fine is a rich egg-producing food.

Good Beginning—We started very small. We bought a sitting hen for 50c and from ten eggs got nine chicks. We soon built a small henhouse and later bought six Light Brahma hens and a rooster. The next year we set all the hens we could and raised about 60 chickens. We sold \$13

worth, live weight, traded some dressed poultry with the butcher, besides eating what we wished.—[E. M. Ripley, Middlesex Co, Mass.]

Because of lack of financial support, the Nova Scotia Pork Packing Co has abandoned all efforts to establish a pork curing factory at Middleton. While prospects as to sales of the product have been considered bright, financial support was lukewarm.

Besides reclaiming 6000 a of Missisquoi marsh lands, Col W. M. Blair is now fathering a plan to turn over 2000 a of bog land on the La Planch river into good farm land.

WINCHESTER Repeating Rifles For All Kinds of Shooting. All Desirable Calibers and Weights. A FEW FAVORITES FOR HUNTING. Model 1895. 30 Army caliber, weight 8 1-4 pounds. Model 1894. 30 W. C. F. caliber, "Extra Light," weight 6 1-2 pounds. Model 1894. 30 W. C. F. caliber, "Take Down," weight 7 3-4 pounds. Model 1892. 44 and 38 caliber, "Take Down," weight 7 pounds. Model 1886. 45-70 caliber, "Extra Light," weight 7 pounds. Shoot Winchester Ammunition. Made for all kinds of Guns. FREE.—Send Name and Address on Postal for 150-page Illustrated Catalogue. WINCHESTER REPEATING ARMS CO., 186 Winchester Ave., New Haven, Ct.

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FARMERS' SONS who have spare time during the winter will find pleasant and profitable employment representing the under-mentioned old reliable firm. Get terms and particulars. A few special salesmen wanted. Outfit free. The Chase Brothers Company, Nurserymen, Established 42 years. Colborne, Ont.

CHAMPION EVAPORATOR For MAPLE SYRUP and SUGAR. Has a regulated fan over strainer, double boiling capacity and saving fuel; small interchangeable strainer pans (connected by alphas), easily handled for cleaning and straining and a perfect automatic regulator, which insures rapid and shallow evaporation, producing the best quality of syrup. The Champion is a perfect evaporator for SORGHUM, CIDER and FRUIT JELLIES. Catalogue Free. THE G. H. GRINN MFG. CO. 84 Wellington St., MONTREAL.

Windsor Salt IS PURE SALT. NOTHING BUT SALT. Live, bright, sparkling crystals, the Saltiest Salt in the World. WINDSOR SALT WORKS, WINDSOR, ONT.

WANTED RELIABLE MEN Good honest men in every locality, local or travelling, to introduce and advertise our goods tacking up show cards on fences, along public roads and all conspicuous places. No experience needed. Salary or commission \$50 per month and expenses \$2.50 per day. Write at once for full particulars. THE IMPERIAL RUBBER CO., London, Ont.

FENCE MACHINE Full at the front. Not only the cheapest but finest and best. Write for particulars. GREGG, SANWELL & CO, Windsor, Ont. Always mention FARM AND HOME when answering advertisements.

OUR NEW Premium List Our Complete Premium List for 1909-10 is now ready and will be sent free to any address in the United States or Canada, on application. It is handsomely illustrated and contains upwards of 200 useful and valuable premiums, and some of the greatest and most astonishing offers ever made by responsible publishers. Now is the time to get up clubs, and by doing a little work for Farm and Home you may secure one or more of the many good things offered, free of cost. Sample copies and everything necessary to a successful canvass, sent free on request. Address FARM AND HOME, Springfield, Mass., or Chicago, Ill.

Thoughtful Moments.

HER MOTHER'S VOICE.

The father sits in the old arm-chair
(He's planning his crops and lands),
And wistfully looks at the corner
where
The parlor organ stands.

He looks at his girl who plays and
sings—
At her lover who turns the leaf.
The notes float out as on silver wings,
They give both joy and grief.

Ah, listen! Her voice rings sweet and
clear
O gay, little lilted song!
She sang it! Ah! 'tis many a year!
How memories crowd and throng!

And all their happy life he can see;
While a tear his vision dims.
"Rock of Ages" and "Abide with Me"—
Her well-beloved lullabies!

They thrill his heart with a sudden
 pang
For the dear, remembered days.
For the soft, low lullabies she sang:
Her gentle, homelike ways.

How like her mother the daughter
seems.
Surely he can but rejoice!
He loses himself in peaceful dreams.
And hears her mother's voice!
MARGARET STEWART SIDLEY.

GIFTS OF HEAVEN.

The gifts of heaven are more fairly
distributed than we are ready to ac-
knowledge. Things like diamonds and
Paris robes are not at all evenly par-
celed out. But these are the cheap
things of this world. The best and
highest things are meted out with a
generosity and impartiality worthy of
the hand of God.

For instance, health, as Emerson
long ago told us, is the greatest wealth.
It is not limited to any favored class
of men. Those poorest in diamonds and
pomp often possess it in fullest mea-
sure, and the wealth and pomp of kings
is as nothing in comparison with it. If a
man is blessed with health, his heart,
like a mountain, ought to flow grate-
tude night and day. Count yourself a
millionaire. O man, if you are well and
strong.

Sleep is one of the richest gifts of
God. Many receive it without a thought
of its value. It is never quoted in the
stock markets, but it is more valuable
than all the commodities of the earth.
Rubies and gold fall into the hands of
but few, but God gives sleep to the
millions. Many a rich man would give
all of his gold for the sleep which comes
to his coachman, but which will not
come to him. If you can sleep, O man,
give thanks!

What is the worth of an eye? Place
it in the balance and can you pile
enough gold in the other pan to out-
weigh it? He is a rich man who has
eyesight. To be permitted to take in the
beauty of human faces, and the loveliness
of nature, and the printed pages
of books, is a privilege glorious beyond
description. Better to work hard in
some obscure nook for small wages and
see, than to sit on a throne, blind!
Broad acres and great mansions are
given to few, but the good God gives
eyesight to millions. The eye is the most
delicate of organs. The world is filled
with its enemies who have power to de-
stroy it. If you have good eyes, O man,
bow down and return thanks!

But though sight and hearing both be
gone, the heart has reasons still for
gratitude. The reason is God's supreme
gift to man, and as long as that is left
man can enter into the thoughts and
life of his Creator. The mind can see,
even though the eyeballs perish, and
the soul can hear when the ears have
ceased to be its ministers. It is a great
calamity—as we men count calamities
—to lose the glory and harmony of this
visible, audible world, but after it has
vanished from eye and ear, the eternal
and invisible universe remains, in which
the soul can build itself each upon
more stately mansions and enter more
deeply into the joy and peace of God.
Helen Keller is one of the happiest of
all women. She can neither see nor
hear, but her reason, clear-eyed and
keen-eared, roams exultant through the
spacious universe, and marvels greatly
at the wonderful works of the Al-
mighty.

These are all common mercies, and

their continuance is a proof of the wide-
ness of God's love. All the best things
in this world are scattered with a lav-
ish hand, and we do not know how rich
we are until we sit down to reckon up
our treasures. The love of parents, the
affection of brothers and sisters, the
help of teachers, the sympathy of
friends, the companionship of books,
the gift of children, the joys of home,
all these are given to all sorts and con-
ditions of men. If those you love and
who love you have been spared to you
another year, there ought to be a
thanksgiving season in your home.

What is any failure in business or
calamity in fortune, or disappointment
in ambition, or weariness in labor, or
infirmity in health compared with the
loss of a husband or wife or child? In-
to many a home death has come, and a
glory has vanished from the earth.
But even in these homes there is reason
for thanksgiving, and the sorrow
should not be that of those who sorrow
without hope. The promise of the life
eternal is ours, and ours the expecta-
tion of a glad reunion.

Alas for him who never sees
The stars shine through his cypress-
tree!

Who, hopeless, lays his dead away,
Nor looks to see the breaking day
Across the mournful marbles play!
Who hath not learned, in hours of faith
The truth to flesh and sense unknown,
That life is ever lord of death,
And love can never lose its own!

[Rev Charles E. Jefferson, D D.

THE DRAMA OF LIFE.

Every morning the curtain rises up-
on the stage of human life. Each morn-
ing we hurry to take our places and act
our parts in the great "drama of the
world." Some are great and gifted, oth-
ers poor and obscure. Some have such
hard parts to play, while others step
on and off the stage with light and fan-
tastic ease; yet all have parts to play,

well or ill, to receive the commenda-
tion or the condemnation of the great
audience who are watching them. Ev-
ery time the curtain "goes up" a new
actor makes his first appearance. Ev-
ery time it falls, someone leaves the
stage forever. How are we acting our
parts? Let us each study our "acting,"
if not just right, and try to gain
"praise" instead of the "blame." On
some parts of the stage each day are
enacted scenes of woe. Every hour
there are death scenes, partings,
walls and anguish. On another part
are scenes of joy so rapturous that the
heart must overflow with transport.
Long parted friends—sisters, brothers,
mothers and fathers—meet; hope re-
vives in the sinking heart. They per-
form deeds of charity, love and self-
denial which make the spectators
smile. There are deeds of temptation
resisted, over which they shout. Then
a true soul leads some stray one back
to virtue. Do you believe that every
great deed and noble action on the
stage of life is applauded in heaven?
Yes; for the angels are the audience,
and each human soul an actor.

Every hour upon the stage is born
some new hope, and an old one ex-
tinguished; some generous flame is
kindled in the heart, or some tender
germ of virtue crushed by neglect. Ev-
ery night some soul is first tempted to
ruin, some first crime is committed.
Every time the curtain rises some heart
is breaking, some soul driven to de-
spair, some home circle is broken, old
ties are severed and new ones formed.
Some are drinking the cup of "love,"
which is life's only "wine," and others
are drinking the black wine of death!
The life drama of meeting and part-
ing, joy and sorrow, bright hours and
shadowy moments, is rehearsed on this
broad stage of humanity. Yes, we are
all actors, representing some peculiar
phase of life, and angel eyes are beam-
ing upon those who learn how sub-
lime a thing it is to "suffer" and be
strong. May we learn life's wisest les-
son, so that, when we have played the

closing scenes and the curtain shall
fall to be raised for us no more, we
shall joyfully journey onward without
fear into that realm where "we shall
know as we are known."—[Mrs D. K.
Clarke.

There are scores of lawyers in the
country who make more than \$100,000
a year in their profession. There are a
good many physicians who perhaps do
nearly as well. It is not long ago that
a prominent mining engineer of this
country contracted his services for a
term of five years at \$150,500 a year.
Similar rewards exist in most every
profession. The most successful law-
yers are credited with earnings from
\$30,000 to 50,000 per year. How much
does the successful newspaper man re-
ceive for his services in this state? We
doubt if he can command by reason of
his long training and ability more than
a sum that many a second or third rate
lawyer would despise. We are talking
about prizes now. The newspaper man
who is fairly successful and counts
himself above the average, perhaps, is
forced to be content with a salary not
exceeding \$2000.—[Chicago Times-Her-
ald.

Customer (to baker's boy): Is your
bread "fine and light, sonny?"
Boy (confidentially): Yes, ma'am; it
only weighs ten ounces to the pound.


"The trouble with the modern hired
girl is that she doesn't know her place."
"And no wonder. She doesn't stay
in one place long enough to get ac-
quainted with it."

