

Vol XXI No 400

MONTREAL, CHICAGO and SPRINGFIELD MASS FEB 1 1900

50 Cents a Year

## Dominion and Provincial Affairs.

### The Meeting of Parliament.

By the time that this number of Farm and Home appears, the Dominion parliament will have assembled at Ottawa. The government's policy in regard to the South African war will be debated at the approaching session of parliament and will no doubt give rise to a most interesting discussion. Canada, by sending forward soldiers to help in fighting the empire's battles, has taken a most important step which may have vital consequences. Suppose that at any time war was to break out between Great Britain and France, an event which in the present position of European politics is by no means improbable, what would be the attitude of the French Canadians, who number over 2,000,000 of Canada's population? Certainly they would not fight against France, which they still fondly regard as their mere patrie. The French Canadians are loyal to England, mainly because for over a century the English flag has protected them in their peculiar privileges and under it they have enjoyed more liberty than they would have had under the tricolor. But blood is thicker than water and the French Canadians would never consent to fight against France. It is this fear that is at the bottom of the opposition to the sending of the Canadian troops to South Africa.

### Ten Thousand Dollars in Prizes

to the boys and girls of the Dominion under 18 yrs of age is what is going to be distributed by Commissioner J. W. Robertson. The plan is to improve the grain crops of the country by the selection of the very best seed grain. Ten prizes of an aggregate cash value of \$295 each will be distributed among the boys and girls of each province, the northwest territories and British Columbia, and prizes of \$110 on oats and wheat for each province will be awarded after a three seasons' or years' selection of seed. Write to Prof Robertson of Ottawa on a postal "Entry for seed grain competition," and sign your name. He will send you full particulars. This is intended as a grand educational scheme for our young folks. I hope you will all enter the competition.

### Off for the War.

The first detachment of Canada's second contingent for South Africa sailed from Halifax on board the Laurentian on Jan 21. The detachment consists of 300 picked artillery men from all parts of the Dominion and they bring with them their own horses and guns. The men were given a most enthusiastic send-off, thousands of people turning out to witness their departure. Another artillery battery and the mounted men from western Ontario and Manitoba leave at the end of the month. The mounted police from

western Canada arrived at Ottawa the other day on their way to Halifax and were reviewed by the governor-general, Lord Minto, who saw service with them during the northwest rebellion in 1855-56. The mounted police are a magnificent body of men and will be of invaluable service at the seat of war. Canada will soon have nearly 3000 men in South Africa, and it cannot be said that the Dominion has not nobly done its duty toward the empire. Lord Strathcona, who is better known to fame as Sir Donald Smith, Canada's millionaire high commissioner at London, has personally undertaken to equip and send out 400 mounted men and the arrangements are now under way. Advice received from the seat of war show that the Canadians are doing splendid service and are making a name for themselves among the tried soldiers of the empire.

### Business and Politics.

Canada's trade is growing with rapid strides and the expansion during the past year has been marvelous. Total receipts for the six months ending Dec 31 amounted to \$93,697,860 as compared with \$78,961,335 for the corresponding period of the previous year, which was regarded as the banner year of Canadian trade. The exports for the six months increased from \$98,902,983 in 1897-'98 to \$109,793,755, an increase of \$10,890,772. The aggregate trade of the Dominion increased from \$177,864,318 to \$203,491,615, an increase of \$25,627,297. Canadian produce exported during the six months amounted to the grand total of \$98,061,578, as compared with \$83,113,266 during the same period last year. This is a most gratifying showing and proves that the Canadian people are having their full share of the prevailing good times.

The legislature of the province of Quebec is now in session. The most important item of legislation to be brought before it is a proposal to place a prohibitory duty on the export of pulp wood. The duty at present is 40c per cord and it is proposed to increase this to \$1.90 a cord, allowing a rebate of \$1.50 a cord on all pulp wood which may be manufactured into paper in the province. The object is to stop the export of pulp wood to the states and to prevent the depletion of the Quebec forests. It is likely that the proposal will become law.

The latest to be gathered to the great majority is William Watson Ogilvie, who was known to the farmers all over the country as the largest individual miller in the world. Mr Ogilvie's death is a national loss. No one man has done so much for the development of the great northwest. He was among the very first to foresee the magnificent possibilities of Manitoba and the northwest as a great grain producing country, and by untiring energy he built up an immense business.

Begin a bank account. It will encourage you as a nest egg does the hen.

## Faith in Fellow Man.

### Co-operation Among Farmers.

Co-operation among Canadian farmers has had a varied history. When the grange was a powerful organization, co-operation was adopted as one of the great principles of the order. Most of the supplies were purchased on the co-operative plan, and farmers even extended it to the establishment of manufactories. It may be safely stated as a fact that stores, established by farmers, were failures, and from various causes. Among these causes were ignorance of the business, dishonesty of the managers, and a failure of patronage from the farmers themselves. The Patrons of Industry, which spread over the land with the velocity of a whirlwind, had about the same experience as the grange in the mercantile business. The great lesson taught and which has been taught from time immemorial is, no man or aggregation of men are likely to be successful in a business they do not understand.

### Where Co-operation Has Paid.

Co-operation among farmers in the manufacture of butter and cheese has been highly successful and has brought comfort and wealth to many a Canadian home. It was a business that most farmers understood. They had manufactured butter and cheese in their homes and therefore were in a position to keep tab on the men employed in the factory. At the yearly meeting of the shareholders, every account was scrutinized keenly, and was not allowed to pass until given the fullest explanation. The thousands of cheese factories established in Canada would never have existed but for the co-operation of farmers.

### The Bull Ring.

Another success has been scored in many localities by farmers co-operating in the purchase of thoroughbred sires. The superior character of cattle, particularly of the Shorthorn breed, is due to the "bull syndicates" which were formed for the purchase of superior thoroughbred sires. The same may be said of the "horse syndicates," which practically drove the mongrel, scrub stallions off the road.

### Mutual Fire Insurance.

Thousands of dollars have been saved to the farmers of Ontario through co-operation in fire insurance. Each township, in some sections, has its company and it is conducted on the mutual principle. The farmers of the township become members because they have learned from experience that the cost is far less for insurance than in stock companies that claim to do business on the mutual plan.

Another thing the farmers have

learned is that these farmers' companies are the safest in which to insure. The running expenses are mere nothing. An educated farmer, noted for his business ability and integrity, is chosen secretary-treasurer, at a salary ranging from \$100 to \$300 a year. Auditing, inspecting, postage, stationery, etc. cost about as much as the secretary's salary. A government inspector examines the books at regular periods and if he finds anything wrong in connection with the business it has to be put right or the company must shut up shop.

Farmers' co-operative insurance has been a financial success. In some isolated cases, where dishonest men burned down their buildings for the insurance, and where this became epidemic in a township, the farmers in the companies had to make large payments, larger than the rates demanded by stock companies. But these cases are exceptional and do not alter the general statement that these co-operative companies have been successful and saved farmers thousands of dollars. A feature which is made more prominent than formerly by these companies when considering an application for insurance is the character of the applicant and of his family. In fact, it is being made as prominent as any other question or condition in connection with the business.

### A Real Dialogue.

SCENE, OFFICE OF FARM AND HOME, TIME, LATE JANUARY, 1900.

Editor: Any news from your department to tell our readers in the Feb 1 number. Mr Business Manager?

Business Manager: Yes, you might tell 'em about the dictionary we're giving each subscriber: a pocket dictionary containing 50,000 words.

Editor: Each new subscriber, you mean?

B M: No; each subscriber who renews, as well as each new subscriber.

Editor: That's liberal. Fifty-thousand words are as many as anybody can use for the ordinary purposes of life with safety to his friends. Anything else?

B M: The premium lists aren't all gone yet. Anybody can have the big premium list number by asking for it with a postal. Lots of new readers will want it.

Editor: Surely! How about our advertisers? Or is that announcement getting stale?

B M: I should say not! Readers will be glad to know that we don't advertise "any old thing," our advertisers are all reliable people with whom they can feel free to deal. Our subscription price is low but we offer you the best, in any part of the paper.

Editor: The right policy. Go on.

B M: We take space on an inside page to tell about the 10 superb presentation books. It's a very unusual offer. They'll read the announcement quickly enough, and act upon it, when their attention is called.

# Farm and Home.

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RENEWALS.—The date opposite your name on your paper or wrapper shows to what time your subscription is paid. Thus, Jan 10, shows that payment has been received up to January 1, 1900, to February 1, 1901, and so on. Some time is required after money is received before the date, which answers for a receipt, can be changed.

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### 350,300 Copies.

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.

#### GRINDING AND SOAKING GRAIN.

A most important experiment was conducted last year at the central exper farm, Ottawa, Ont., by Dr Saunders, in the feeding of swine. The experiment began with 24 swine of an average weight of 67 lbs each, divided into four pens in duplicate, making eight pens of three pigs each. The experiment lasted 17 weeks. The pigs of each of the four lots were very even in breeding, age and character, so that the outcome is of much interest to all feeders. All lots were fed on a mixture of peas, oats and barley equal parts with one-half part wheat bran.

Lot 1 was fed on this mixture unground and dry, with cold water in a separate trough, so they could drink at will. At the completion of the experiment it was found that it took 4.08 lbs feed to each pound of gain in live weight. Lot 2 was fed the above mixture unground, but soaked for a period of 20 hours before feeding. For this lot, 3.88 lbs feed was required for each pound of gain in live weight. Lot 3 was fed the same mixture ground and dry and 3.76 lbs feed was required for each pound of gain in live weight. Lot 4 was fed this mixture ground and soaked for a period of 20 hours. This lot required 3.56 lbs of feed for each pound of gain in live weight.

It will thus be seen that soaking the unground feed saved in the 14 weeks of the fattening period 1960 pounds feed, worth about 15c, which amount was all that went to pay for the trouble of soaking. Grinding the feed over feeding whole saved 71% lbs feed worth about 25c, which amount was all that went to pay for grinding. As the pigs fed during the period on whole grain ate 500 lbs, the grinding of that amount of grain would cost ordinarily 60c, to say nothing of the cost of drawing to and from the mill, if no mill for grinding was on the farm.

My own plan of feeding is quite different to the plan followed at the experimental farm. I feed largely of roots, turnips and potatoes, in the proportion of 25 a general rule 40 per cent of the dry matter in roots and the remaining 60 per cent of the dry matter in grain or mill feed. And this is in unison with the Danish rule in feeding thin, choice, bacon hogs. The Danes have found by repeated experiment, not only in practice among

the farmers, but in a repeated series of experiments at the Copenhagen exper sta that bacon hogs of first quality may be fed successfully on a ration in which 40 per cent of its dry matter is roots. By various experiments at Copenhagen and corroborated in this country, it was found that 4 1/2 lbs potatoes (boiled) equaled 1 lb grain and 8 lbs of roots, mangel and turnips (raw) equaled 1 lb grain and meal. My favorite ration for feeding animals and shotes is: 300 lbs turnips, 25 lbs whole barley and 12 1/2 lbs wheat bran. This ration contains 68 lbs dry matter, 6 1/2 lbs protein, 46 lbs sugar and starchy matter, and 14 lbs fats. The above is enough for 25 pigs of an average weight of 125 lbs each, two feeds, or one day's ration for 25 hogs. The third feed which the hogs receive either at noon or at night is whole oats (dry), about 1 lb to each individual hog. This ration is steamed and fed warm.