There is a business women's home
in Brooklyn, N Y, where young wom-
en may live at \$3.50 a week, without
the annoyance or humiliation of in-
stitutional methods. It is said to be
literally a home. It is at 352 Pacific
street.

"THE FIRESIDE FRIEND IN MORE THAN HALF A MILLION HOMES."

The Youth's Companion

THOSE who subscribe now, sending this slip or the name of this magazine with \$1.75, the price of a year's subscription, will receive all the issues of The Companion for the remaining weeks of 1899 FREE from the time of subscription, and then all the issues for the 52 weeks of the new year, until January 1, 1901. This offer includes the gift of the New Companion Calendar for 1900, the most beautiful one ever presented by The Youth's Companion.



Companion

A Christmas gift which renews its freshness, charm and inspiration every week the whole year round.

We shall be glad to send to any address our Illustrated Anniversary Number, containing a full prospectus of the contributions and contributions engaged for 1900.

THE YOUTH'S COMPANION, Boston, Mass.

Special Clubbing Offer

THE YOUTH'S COMPANION

To January 1, 1901, including the Thanksgiving, Christmas and New Year's Double Numbers for two years, the Companion's beautiful Calendar for 1900, in twelve colors, embossed in gold (the most exquisite one of the series) and sold alone at 50 cents, and

FARM AND HOME One Year for Only \$2.00 in Advance.

Address all orders to FARM AND HOME, Springfield, Mass., or Chicago, Ill.

The Obstinacy of Tiresias Jones.

By James Buckham.



IRESIAS! For mercy's sake, what was that?" Captain Tiresias Jones rose, dripping with milk, from the stable floor, where the frightened cow had simultaneously landed him and the brimming milkpail, and looked in a bewildered way at his wife, who had just come out to get the milk and carry it to the buttery for straining. "Sounded zif something fell," said he, with an old man's slowness and lack of excitement.

"Well, I should say it did!" exclaimed his wife. "Such a crash I never heard in my born days. Sounded zif the whole house fell!" And with a whisk of flying skirts she vanished from the barn and sped toward the little, old, weather-beaten farmhouse that fronted the "weather-side" of Cape Cod. The sight that met her eyes caused her to throw up her bared arms in amazement and consternation.

"Tiresias!" she screamed, as the old man's grizzled face appeared at the barn door. "The roof of the porch has fallen down!" Tiresias Jones moved slowly and with portentously grim aspect toward his wife. He reached her side, stopped, and surveyed the ruin. His face had a hard, set, determined look, as if carved in flint. "Let it lay there!" he cried, fiercely. "I sha'n't tetch it again for 10 years!" Then he turned toward the barn to milk the remaining cow.

Mrs Jones, too choked with fullness of emotion for utterance, looked speechlessly at the retreating figure of her husband. The squared though stooping shoulders; the solid, heavy tread; the tense cords of the neck, with the flesh shrunken and fallen away between them; the bristling aspect of the short gray-black hair, all betokened the obstinate, iron-like character of the man. Old Tiresias Jones had the reputation of being the "sottest" man in Cranbury, and no one knew better than his wife how well the reputation was deserved.

Mrs Jones's features softened to an expression of despairing resignation, as she turned to survey once more the ruin of the porch. Tiresias had propped the roof in the spring with many days of slow, pottering, calculating toil. He had replaced the rotting corner posts with scantling, borne on his shoulder from the village carpenter's shop. To his wife's repeated suggestion that he allow the carpenter himself to do the job, as it would cost but little more, Tiresias answered, doggedly, that while he could wield a hammer he felt quite capable of doing any odd jobs of tinkering or repairing about the place. So he patiently and strategically replaced the decayed corner posts of the porch with his two-by-three scantling, and smoked many pipes of quiet satisfaction under the reinforced roof as the work progressed. At length it was finished, early in the fall, and the porch with its ghostly, unpainted, spindling supports stood o' nights like a skeleton in the bright light of the harvest moon.

Mrs Jones, however, looked with cautious distrust, as well as displeasure, upon her husband's flimsy handiwork, and took care to go in and out at the back door. She missed the heavy corner-posts twined with woodbine. Though decayed to the core, these, she felt, were more to be trusted than the bare and slender scantling. But she did not dare to say so. Tiresias was so complacently satisfied w' his work that it would have been extremely injudicious to disparage. Nevertheless, his wife resolved to plant, in the spring, some quick climbing vine beneath every post (if they should bear up the weight of the roof so long as that). In order that at least the ugliness of Tiresias's handiwork might cease to offend her eyes.

And now, with the suddenness of a thunderbolt out of a clear sky, the long apprehended catastrophe had befallen. Simultaneously, the strained scantling had given way, and the heavy roof of the porch had crashed down across the

front of the house, closing door and windows like the lid of a trap. Indeed, nothing could now be seen of the front of the little, low-roofed cottage except a blank wall of moss-covered shingles. It was an almost complete occultation of the cottage, considered in its relation to the community. To have the entire front of one's house eclipsed, as it were, while the house still retains its character and function as a place of residence, must be a sore trial to a woman, how little soever it may affect a man; and we may reasonably suppose that the slight feeling of gratified vindication on Mrs Jones's part was quite lost in her consternation and vexation at being left entirely without a front door or a front window, as the unfortunate result of her husband's labors.

For several days the matter of the fallen porch was not so much as mentioned between the old ex-sea captain and his wife. Household operations went on as usual, the gentle tide of industry flowing in and out at the kitchen door as it always had in the past. Both the captain and his wife avoided the front of the house, exterior or interior; and but for the sly comments of the neighbors both might have forgotten that they were "holed-up," as the village gossips expressed it. But there was not much trilling of this sort with Tiresias. His black, deep-set eyes would light with such an eminent blaze at the first mention of the fallen porch that the local wags soon learned to steer clear of the subject in his presence. And in the course of a month or two the easy-going people of Cranbury got so used to seeing "the lid of Cap'n Jones's house shut down" that they passed it with the utmost unconcern and began to accept it as one of the architectural peculiarities of the village.

But at length Mrs Jones did venture to suggest, while her husband was enjoying some particularly fine waffles prepared for the purpose, that it might be well to have the carpenter fix the porch, now that winter was coming on and the house so dark and cold. Whereupon Tiresias brought his fist down upon the table with a crash that scattered the waffles all over the tablecloth, and delivered himself in this wise: "Marthy, I want you to recollect once for all that when I fixed that porch I said it would last for 10 years at least, and it will. So that settles it." After this ultimatum Mrs Jones held her peace.

Meanwhile, over the wind-troubled sea of early winter a trim schooner was making her way toward the southern coast of Massachusetts. She was the Dolphin of Provincetown owned and captained by the stalwart son, Amos, of Tiresias and Martha Jones. This last trip had been the most eventful in the Dolphin's history, since, along with a valuable cargo from Nova Scotia, her skipper was bringing back with him a winsome Acadian bride—one of those matchless Nova Scotia maidens, brought up under the God-fearing simplicity, industry, intelligence and wholesome domestic training of the land that bred Evangeline. Beautiful, sound and strong of body, capable in all that makes a woman fittest to rule a home, no wonder that in his fair bride young Amos Jones felt that he had discovered and won a treasure beyond price. When he had sailed in midsummer he had said to his mother: "If we are prospered with a good voyage, mother, I will bring you back a daughter before snow flies. If it should be in the night time when we sight Cranbury Inlet, I will depend upon your light to guide me to the old anchorage. So don't forget to set it in the window for me, as you always used to when I was out a-fishing."

These were Amos Jones's parting words; and now the time of the Dol-

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phin's return was drawing near, and there was no window in the ocean-fronting cottage of Tiresias Jones in which to set the beacon light! Standing so far away from the other houses, on the outskirts of the straggling village, no light in another window would serve to guide Amos safely to his anchorage. Night after night the anxious mother lay awake, wondering if her son were drawing near home, and praying that he might sight the familiar shores by day instead of by night. At last she took to hanging out a lantern, by night, on a nail driven into the decayed roof of the fallen porch, at the height of the parlor window. Tiresias made no objection. He knew what the light was for, and the obstinate heart within him secretly rejoiced that yearning mother love should have its way in spite of him. So every night the pale lantern gleamed against the mossy shingles of the old porch roof.

The stormy season had come on, and it was a wild night in late November when the skipper of the Dolphin approached the wave-lashed shore of Cape Cod. He had no fear of shipwreck, however. His craft was staunch and sound; he knew every inch of the coast from Plymouth to Provincetown; and after he had felt his way through the storm to the headlands of Cranbury inlet, he knew his mother's light would be shining in the window to guide him safely to the old anchorage.

Steadily the Dolphin plowed her way southward through the big seas. Plymouth light followed old Minot's, and Chatham light led Plymouth, and Amos Jones at the wheel began to veer shoreward, point by point, toward Cranbury inlet. At length he saw the familiar light on South point; then the glimmering sparks of a few village lamps, burning unwonted late; and then he searched for his mother's lonely light that was to guide him safely in to his anchorage. In vain he peered into the storm black darkness, brushed the spray from his eyes and peered again. There was no sign of the familiar beacon! Could he find his way into the treacherous, narrow harbor without it? He had never been obliged to do so before—but he could try. It was too late to turn back over the shoals, anyway.

Why it was that Mrs Jones slept so soundly the night of the storm she never could tell. Perhaps it was because she was already worn out with watching. Perhaps it was because she had filled the lantern afresh and scoured the globe before she hung it out, and so felt a lulling sense of confidence in its clearer beam. At all events, when the rising wind swayed and whipped it to and fro on its nail, she did not wake; and when the nail worked loose from the rotten wood and the lantern fell, breaking the globe and extinguishing the light, she did not know. She only woke when the muffled clang of the village bell reached her ears, and somebody rapped at the door and shouted for Tiresias.

The old sea captain was up in a moment, plunging into his rough clothes and oil-skins. He knew what the alarm and the shouts meant—a vessel ashore in the cove. God Grant it might not be the Dolphin! "Make a can of hot coffee, Marthy," he shouted back to his wife, through the whistling storm. "Put it in the wheelbarrow and fetch it down to the shore." Then he was gone. Mrs Jones went out to see if the lantern were still burning and found it fallen and extinguished!

It was Capt Tiresias Jones who sat in the stern sheets of the old-fashioned lifeboat when they finally launched it and put out toward the laboring vessel. Twice the boat was overturned and beached; but the third time they got off. The old man's face was a study under his dripping rubber hat! Such keenness, such anxiety, such determination—such remorse and fear and anguish when he made out the well-known lines of the Dolphin. "God have mercy!" he groaned; and then he bent forward and backward, swaying with the rowers, his deep-set eyes blazing like coals.

"Father's was the first face I saw when the lifeboat came in sight," said Amos, as they all, save Tiresias, who was changing his clothes in the shed chamber, bent over the kitchen fire in the gray of the wild morning. "When I saw the look on it I knew every soul of us would be saved." "Yes," replied the grateful mother, her hands still

trembling in the clasp of son and daughter. "Your father is a terrible determined man, the most determined man I ever saw."

"Do you think he will have the porch cleared away now, mother?" asked Amos, with a sly glance at his young wife. "I don't know," answered the mother, with a sigh. "He said he fixed it for 10 years, and your father is the softest man in Cranbury."

OUR PUZZLE CONTEST.

Still working on the premium list puzzle? Well, we will not give you very hard ones again this month, for we want you all to come in for the cash prizes. By the way, we will give you till Jan 15 to send in your answers, and the prizes will be announced in the Feb 15 number. We shall give 15 prizes for this month, the first of which will be a watch, and the others will be good ones and well worth working for. The contest will be governed by the following

Rules.

No two answers will be allowed to any question, that is, you must not say the answer is this or that. Answers must be mailed within 10 days of the receipt of the issue of the 15th. The contest is open to every subscriber or one member of the family. Write your answers plainly, and be sure and spell your words right, as a misspelled word will throw out the answer. Always write your name on every set of answers, as any set without name or address will be thrown out. Answers may be sent by letter or on postal, as the writer chooses. Address all answers to the Puzzle Editor of Farm and Home, Springfield, Mass.

FIRST INSTALLMENT FOR DECEMBER.

- 1. SQUARE WORD—1. A ruler; 2. an image; 3. not any; 4, a dingle.
- 2. DROPPEN VOWELS—Supply the vowels and make words in the United States:
 - 1. KN; 2. SC; 3. TC; 4. KKK; 5. TLLHSS.
- 3. ANAGRAM (one word)—AND A LETTER.
- 4. HIDDEN FRUITS AND VEGETABLES—There appeared to be Ethiopian minstrels in a corner of the hall. Work the pump, kindle the fire, set the table. The cur ran toward them and they fled in terror.
- 5. CHARADE—My first is to stuff, my second is to clasp closely and my whole is a restraint.

Woman Doctors—Twenty-five years ago there were 500 lady doctors in practice in the United States; to-day there are 4500—one in 15,000 of the population. Among these are a few distinguished homeopathsists, hospital physicians, and surgeons, professors in medical schools, oculists and electro-therapeutists, the great majority being ordinary doctors. There are women who count their income in thousands, and one lady practicing in the West End of London earns \$2,000 a year. Miss Annie Romberger of Philadelphia has a practice worth \$6000 a year, and she is one of many who earn as much.

I come from a land where injustice is unknown, where every man is akef before the law, but some are better than others behind it: where the accused always has a fair trial, whether in the criminal court or at the coroner's inquest. We Anglo-Saxons are the salt of the earth, an' don't ye fright it, boys. All our affairs are in order. We convict no innocent men, an' very few guilty wans, perjury is unknown amongst us, we have no military scandals, an' our private life is beyond rebuke. So we have th' time an' th' inclination to study th' vile offenses of our neighbors an' give thim advice free of cost.—[Mr Dooley.

It is found by investigation that the naval officer is one of the busiest men in the world. In the United States navy the officer devotes over 12 1/4 hours of his life each day in the performance of his duty. He gives less time to sleep than any other man, no matter what his occupation may be. Six hours a day is the limit of sleep allowed the naval officer. Two hours more each day is given over to meals, making the entire time occupied by re-education eight hours each day.

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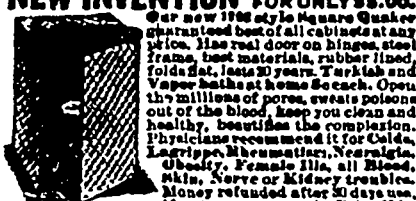
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PARLOR GAMES.

A good trick is the trick of making someone say "black." They will tell you that they will not say "black" Stop a few minutes as if you were trying to think of something to say. Then ask, "What colors are the American flag composed of?" They will answer, "Red, white and blue." Then laugh and tell them you knew they would say blue. Almost invariably they will answer, "You said you could make me say black, not blue." Then you have finished, and they have said black. A good puzzle is about cows. Ask the company if 18 cows were going through a narrow gate, where only one could pass at a time, which cow could look behind her and say, "There are 13 pairs of horns behind me?" The answer is none, as cows cannot talk. Now ask, if h-o-o-r-s-e spells horse, what would h-o-u-s-e spell? It would spell hours of course, but if the word is spelled hurriedly no one or very few can say what it really does spell.

If anyone in the room is very good-natured you might try this trick on him, but it holds one member up to ridicule and ought not to be used often. Arrange the company in a circle, stand in the center and tell them all that you will give them each the name of some bird or animal, and when you drop your handkerchief you wish each one to imitate the noise of the animal which name they have. Then tell all to remain silent excepting one (you must whisper this) whom you wish to try the trick on. To this one whisper "mule," then drop your handkerchief and await results. Tell someone that they can go outdoors, turn over any three chips and then you will tell them which chip they turned over last. While they are out doors, place a chip against the door, so when the door is opened it will fall down. When they rush in, the chip will fall, and then you must show them the chip as the last they turned over.

"Who hit you" is an interesting trick. Have someone who understands the trick to aid you. Have your assistant and the one who is to be tricked sit back to back, blindfolded. Then someone slip the blindfold from off the eyes of the assistant. All of the rest join hands and walk around the two. Then say that you have a book in your hand which you are going to hand someone. Then while the company marches around, this person will hit one of the seated persons on the head, and they then must guess who hit them. Then hand the book to your assistant, who will give the signal for the marching to begin, and the assistant will hit the other player. Then the tricked one will have to guess and will guess someone in the circle, as he does not know the assistant will play. As he does not guess rightly, the play goes on. The assistant will then strike his hand with the book and then guess someone in the circle also. The other player will be again struck and the guessing go on again. This may be kept up until it becomes tiresome, and the assistant is said to guess rightly and the other is not told of the trick.

Put a ring on a string and ask one of the company to take it off, not breaking the string or slipping the ring on the hands. This trick is done by lifting the ring off the string or just so the ring does not touch the string. It is then "off the string." Place three pins in an upright position and have an assistant sent from the room. Tell anyone to touch any one of the three. If it is the right-hand one, call "ready," if the left-hand, call the name of the person you are speaking to, and if the middle one, call "come." The assistant has been told of this before and can touch the pin which has been designated before. If this arrangement can be seen through, allow someone else to do the calling and use different positions of the hands or feet instead for signs. Also have your assistant leave the room and ask someone to touch a panel

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In the door. Call your assistant back and ask him which panel has been touched. Point to them and say "Is it this one?" "This one?" "That one?" The panel which is touched and designated by "That one" is the right one. Ask your assistant to leave again and ask the company to talk of something in the room. Call back the assistant and ask him what the company has been speaking of. Ask if they spoke of different objects in the room, being careful not to mention a thing which has four legs. Then just before you name the object spoken of, name a four-legged thing. By this the right object is readily known by the assistant. [Nellie Kelsey.]

CHARADES.

How many feet have 40 sheep, a shepherd and his dog? Two, the dog has paws, the sheep have hoofs. What Irish novelist was one that all the world loves? Lover.

Take my first from the shelf and stir my second in it. Then cook and eat my whole—'tis the work of a minute. Answer: Pancake.

What is the difference between a coal merchant and a person with cold feet? The one has sold coals, the other cold soles.

What is a suitable musical instrument for a fisherman? Castanet. What for a sign painter? Cymbals.

In the old colonial (first). Many a busy matron (last). Oft have we the tale rehearsed Of our fathers' glorious past,— How my whole they proudly wore While their wrongs they bravely bore. Answer: Homespun.

Always runs, never flies, headless, wingless, with four eyes? Mississippi river.

My first are those in righteous paths who go. My last the farmer does with plow and hoe.

Now guess on this and rub your puzzled poll. I trust your efforts will not be my whole.

Answer: Few, till (futile).

My first are always out of reach And yet are in the field. A field that is not large, I ween, And blue instead of green.

My second but a little link To bind my several members.— A breath, a little drop of ink. But what it means, ah, brothers, think.

My third's "afflictions sore." Yet to my first when bound. How light they seem, and soon o'er passed.

In glory lost at last. My whole—ah, who shall tell What rapture filled the hearts Of those who, after darkest night, Beheld its beauty hail the light.

Answer: Stars and stripes.

What force or strength cannot get through.

I, with a gentle touch can do. And many in the street would stand Were I not as a friend at hand.

Answer: A key.

THE GAME OF SOUP.

"Soup" has its devotees among the merry. "What'll you put in my soup?" asks a juvenile cook, selected for his laugh-provoking propensities. He holds a hat before each one, and each must donate some ingredient, no matter whether it be carrots, onions or shingle nails. After he has a contribution from everyone he goes around again and asks each what he has put in. Taking the article for a text, he enlarges upon it in his most humorous strain, till he elicits a laugh from the giver and a forfeit is the penalty for such levity. If the boy or girl proves laugh-proof he goes on. Whoever does succumb to even a smile must drop something tangible into the hat—a hairpin, handkerchief or whatever may be within reach. For example, at a party I attended, the cook who volunteered his services did so because he thought his plain face, frowny ways and general witty appearance could tempt a laugh quicker than anyone else in the room. A sodate girl who subscribed "sharks' teeth," refused even a pleasant expression

when she was forced to admit that his grinders must resemble the teeth in question. He twisted his features into as grotesque shapes as possible. "Do you ever expect to cross the ocean?" grinning his widest. "Sharks' teeth," gravely. "Oh, afraid of sharks, eh? But travel isn't so dangerous, nowadays. What happened to your bicycle yesterday?" "Sharks' teeth." Every one else laughed then, for all knew that her wheel was badly punctured. "Don't you think I'll be president?" "Sharks' teeth," for she must not say anything different, however much she may wish to add a word to the barrier between him and the august position. "What do you want for breakfast?" and so he continued to tax his invention, his grimaces growing less confident and persistent till he hit upon. "Oh, say, Bulah, Tom Small told me what your secret with Hester was. He overheard you saying—" Bulah was caught, and broke the spell with, "Don't, Fred! I don't want anybody." Then everybody laughed and she dropped her bouquet of goldenrod into his hat and he proceeded triumphant. When he had made his collection he took a seat in the room's center and asked a little girl to stand behind him, holding his hatful of soup out of his sight. She took out an article and held it above his head, in view of the rest of the company. It happened to be a cuff button. "Here's something doesn't belong in your soup," she said. "You can't eat it, what shall I do with it?" "Sell it to its former owner." "What shall he pay for it?" "Is it fine?" "Fine." Then came a forfeit, which in this case was, "Let him put two chairs back to back, take off his coat and jump over it." Harry reluctantly started to obey, but the chairs were too high and he ended by jumping on them. "Jum, over it, your coat, child," cried Fred, and Harry took his seat amid shouts of applause, but the button was returned. Next the goldenrod was held up and Saddle pronounced it "superfine," without telling whether it belonged to a girl or a boy. "Sing the first verse of 'America' and count the words in it, aloud." Bulah happened to be a good singer, but she found it difficult to keep the air while stopping to count between the words, as "My (one) country (two) 'tis (three) of (four) thee (five)," and all to redeem a yellow flower.—[L. L. Trott.]

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FROM OUR YOUNG AMERICANS.

A Threshing Poem—I enjoy reading L. Levere's letter. Longfellow and Holmes are my favorites. How many Young Americans have read the book entitled Cleopatra, by Rider Haggard? Here is one of my poems, called Threshing:

The engine roared with steady puff,
I heard the thresher hum,
I tugged away at the heavy stuff,
Pitching bundles one by one.
The drivebelt glistened in the sun
As it flew on its way.
And seemed to think it fun
To torture us that way.
How that machine did throw the dust
Into my nose and eyes!
I dare not shirk, but work I must
Till stars shine in the skies.
[Vernon Mangum.]