I have abandoned boiling feed and have substituted steaming. The burning of the feed, which often takes place when boiling, is not felt when steaming, neither is the loss by distillation which always occurs during the boiling process felt when steaming. I have a new and improved steam boiler. I first divide the 25 lbs barley between two barrels, then put in the nozzles of the hose, then fill barrels with turnips, only the large ones split or quartered. Attach a hose from engine to each nozzle in barrels, and allow to steam until done—about 50 to 70 minutes. When done, dump contents of barrels into a large tank, the bran (12 1/2 lbs) is then added and all is intimately mixed with an iron shovel. This mixture will keep warm for 48 hours if well covered.—[J. A. MacDonald, P. E. I.]

#### PLANT ONLY PLUMP SEEDS.

A seed selecting table is a great convenience for those who desire to look their seed over during winter and select only the plumpest and best for planting. The Ont exper farm at

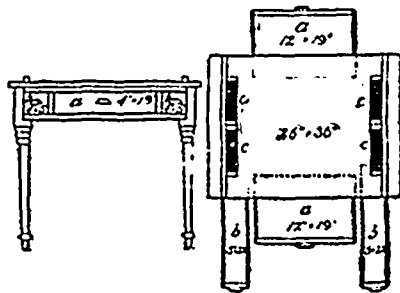


TABLE FOR SELECTING PLUMP SEEDS

Guelph uses such a table, a sketch of it is shown herewith. It is 26 by 36 in and is fitted with four drawers, as shown in the right-hand figure. A quantity of seed is placed upon the table, and the drawers, a, a, are drawn out 1 or 2 in so that the operators seated on either side of the table can draw the good seed into them while the inferior seed is shoved into the drawers, b, b, through the openings at c. The drawers, b, b, remain closed excepting when taken out to be emptied. The top of the table should be of polished hard wood so that the fingers can slide the seed over its surface rapidly. The table is 36 in high, drawer a being 12 by 19 by 4 in and b a by 22 by 4 in. The surface of the table is 26 by 36 in.—[Prof C. A. Zavitz.]

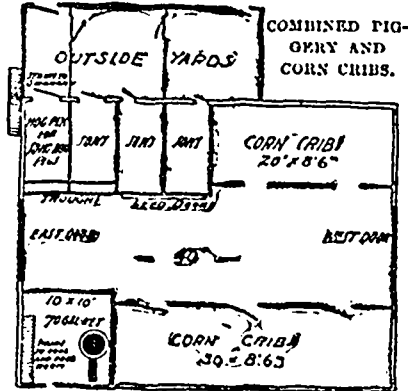
#### KNOW WHAT YOU WANT.

Salmon said, "of making many books there is no end" and if he had lived in this latter end of the 19th century he could have added with equal truth, "of making farming tools, there is no end." If a farmer thinks of purchasing a new machine, he of course visits the implement stores, and here a new dilemma stares him in the face. Among many different kinds it is hard to decide what one does want. The best rule, perhaps, would be to buy only what is needed, really needed. For instance, an implement dealer wished to sell me a stalk cutter. Now I could use one this year, but perhaps it would be several years before I would have use for it again. If I ever did, it is not the best method to have stalks cut. One of the indispensable implements is a breaking plow. I use a walking plow of a well known pattern

and it is all right, but there are plenty of others. An iron beam plow will give the best satisfaction, because it has greater throat capacity. The points to be considered in buying a plow, either riding or walking, are, first of all, adaptation to soil, an all-st plow comes the nearest filling the bill in this particular; second, ease of draft; third, ease of management. The simpler of construction they are, the nearer will they come to my ideal.—[A. N. Springer, Dighton Co, Ind.]

#### A HANDY FARM BUILDING.

My combined corn cribs and piggery is a very convenient arrangement. This cold winter weather my 70 gal feed cooker comes in right handy. We warm



or boil all our small potatoes and other vegetables, milk, etc, in it. The kettle is filled at night, a couple of chunks of wood thrown in, the fireplace closed tight and in the morning the feed is nice and warm. Also use the Kettle to try lard, heat water to wash harness, etc. The slop barrel is in the recess back from the hogpens, out of the way in driving through the building. The building has 14 ft posts, so there is a room over the cooking quarters as well as over the hogpens. For ground feed, I use oats and corn. There is a yard for fattening hogs at the west door and in it a platform for feeding corn. The building is 20x40 ft and has roller doors. The room over the cooking quarters, besides being used for tools and preparing feed, is also used for butchering. Hooks for harness cleaning are between the chimney place and stairway in the cooking room. The outside stairs, shown in the upper left-hand corner go to the granary over the hogpens, where ground feed is kept.—[R. L. Holman, Clark Co, O.]

In Treating Wheat for Loose Smut, soak the grain in cold water four hours, then set away about four hours more in wet sacks and then soak for five minutes in water at 132 degrees. To prevent both the smuts affecting barley, the grain should be soaked the same as for wheat smut described above and then treated five minutes with water at 130 degrees. Just how to immerse the seed in hot water was illustrated in our last issue.

To Make a Plank Drag, spike 3 or 4 planks together. Lay the first plank on the ground, raising one edge about 3 in. Lap another plank onto the lower edge of it about 1 in and the third onto the 1 and the same way. Cut some pieces of 2 by 6 to hold them in that position and hitch to it by chain and clevis. It may be weighted down to suit the work to be done. As a clod crusher and leveler it is better than any other tool.—[C. E. Kittenger, Edmunds Co, So Dak.]

To Make Pure Ice, have a number of tin boxes made 1 ft deep, 12 by 15 in square and 1/2 in larger at the top than bottom. These boxes may be bought as cheap as sap pails and will last many years if taken care of. Make a frame by sawing boards 8 in wide and 2 ft long, nail strips of board on the upper end, set it level so it will not tip over, or boards laid level will answer every purpose, only it will not freeze as fast. Fill the boxes within 1/2 in of the top, to give room for the ice to drop out. When sufficiently frozen, tip over the

boxes, pour a little hot water on the outside, and the ice will immediately drop out. Fill the boxes again and so continue until you have ice enough. You need not wait until the water is all frozen, as being frozen on all sides alike it will finish just as well standing on the frames. Anyone having a good well, spring or clean brook can get pure ice fit for any purpose cheaper than drawing dirty ice from any distant creek, pond or river, and as it freezes on all sides alike there will be enough cold weather any winter to freeze it.—[S. M. Stollenbur, Bradford Co, Pa.]

Fertilizing Pays—I have a 108 a farm, 100 a under cultivation. Since using fertilizers have increased my hay crop from 5 to 50 tons, wheat from 15c to 650 bu, oats from 500 to 800 bu, corn from 900 to 2300 bu. I keep three times as much stock as I did the first 3 yrs on farm, and haul out over 100 tons of manure each year, where I used to have not more than 30 tons in a year. I am satisfied that the use of fertilizers not only increases yield of grain and straw, but grain is plumper and matures from 10 to 20 days sooner. The grass seed makes a better catch since using fertilizer than it did before. I also can show fields that were manured and fertilized with striking results. I have used 24,300 lbs fertilizer and it has paid well on every crop used.—[Philo C. Smith, Stark Co, O.]

Broom Corn is so high in price many will doubtless plant a large acreage this year. The '99 crop is practically all in the hands of a trust. If I lived on a farm in Tex or La, I would plant broom corn early so as to get it on the market at the earliest day possible, fully six weeks before it would come in competition with that from the middle states, but as I live in Mo, I will not plant any. I predict a large acreage of broom corn will be planted and sold this year at \$50 p ton.—[Jacob Faith, Mo.]

The Soil Requires light, heat and moisture for the best development of plant growth. Physical conditions therefore have much to do with the rapid growth and perfect maturing of field crops. A hard, compact soil will be the cause of plants dying outright, or the stealing of light and moisture by foul weeds may reduce the crop below the point of yielding a profit. If the soil is not made mellow and friable there cannot be a perfect mixture of light, air and warmth, which are essential to perfect germination of seed and development of the plant. Light soils not kept covered or mulched with fine earth afford too rapid evaporation, causing plants to suffer. It is a matter of greatest necessity to have the soil prepared in the best possible manner before planting or sowing seed. Our readers look out for their interests best who employ the best means of bringing about these desirable conditions. There is a well known tool which has long been upon the market and which has been thoroughly tested with satisfactory results under practically all conditions, in all varieties of soil, which will produce the desired condition of soil. We refer to the well known Acme pulverizing harrow, clod crusher and leveler, manufactured by Deane H. Nash of Millington, N J, an Chicago, Ill.

In making presents, too much is put into and on our bodies, while too little is expended for that which cultivates, stimulates and enriches our mental and spiritual life. My notion is that F & H at 50c for 24 numbers makes the biggest number of presents for the least cost of anything that can be bought.—[Jacob Faith, Vernon Co, Mo.]

**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 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.  
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Business Side of Farming.

MIDWINTER LIVE STOCK TRADE

Relatively more strength has been shown in the hog market than any other branch of the live stock trade. Receipts at such distributing and packing points as Chicago, Missouri river centers, Buffalo, Pittsburg and Cincinnati are about as usual for mid-winter, but the demand is excellent. We are enjoying a splendid home market for all classes of hog product and our exports continue at a rapid pace. Recent prices have averaged 75c@81 higher than a year ago and the undertone is one of continued confidence.

A good many farmers are marketing beef cattle which they presume are first-class in every particular. So they are from the standpoint of the neighborhood feed lots. But when placed beside the best offerings at the various stockyards they often fall below the standard and sale returns are disappointing. Don't practice unwise economy and endeavor to save feed, but make your cattle strictly first-class if you expect top quotations. The sheep trade is without important feature, active and generally steady. A good many lambs and yearlings are offered. Large numbers of sheep are on feed in the west and these will come on the markets before long.

INERTIA IN WHEAT MARKET.

To every wheat grower in the country, whether in Pa, Okla or N D, the recent extreme weakness has brought great disappointment. The last half of Jan saw prices carried down several cents to the lowest level on the crop, with the contract grade at Chicago quoted around 61c p bu and May delivery a shade under 65c. From these low prices a small though gratifying recovery took place. No particularly new elements have been developed in the situation. It is the old question of inertia, lack of support, and general apathy on both sides the ocean. Considering the character of the demand it was a case of "too much wheat in sight." Public stocks in this country are large, but that is to be expected at this time of year. Europe has fair reserves and the buying countries are momentarily somewhat indifferent to offerings of wheat and flour from the U S. The excellent crop of Argentina, recently harvested, is now available for market and there was some pressure of this wheat in western European trade centers.

So far as crop conditions are concerned there is little to be said. It is the rest period in winter wheat throughout all the northern hemisphere, and conditions in Europe are devoid of significant feature. Here and there a tinge of anxiety over fear of frost damage. In our own winter wheat belt snow protection has been quite inadequate up to a recent date, and this leaves the fields sensitive to sharp frosts throughout all of the Ohio valley and all the way to Mo and Kan. Wheat prices have settled to so low a point that the markets should respond promptly to the development of any bullish influences.