Write to Our Page—We live on a farm in Manitoba. I keep a house for my father and three brothers and am kept pretty busy. I attend church and Sunday school regularly, but do not go to school at present. They are going to build a school in our village; it is a small village consisting of two stores, a blacksmith shop, a butcher shop, two elevators, three churches (Methodist, Presbyterian and English) and a few dwelling houses. Our house was struck by lightning this summer but no one was hurt. Fred, do not be too hard on the girl who offended you. Perhaps she did not think at the moment what she was doing, or perhaps there were others near by and she did not want them to see you kiss her. If she will not speak to you now, write a note to her and tell her to make up again; but not likely she was so much offended as all that. Tell her to write to our page, Fred.—[Manitoba Girl (15).]

Not Yet Twelve—Water Lily, you're just all right. Write again. I guess we young people have just as much right to be in love as the old people, now don't you think so? What do you think of one of my schoolmates now? She was married on the 4th of March, 1898, and when she was married she was not yet 12 years old and her husband was 31. Now don't you think she was silly? I have a friend (Nora B. B.) who is sick with the measles and her sister Mabel goes to school. Yes, hurrah for Fred Swanson! I hope he'll get slapped every time. Water Lily, write again, and if you belong to a letter circle let us know which one, so I can join.—[Marie W. (15) New York.]

Island Dwellers—We are two boys living on an island called Vashon island. It is situated in Puget sound, midway between Seattle and Tacoma. The principal occupation is fruit-raising, of which strawberries is the main crop. We are 14 years old and attend the public school, and are both in the same class. This island has eight public schools and one college. If this letter is printed we will write again and tell more about this wonderful country.—[Thomas A. J. Steffenson and Conrad L. Tjomsland.]

Natural for Girls—I have been a subscriber to F & H since June last, and for solid information I think it is unparalleled. I have been so favorably impressed with your letters as to endeavor to write one myself. The plan adopted by most of the Young Americans has also received my approval—I mean concerning better letter writing—and is an advantage that should be highly appreciated. I deeply sympathize with Frederick Swanson, the boy that got his face slapped for merely kissing a girl, as I can recall in my past experience an instance which resulted in a similar manner. Do not let this discourage you, Fred. It's natural for girls to make a blind of their real regard for a person in this way. Why do not Jessie and Eva continue to assist the Young Americans with their letter writing? Let us be impartial in our letter writing. It will have a tendency to secure an increase in the number of

correspondents, and as the old saying is, "the more the merrier." It is especially true in this case, because it will enable us to use better language by seeing it used. I am nearly 19 years old and have taught school one term. I have engaged to teach the same school this season. It commences in October.—[Merion Vanderhoof, Wisconsin.]

Vacation—For a number of weeks I have been watching the papers with much interest. I think the Young Folks are getting waked up. Fred Swanson has brought down all the Councilors' wrath upon his head; but I think he deserves it. Bad Boy, what did you want that girl to slap your face for? If you are like the boys I know, if she had slapped your face you would have kissed her again. If the boys here kiss a girl and she gets mad, they enjoy it and kiss her again, whereas if she had liked it and "giggled," he would have had no desire to do so. I am not ashamed to say I like the boys. I like my brother, but he is younger than I, so,—well, I enjoy the company of somebody else's brother better. I could tell you some fine stories of the boys and girls, that I go with, and the way we enjoyed our vacation.—[Aveline (17).]

Scholars Walk Around—Zip Coon wants to hear more about music, literature and romance. I love music. I have a guitar with cracked sides and four strings to it, but that guitar and I make music all the same. What sort of an instrument do you play on, Zip Coon, or don't you play? As for romance, I think we have gotten enough of that from Water Lily. I would like to tell Eva Clalborne that we have several chronic diseases in our school, but whispering is the worst of them all. One of these is that the scholars get up and walk around whenever they please. The schoolmarm made one of the boys walk around the desks 105 times once, but that only cured him temporarily. We, too, have to study Patrick's grammar and, oh ye fates! Frye's geography. Does anyone else of the Y's have to study that? Examination in geography is almost enough to lay anyone up with brain fever. I think I think Fred Swanson was a bad boy and got what he deserved when he was slapped. Had I been the girl I would have slapped him more than once.—[Hattie Swenson, Illinois.]

Favorite Authors—My favorites are Opening a Chestnut Burr, Queechy, Dora Thorn and Not Like Other Girls. I also like the Shadow of a Sin, Gold Elsie and many others.—[Elsie Iowa.]

I agree with Lawrence Levere, as Longfellow is my favorite poet also, and Charles Dickens my favorite author. Rebecca in Ivanhoe is my favorite heroine of all the novels I have read. I also like Vanity Fair by Thackeray very much. I have never been to anything but a country school.—[Lillian (17).]

How many of the Young Americans read novels and love stories? I do, and I enjoy them. I like Mrs. Georgie Sheldon, Laura Jean Libby and Mrs. A. McV. Miller as authors. I have just finished a love story by Laura Jean Libby, entitled Little Rosebud's Lovers, which is very good. How many have read it? To those who have, don't you think Rosebud had a very hard time of it? [Sweetness, New York.]

I like to read and do a lot of it. I like Roe's works best. I think Miss Alcott's works are very good also. I like fancywork and do a great deal of it. At present I am doing some fine hemstitching.—[Trixy of Pennsylvania.]

Longfellow and Tannison are my favorite poets, Sir Walter Scott is my favorite prose author.—[Ontario Boy.]

I wonder how many of the Young Americans have read The Last Days of Pompeii and Kenelm Chillingly? The instruction afforded by these books is very great.—[Jessie, New York.]

School Days Happiest—This is my first attempt in writing to Farm and Home, but seeing some very interesting letters I decided to try my hand at it. Water Lily, you are rather young to be studying about "braux." Don't you think so? I wonder how much you expect to learn at school this year under the circumstances. I would like to see you make love to our teacher. He is so strict that we are not allowed to

walk to school with a boy, but we have high times just the same. I wonder if Frederick the Great feels any smaller since he received his slap. I advise him to wait a few more years, and not to go by the motto, "If at first you don't succeed, try, try again," as it would not be for the best in this case. Lawrence Levere, I think you did real well with those verses you composed. Who knows but what you may be a great poet some day? Longfellow is a favorite of mine, too. Ray, I congratulate you, but remember your school days are your happiest. Ariadne, I trust we may some day come up to your ideal in letter writing, but it will be awfully hard for us. That's right, Zip Coon, take Freddie down a peg or two about kissing girls.—[Little Southerner (15), Arkansas.]

Water Lily's Reply—No, Bad Boy, Water Lily isn't hot, for she has just come in from milking the cows and we had a hard freeze last night, so I am not very hot. Do you remember who I told you my school teacher was? Well, school has

begun and I am having a jolly time of it. Besides, mamma has gone away for a visit of two months, and as my beau (no, I mean teacher) lives handy here, we go for a drive almost every evening. Fred Swanson, you have my sympathy. Although I do not believe in kissing, I do not object to being kissed once in a while. Say, Kisses, did you hear about the fellow down south that got rich the other day for minding his own business? But as I am used to being called "fast," I don't care; I would rather be called fast any day than "slow." I do not think it is any great crime to be fast. If it is, why is it I am liked so well by old and young, good and bad? Bad Boy, you made a great mistake in signing your name. Good Boy would have been better. I love to dance and am fond of music. So long.—[Water Lily.]

"My lord," said Ambassador Choate to the marquis of Salisbury, "I suppose you regard President Kruger as a smooth Boer."

"Not at all, doncher know," replied the British premier. "He's a Boer that cuts up rough, Mr Choate."

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APPLE FAVORITES.

Jellied Apples: A delicious dessert of jellied apples is made by filling a buttered earthen pudding dish with layers of thinly sliced, tender, tart apples. Sprinkle each layer with sugar and dust with cinnamon. When full pour over 1 teacup cold water, cover with a buttered plate enough smaller than the top of the dish to fit inside and press upon the contents. Set the dish in a pan of hot water, put it in the oven and cook slowly three hours. When cold it can be turned from the dish like jelly. Serve with whipped cream and sweet crackers. It will keep nicely several days.

Apple Pudding: Three tablespoons rice, a little salt, 3 tablespoons sugar, 1 qt milk, and 3 sour apples, pared and quartered, or 1 cup small, whole raisins. Put all into a deep pudding dish well buttered. Cover and bake slowly four or five hours, till the milk is all absorbed and the rice is red or colored. Serve hot with butter. -[Mrs Lincoln.

Scalloped Apple: One tablespoon butter, 1 cup crumbs, 1 cup chopped apple, 2 tablespoons brown sugar, 1/4 teaspoon nutmeg and cinnamon, 1 teacup lemon juice, 1-16 teaspoon grated lemon rind. Melt the butter and add the crumbs. Mix the sugar, spice and lemon rind. Put 1/2 cup crumbs in bottom of a buttered baking dish, then 1/2 cup apples. Sprinkle with one-half the sugar and spice; then add another 1/2 cup crumbs, the remainder of the apple, the sugar and spice; sprinkle the lemon juice over this and put the rest of the crumbs over the top. Bake until the apples are thoroughly cooked.

Baked Apples: Wipe and core sour apples. Put in a baking dish and fill cavities with sugar and spice. Allow 1/2 cup sugar and 1/4 teaspoon cinnamon or nutmeg to 8 apples. If nutmeg is used, a few drops lemon juice and few gratings from rind of lemon to each apple are an improvement. Cover bottom of dish with boiling water and bake in a hot oven until soft, basting often with syrup in dish. Serve hot or cold with cream. Many prefer to pare apples before baking. When this is done, core before paring, that fruit may keep in shape. -[Fannie M. Farmer.

A VARIETY.

Pumpkin Custard: Pare and cut a Kershaw pumpkin into pieces about an inch square; put these into a porcelain-lined saucepan, with just enough water to prevent burning. Stew slowly until tender, about a half hour, then press through a colander. To every half-pint of pumpkin, add a piece of butter the size of a walnut and 1/4 teaspoon salt. Mix and stand aside until cold. When cold, put 1 pint of this pumpkin into a large bowl, add 1 pint good milk, 1/2 teaspoon ground mace, the same of ground cinnamon, 1 teacup ground ginger, 1 cup sugar and 4 well-beaten eggs. This quantity will make three or four pies. -[Mrs Rorer.

Pumpkin Pie: One cup boiled and sifted pumpkin, 3 cups milk, 1 egg, 2-3 cup sugar, a little salt, 2-3 teacup ginger, nutmeg and cinnamon. If you prefer, use one or two crackers rolled fine instead of the egg. Bake in a deep plate.

Dutch Apple Cake: One pint flour, 2 teaspoons baking powder, 1/2 teacup salt, 1-3 cup butter, 1 egg, 1 cup milk, 5 apples, 1/2 cup sugar. Mix and sift thoroughly together the flour, baking powder and salt; rub in the butter; beat the egg and add to it the milk, and stir it into the dry mixture, making a dough soft enough to spread half an inch thick on a shallow baking pan. Core and pare the apples, cut them into eighths; lay them on top of the dough in parallel rows, sharp edge down, and press so the edge will penetrate slightly; sprinkle over the sugar and bake in a hot oven 25 minutes. Serve hot as a tea-cake or with sauce as a pudding.

Prune Soup: Soak 1 lb prunes for several hours in 5 pints water, simmer slowly (tightly covered) until perfectly soft; the last half hour add 1/2 lb sugar, the juice and half the grated peel of a lemon; put through a soup-strainer (by rubbing), add 1 glass wine, return to the saucepan, boil up once more, and serve. Apricots treated as

above and flavored with orange and Rhine wine make a pleasant soup. These soups may be slightly thickened if preferred, using corn starch for the purpose. The wine may be omitted if considered objectionable.

Oatmeal Mush for Children or Invalids: Put the meal and salt in a double boiler, pour on the boiling water, and cook for two or three hours. Remove the cover just before serving, and stir with a fork to let the steam escape. If the water in the lower boiler be strongly salted, the meal will cook more quickly. Serve with sugar, or salt and cream. Baked sour apples, apple sauce, and apple jelly are delicious eaten with the oatmeal. They should be served with the mush, and the cream and sugar poured over the whole. They give the acid flavor which so many crave in the morning. Coarse oatmeal is not suitable for any form of water brash, acidity, or bowel irritation. It often causes eruptions on the skin in warm weather. -[Mrs Lincoln.

Grape Pie: Pop the pulps out of the skins into one dish, and put the skins in another. Then simmer the pulp, and rub to soften it, and then rub through a colander to remove the seeds. Then put the skins and pulp together, and they are ready for the pie or for canning, or for putting in jars for further use. Fine for pies.

PUDDING SAUCES.

Lemon: Half-cup sugar, 1 cup boiling water, 1 tablespoon cornstarch or 1 1/2 tablespoons flour, 2 tablespoons butter, 1 1/2 tablespoons lemon juice, few gratings nutmeg. Mix sugar and cornstarch, add water gradually, stirring constantly; boil five minutes, remove from fire, add butter, lemon juice and nutmeg.

Vanilla: Make same as above, using 1 teacup vanilla in place of lemon juice and nutmeg.

Molasses: Molasses 1 cup, 1 1/2 tablespoons butter, 2 tablespoons lemon juice or 1 teacup vinegar. Boil molasses and butter five minutes; remove from fire and add lemon juice.

Cream: One egg, 1 cup powdered sugar, 1/2 cup thick cream, 1/4 cup milk, 1/4 teacup vanilla. Beat white of egg until stiff; add yolk of egg well beaten, and sugar gradually; dilute cream with milk, beat until stiff, combine mixtures and flavor.

Yellow: Two eggs, 1 cup powdered sugar, 3 tablespoons wine. Beat yolks of eggs until thick, add one-half sugar gradually; beat whites of eggs until stiff, add gradually remaining sugar; combine mixtures and add wine.

Foamy: Whites 2 eggs, 1 cup powdered sugar, 1/4 cup hot milk, 1 teacup vanilla. Beat eggs until stiff, add sugar gradually and continue beating; add milk and vanilla.

Hard: Of butter 1-3 cup, 1 cup powdered sugar, 1-3 teacup lemon extract, 2-3 teacup vanilla. Cream the butter, add sugar gradually, and flavoring.

Orange: Whites 3 eggs, 1 cup powdered sugar, juice and rind 2 oranges, juice 1 lemon. Beat whites until stiff, add sugar gradually and continue beating; add rind and fruit juices; use blood oranges when possible.

Creamy: Of butter 1/4 cup, 1/2 cup powdered sugar, 2 tablespoons milk, 2 tablespoons wine. Cream the butter, add sugar gradually and milk and wine drop by drop. If liquids are added too fast the sauce will have a curdled appearance. It should be of soft, smooth consistency.

Sterling: Half-cup butter, 1 cup brown sugar, 1 teacup vanilla or 2 tablespoons wine, 4 tablespoons cream or milk. Cream the butter, add sugar gradually, and milk and flavoring drop by drop to prevent separation. -[Fannie M. Farmer.

FOR INVALIDS.

Albumenized: Half cup milk, white 1 egg. Put white of egg in a tumbler, add milk, cover tightly, and shake thoroughly until well mixed.

Koumiss: One quart milk, 1 1/2 tablespoons sugar, 1-3 yeast cake dissolved in 1 teacup lukewarm water. Heat milk until lukewarm; add sugar and dissolved yeast cake. Fill beer bottles within one and one-half inches of the top, cork and invert. The corks must be firmly tied down with strong twine. Let stand for six hours at a temperature of 30 degrees. Chill, and serve the following day. -[Miss Farmer.

Milk Shake: One egg, 2-3 cup milk, 1 teacup sugar, a slight grating of

nutmeg, few grains salt. Beat egg slightly, add salt, sugar and nutmeg. Mix thoroughly, add milk and strain. Stir well.

Bread Cake—On baking day take from your dough, after its second rising, 2 cups risen dough. Have ready 2 cups white sugar, 1 cup butter creamed with the sugar, 3 eggs, 1 teacup soda dissolved in hot water, 2 tablespoons sweet milk, 1/2 lb currants well-washed and dredged, 1 teacup nutmeg, 1 teacup cloves. Beat the yolks very light, add the creamed butter and sugar, the spice, milk, sugar and dough. Stir until all are well mixed, put in the beaten whites and lastly the fruit. Beat hard five minutes, let it rise 20 minutes in two well-buttered pans and let it bake half an hour or until done. -[A. R. Annable.

Molasses Cake—Two and one-half cups molasses, 1 cup sugar, 1 cup sour or buttermilk, 1 cup butter or other shortening, 5 cups flour twice sifted, 1 lb raisins, or half of currants, if fruit be used, 4 eggs, 1 nutmeg or spice to taste, 3 even teaspoons soda. If butter be used for shortening melt it and use no salt. Mix all but the fruit and 2 1/2 cups of the flour and beat thoroughly. Dredge fruit with flour and add with the remainder of the flour sifted a third time. Stir these latest ingredients in very slowly. Bake in moderate or slow oven. It will keep indefinitely, especially if baked in deep pan. It can be made with sweet milk and less soda. [The Maine.

Honey Crackers—Mix together 1 lb strained honey and 1/4 lb butter. Bring to a boil. Let cool for 10 minutes, add 1 lb flour, 1/4 lb ground almonds, 1-3 teacup ground cloves, the grated peel of a lemon and a scant teacup soda dissolved in hot water. Mix and set aside over night. Next morning roll out 1/2 inch thick. Cut in small squares and bake in a moderate oven. -[M. A.

Mince Pie—One cup chopped meat, 1 1/2 cups raisins, the same of currants and brown sugar, 1 cup granulated sugar, 1-3 cup molasses, 3 cups chopped apples, 1 cup liquid in which meat was boiled, 2 teaspoons each of salt and cinnamon, 1/2 teacup each of mace and cloves, 1 lemon chopped, 1/4 lb citron, 1/2 cup cider and 1/4 cup vinegar. Bake with upper and lower crust in a moderate oven. This is sufficient for four persons. -[M. A.

Fruit Pudding—Two well-beaten eggs, 1 pint sour cream, 1/2 teacup soda, one cup sugar, your choice of flavoring to taste, flour enough to make the batter a little stiffer than cake dough. Then stir in 1 qt very fine sliced tart apples. Bake on tins. To be eaten while hot with sweetened cream. -[Emma Switzer.

Syllabub—Fill a china bowl of any size almost half full of cider. If sour, sweeten to the taste with brown sugar. Season with spices preferred, grated nutmeg is fine, then strain new milk in it until it froths. Serve quite cold, but it is better the day it is made. -[Emma Clearwaters.

Snow Candy—Three cups sugar, crushed or A. A., 1/2 cup vinegar, 1 1/2 cups water, piece of butter size of a walnut, flavor with vanilla. Boil until it hardens when dropped in ice water, turn out on buttered plates and pull until white. -[L. M.

Lemon Pie with Two Crusts (By Request)—Of chopped apple 1/2 cup, 1 cup sugar, 1 beaten egg, 1/4 cup rolled common crackers, 2 tablespoons lemon juice, grated rind 1 lemon, 1 teacup melted butter. Mix ingredients in order given and bake with two crusts.

Baked Apples with Honey—Wash as many apples as desired, remove the core at one end, but do not break the paring at the other end. Put into the space thus made a bit of butter and a teacupful of honey. Place in a pan and bake. -[L. A.

TEN WEEKS FOR 10 CENTS. That big family paper, The Illustrated Weekly, of Denver, Colo. (founded 1889) will send ten weeks on trial for 10c; 6 months for \$1.00; 12 for \$1.00. Special offer: 12 for \$1.00. Latest in making news and illustrations of every day. Largest circulation and most interesting. A great advantage and worth. -[See page 1000.

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STITCHES

MILLINERY SECRETS.

A few trials, disastrous though they might be at first, would show a woman of ordinary intelligence that trimming a simple walking hat is mere child's play compared to the planning and making of a gown, and, once broken in to the plainer styles, it is easy to go on to the more complicated creations. Many of the most stunning street hats at the recent city openings were of brown or gray French felt, in the regulation walking shape, somewhat rather flaring brims, and others closely rolled at the sides. They were trimmed either with a fancy silk scarf, folded loosely round the crown and twisted, on the left side, into a knot, through which a long quill was run, or else with shaded wings, and plain piece velvet matching the fel in color. The men's furnishing stores exhibited the most elegant of these hats, and the prices ranged anywhere from \$9 to \$12. One young woman, whose pocketbook couldn't stand any such strain, said she didn't believe but what she could manage to have one of those dressy affairs and not pay the earth for it, either. At one of the medium-priced men's furnishing establishments, she bought for \$3 a plain seal brown felt hat, such as her brother would wear, trimmed it herself with \$2 worth of wings and brown silk velvet, and now sports a hat at a cost of \$5, which is fully as smart looking as any of the \$12 ones.

There are two reasons why the amateur milliner comes to grief, and the first is that she feels as though she must use all old things, no matter how shabby and generally out of date they are. You cannot make a handsome, stylish hat out of a lot of crumpled and bedraggled old finery. But with a little practice you can create one from a small outlay that a milliner would ask much more for.

The other reason for the easy discouragement of the novice is her too ambitious sights at the very beginning. Perhaps the most stunning of all this season's styles is the big black velvet picture hat, trimmed simply with an enormous, fierce-looking bow of black silk, placed exactly in front, and covering the greater part of both crown and brim. This bow is made of six great loops of silk, wired at both edges, and the whole thing looks the very acme of simplicity. But let the newly-ledged milliner essay one of these deceptive creations as a maiden effort, and she is safe to retire from the field while yet her career is young. Just fitting the velvet covering smoothly over the frame requires the practiced hand of the experienced worker, and only an artist can accomplish that bow.

The woman who makes up her mind to learn how to make her own hats should begin with the walking shapes and short-back sallois in felt or straw. They require no covering, and only the details of trimming have to be considered. She also needs to study her own peculiar style and figure, in order to understand what is becoming, and she never need be behind the times as regards the latest modes, as the fashion papers and magazines of to-day give about as much attention to new millinery as to the styles in costumes. Suppose she is rather clumsy at the beginning, and her first hat looks as though the trimming had been nailed on. Probably her earliest attempts in the dress-making line were even worse failures, and there is always some friend or neighbor who possesses that inborn knack of twisting a ribbon into a bow, and who is more than willing to add a deft touch here and there to aid a despairing tyro.

I will speak more in detail in another article.—[Addie C. Topham.

PIN CUSHION CENTER, TATTED.

Purl two, one loop until there are eight loops, purl two, draw up.

Purl five, one loop, purl ten, no loop, purl ten, one loop, purl five, draw up, join to first loop on previous tatted.

Continue to go around to form a rosette. Join and clip off. Purl ten, join to first loop in rose.

Take the spool thread, make two, purl one loop until there are five loops with two purls between each; purl two,

draw tight. Repeat all around the rosette.

Now make a circle of rosettes around the centerpiece. The outside is composed of twelve medallions, made as follows:

Purl ten, one loop, purl ten, draw up, join thread on spool, purl two, one loop, until there are five loops. Purl two, draw up, purl ten, join to loop in end of tatted, purl ten, draw up.