Bureau of Animal Industry—The magnitude of the work of inspecting live animals and dressed meats for interstate and foreign trade is little appreciated. The past year this bureau made ante-mortem inspections of animals to the number of 53,223,000; the rejections were 156,539. The total number of post-mortem inspections was 43,163,000. In '92 when the work was begun it cost 43c per head to make the ante-mortem inspection, and this is now reduced to about 7c. The government inspection and the certificate of freedom from disease form a great aid in maintaining our export trade in foreign countries.

Paper from Peat—Several factories for making paper and cardboard from peat have been established and capitalists are exploiting the proposition in this country. The peat used is that filled with fibrous roots, and the most valuable peat beds are the raised bogs that have become piled up in mound form, also certain kinds of vegetation, such as reeds, moss, grass, etc. Large tracts of this peat bog are said to be

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 produce items (Wheat, Corn, Oats, etc.) and prices in different markets (Boston, New York, Chicago, etc.) for January 1900.

available in the northern and eastern states and it is possible a new industry of considerable magnitude may be formed. This is somewhat in line with the increasing use of slough grass in the northwest in the manufacture of binding twine, rugs, etc.

The Corn Pack of 1899, according to the American Grocer, was 5,402,000 cases against 4,448,500 cases in '98. Leading states in the production were N Y, Ill, Mo, Ia, the Del peninsula, O, in about the order named. The average annual corn pack, covering a period of 10 years, was 3,320,000 cases. It will thus be seen that an enormous quantity was put up last season, but fortunately it has been well distributed and the outlook is promising for the 1900 campaign. Farmers should be able to make reasonably profitable contracts with canners.

Fireworks in Butter—Following the long period of steady advance which carried the market to a 30c level, butter prices broke sharply the middle of Jan. The decline in the space of a week amounted to 465c p lb in N Y and Chicago, and half that much in Boston. Top figures seriously checked the consumption, and at the same time stimulated activity at the creameries; the resultant break was inevitable. At the decline more support was accorded the market, which is now in a fairly healthy position.

A Good Many Onions are still on hand in the truck sections of O, N Y, Ind, Wis and western N E. Prices continue rather low and much uncertainty prevails as to the future. If southern vegetables should be severely injured by cold weather, as was the case a year ago, the onion market may do very well during Feb and March. But if the season is favorable to southern truck, the opinion prevails that onions will be forced on the market in large quantities.

Corn at the Paris Exposition—The government is arranging as a special feature of the U S exhibit a practical demonstration of the food value of corn by means of cooking exhibits. This will be under the care of the U S dept of agri, and should prove of great educational value to the millions in

attendance at the big show. Our exports of corn to Europe are splendid but capable of further great expansion.

Fancy Prices for Flaxseed—Within the last few days considerable quantities of flaxseed have been sold at Chicago at \$1 50 p bu, the highest figure in many years. No doubt the acreage in the northwest for the crop of 1900 will be a large one, and farmers are liable to overdo the matter. It should not be forgotten that as recently as '96 flaxseed has sold as low as 65c per bu.

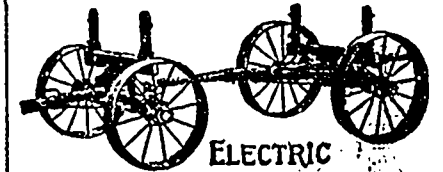
Wool Advance Checked—Following the sharp upturn of the past few months the market is more quiet, buyers conservative and paying top prices under protest. Yet the trade as a whole continues healthy, mills are well employed, the demand for finished fabrics is good and the situation as a whole is one of continued hopefulness.

The Earliest Peach, other things being equal, is the variety that will make the grower the most money. What is said to be one of the earliest sorts is the Victor. The tree is said, by the Harrison nurseries of Berlin, Md, to be a strong, hardy grower, resisting cold and drouth, and being a prolific bearer. The fruit is represented as large, highly colored and delicious in flavor. Being sold fresh, it is a long keeper and good shipper. The Harrison nurseries make a specialty of all kinds of fruits and will cheerfully send their illustrated catalog to those who write to them for it.

The Latest Discovery in the medical profession is the finding of remedies for the cure of cataracts and blindness by Dr W. O. Coffee, a noted oculist of Des Moines, Ia. He has cured over 5000 blind people in the last year with his remedies, and has now published a book of 80 pages explaining all about his new discoveries, which he sends free to anyone afflicted with eye or ear diseases. Dr Coffee's wonderful cures have created a sensation in Des Moines. He treats the poor free. These remedies can be used at home without seeing the doctor. See his announcement on another page of this paper.

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 Wheel, 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 catalog to Electric Wheel Co., Box 84, Quincy, Ill.

The Farmers HANDY WAGON Company, SAGINAW, Mich.

Advertisement for Farm Trucks and Metal Wheels, including an illustration of a truck and text describing their features and availability.

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Advertisement for Quaker City Grinding Mills, featuring an illustration of a mill and text describing its capabilities and contact information.

SENT ON TRIAL

Advertisement for Quaker City Grinding Mills, offering a trial of the product and providing contact details for the manufacturer.

SEE! SAW

Advertisement for Appleton Steel Frame Wood Saw, including an illustration of the saw and text describing its features and benefits.

Large advertisement for Hood's Sarsaparilla, featuring the headline 'For Blood, Stomach and Nerves, Take Hood's Sarsaparilla' and 'It Cures Scrofula, Dyspepsia, Nervousness.'



### The Poultry Yard.

#### FEEDING FOR EARLY DUCKS.

A liberal supply of good, strong fertile eggs early in the season, eggs that will produce healthy young birds and turn them out in a condition to live, is what the duck raiser needs. Too often



WINNER OF PRIZE FOR BEST PEKIN DUCK At the Boston Poultry Show.

the health of the young bird is injured by the improper feeding of the mother bird during the laying season. This food should consist of the proper ingredients and quantity, just what the bird will eat clean, and no more. Grit is absolutely necessary. We not only keep it, together with cracked oyster shells, in boxes constantly by them, but mix it in their food. They must have something during their confinement in bad weather to enable them to assimilate their food.

One ingredient which we consider of the greatest importance is green food, which should compose nearly one-fourth of the whole. We have 2 a of rye 18 in high. This is cut 3/4 in long and mixed with food. When there is prospect of snow we cut large quantities of this in a frozen state and pile it up on the north side of a building. It will not heat in this condition. Should this be used up and the ground be covered with snow, I have several tons of fine clover rowen stored for the purpose, which we consider next in value to the rye, so that we are never out of the material for feeding. I also raise about 1000 bu of turnips, which are steamed until soft and are mixed in the food. This the birds relish highly.

The first essential is to start with good breeding stock. Birds that have been inbred until their constitutions are completely debilitated are in no condition for reproduction. Strains that do not begin laying until March or April are more or less unprofitable, because when their young are ready for the knife the best of the spring market is gone, and the grower must take a reduced price for his product. To meet with the best success, this business should be conducted by artificial methods, as hens will not sit in time to command the high spring prices. When the natural grown product reaches the market, you will find that artificially grown birds have had control of that market for 2 mos or more and that 2 mos is worth more than all the rest of the season put together. For breeding birds, old or young, during the fall feed three parts wheat bran, one part Quaker oat feed, one part corn meal, 5 per cent beef scraps, 5 per cent grit and all the green food they will eat in the shape of corn fodder cut fine-clover or oat fodder. Feed this mixture twice a day, all they will eat. For laying birds equal parts of wheat bran and corn meal, 20 per cent Quaker oat feed, 10 per cent boiled potatoes and turnips, 15 per cent clover rowen green, rye or refuse cabbage chopped fine, 5 per cent grit. Feed twice a day all they will eat, with a lunch of corn and oats at noon. Keep grit and ground oyster shells constantly by them. I never cook food for ducks after they are a week old, but mix it with cold water. — James Rankin, Bristol Co, Mass.

#### LIGHT HEN HOUSE.

The building is 10x30 ft with cement floor covered with matched lumber, and the inside is lathed and plastered overhead and on the sides, beneath the lath is tarted paper. On the south side are plenty of windows, and when the sun is shining, as the building is practically airtight, the biddles think it the coldest day is a summer one. The roosts are of uniform height and are movable. The outside of the building is painted and has a ventilator on the roof, which makes it an ornament to the farm. Being somewhat of a carpenter, I did the work myself, which reduced the expense. — F. A. Smart, Oswego Co, N. Y.

#### SPRIGHTLY WHITE LEGHORNS.

The whites seem to have had less out-crossing with other breeds in order to secure desired points than is the case with any other variety of Leghorns. We have in this variety to perfection that sprightly grace which the very name Leghorn suggests, but which has come to be sadly wanting in some of the other varieties. With the exception of the buff variety there is perhaps no other Leghorn that lays so large an egg as does the white.

Leghorns are exceedingly hardy. The chicks feather rapidly, grow fast and are free from disease. They can readily be hatched out so as to come to laying age early in the fall, when eggs are beginning to advance rapidly in price, and my experience has been that Leghorns are exceedingly good winter layers, even in a cold climate. They must have warm houses and good



WHITE LEGHORNS.

care, but warm houses are not difficult of construction, and without good care no breed of fowls will pay.

With the large breeds it is difficult to hatch early enough so as to get the

**Come Quick to Spokane** big money to be made in grain, fruit, vegetables, stock and poultry. Fine land cheap. Write for literature and particulars. CHAMBER OF COMMERCE, Spokane, Wash.

**HATCH** with the perfect, self-regulating, 200 egg priced first class hatcher—the **EXCELSIOR Incubator**. Hatches the largest per cent. of fertile eggs at the lowest cost. Circulars free. Send for list. GEO. H. STAHL, Quincy, Ill.

**Great Hatches** MONITOR INCUBATORS are thoroughly scientific, self-regulating, easily operated by unskilled persons. Guaranteed reliable. Circulars free. Our big catalogue tells it all. Mailed for a stamp. The Reeler Co., Box 7, Woodstock, Conn.

The IMPROVED **VICTOR Incubator** hatches all the fertile eggs; is simple, durable and easily operated. Its page catalogue contains full information and testimonials. Heat free. GEO. EYSEL CO., QUINCY, ILL.

**SHOEMAKER'S POULTRY BOOK** on POULTRY and Almanac for 1900, two colors, 100 pages, 110 illustrations of Poultry, Incubators, Brooders, Poultry Houses, etc. How to raise Chickens successfully, their care, diseases and remedies. Diagrams with full descriptions of Poultry houses. All about incubators, brooders and thoroughbred fowls with lowest prices. Price only 12 cents. C. C. SHOEMAKER, Box 878, FREEPORT, ILL.

**M. A. S. POULTRY FENCE** 1 1/2 cent Netting requires few posts, no rails. Best Hog, Farm, Yard, Cemetery Fences. Freight paid. KANSAS STEEL & WIRE WORKS, KANSAS CITY, MO.

**\$5 Hand Bone, Shell, Corn Dally and Grit Mill** for Poultrymen. Dally Bone Cutter, Flower Mills, Flour and Feed Mills. WILSON BROS., Easton, Pa.

#### LOTS OF EGGS

—A sure result of feeding Green Cut Bone. You can cut it fast, fine and easier with the original **MANN'S NEW BONE CUTTER** than in any other way. Doubles the egg crop winter and summer. Next to this and ahead of all others is Mann's Clover Cutter, that does cut—not a plaining. Get and Feed Trays too. Catalogue Free. F. W. MANN CO., Box 24, Millford, Mass.

#### KILLING LICE

by old methods of dusting and dipping poultry and stock is expensive and too slow. With our process, the lice or the bug sleeps at night on boards, paper or cloth with

**LEE'S LICE KILLER.** This is all there is to it. No handling of fowls or animals, yet perfect freedom from vermin. 75 cents per gallon. Sample free from 10¢ bottle. G. J. O. KEEB, Co., Omaha, Neb., or 65 Murray St., N. Y.

**50 CHICKS FROM 50 EGGS** The **BANTAM** Hocks. Over 1500 in use. Thousands hatch 65 to 70 chicks from 50 eggs. **\$5 30 DAYS' Trial**. Before you pay a cent. Hot Water or Hot Air. Send 4 cents for No. 70 Catalogue of valuable information and testimonials. **MUCKERY INCUBATOR CO., Springfield, Ohio.**

**DON'T BUY AN INCUBATOR** and pay for it before giving it a trial. We will send the celebrated **NEW PREMIER INCUBATOR** on trial. This evidence our faith in it. So simple a child can run it. First prize World's Fair. Also sole manufacturers of Simplicity Incubator, Catalogue and Poultry House. Price for Poultry House etc., 25 cts. **COLUMBIA INCUBATOR CO., 40 Adams St., Delaware City, Del.**

**MILLHOOK POULTRY FARM.** What it is, what it has and what it has done. For the benefit of our customers old and new these things and many other valuable points on the poultry industry have been gathered together and published in **"POULTRY FOR PROFIT"**. It is an excellent guide for selections, a valuable assistant to the experienced breeder. Many valuable recipes; illustrations taken from life. Full downy chicks from 10¢ to 15¢. **THE J. W. MILLER CO., Box 161, Freeport, Ill.**

**RUNS ITSELF!** As simple in operation as a gentle summer shower. It is a light and the **PETALUMA INCUBATOR** does the rest. No more worry over lighting. No more loss of eggs. The Petaluma regulates perfectly and hatches every fertile egg. 2 sizes. Catalogue free. **Petaluma Incubator Co., Box 7, Petaluma, Cal.**

**THE ABC of BEE CULTURE.** The only cyclopedia on bees, 666 pages and 406 illustrations. Every part of the subject fully treated by reports of experts. Price \$1.00. Circulars and sample copy of our semi-monthly magazine, **Gleanings in Bee Culture**, free if you mention this paper. **THE A. I. ROOT COMPANY, Medina, O.**

**The Globe Incubator** will hatch all fertile eggs. It is easy to operate. Any ordinary intelligent boy or girl can handle it. Our large 66 page catalogue sent free to any address. It tells all about the improved globe incubators, Improved Globe Brooders, Triumph Hot Water Heaters for Poultry Houses, Wire Netting for Poultry Yards, best strains of pure bred fowls and poultry supplies. Write for it immediately, it only takes a postal card. Address **C. C. SHOEMAKER, Box 878, Freeport, Ill., U. S. A.**

**IT COST US \$4,000 Costs 15c** You. We have spent \$4,000 on our new book, **How to Make Money with Poultry and Incubators.** It is the best. Leading poultry men have written special articles for it. 128 pages, 411 illustrations. It is as good as **Oyphers Incubator** is to the book. Our **FREE** copy other machines, 18 page circular free. Send 15 cts. in stamp for \$1.00 book No. 64. Address contract office. **CYPHER INCUBATOR CO., Boston, Mass. Wayland, N. Y. Chicago, Ill.**

**FOWLS AND EGGS FOR SALE.** Bar and W. P. Rocks, H. Minorcas, H. and W. Leghorns, W. Wyandottes, H. Brahmas, B. Langshans, H. Cochins, Houdans, Polish, Pekin Ducks, EGGS, 1¢ per set. Send for new illustrated catalogue. **W. W. SHAMPOUR, Box K, Little Silver, N. J.**

**INCUBATOR FREE** on trial. Most perfect. Latest improvement. The **New C. Von Culin.** Catalog FREE. Poultryman's plans. Jc. Address: **AVE. OF THE W. T. FALCONER MFG. CO., J. WESTON, N. Y.**

**I HAVE** Some Nice, Sweet, **GROUND BEEF** **ANIMAL FOOD, OYSTER SHELLS, LIME MEAL, STEAMED MEAT, ETC.** Send for Catalogue. **O. A. BARTLETT, Worcester, Mass.**

#### HATCHING CHICKENS—EASY JOB

when you know just how to proceed. When the course, mapped out for you by others of experience. When you are told just what to do and how to do it and what not to do. All these things are completely covered by the master hand of experience in our **20th CENTURY POULTRY BOOK.** It leaves no poultry subject untouched. It is practical and of easy adoption. Among the most valuable books in the world famous **RELIABLE INCUBATORS AND BROODERS.** Used all over the U. S. and in 14 foreign countries. We mail the book to any inquirer on receipt of 10¢ to cover postage. **RELIABLE INCUBATOR & BROODER CO., Box 24, Quilboer, Ill.**

**A Hen Ration** should contain at least 20 per cent. of green cut bone—not dried—to insure the greatest egg production. The Webster & Hannum Bone Cutters are the best in every way and won the **only medal at World's Fair, Chicago.** Cut meat, gristle and vegetables without clogging. **Stearns Clover Cutters** and **Grit Crushers** are a necessity to all poultrymen. Booklet free. Send your address. **E. C. STEARNS & CO., Box 24, Syracuse, N. Y.**

#### THE HENS

**ACKNOWLEDGE IT** There is no time wasted in sitting when a **Successful INCUBATOR** AND A **Successful Brooder**

are in the poultry house. There is nothing to do but eat and lay eggs. This incubator is a hatched million of chicks. Its regulator insures uniformity of temperature. It has patent egg-tray adjuster has five-point lamp. Send 6 cents for new 150 page catalogue, printed in 6 languages. Fine 16 illustrated contains plans for poultry and brooder houses. **DEW MOINES INCUBATOR CO., Box 60 Des Moines, Ia.**

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**GREIDER'S FINE CATALOGUE** of prize winning poultry for 1900. The finest poultry book out. A perfect guide to poultry raisers. Gives price of eggs & stock from the very best strains. It shows the latest chicks and describes them all. 50 different varieties. Everybody wants this book. Send 6c in stamp to **H. GREIDER, Florida, Fla.**

**2000 PREMIUMS** were awarded my fowls at 12 State Shows in 1899 **FOWLS AND EGGS Largest Trade in the World** Send for illustrated catalogue **FOR SALE** **CHAS. GAMBERDINGER, Box 80, Columbus, O.**

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**DEATH TO LICE** on hens and chickens. 64-p. Book Free. **D. J. LAWBERT, Box 34, Apponaug, N. I.**

**DON'T SET HENS** THE SAME OLD WAY. THE **NAT'L HEN INCUBATOR** beats old plan. It is little in price but big money maker. Agents wanted. Send for catalogue, telling how to get one free. **Natural Hen Inc. Water Co., 225 Columbus, Neb. Mr. H. Houser made a 100 Egg Machine cost \$1.00**

**POULTRY FOR 1900** Now in market. It is the best. Tells a thousand things every hen owner should know. Treats the whole subject. 100 new and original illustrations, recipes, poultry houses, etc. Worth \$25, but sent for only 15 cents to pay postage. **JORN BAUSCHER, JR., BOX 20, FREEPORT, ILLINOIS**

**The Star Incubator** is best because simplest in construction and in operation. Hatches every hatchable egg. Positive directions and no moisture. Perfect hatcher 60-CGS size. \$6. Illustrated catalogue free. **STAR INCUBATOR CO., 34 Church Street, Bound Brook, N. J.**

pullets laying before cold weather. The result is that the months when eggs are highest pass, and the pullets begin laying only when the price is rapidly going down toward the lowest point. For this reason a quickly maturing breed like the Leghorn has a great advantage over the large breeds. I find also another advantage. Leghorns will produce a dozen eggs on not much more than half the food that the large breeds require for producing the same number. This idea I think will be corroborated by almost all who have kept Leghorns side by side with the larger breeds.—[Webb Donnell, Maine.

**Prevents Dirty Nests**—Fowls can be prevented from roosting on the edge of their nest boxes by placing a 2-in roller at the front of the boxes as shown in the illustration. The roller revolves easily upon a wooden pin at each end. The sides of the boxes are made slanting for the same reason.

**Cured Egg Eating**—I saw in some of my papers that wheat bran mixed with vinegar would cure them of the egg eating habit. I had some very strong vinegar which I reduced with about one-half water and mixed up two large pans of bran with it and gave the hens, which they ate very greedily. In a few days I gave them another mess, which they did not eat as greedily as the first, since which I have not known of their eating even a frozen egg.—[N. S. Walker, Pa.

**Poultry Housekeeping**—Earth or plaster is scattered on the platform under the roosts and with the droppings is gathered up twice a week (Wednesday and Saturday) and placed in barrels or bins, securely covered to keep out snow and rain. The floors are covered with straw, dry leaves or hayseed and chaff, the latter being chosen when it can be had. The litter is cleaned out as often as it gets dirty (not filthy) and placed on the pile of stable manure. Sulphur is sprinkled in the nests and dustbox often to ward against lice. The hen house is also whitewashed twice a year. The dustboxes are placed on legs, which are made out of 2x2 in scantlings, 2 ft high. These are filled with dry wood ashes and cleaned out often.—[Alter Ego, N Y.

**Early Hatched Pullets** are most desirable. Yearling hens fall far behind as "record makers." Pullets that come from stock having been bred for winter eggs will have a decided tendency in their favor. Chickens should be hatched sufficiently early to become fully mature before cold weather. If they begin to lay in Nov, it is comparatively easy to keep pullets producing eggs through the first part of cold weather, when fresh eggs are highest, but should they be just coming to the egg producing state at the approach of cold weather, I know from experience that it takes the best possible care to secure a satisfactory output of eggs before January.—[C. B. Cook, Oswego Co., N Y.

**How to Fatten Poultry**—I have fattened for market this season over 100 cockerels and have settled on this method as best. They are confined two weeks in a coop or pen, given plenty of room and air, but where drafts cannot strike them. Low roosts are provided, a dust bath, though I have never seen them use it, and boxes of grit and oyster shells. I make low benches of overturned soap boxes, on which I place their pans of food and milk, that they may not readily be soiled or spilled.—[Clarissa Potter, Maine.

**Chicken Queries**—H. S. B.: Chopped clover ensilf is a good egg food.—C. M.: Some of the patent insecticides are very effective for poultry lice. Homemade incubators are hardly worth while, but cheap brooders can be made on the farm, that will work as well as any. One of these will be described later in the season.—Mrs R.: To prevent tapeworms, change location of house and ards. Give fowls a tablespoonful of turpentine.—Mrs M. L. H.: Your fowls which lose use of legs but have good appetite are kept in a damp place or have been overfed. Give them grit or charcoal, feed less corn and more oats, and make them scratch

for grain in litter.—M. H. J.: Raw meat is often a cause of worms. A spoonful of turpentine is the best remedy.—L. H.: The chickens which sneeze, breathe hard, have throats clogged, no doubt caught cold after the weather changes you describe. Give them sponges, six pellets, three times a day.—Mrs L. N.: For the chronic sneezing and apparent fever, put tincture of acetone in the drinking water for three days, 10 drops to 1 qt of water.—N. Barker: Buff Leghorns are kept by nearly all the large poultry concerns advertising in F & H.