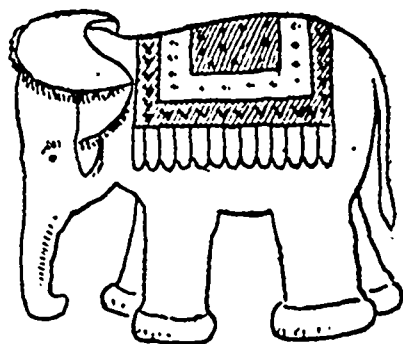
Repeat four times more until there are six in all, tie and clip off, purl ten. Join to second loop of previous five, purl ten, draw up. Join spool thread, purl four, one loop until there are five loops, purl four, draw up; join to fourth loop of previous five. Repeat ten times more.

A pin cushion that took first prize at a recent fair was made of garnet silk covered with this tatted pattern, and had garnet ribbon bows at each corner. [A. H. A.

A CHRISTMAS ELEPHANT.

A toy elephant is an attractive novelty that will please the children to find in their Christmas gifts and will also sell well at fairs. To prepare the body for the outside covering, cut out the shape of the limbs in brown paper, stuffing each with wadding, sewing into shape, and covering the whole with coarse, gray serge, preparatory to putting on the outer covering, or hide, which is worked in crochet.

This elephant, shown in the engraving, is 11 inches high, the whole length from head to tail 12 1/2 inches, the legs 5 1/2 inches high by 6 inches in circumference; the trunk extends 5 inches from the head, and the tail is 4 inches long. He wears a saddle made of black and blue serge, both pinked around the edges and decorated with all manner of fancy stitches, embroidered with odds and ends of different colored silks and ornamented with spangles. The valance on each side of the saddle is formed of red and white striped material embroidered with yellow wool, the stitches being taken through and through the saddle, thus securing it in position on the elephant. If a few beads are put in a small box and placed inside the elephant, it will rattle. The crocheted "hide" with which the elephant is covered is worked with coarse, gray Germantown, about



three ounces, and a No 9 bone needle. Begin with four chain, join round, and work eight or nine double crochet in the circle, and proceed round and round, working into the back part of stitch, and increasing in the second round in every stitch, in the third round in every alternate stitch, and subsequently in every third or fourth stitch, keeping the work perfectly flat until the circle measures 3 1/2 inches in diameter. This forms the pad of the foot; it sets flat on the ground, and bulges out in a sort of rim beyond the circumference of the leg. The next round must contract the crochet to the size of the leg by taking up two stitches together, and getting about twenty double crochet in the round; from this continue round and round in double crochet until twenty-two rounds are done, for the length of the leg, which, as it nears the top, should be widened by increasing a stitch or two as required. This is a fore leg and another should be worked to correspond. The two hind legs are worked in the same manner, but shorter, being only eighteen rounds in length.

The head is commenced at the mouth and worked upward to the top of the forehead; do fifteen chain, and work double crochet backward and forward, increasing a stitch at the end of each row until twenty-seven stitches are attained; work six or eight rows on twenty-seven stitches, and then to

shape the forehead decrease a stitch at the end of each row for four rows; do the same, and also decrease in the center by taking up the three center stitches as one stitch until only five stitches are worked, and fasten off. Resume on the commencing chain, fifteen double crochet, four chain, and join round, and now crochet round and round, decreasing a stitch in every other round, as required to fit the trunk, until the work is brought to four or five stitches in the round and the trunk is covered; then nine chain, one single crochet in the chain stitch nearest the needle, two double crochet, six treble and fasten off, and sew the end of the

wool to the end of the trunk. Draw the trunk and head upon the model; also the legs.

Now crochet for the neck, beginning round the headpiece and working in double crochet in rounds over the model and fitting the work to the model until the crochet reaches the fore legs. Here divide the crochet and crochet for the neck and for the under parts separately joining the work to the legs at the end of every row; stop when you get to the middle of the top of the back, and thence work the under part only to reach to the extent of the hind legs. The remaining portion of the top of the back is commenced by the tail; work

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ten chain, do one double crochet in each chain stitch (eight double crochets), three double crochet in the top stitch, and eight double crochet along the other side of the chain; turn, do one double in each of eight stitches, two in the next, three in next, two in next and one in each of the remaining eight stitches; turn, one double in each of nine stitches, two in next, three in next, two in next, and one in each of the remaining nine stitches, and so on, in a horseshoe shape, until the crochet is of right size to fit nicely on the hind-quarters of elephant, when work with further increase, and join at the end of the row to the hind legs until sufficient is done to finish the covering of the back, when join the last row of this to the last row of the piece you previously worked.

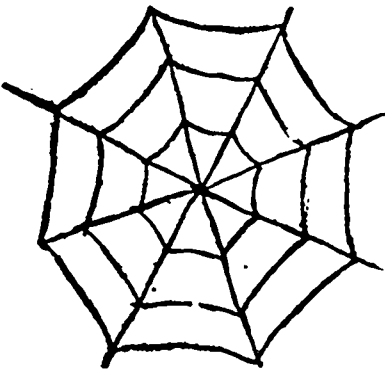
For the tail, chain twenty-four and work three rows of double crochet; make half a dozen loops of wool at the end that is to be the tip of the tail, and sew up the tail lengthwise and attach it to its place on the body of the animal. For the two flaps on the neck, work chain sufficient to reach from the top of the head to behind the ear; work double crochet forward and backward.

1st row—Do c to within six stitches of the end. 2d row, work to the end. 3d row, work to within eight stitches of the end of the first row. 4th row, work to the end. 5th row, work to the end of the commencing chain. 6th row, work to end and break off. 7th row, work again on same side as last row, and break off.

In all these rows, excepting the two last, increase in every third stitch, that the flap may fall full and freely. Make the other flap to correspond, sew the two flaps on in correct position, the widest part on top of the head. Sew on two black boot buttons to simulate eyes. Then when you have arranged the saddle the elephant is complete.—[Mabel Baldwin.]

COBWEB CUSHION DESIGN.

This fashionable cushion is made of either linen, denim or sateen with an embroidered center and double ruffle



of the same goods around the edge. For the center the cobweb design is a favorite and very easily made.—[L. M. A.]

BABY'S KNITTED SACK.

This warm, simple, easily knitted sack is in one piece, joined under the arms and the length of the sleeves. It is designed for home wear in early autumn. It is knitted of four thread Saxony, white and pale blue, or other preferred colors.

Cast on seventy stitches, with white for the lower edge of the back, and knit back and forth sixty-six times in all, making thirty-three ridges. (Two rows of knitting make one ridge.) At each side of this centerpiece cast on thirty-five stitches and knit nineteen ridges. Now knit back fifty-five stitches on one side, take another needle and bind off twenty-nine stitches, and knit off the remaining stitches on the needle. Knit six ridges at each side, then cast on eighteen stitches and knit nineteen ridges, bind off thirty-five stitches for each sleeve, knit thirty-three ridges for each front, and bind off across the bottom. Sew up the garment under the arms and along the sleeves. With blue yarn pick up the stitches across the bottom and knit across once.

Knit two, thread over needle twice, narrow, knit plain until within three stitches from the end, thread over twice, narrow, knit one. In knitting back knit three, purl one, knit plain un-

til within three stitches of end, purl one, knit one.

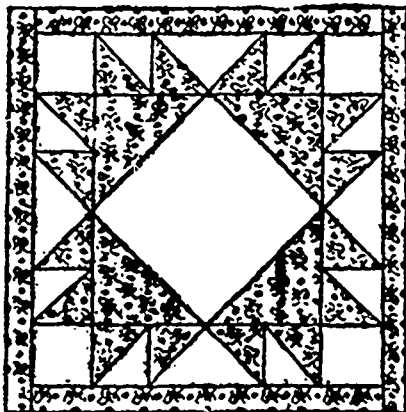
Knit in this way until you have nine ridges, then pick up the stitches along each front, beginning at the bottom, and knit back plain. Knit one, thread over, narrow, knit plain to top of sack. Knit back plain to within two stitches of end, purl one, knit one.

Knit in this way until you have nine ridges. Now over and the slanting corners of the border together.

Pick up the stitches across the neck and border and knit five ridges. Knit six stitches, thread over twice, narrow, knit seven, thread over twice, narrow, repeat from across the work. In working back drop the last half of every thrown-over thread.

Knit ten plain ridges and bind off. Run ribbon or cord with tassels through the holes to tie the sack around the neck.—[Sarah E. Wilcox.]

A ROYAL QUILT.



KING'S CROWN.

King's Crown: This old favorite is repeated in response to a number of requests. It was sent to F & H by Mrs A. I. Davis in 1898.

LADIES' CROCHETED SHAWL.

Material, eight skeins Shetland floss. Make a chain of six stitches and join. In this ring make 20 long orchet, thread over twice, and join.

Make a chain of three, and over the third long or treble crochet make a shell of nine doubles. Skip two treble crochets and make a shell of nine doubles.

On these 20 you will have four shells with nine doubles in each shell and one double between each shell.

3d row—Make a chain of three over the double crochet and between the second and third of shell make a shell of six trebles, skip two doubles in shell and make a treble in next one, skip two doubles in shell and make a shell of six trebles. This makes a shell of six trebles, a treble and another shell of six over shell in previous row. Repeat around 4 shells.

4th row, same as 3d, shell in shell. 5th row—Make a shell of nine trebles over each shell of six trebles in previous row, with one treble crochet between.

6th row, same as 3d. 7th row, same as 5th. 8th and 9th rows, same as 3d. 10th row, same as 5th. Next six rows, same as 3d. 17th row, same as 5th. 18th row, same as 3d. 19th row, same as 3d.

The fringe is made of a chain of twenty caught between every treble around the shawl. (Treble stitch is made by putting thread twice over needle and drawing through one loop and then the other.—[L. M. Annable.]

CHILD'S CAP.

Two ounces Germantown yarn will make a cap for a child three years old. The cap is worked in two pieces, one the crown and the other a band sufficiently long to reach around the child's head. When finished, they are crocheted together. The stitch used is "star stitch." Begin the band with forty-seven stitches. Draw out five loops through the first five chain, yarn over and draw through all the loops, yarn over and draw through one loop; this loop is called the eye. "Draw out a loop through the eye, one through the back part of last upright stitch and three through three on chain. Yarn over and draw through all the loops,

one chain. Repeat from across the chain.

Start the second and all other rows with the three chain and begin as before. In same way work backward and forward until the band reaches around the head. Start the crown with four chains joined, fill the with doubles, and after that rounds of star stitch, increasing sufficiently to keep it flat. Five rounds of star stitch and thirty-one rows in the band are usually enough for a small cap.—[L. M. Annable.]

DEAR OLD TATTING.

Old-fashioned tating is being revived quite extensively as fancywork, and for dollies and handkerchiefs is much more durable than the more delicate Battenberg or drawn work. Some of these center pieces and dollies are very elaborate, and, though made from the finest thread, will endure repeated laundering and always look as good as new. A simple little handkerchief, displayed by a young woman as her first attempt in this line, was the cause of much admiration at a recent social gathering. The center was of cobwebby handkerchief linen, which she had bought from the piece, and hemstitched herself, the hem being only about a quarter of an inch wide. Close together, all round this hem, she had fastened a row of very small tating rings made from number 100 thread, and to these were sewed a full ruffle of fine bobinet lace, about an inch and a half in width. This lace, or footing, as it is sometimes called, comes with selvedges, and costs only from 5 to 10 cents per yard. On the outer edge was another row of the little rings, and they were also applied at regular intervals on the lace itself. Several of these handkerchief centers could be cut from a strip of linen and nothing could be daintier for an inexpensive gift or whist prize.