**For Best Prices**—We think a shipper should be not over 100 miles from market to obtain the best prices, and should advise any party who wishes to get the best returns to locate within 25 miles of market. He could then be advised as to a short market, and could often get stock in, realizing quite an advance above the market 24 hours later.—[W. H. R. & Son, Boston.

**Cheap Meat**—Give all the butchering refuse to the chicks. If in a thick rabbit neighborhood, buy them of boys, dress them and run through a bone mill or else cook them and feed to the hens. If cooked, thicken the broth with bran. [Emma Clearwaters, Ill.

**Lice and Indigestion**—To rid little chicks of lice, mix a little kerosene in some lard and grease their heads well with it. Give little turkeys plenty of black pepper tea to drink. It will cure summer complaint and indigestion.—[L. L. M., Clare, O.

**Young Hens Better**—I have always found that yearling and two-year-old hens were the money makers. After they pass this age they begin to decline in their money earning value.—[C. A. Ford, Ark.

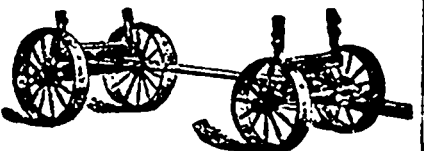
**Egg Records** amount to little unless it is stated when the eggs are laid. It is not the number of eggs but the price that counts for profit. Anyone can make hens lay, but comparatively few can make them lay all winter.

**A Manufacturer** must have considerable confidence in his goods when he is willing to send them on trial, requiring no money until the user is absolutely satisfied. This is what C. E. Ross of Lincoln, Ill. who advertises in this issue the World's washer, agrees to do. Mr. Ross claims his machine washes clothes easily and perfectly without wearing, tearing or rusting them, and that the machine is so simple a child can operate it. A washing machine is something that every housekeeper has use for and is a labor-saving device. If any of our readers are interested, write and mention Farm and Home, and Mr. Ross will send free circulars and prices.

Anything that will make milk will make eggs, but don't feed much cottonseed meal or rye.

**Farm Wagon only \$21.95**

In order to introduce their Low Metal Wheels with Wide Tires, the Empire Manufacturing Company, Quincy, Ill., have placed upon the market a Farmer's Handy Wagon that is only 25 inches high, fitted with 21 and 26 inch wheels with 4 inch tires, and sold for only \$21.95.





This wagon is made of the best material throughout, and really costs but a trifle more than a set of new wheels, and fully warranted for one year. Catalogue giving a full description will be mailed upon application by the Empire Manufacturing Co., Quincy, Ill., who also will furnish metal wheels at low prices made any size and width of tire to fit any axle.

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WITH OUR MOTION PICTURE MACHINE. Projects Life Size Motion Pictures up to thirty feet in diameter, with all the motions of life. A large list of intensely interesting and very funny motion picture views. Greatest Entertainment feature ever introduced, and the wonder of the Age. Can be used with any Magic Lantern or Stereopticon, or we furnish our complete with advertising matter, book of instructions, and everything needed to start in high class business at once. **ANYONE CAN MAKE BIG MONEY** from the stars giving exhibitions in Halls, Churches, School Houses, Vacant Stores and Theaters, without Motion Picture Outfit. No experience required. You turn the crank, the machine projects the pictures. Write the Catalogue and copies of letters from those who have made BIG MONEY with our Outfit. **EXHIBITMENT SUPPLY CO., Dept. Q., 26 Fifth Avenue, CHICAGO, ILL.**

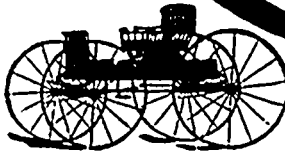

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Robes, blankets, and all horse equipments; an immense assortment at wonderfully attractive prices. Write for finely illustrated catalogue, which describes and gives the prices of our entire line, explains our plan of selling direct, and contains a copy of the guarantee which goes with everything we sell. Mailed free.

**The Columbus Carriage and Harness Co., Columbus, Ohio.**

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on an inferior vehicle or harness. Your life and that of your family depends upon their quality and reliability. You can tell very much about the quality of a vehicle by simply looking at it. The paint and varnish effectively hides the quality of material. Vehicles must be bought largely on faith—faith in the honesty of the manufacturer.

### WE HAVE NO AGENTS

but have been selling vehicles and harness direct to consumers for twenty-seven years. In fact we are the largest manufacturers of vehicles and harness in the world selling to the consumer exclusively. These facts speak volumes for the quality of our goods and our method of doing business. You take no chances; we ship our vehicles and harness anywhere for examination and guarantee everything. Send for our large illustrated catalogue before buying. **IT'S FREE.**

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25 different designs, they are all steel and cheaper than wood fence. Special prices to Churches and Cemeteries. Write us for catalogue.

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## GOOD CIDER

Cider, Pure, Low, Keeping Cider, and more of it from the small amount of apples can only be secured by using

### A HYDRAULIC CIDER PRESS.

Made in various sizes, hand and power. The only press awarded medals and diplomas at world's fairs. Catalogue and price list sent free upon request. **Hydraulic Press Mfg. Co. 5 Main St. Mt. Vernon, Ohio.**

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Get Your Money's Worth.

You will find this cooker by far the most satisfactory in every way. Absolutely full measure—(20 gallon size not stamped "20 gallon"); one-half cheaper than any other; simplest; lasts for generations; quickest in heating; most economical of fuel; coal or wood; 7 sizes; 15 to 70 gallons. Send for circular. **Money back if not satisfactory.**

Direct from factory to farmer. **HEESEN BROS. & CO., 37 High St., Tecumseh, Mich.**

## MATTHEWS' NEW UNIVERSAL DRILL

Double and Single Wheel with Collars, Flaw and Ribs attachment, Castles and Tools in One. Drill all kinds of garden work. Calluses all kinds of heavy crops. Write for free book. **AMES PLow CO., Boston and New York.**

**FARMS SOLD** For Cash, any State. Write for transfer, Reed Bldg., Phila., Pa.

**FARM FENCE**, 18 to 24 cents per rod. Box 17, Buchanan Fence Co., Smithville, Ohio.

Meat smoked in a few hours with **KRAUSER'S LIQUID EXTRACT OF SMOKE.** Made from a hickory wood. Cheaper, clearer, sweeter, and more than the old way. Good for circulations. **K. KRAUSER & BROS., Milton, Pa.**

## HAND-FORGED 75c. KNIFE and 60c. SHEARS, \$1.00.

Every M. & G. blade is hand-forged from finest steel, fire tested, warranted. We will send you one for 45c. 5 for \$2.00, 10 for \$3.50. Best 7 inch shears, 60c. This knife and shears, \$1.00. Pruning 75c.; budding, 35c.; grafting, 25c. Pruning shears, 75c. Send for catalogue free list and "How to Use a Razor."

**MAHER & GROSSCHMIDT, 413 E. Street, Toledo, Ohio.**

The Swineherd.

FEEDING THE PIGS.

Young pigs should be given a good start. Their first meals are taken through the sow, so she should be given nourishing and succulent food in liberal quantities as soon as all danger of milk fever is past.

As soon as the little ones show an inclination to drink, some milk and shorts should be put in a place where the sow cannot get at it.

MAKING THE HOG GROW.

From 4 to 4 1/2 lbs potatoes are equal to 1 lb grain in pig feeding.

The pig requires a warm and dry sleeping place. He will stand as intense cold as any domestic animal if the air be still, but if there is a draft across him good-by to all profit.

The floor of the pig house should be made of wood or of cement covered with earth. Pigs should never lie in cold weather on cement, bricks or stone.

Wooden walls for the piggery, with two thicknesses of paper between, will often be found cheapest and best.

Where hogs are confined they should have an allowance of sods where they can readily get at them. A mixture of wood ashes and salt, at the rate of 1 bu ashes to 6 lbs salt, is another good condiment.

Fat hogs are not desired by packers, and all that exceed 1 1/2 inches in thickness of fat on the back will net a lower price than such as are within that standard.

The big, fat, thick hog, which it was once the aim of every breeder to produce had to give way to a pig of quite a different build, one possessing plenty of length, greater depth than formerly, with a corresponding decrease of width of back, lighter in shoulders and with less weight of jawl.

The Pig's Quarters—The cow, horse and dog have hair; the sheep wool. They require far less shelter than a pig. The pig grows in a bare skin from babyhood. Never an animal lives with a bare skin that does not need clothing or shelter.

I consider F & H is well worth its price and I believe if every farmer would take it and read it, that it would be the best investment they ever made, because the paper is full of useful information, which is invaluable to the farmer.

Dairy and Creamery.

PAYING BY THE BABCOCK TEST.

All creamery employees should receive a thorough training in the making of the Babcock test, and especially is this true of cream gatherers. Each error in sampling is multiplied and made more glaring by each successive operation, and has an important effect on results.

It is based on a wrong principle—quantity regardless of quality; whereas cream is valuable solely for its butter-making content, which is obviously the fat.

It makes unjust discrimination between patrons. It discriminates in favor of a poor cream over a rich cream, and the producer of cream with smaller fat content is better paid, thus placing low-grade cream at a premium.

It is not uniform in operation. According to temperature of water, breed of cows, period of lactation, season of year and length of time the milk stands, the cream is thicker or thinner but always variable.

It invites dishonesty. It affords no protection against dishonest manipulation of the cream on the part of the patron to increase its bulk for a given amount of fat.

It is not progressive. While good at the time of its introduction, and the best method known at that time, it is now as far behind the Babcock system as separators are ahead of shallow pans.

It is clumsy, takes cream gatherer's time, increases his load, etc.

It does not encourage improved methods of breeding, feeding and management as the Babcock system does.

The Babcock system is preferable because.

It is based on the correct principle—The fat or butter content of the cream.

It is certain and unvarying in its operation.

It prevents dishonesty on the part of creamery patrons and cream gatherer. By duplicate tests all have a fair show.

It encourages a better quality and larger amount of cream, better cows, more careful feeding, a heavier cream and a more skimmilk on the farm.

It gains patrons to creameries where it is in use.

It is permanent wherever tried. No instance is known of a creamery having tried both systems going back to the space as a basis of payment.—[Prof F. S. Cooley, to Mass Creameries Ass'n.

FEEDING AND BREEDING.

With the scales and the Babcock tester as a guide, it is quite as possible to have a herd of cows average 250 lbs butter or 600 lbs cheese, as to have one that will average much less.

Many a good cow has gone from her calfhood to bologna whose praises were unheralded and unsung, because her owner did not know of the capabilities of the animal; she was not tested because it took time and trouble.

The separator is a great labor-saving invention for the women, doing away with the drudgery which accompanies the old way of butter making. In a few minutes after milking, the cream is separated and is easily cared for until ripe for churning. Separator cream also churns much quicker than gravity cream. Separated milk can be fed warm to the calves, saving the skimming of milk and its warming.

The cow that does not produce 4000 lbs of milk in a year is no profit maker unless that milk analyzes 4 per cent butter fat and then only in case of receiving an average price of 20c per lb for the butter made.—[President J. F. Hickman, to O Dairy Ass'n.

Care of the Heifer—Perhaps the best age to breed is to have her freshen at 24 to 30 mos; would prefer to have her freshen at 30 mos rather than in the winter, unless she can have good, comfortable quarters and an abundance of succulent food, either roots or silage. As a heifer, she should be handled, petted, if you please, and accustomed to being with the cows and taught to know that you are her best friend. She should

be fed so as to keep a continuous growth, not fattened or stunted, but kept in a vigorous condition, and if pasture is not sufficient for this, would supplement it with wheat bran, ground oats or barley. The wants of each individual is the only guide as to how much to feed.—[A. M. Stevens, to Wash Dairymen's Ass'n

Hard Churning Cream—When cream which has been properly ripened and warmed refuses to churn into butter in a reasonable time, try scalding. If the milk is set in pans, place the pans on the stove as soon as filled, and heat till the top wrinkles, when remove and proceed as usual. If deep setting is practiced, draw the cream off into pans and scald in the same way. The butter will then come readily and be sweet and firm. If unscalded cream refuses to come at all, stir in a cup of salt and set away, over night if possible, when it will probably come without difficulty, especially if the butter milk can be drawn off at the bottom first.—[The Subscriber.

SAW-MACHINE For full information about this, also best horse-power, thrasher, clover-huller, dog-power, hay-thresher and binder, sawing-mill, feed-mill, drag-saw, land-roller, steam-engine, ensilage and fodder-cutter, shredder, root-cutter, corn-sheller and Round-ello. Address: GEO. D. HARDER, 1177 Colburn St., N.Y. Please tell what you wish to purchase.

Labels Dana's White Ear Labels stamped with any name or address with consecutive numbers. Supply forty recording associations and thousands of practical farmers, breeders and veterinarians. Samples free. Agents Wanted. G. M. DANA, 77 Main St., West Lebanon, N. H.

THE BEST BUTTER and the most of it is made by using our improved patent AQUATIC CREAM SEPARATOR. It takes all the cream out of milk, expels all foul odors and impurities in two hours' time. Better than any creamery made and costs less than half as much. For 100 cows up to 400. Can't get out of order. No experience necessary. Prices \$1. to \$11. Free catalogues and testimonials. Reliable Agents Wanted. Aquatic Cream Separator Co. 171 Factory Sq. Watertown, N.Y.

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FINE BLOODED Cattle, Sheep, Hogs, Poultry, Sporting Dogs. Send stamps for catalogue, 150 engravings. N. P. Boyer & Co., Coatesville, Pa.

COW HOPPLE OR KICKING COWS, 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.

365 Days a Year.

Some men who keep cows declare the price of a cream separator to be too high. Did you ever stop to think that you pay as much or more for a twine binder and only use it three or four days in a year? A Safety Hand Separator only costs \$100 and is used with profit every day in the year. Look into this matter. Send for Catalogue No. 58. It's free. The Sharples Co., Canal & Washington Sts. CHICAGO. P. M. SHARPLES, West Chester, Pa. U. S. A.



The Improved CONVEX and the Webster Calf DISHORNERS are the most practical instruments made for cutting all kinds, shapes and sizes of hoof-irons. Easiest operated; no crushing; cuts closer, smoother, more humane. WEBSTER & DICKINSON, Box 79, Christiana, Pa.



It is Hard Work To get successful results with the wrong material. Make use of a permanent and positive cure for Galls, Hores and scratches on horses, or for any sore or skin disease on horse, cow, sheep or dog, by applying Veterinary Pixine. It is an antiseptic, alterative, penetrating healing ointment, a marvelously effective—quick, clean, healthy—cure for any skin disease on domestic animals. Universally used and endorsed by veterinary surgeons, horsemen, livermen and farmers. Hold under absolute guarantee to cure or money refunded. PRICE {2 oz. box 25c.} At Druggists and Dealers. 1-2 lb box 50c. 5 lbs or mailed postpaid. TROY CHEMICAL CO. Troy, N. Y.

No. 3 "PRIZE" FEED MILL OVER 30,000 IN USE. All Iron and Steel. Automatic Shake Feed. Perfect Adjustable Feed Slide. Grinds as fine or coarse as desired. Will run by any power, one to five horse power, steam or wind. Will not choke down the smallest power. Sold at a low price for the reason that we are the largest manufacturers in the world of labor saving farm machinery. Send for special offer on this mill and large illustrated catalogue of "Morse" and "American" Grinding Mills, 25 sizes and styles. Feed Cutters, Peck's Corn Threshers, Truss, Furrows, Furrows, Furrows, George's German Seed and Wood Wind Mill for power and pumping, Wood Saws, Corn Shellers, etc. APPLETON MFG. CO., 11 Page St., BOSTON, MASS.

BIG BANK ACCOUNTS FROM LITTLE SAVINGS GROW: It is due to the daily savings made by The Improved United States Separator that it is so popular with its users and that its sales are increasing so rapidly. The following are some of the ways it saves: It saves more cream because it leaves less in the skim milk. It saves time and labor because it separates faster and easier. It saves repair bills on account of its greater simplicity and durability. For these and other reasons, more fully explained in our catalogue, which is free, no one can afford to buy any other make. Remember, we furnish a complete line of Dairy and Creamery Apparatus. VERMONT FARM MACHINE CO., Bellows Falls, Vt.

PRINT BUTTER PARCHMENT Your name or the name of your Creamery should be printed on every sheet. Send for Sample. THE PATERSON PARCHMENT PAPER CO., Eighth St., Passaic, N. J.

THE LOSS OF AN EYE—terrible calamity. The tip of a Lorn often does it in trying up cattle. Cut off the horns quickly and humanely with the Keystone Dehorning Knife. Cuts on four sides, so that the eye is not injured or blinded. Highest Award World's Fair. FULLY GUARANTEED. Write A. C. BROSIUS, COCHRANVILLE, PENN.



**Gardening Under Glass.**

**LETTUCE MANURES AND SOILS.**

There are almost as many formulas for mixing soils and fertilizers for forcing lettuce as there are growers. Each successful grower has his theory of what constitutes an ideal soil. The N Y exp sta at Geneva has been trying to find out what influence, if any, different mixtures and kinds of soil had upon lettuce, only head lettuce being used in the trials. It was found that rather compact soils gave the most satisfactory results. A good, stiff clay loam, containing some sand and lightened with about 15 per cent of well rotted manure, was the best. Soils of loose texture produced heads which were larger and looser, later in maturing and more subject to tip burn.

The fertilizer tests showed no gain in using phosphates or chemicals where plenty of manure was mixed with the soil. On sandy loams the manure lightened it up too much and the commercial fertilizer proved most efficient, but on the clay loams the opposite results were obtained. The experiments seemed to indicate that lettuce cares less for the form or source of plant food than about the texture of the soil in which it grows.

**Forcing Rhubarb**—This is very easy to force in an ordinary cellar. The roots need to be frozen before being brought in, when they will soon start to grow and give a crop in a few weeks. The little heat necessary may be supplied with an ordinary kerosene lamp or lantern. While the stalks will grow in light, yet the growth is poor, and absolute darkness is best. The brief article on this subject in the issue of Jan 1 should have read "no light and a little watering," etc. A dozen roots brought in at intervals will give enough for a family.

**Early Celery** can be obtained by sowing the seed in the greenhouse in Feb and pricking the plants out into flats when they reach suitable size. They need to be grown cool and should be put out into cold frames as soon as the weather permits. Then by early setting in moist, rich soil some nice heads may be obtained for the table by Aug and Sept. The earliest varieties like White Plume and Golden Self-Blanching are best for this purpose.

**Forcing Lettuce** may be divided into four groups, viz, forcing and outdoor head lettuce, cutting and cos or celery varieties. The only difference between the first two is that the forcing varieties are the very earliest kinds which will head up except in a cool temperature, while the others will head up during more or less hot weather. With the exception of Grand Rapids, all other kinds used for forcing are varieties which head up. Of these the white-seeded T.anis ball or Boston Market is the variety which has been most generally planted, although it is now being superseded by Hittinger's Bel-

mont and Rawson's Hothouse, which are merely improved strains. They form large, solid heads and grow quickly and closely. The black and the yellow-seeded Butter make larger heads, which are yellow, crisp and tender. The Mignonette and Tom Thumb form dainty, small heads which are of superb quality. All of these may be grown in the open ground during the early spring.

**Propagating Summer Flowering Plants** takes up much room from now on in the greenhouses of amateurs. A bed of pure sand over the pipes is best for striking most cuttings of soft wooded plants. A bed the width of the bench and 3 to 6 ft long will hold many hundred cuttings, which should be put as close as possible in rows about 2 in apart and correctly named and labeled. After they are well rooted they may be put into small pots.

**The Manufacture of the American pianos and organs** by Messrs Cornish at their immense factories at Washington, N J, is one of the most interesting exhibitions possible. The magnitude of their business has made it necessary for them to still further increase their factory space and they have just finished an addition to their main building, which will give 20,000 cubic feet more room; they have also enlarged their office facilities so that they are now in better shape than ever to handle orders and can now build and ship at the rate of 60 pianos and organs per day or 18,000 per annum. Nearly 400 skilled workmen are employed (many of them have held their positions for over 20 years). The monthly pay roll often averages \$30,000. Messrs Cornish & Co have a splendid reputation personally, and this firm holds the unique and remarkable position of being the only manufacturing concern building high grade pianos and organs who sell them direct to the general public exclusively at first cost. We advise everybody to write for the Jubilee illustrated catalog issued by this enterprising and entirely reliable firm; the frontispiece is printed in colors and is a unique reproduction of a celebrated painting representing St Cecilia and the Heavenly Choir. It will be sent free to anyone addressing Messrs Cornish & Co at Washington, N J, and mentioning this paper.

**CHAT WITH THE EDITOR.**

**Celery for Profit**, by T. Grenier, price 20c; prepaid, will give E. D. J. full details on the culture of this crop. The book is sold by the Orange Judd company of New York.—R. R.: Apple seedlings are sold by all the nurserymen who advertise in F & H.—Mrs E. J. H.: A dressing of sawdust is often beneficial to heavy soils to lighten and open them up, but I would not advise you to use it on light, especially very light, soils.—J. H.: I would advise you to plant Bohemian oats in Oct; the Ont exper farm at Ottawa, after testing 67 varieties last year, recommends as among the best: American Beauty, Banner, Monnonite, Juliette, Improved Likowo.—S. L. K.: We have been unable to learn anything definitely about the standing of the Distributing league of New York city.—T. A.: For a list of the best varieties of fruit to plant for home use in Ill, write to the director, Ill exper sta, Urbana, Ill.

**HARD TIMES**—A Michigan friend (W. R. M. of Oceana Co) writes: "I have learned to love to peruse the columns of F & H. There is much good advice and counsel for the farmer. In the Nov 1 issue you say, 'Times are not hard in Colorado.' I have the October report of the U S department of agriculture. Colorado is quoted: Oats 26 bu per acre, barley 22 bu, rye 13.5, corn 68; corn the only full crop reported. Farmers (with few exceptions) are hard up. They must pay \$1 per day for help. Is this agricultural prosperity? With our great shortage when we say anything about low prices, they say 'because of overproduction, and lots of farmers are fools enough to believe it. The farmer is oppressed above all other classes. Even legislation is against us. Is there a balm in Gilead?' Fresh testimony is always welcome. The indications as they come to F & H from all parts of the country have pointed uniformly toward prosperity among farmers of all classes. Is there a balm in Gilead for oppressed farmers? My friend in Michigan is referred to an editorial paragraph in the issue of Jan 15, explaining exactly why farmers are sometimes overlooked by legislators. Other industries and interests make so much noise that congress dares not neglect them; farmers are not sufficiently organized, nor do they make enough noise.