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"Ah," said the man who is sometimes visionary, "if I only had the wings of an eagle and the heart of a lion!" "Another touch of dyspepsia!" murmured the family physician, in tones of sympathy. "My dear fellow, what you ought to wish for is the stomach of a goat."

[LETTER TO MRS. PINKHAM NO. 79 465]

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in uterus, ovaries were affected and had leucorrhoea. I had my children very fast and it left me very weak. A year ago I was taken with flooding and almost died. The doctor even gave me up and wonders how I ever lived.

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"I was troubled with irregular menstruation. Last summer I began the use of your Vegetable Compound, and after taking two bottles, I have been regular every month since. I recommend your medicine to all."—Mrs. MAGGIE A. BROWN, WEST PE. PLEASANT, N. J.

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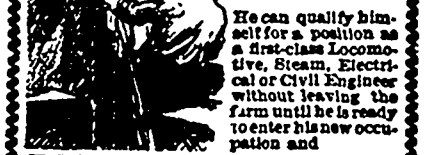
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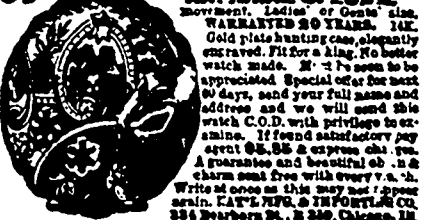


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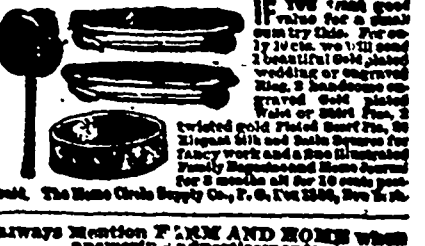
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SUGGESTIONS.

A saying worthy of a place on the wall, as a motto, is coined by one of our Councilors in this issue of Farm and Home. El Rustico says: "In teaching, as in everything, it is the overcoming of difficulties, not their absence, in which we find pleasure." A schoolmaster who goes about his work in the spirit indicated by El Rustico in his letter is as certain of success as anybody can be. And he is having his fun as he goes along. He has solved one of life's great problems. His principle is a winner in any occupation he may choose to take up.

Our friends in Ohio need not be disturbed if they see quotations from a Boston magazine poking fun at their state and the inhabitants thereof. A very smart young man, by name Hartt, "wrote up" the little town in Massachusetts where he used to be the village pastor, for the magazine referred to, holding up his old parishioners as awful examples of degeneracy. What manner of man he is may be judged from this fact. After a run through Ohio he has described the Ohioans, though much more good-naturedly than he did his old flock. He once paid his respects to Montana in his brilliant vein. The people of Michigan, Texas and other states are to be served up later on, so they tell us. But don't be put out, friends. The young man, when he is older, will, speaking after the manner of men, "hire somebody to kick him" for his youthful blunders.

Who is trying for our Famous People prizes? As announced in Farm and Home of Nov 15, at least 10 prizes will be awarded, five of \$2 each and five of \$1 each, and perhaps more. Many of you have known famous people of today or of a generation gone and can tell us very interesting anecdotes about them from your own experience. A parent or grandparent's story will do, written out by a younger member of the family. Who among us knows President McKinley? Or Admiral Dewey? or any other living celebrity? Isn't there some elderly person who knew Abraham Lincoln, Gen Grant, Ralph Waldo Emerson or some other famous man or woman?

MY FIRST BUTTER-MAKING.

Being city bred and I suppose having neither pasture nor barn, nor any place to keep a cow, unless it was on the roof where we hung the weekly wash to dry, my people did not indulge in that luxury, else I might have been trained to this work. Well, to make a long story short, the cream was churned to butter, the butter taken out and washed. By the way, it never seemed to me that the girl had washed the butter. Now the chance was mine I intended to improve it, and such a washing as that butter got! It was done at last to my satisfaction.

But how queer it looked! There was a kind of settling down in the dish which I did not like. Finally I concluded it was the atmosphere. After it was salted I put it down into the cooler. The churn was one of those new-fangled ones which stood on a table and was turned with a crank. Somehow, as I took hold of it my splits began to droop.

First the bucket was put in place to receive the buttermilk as it came out. I pulled out the plug, but the milk did not flow so I took the bucket down while the passage was cleared. Just then it made a break, and out it came, a perfect deluge, over my hands and arms, ran down my apron and dress on to the floor until the churn was nearly emptied before I had presence of mind enough to put the bucket back to catch it. The butter was brought upstairs, the hot water turned into one dish and cold water drawn from the well into the other. With a very wry

face, the desperate plunge was made with both hands into the nearly boiling water—the tears almost start now as I recall it. I took them out quickly and plunged them into the cold water for a minute. How they smarted and throbbed and burned! Did you ever try it? Well, don't, not in that way.

After awhile I became calm enough to attempt the butter. A big handful was taken up, just as Mary did it, then came the clapping process. I clapped and clapped, the buttermilk flew, but the butter flew, too, in every direction. Well, after a while the soft, sticky mass which was not on the walls and floor was finally worked, if I may be allowed to call it that, when I proceeded to mold it into shape and stamp it. After several attempts and repeated failures, one ball was made. But it was more like a conglomeration of melted beeswax and tallow than butter. The rest of the stuff was consigned to the pigs.—[V. M. R.]

SHORT TALKS.

Old Maids and Bachelors—I often think how carelessly we speak of the old maids and bachelors. Now I for one do not think that it is



right. We know not what their past life has been. Perhaps that old man whom we call "old bachelor" even now has a mistiness come in his eye, and a pathetic tremor in his tongue, as he looks at a faded picture, to him too sacred for the curious gaze of others—a picture whose lining has faded as the real one faded long ago under the coffin lid. Then there are those men whom we call cold-hearted and selfish, who once poured out all the wealth of their affections on one unworthy of them. There are the women whom the world calls single, who are as truly wedded to a tear-stained package as if it were really the being it represents to them, who live in the old, sweet time those missives once belonged to, and who keep their hearts apart from the dull reality that makes up the present world. Years have passed, and nothing remains the same except the dear dream that never knew reality; yet, held in their love-life by their fragile paper bonds, they still dwell in that fair unsubstantial springtime, while winter, cold and dreary, reigns in all the outer world.—[A Young Maid.]

Stepmother's Trials—I read Stepmother's letter and I agree with her in regard to people marrying who have children, especially girls. I am a stepmother to girls, and I never knew before I assumed such a heavy responsibility that girls nearly grown needed a woman's care and control so much. I believe (and I've been a close observer since I have had charge of those girls) that they need attention more than small children, but why? I'd love so much to have some one, if they can, explain to me why stepchildren are so hard to manage; don't want to mind their stepmother, and if they are forced to mind her and do what she knows is for their welfare (what she would require of her own girls) are then ready to go off and say she didn't treat them right, wasn't good to them, etc. I know whereof I write. I try so hard to direct and instruct all I have charge of in the way I think best. I do not require of them so much as I would if they were my own girls. Sisters, give me some encouragement.—[A Reader.]

Counsels—Mark Austin, your verses do pretty well, but if they are an indication of your thoughts, you must be in the same predicament as he who wrote—

Love is sweet, but oh how bitter To love a girl and then not get her! But never mind, there will come a day of sunshine if you will look for it. Possibly you have met one of those "fast girls," who salted you on finding a better chance. Speaking of fast girls, we like them better just for a little while, but when we want one to share our joys and sorrows, we look for one of the quieter sort; don't we, boys?—[Peaky Ike.]

Love is the very essence of divine law, the source of inspiration, even the fountain of life itself, it is generous, infinite, endows humanity with count-

less virtues and throws a mystic veil over our many faults.—[M. Mangans.]

I love to read all the letters, but was mostly interested in the family pocket-book. It seems that some of the sisters have hard times obtaining money they worked for, but it's been my lot to get a generous husband, who is always willing to buy all and more than he is able to for me. We have five children, four girls and one boy. I can only praise my better half, and hope to raise my son to be as good a man as his papa.—[Mrs L. B.]

I was sorry to see the remarks made by J. J. Cassine against the Bible. He says in olden times men were burned at the stake because of the teachings of that book, but he neglected to say the burning was done by those who did not obey its teachings.—[L. D. Sterling.]

Roxane, let me whisper to you that you are not alone in your belief of enjoying this world as we go. Write again.—[Edwin.]

Attraction—It is impossible for women to cut themselves loose from men, as it is for steel dust to free itself from its attachment to a magnet.—[J. L. Hersey.]

Dick Wouldn't—If Kink is married, why doesn't she write and tell us what kind of a man she got? I hope he is not like a man I know who, while he never drinks, chews or smokes, treats his wife like a dog. He flirts with other girls and writes letters to them and then he will bring their pictures home to insult his poor wife's heart, who does everything she can for him and his children. She never gets a kind look or a kind word from the brute. Now I wonder if Kink or Stepmother had him what she would say? I am engaged to be married, but when I see such work I think I never could stand it, but I don't think Dick could use me like that.—[Dotty Dimple.]

Palmistry—Shiftless Simpson, what divine poetry! Tell me what letter circle you belong to, so if there is a vacancy, I can apply for it. I'm a prospective schoolma'am and want to join a circle to help while away some of the lonely hours I'm likely to have. Miss Pro Bono Publico, as one of the fraternity, I beg you to propose some great, soul-inspiring subject for us to discuss. Speaking of crayon portrait fakirs, have any of you had experience with news clipping companies, or are they all fakirs, too? Does I. B. sit at the Council? His talk on palmistry was delightful. I have made intermittent investigations into palmistry, phrenology and the like, and would very much desire to hear him say more.—[Rene Rustic.]

Sure to Repent—Mrs M. E. M. observes that "Judging from the letters of discontented disciples of Hymen, the real kagetic husband or wife has never been found. Can this condition be changed?" she asks. Make them angels? Oh, no, m'a'am,—that's murder in the first degree. More



contented? I guess so. How? By reminding them that the conjugal state isn't to blame for all their sorrows. Adam's the man. Why, you wouldn't hardly believe it, but even we blessed bachelors, wise as we are, have troubles of our own. Ah, do you think that we never get short of cash? Never get into desperate rows? Never brood in sickening and silent distress over the impish evolution of loved ones? Indeed, we do, often, very often, most damnably often. I swear to you, madam, that I would have to sell the farm to buy an overcoat. And yet I bear up bravely with the thought that folks do drop their pocketbooks—and I'm one of the eagle-eyed multitude. I won't tell you about the rest of my sorrows, but if you knew them you would never mention your own. If ever I meet with a young lady who is so marvelously charming that I would go to the bother of getting married to get a "corner" on her society, I shall calmly deduct my bachelor troubles—the inevitable—from my matrimonial ones, which shall leave a very small margin to philosophise over and effect a happy compromise

with the frau. "As for marriage or celibacy, let man choose whichever course he will, he will be sure to repent."—[Niskayuna.]

Great Treat—As I live in this northern country, I often get lonely and I often think if some of the nice jolly boys and girls of the distant states would write me some good, interesting full-of-fun letters, they would be a great treat.—[A. C. Lang, New Hampshire.]