**WONDERFUL CURES BY SWAMP-ROOT.**

**To Prove What This Famous New Discovery will do for YOU, Every Reader of "Farm and Home" May Have a Sample Bottle Sent Absolutely Free By Mail.**



65th Police Precinct, Greater New York, Nov. 11th, 1899.  
 Dr. Kilmer & Co., Binghamton, N. Y.:  
 Gentlemen—In justice to you, I feel as if it was my duty to send you an acknowledgment of the receipt of the sample bottle of Swamp-Root you so kindly sent me. I had been troubled for the past five years with kidney and bladder trouble. I had our best physicians prescribe for me. They would relieve me for the time being, but the old complaint would in a short time return again. I sent for a sample bottle of Swamp-Root and I found it did me a world of good. Since then I have taken eight small bottles and I consider myself perfectly cured. I do not have to get up during the night to urinate as I formerly did, three and four times a night, but now sleep the sleep of peace. My back is all right again, and in every way I am a new man. Two of my brother officers have used, and are still using, Swamp-Root. They, like myself, cannot say too much in praise of it. It is a boon to mankind. We recommend it to all of our friends, and we recommend it to all humanity who are suffering from kidney and bladder diseases.  
 My brother officers (whose signatures accompany this letter) as well as myself, thank you for the blessing you have brought to the human race in the compounding of Swamp-Root. We remain, yours very truly,  
 JAMES COOK,  
 HUGH E. BOYLE,  
 JOHN J. BODKIN.  
 Officers of the 65th Police Precinct, Greater New York.

**What a Woman Says of Swamp-Root.**

Mrs. H. N. Wheeler of 268 Boston St., Lynn, Mass., writes on Dec. 11th, '99: "About 18 months ago I had a very severe attack of grip. I was extremely sick for three weeks, and when I finally was able to leave my bed I was left with excruciating pains in my back. My water at times looked very like coffee. I could pass but little at a time, and then only after suffering great pain. My physical condition was such that I had no strength and was all run down. My sister, Mrs. C. E. Littlefield of Lynn, advised me to give Dr. Kilmer's Swamp-Root a trial. I procured a bottle, and inside of three days commenced to get relief. I followed up that bottle with another, and at the completion of this one found I was completely cured. My strength returned, and to-day I am as well as ever. My business is that of canvasser, I am on my feet a great deal of the time, and have to use much energy in getting around. My cure is therefore all the more remarkable, and is exceedingly gratifying to me."

Among the many famous cures of Swamp-Root investigated by Farm and Home, the ones which we publish this month for the benefit of our readers speak in the highest terms of the wonderful curative properties of this great kidney remedy.

It used to be considered that only urinary and bladder troubles were to be traced to the kidneys, but now modern science proves that nearly all diseases have their beginning in the disorder of these most important organs.

The kidneys filter and purify the blood—that is their work.

So when your kidneys are sick you can understand how quickly your entire body is affected and how every organ seems to fall to do its duty.

If you are sick or "feel badly," begin taking Dr. Kilmer's Swamp-Root, because as soon as your kidneys are well they will help all the other organs to health. A trial bottle will convince you—and you may have a sample bottle free for the asking.

When your kidneys are not doing their work, some of the symptoms which prove it to you are pain or dull ache in the back, excess of uric acid, gravel, rheumatic pains, sediment in the urine, scanty supply, scalding irritation in passing it, obliged to go often during the day and to get up many times during the night to empty the bladder; sleeplessness, nervous irrita-

bility, dizziness, irregular heart, breathlessness, sallow, unhealthy complexion, puffy or dark circles under the eyes, sometimes the feet, limbs or body bloat, loss of ambition, general weakness and debility.

Swamp-Root is used in the leading hospitals, recommended by skillful physicians in their private practice; and is taken by doctors themselves who have kidney ailments, because they recognize in it the greatest and most successful remedy that science has ever been able to compound.

To prove its wonderful curative properties, send your name and address to Dr. Kilmer & Co., Binghamton, N. Y., when you will receive, free of all charge, a sample bottle of Swamp-Root and a valuable book by mail post-paid. This book contains many of the thousands upon thousands of testimonial letters received from men and women who owe their good health, in fact their very lives, to the wonderful curative properties of this world-famous kidney remedy. Swamp-Root is so remarkably successful that our readers are advised to write for a free sample bottle and to be sure and mention reading this generous offer in the Farm and Home.

If you are already convinced that Swamp-Root is what you need, you can purchase the regular fifty-cent and one-dollar size bottles at the drug stores everywhere.

... OUR NEW ...

**Premium List.**

Our Complete Premium List for 1899-'00 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,**  
 Sp. Ingfield, Mass., or Chicago, Ill.

Large and Small Fruits.

A FARMER'S FRUIT PATCH.

A vegetable garden is no place for fruit. I never saw a farmer's garden with fruit in but that was foul where the fruit grew. A man who has children and will not raise all the berries and fruits his family will use is next door to a sinner. Let him have a fruit patch a little ways from the house and the chickens with a fence that will keep horses and hogs out. Lay off a long, narrow patch and plant it in currants, gooseberries, blackberries, raspberries, both red and black, and strawberries, with perhaps a row of dwarf pears, one of plums and another of cherries, but no apples. Keep this patch tinned and as clean of weeds as a good corn field. It will pay. Having raised these things extensively for many years I have tried to determine the cost of these crops. Harvesting and marketing small fruits is expensive. I estimate the cost to ripen them on the bush or vine. Gooseberries and currants do not exceed 25c per bu, strawberries 40 to 50c, blackberries the same and raspberries 75c. Tree fruits vary so much in different seasons and with varieties that I cannot calculate them.—[W. L. Anderson, Ind.]

SEASONABLE ORCHARD NOTES.

With a long-handle pruning hook, I have taken 3450 bunches caterpillar eggs from my orchard.—[S. K. Clark, Me.]

Order nursery stock early to get best of selections. There is a considerable shortage in some lines of stock reported, caused by the severe freezes of the winter of a year ago.

I walked with Mr C. through his nursery. There was a row about 6 yrs old that looked like wilderness. He said he used this row to cut scions for grafting. I remarked it was a very poor way to propagate trees to bear fruit. Mr C. agreed that it was, but said he grew trees to sell for the money that is in it. That water sprouts and nursery stock made the straightest nursery trees and that buyers always picked out the straightest and nicest-looking trees. Prices are so low he could not afford to select seed as it should be done, and cut scions from good bearing trees.—[Jacob Falth.]

A good year for one crop is generally an off year for another, and the success with the one helps out the other. But if a crop fails one year, go into it heavier than ever the next, as the majority of growers will be discouraged and will not try it again. It is not enough for success to cover a crop deep with fertilizers; it must also be dressed with energy and ingenuity and intelligence.—[Mary E. Cutler, Worcester Co, Mass.]

The Sweetest and Best Chestnuts are raised in this part of the world. There are imported over \$2,000,000 worth of foreign chestnuts, larger and finer than our native nuts. But we can raise just as large ones and are now doing it in this state. All that is necessary is to graft the native wild chestnut young stock with improved Japanese sorts. In some cases the fifth year crop of nuts has paid for cost of land and expense of grafting. Last year Japan chestnut grafting wood was eagerly sought for at 50c per foot. It is used May 15 to June 15.—[H. L. Jaffe, Litchfield Co, Ct]

The Yellow Spanish Cherry is one of the finest of the Bigarreau class, both on account of its very large size and its delicious flavor. The tree grows to a very large size. It is fairly productive, but the fruit often blasts and drops. The fruit is very large and of a beautiful waxy luster, heart-shaped, of a beautiful waxy yellow, and nearly covered with red when exposed to the sun. The flesh is yellow, firm, juicy, sweet and delicious. Ripens in late June and succeeds on well-drained sandy soil.

Plums and Cherries must be grafted very early in order to be successful. Even then it is difficult to get a good percentage to live.

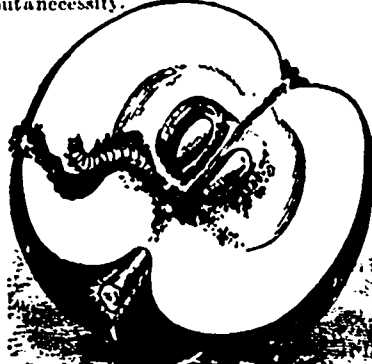
Plows From Factory to Farmer ought to induce our readers to send to the great Hapgood Plow Co of Alton, Ill. for their illustrated catalog. Besides the standard forms of plows, this enter-

prising firm sell a thousand articles a farmer and his family use. These are sold direct from the factory, thus eliminating all middlemen's profits. They include machinery, buggies, wagons, harness, sewing machines, etc. This old established firm have the confidence of a host of regular buyers and F & H cheerfully commends them to its readers.

A Great Garden Contest has just been concluded and prizes awarded by the American Agriculturist weeklies. Prizes aggregating several thousand dollars are now being distributed among gardeners, both village and country, to those whose records and reports showed most clearly and accurately the course pursued, and results and expense of growing, irrespective of whether it showed a profit or a loss. J. E. Morse of Detroit, Mich. secured \$750 in cash. A large number of other prizes were awarded, including cash, implements, tools, fertilizers, seeds, every stock, poultry, etc.

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungous diseases is no longer an experiment but a necessity.



Our readers will do well to write to Wm. Stahl, Quincy, Ill., and get his catalogue describing twenty-one styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contains much valuable information, and may be had for the asking.

This Trade Mark



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BURPEE'S Best Seeds that Grow

Do not delay but write TO-DAY (a postal card will do) for

Burpee's Farm Annual for 1900

so well worthy of its reputation as "The Leading American Seed Catalogue." It is sent free to planters everywhere. Have you received it yet? If not, write TO-DAY.

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in extra large, medium and small sizes, all a great bargain. Our leading specialty is  
RED CROSS CURRANT  
Buy direct and save half your money. We sell everything by the orchard, garden and park. Send to-day for our New Fruit and Ornamental Catalogue FREE.  
Green's Nursery Co., Rochester, N.Y.

SAVE THE MONEY

You are spending on repairs and buy new wheels. It is cheaper and in every way better. We sell 4 Buggy Wheels, 7-8 in. Steel Tire for \$7.50 4 Carriage Wheels, 1 in. Steel Tire for \$4.00 Other wheels for other purposes at equally low prices. Write for price list No. 32 containing directions for measuring.  
WILMINGTON WHEEL CO., Wilmington, Del.

Early Vegetables

Need a quick and powerful stimulant—something to force growth to the limit. The money is in Earliness.

Nitrate of Soda

Fits the case exactly. Apply in small quantities during the early growing period of the plants.

It adds color, flavor, crispness and tenderness to all vegetables. Would you know more about it, send for free book, "Food for Plants," by JOHN A. MYERS, 12-B. John St., New York. Nitrate for sale by

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27 William Street, New York.