Why do you not join a letter circle, as we no longer give addresses for general correspondence? The requirements are 10 cents, age and address. Several young folks' circles have just been formed.

Inquiring Friends—N. D. F., on general principles, such concerns as you mention are good places to let alone.

How to dye white straw hats black is asked.—E. A. C., see the Council co' of Oct 15 for crayon work expa ce, which includes the firm you mention.—L. L., your request is an advertisement which cannot not be inserted free.—H. I. Sensabaugh, see Inquiring Friends for Sept 15.

THE MAPLE TREES.

The maple trees are lonesome, The leaves have blown away, Some have grown brown and rusty, Some are bright and gay. Some are by the wayside, Some on the housetops high, And some are in the children's books, All pressed and dry.

LIZZIE SNOW.

Untamed Human Nature—I think it was Miss Publico that expressed a wish for something besides love and domestic troubles in the Council. Amen, say I! How many of you, friends, speak Spanish, Portuguese or French? How many read Mark Twain or Henry George? How many belong to brass bands or

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other musical clubs? How many are teaching country schools or enjoying similar good things of this life? I am now teaching the most uncivilized school in the county, a school made up of untamed human nature with both its good and its bad sides. I like the business immensely and am always to esome when the bad scholars stay home. In teaching, as in everything, is the overcoming of difficulties, not their absence, in which we find pleasure.—[El Rustico.

Not a Flirt—I cannot judge others, I know but self. A flirt or a quiet girl—I am cautious on this deep subject. Several years ago we bought a fine young horse, not a "flirt," but one of those quiet, intelligent kind. After putting his intelligence to the test, we found he had but one fault, the liberality with which he used his hind feet. The skill with which he did it demonstrated his ability and showed long practice. Had we bought a kicker, "one of the fast, flirty kind," we would have been prepared for his pranks. My conclusion: I no longer trust in imperfection, and upon this earth no other exists, unless in thought.—[Senis.

More Babies' Names—I enjoy reading the kitchen recipes, as I have found quite a number of good ones among them. I was interested in the list of babies' names in a recent issue, and ask you to favor me by publishing my choice of names. The following are girls' names: Sena, Anna, Lena, Katie, Irene, Garnet, Pearl, Opal, Iola, Iona, Doris, Elva, Eva, Inez, Lillian, Laura, Roxa, Belle, Elma, Feronia, Willetta, Maybelle, Mae, Bertha, Merle, Clara, Evalyne, Helen, Lulu, Dell, Ella, Valentine, Dot, Phyllis, Ina, Maude, Lottie. The following are boys' names: Fred, Willie, Ivo, Pierce, Derle, Andy, Morac, Oswald, Victor, Roy, Charles, Paul, Percy, Earl, Elmer, Lyle, Stephen, Irving, Harry, Clarence, Pryor, Nelson, Lloyd, Egbert, Russell, Eurt, Alvin, Kimpel, Wolten, Jay, Thomas, Norman.—[S. T. L.

In Merrie England—How many of the readers of F & H have heard of Col North, the "nitrite king," as he was commonly called, and it may be of interest to know a little of him as he was in the Kentish village near which he built his beautiful home. When it was rumored in quiet little Eltham that Col North had taken "Avery Hill," we little thought that it would make any difference to us, but so it proved. Before long the old mud-deep roads disappeared and new ones were made, making it quite a frequented walk instead of a place to be shunned as in the old days. Then the old fences were replaced by pretty walls enabling us to see the palatial residence and beautiful grounds. When Christmas came round, the villagers were invited to the grounds and each family received a joint of beef for their Christmas dinner. Even the old and infirm inmates of the almshouses were not forgotten. On one occasion, when the colonel had been abroad visiting his mines, the tradesmen and villagers met him at the station, taking the horses out of the carriage and drawing it themselves, which so tickled the colonel that he gave them another gala day, providing a steam merry-go-round and swingboats, together with several other amusements. A brewers' van was also a prominent feature, and very few refused to drink the health of the colonel, who, much to the horror of the temperance folks, got quite exhilarated himself and joined in all the fun and games going on. Miss North's wedding (a love match) was quite an event in the history of the village. After it was over the house was again thrown open and all were allowed to view the wedding presents, which were very numerous and costly. Col North's sudden death cast quite a gloom over Eltham, where he was so well known and respected. The crowd at his fun-

eral was immense, and the carriages following the corpse were more than a mile long. Eltham itself has quite a few places of interest. The ruins of King John's palace still stand, although fast going to decay. The property belongs to the crown and is rented by a very old family who keep the grounds in splendid order. The entrance to the palace is across the moat over an old ivy-covered bridge, and last but not least, there are the dungeons. We children had great fun when at the annual flower show we were allowed to go through the dark winding passages. A subterranean passage runs from this place to Blackheath, a distance of several miles. "Well Hall," Sir Thomas Moore's old house, where he lived up till the time he was beheaded, is still standing and is the residence of a country gentleman who owns many farms and supplies the London markets with vegetables, etc. Eltham was also the residence of Parnell, the Irish leader, during the last few years of his life.—[Phoebe Miskin.

WINTER'S NICH.
The apples, ripened one by one.
Colors received from Father Sun.
Are stored away, for winter's nigh,
Away in cellar cool and dry,
For toothsome sauce and tempting pie.

And every other thing that grows
Is stored away; the farm boy knows
Where lie the fodder, millet, hay,
Piled high in mow and widening bay,
Where lived last summer's swallows
gay.

Now off to school go boys and girls,
As here and there the wild wind whirrs
Some flakes of snow, that come too soon,
Seeming like stars spaced round the moon.
To disappear long ere comes noon.

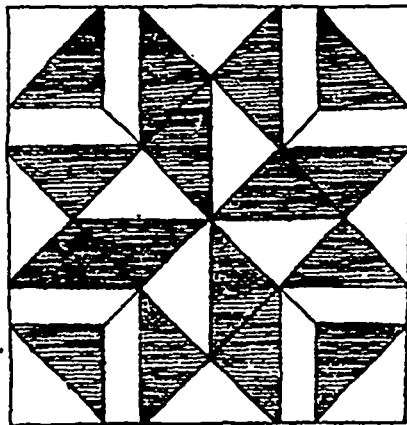
LEWIS B. FLOUN.

A QUILT CORNER.



"MEMORY" OR T QUILT.

Memory Quilt: This was made for a church fair. On each of the dark stripes a name was embroidered, the one thus immortalized paying ten cents for the honor. The quilt was of solid squares and as each represented 40 cents, a nice sum was realized aside from the sale of the finished work. [L. M. A.



THE "BROSIOUS."

Brosious Quilt: I was much pleased with the way my quilt pattern came out in Aug 1 issue. I inclose another design which so far as I am aware is original with myself.—[Agnes E. Brosius.

Ball for Baby—Take a cork and twist around it coarse wool until the size desired. Then knit of bright worsted yarn the cover. Choose two contrasting colors—blue and yellow, pink and green, or purple and white may be used. Cast twenty-four meshes, knit a deck then six light rows backward and forward. An ordinary-sized ball will require 14 such stripes. Join together, and draw one end in tight and firm, which will make the stripes run to a point. Inclose the ball and draw the other end tight in the same manner. This will make a pretty Christmas present for baby from aunty.—[A. R. A.

Infant's Wrap—Purchase two yards of white serge 54 inches wide. Double the cloth crosswise, allowing four feet for the lower cape and two for the upper one. Do not cut the cloth but gather at the neck with the doubled edge to form a ruff for the neck, and finish with a bow of white ribbon at the throat. For summer this wrap will not require lining and may be finished around the bottom of each cape with a two-inch hem feather-stitched. For winter it may be lined with outing flannel. The cost will not be over \$2.—[A. R. A.

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Drapery, 22, 24, 26, 28, 30 inch waist.
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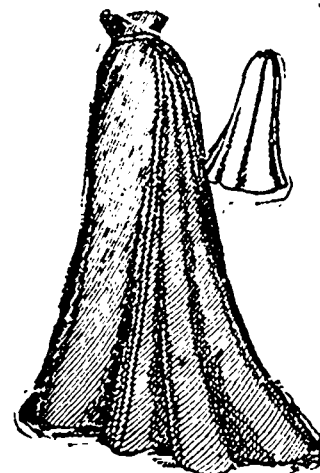
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4, 6, 8, 10 and 12 years.



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Jacket, 12, 14 and 16 years.
Skirt, 12, 14 and 16 years.)



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12, 14 and 16 years.



7710—Ladies' Model Basque.
32, 34, 36, 38, 40, 42 and 44
inch bust.



7771—Girls' Dress.
4, 6, 8, 10 and 12 years.

Around the Globe.

Suffering Cuba and Porto Rico—Havana is now cleaner than any city with which I am acquainted," says Gen Ludlow, military governor of the city.

The Boers surprised the world by their success in penning up the British at Ladysmith, Natal and Kimberley, Cape Colony.

Rural Free Delivery of mail has been greatly extended during the current year with results most encouraging.

Our New Possessions among the Samoan Islands are Tutuila and some many isles adjacent.

Business—Deposits and depositors have increased more rapidly than borrowers in the history of the banks of the United States for the past 10 years.

It is asserted by men who have studied the problem that the pine forests of Michigan, Wisconsin and Minnesota are almost exhausted.

The foreign commerce of the United States breaks the record this year. The exports for the first time in the history of the country will exceed \$2,000,000,000.

ling the past nine months was in round terms \$38,000,000, of which nearly \$30,000,000 was in sugar.

Federal Aid to Shipping—The proposed subsidies to American ship owners, urged by Senator Hanna, the Cramps (Philadelphia ship builders) and others would call for \$165,000,000 of federal money within a few years, it is estimated.

Country Boys—Two young men who have recently acquired large prominence in the United States and were country boys are Perry S. Heath, first assistant postmaster-general, and Col George B. M. Harvey, the new head of the old Harper & Brothers' publishing house in New York.

Montana's new member of the United States senate, William A. Clark, the richest man in that body, was brought up on an Iowa farm and was a schoolmaster until he caught the gold fever and went to Montana.

Down with Monopoly!—There is no branch of the public service now undergoing a greater agitation than the telephone. The effort to compel the Bell telephone company to reduce its rates extends from Boston to Denver.

One of the knotty problems to be taken up by congress is the question of excluding the Chinese from the Philippines. They are now excluded by treaties.

The work of Americanizing and garri-sonizing the Philippines. In the opinion of Gen John M. Schofield, will call for a permanent force of 30,000 men in the islands necessitating a standing army of 100,000.

A Christmas Present WORTH HAVING. Where can you find a nicer CHRISTMAS PRESENT for your FAMILY DOCTOR or the MINISTER than a handsome DIETZ DRIVING LAMP?

A 200 BU. A DAY with the OTIS HILL GRINDING NO. 2 MILL. Grind your corn and all other grain, save space, Grind faster than any other.

SEEI SAW APPLETON Steel Frame Wood Saw. Heavy, durable, safe, reliable and fast. Has the advantage of both sliding and pivoting saws.

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THE ANCHOR ELECTRIC BELT. AGENTS WANTED. Goods sent to reliable persons to be sold for their selling. W. H. Felt, New Glasgow, Ct. has sold 1000 belts, and so has 70 in one day.

POTASH gives color, flavor and firmness to all fruits. No good fruit can be raised without Potash. Fertilizers containing at least 8 to 10% of Potash will give best results on all fruits.

STEEL ROOFING BRAND NEW. We have on hand 25,000 square Brand New Steel Roofing. Sheets either flat, corrugated or "W" crimped.

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