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Get new catalogs to test my seeds. I will mail my 1900 Catalogue, filled with more bargains than ever and a 10c Due Bill good for 10c worth of seeds for trial absolutely free. All the best seeds, Bulbs, Plants, Roses, Farm Seeds, Potatoes, etc., at lowest prices. Nine Great Novelties offered without name. I will pay \$50. FOR A NAME for each. Many other specialties, including Catalogue of the great money-making plant. (See 50 varieties above) cost \$10 in cash premiums offered. Don't give your order until you see this new catalogue. You'll be surprised at my bargain offers. Send your name on a postal for catalogue to-day. It is FREE to all. Tell your friends to send too.  
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THE MILLION DOLLAR POTATO

Most talked of potato on earth! Our Catalogue tells—so also about Galzer's Earliest Six Weeks' Potato. Largest farm and vegetable seed grower in U.S. Potatoes, \$1.20 and up a bu. Send this notice and 5c stamp for Big Catalogue FREE.  
JOHN SAUZER SEED & LA CROSSE WIS.

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We have thousands of all the best varieties of TREES and PLANTS. Full description in our Catalogue—It's free. Send for it to-day. We can save you money. Address  
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MY Cata- STRAWBERRY PLANTS FREE

10c varieties. E. J. HULL, Olyphant, Pa.

TREES, Plants and Vines, Fruit and Ornamental. Low prices. Send for catalogue. Satisfaction guaranteed. Alliance Nurseries, Rochester, N. Y.

Seeds

Pure, Sure to Grow. Send for FINEST Catalogue FREE. Large packets 2 cents. Market and Cash orders only for Wholesale. Price List. ALMER BROS., No. 7 ABK, ROCKFORD, ILL.

IRON AGE EASE

The test of a tool is the ease with which it does its work. Good tools make good work easy, rapid and economical. The No. 4 IRON AGE Combined Seed Drill and Wheel Hoe for 1900 does nine different things and does them all better than any other six tools you could buy. It takes care of it all from first to last. It plows, levels, furrows, sows, covers, rakes, cultivates, hoes and hills. Send for a free copy of the famous Iron Age Book for 1900. It's a money-making guide.  
BATEMAN MFG. CO.  
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SEEDS At Wholesale Prices. We raise Vegetable Seeds; them direct to the planter at Wholesale Prices. Catalogue Free. Write for it at once. It will pay you to see it.  
JOS. HARRIS CO., Moreton Farm, Coldwater, N. Y.

WE SAVE YOU MONEY ON FERTILIZERS.

Buy your fertilizers Direct at Wholesale Prices, and get your money's worth. SPECIAL OFFER TO CLUB PROMOTERS. WRITE FOR PRICES, SAMPLES AND PAMPHLET.  
WALKER, STRATMAN & COMPANY, Pittsburgh, Pa.

TILE DRAINED LAND is the earliest, easiest worked and most productive land. By using the you get rid of the surplus water and admit the air to the soil—both necessary to best results in agriculture. My AGRICULTURAL DRAIN TILE meets every requirement. Make also Sewer Pipe, Red and Fire Brick, Chimney Tiles, Gas and Water Pipes, etc. Write for what you want and price. JOHN L. JACKSON, 175 Third Ave. Albany, N. Y.

\$2,500.00

In case prices is one of the many interesting features of our new catalogue for 1900. Planters of Maule's Seeds are successful people. Maule's Seeds have done so for years and are as far ahead as ever in the race. Our new catalogue for 1900 is

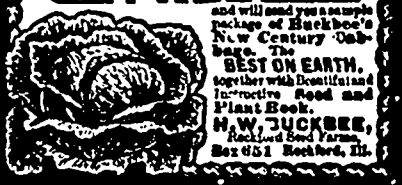
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who apply for it. It contains everything good, old or new, with hundreds of illustrations, four colored plates and practical up-to-date cultural directions. It is pronounced the brightest and best seed book of the year. Write for it to-day. Address  
WM. HENRY MAULE, Philadelphia.

MONEY IN CABBAGE

IF YOU PLANT The Right Seeds.

My new Seed Book tells all about the best varieties of Cabbages and everything of interest in seeds; how to grow them for profit, etc. Write to-day FREE this Paper and will send you a sample package of Huxford's New Century Cabbage. The BEST ON EARTH, together with Description of Instructive Seed and Plant Book.  
H. W. JUCKEE, Rockland Seed Farm, Box 651 Rockland, Ill.



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If you use the unexcelled EMPIRE KING BARREL SPRAYER because it has a brush on the agitator which has the action of a brush on the thick, raw pollen. Brass valves, without rubber or other material. We will send you a free book on spraying. FIELD FORCE PUMP COMPANY, 16 Market St., Leisport, N. Y.

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\$17 outfit for \$8.00, express paid. Will spray a 10 acre orchard per day. 100,000 in use. Satisfaction guaranteed or money refunded. Full catalogue free. Acts make from \$5 to \$10 per day. New improvements. Free Trial. Mention this paper.  
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SEED POTATOES AND EARLY SEEDS. Barrels of the 23rd century. U.S. Home Free. The GEORGE W. P. JERARD CO., CAMBROU, MAINE.

A POSTAL card will bring you our new catalogue and price list of varieties for commercial orchards. The Geo A Sweet Nursery Co Box 1945, Danville, N.Y.



### The Truck Garden. THE ASPARAGUS BEETLE.

This insect has ruined many of the asparagus plantations on L I and elsewhere. The beetles lay the eggs in spring on the young shoots, which soon hatch and the larvae eat the plants. Three broods occur in a season, the earliest being most destructive. In fields which are being cut, a few poor plants should be left to grow and serve as traps. These plants, scattered throughout the field, attract the beetles and they will lay eggs on them in great numbers. In a few days after the plants have leafed out, they should be cut down and burned, and others allowed to take their place. In this way the field can be kept quite clear of the insects later in the season.

On young fields that are not being cut, it is method cannot be used. One way is to wait until the larvae hatch and dust the rows early in the morning with air-blaked lime. Another method is to brush the larvae off with a broom in the middle of a hot day. They are soft and tender, and having been brushed into the hot sand cannot make their way back before they die. This should be repeated two or three times during the season.

**Testing Seed**—It is important to test all seed before planting, to know that they are fresh and sure to grow. Sometimes a planting will fail to grow and the time and labor could have been saved if the seed had been tested. This is easily done by planting a given number of seeds in a flower pot, and keeping it in a suitable temperature, and making note of how many sprout.

**For Forcing a Rapid Growth**, nothing acts quicker than nitrate of soda. Use it lightly, as it is a very concentrated plant food.

**Apply Potash Early**—Muriate of potash should be applied very early in spring. It retards maturity of many vegetables if put on at the time of sowing the seed or setting the plants.

**A Succession of Crops**—Every market gardener, where it is practicable, should raise two or three crops on the same ground. Last year I sowed peas in double row, about 10 inches apart and 3 1/2 ft. between them. After the last hoeing I planted squashes between the rows, then put in turnip seed with the planter, running close to the peas. Turnips will do well, even if squash vines cover them, and they can be easily harvested after frost has killed the vines. Whenever I plant corn or field beans I stir into the phosphate a quantity of pumpkin and turnip seed and thus raise three crops. Sometimes the turnips are worth more than the corn. After early radishes have been pulled sow beets for second crop. I have raised good beets by putting the seed in the phosphate when I planted early sweet corn.—[Marvin L. Piper, Windsor Co, Vt.

**The Australian Brown Onion**, which was introduced 3 yrs ago, is becoming popular with growers of it. Reports which we have received say it is the "strongest" onion grown. While not as heavy a yielder as some varieties it is much earlier in ripening and can be got off the ground in time to plant another crop the same season. It is distinctive in color, the skin being of a clear amber brown and is noted for its long keeping qualities.

**Rocky Ford Muskmelons**—Much disappointment has been caused southern truckers by planting seeds of the so-called Rocky Ford melons which have been shipped in such large quantities from Col during the past 3 yrs. One commission firm saved 400 lbs seed from the choicest melons which came to New York and planted it on one of their farms in the south with almost an entire failure as the result. The Rocky Ford proves to be an improved strain of Netted Gem, which has never been profitable with southern growers. Hackensack and Emerald Gem have always given better returns.

If market gardeners would give a bounty of 50c per 100 for all cabbage butterflies caught between Mar 1 and June 1, the money so invested would yield large returns by the end of the year.

## FERRY'S SEEDS

Thousands of gardeners depend on Ferry's Seeds every year and never suffer disappointment. Cheap substitutes bring loss, not paying crops. It pays to pay a little more for Ferry's Seeds. Five cents per paper everywhere, and always worth it. Always the Best. 1900 Seed Annual free. B. M. FERRY & CO., DETROIT, MICH.

WRITE THE GROWERS.  
NORTHUP, KING & CO.'S  
Seed Promises are PROMISES FULFILLED!

## SEED TRUTH

Every one who plants seeds has at times been disappointed. If you would learn the TRUTH about seeds and how to get them RIGHT—no matter where, or of whom you buy, send for "SEED TRUTH," an Authority upon the subject, SENT FREE. If you also desire a copy of our SPECIAL 64-page Catalogue of Vegetables, Field and Flower Seeds, send 10 cts. (in five stamps) and also receive one full size pig, each of Holland Cabbage (best winter sort), Red Globe (earliest) Beet, "Lips" (mixed) Sweet Peas (grow 3 1/2' high), Anemones (longest keeping), Tomatoes (new sprigged), Radishes, Evening Primrose (Sweet), Italian Yell (most charming floral novelty), and Free Samples of Perfection Field Seeds grown by us in this—the World's Golden Grain Belt! NORTHUP, KING & CO., Minneapolis, Minn.

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STERLING SEEDS

EXCLUSIVE GROWERS AND SHIPPERS OF ASSORTED SEEDS—ROSES

PALES ROSES CALIFORNIA GRAPE TREES

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CYCLONE SEED SOWER SAVES GRASS CLOVER AND SEED

Increase of crops per acre for seeders 10 acres. Tried and true. 25 years the Standard. Sent on trial. Special offer and circulars free. Address Champion Seeder Co., Urbana, Indiana.

VICK'S way of selling seeds in definite quantities enables you to know exactly what ground you can cover. No useless expense. You get exactly what you need, for the least money.

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yield heaviest crops and finest varieties.

Write for our Garden and Floral Guide. Describes in full this new departure in seed selling. Mention the you grow next. JAMES VICK'S SONS, Rochester, N. Y.

### THE KIN-KAN or KUMQUAT ORANGE

From Japan. Bears in marvelous profusion little golden oranges as large as a dinner plate. The whole fruit, red as all, is eaten. Delicious preserved and crystallized. A most elegant little window plant producing real orange blossoms. In bloom or fruit all the time. Grafted on dwarf stock and need not become over 10 inches high. Fine bushy plants 50c each, postpaid. Potted specimens for culture with order FREE. See 64-page catalogue of RARE FLORIDA FLOWERS AND FRUITS.

THE JESSAMINE GARDENS, JESSAMINE, FLORIDA.

## THE SEEDS YOU SOW

Will determine the size and quality of the crop you reap. You take your chances of a poor crop when you sow Johnson & Stokes' seeds. You can see the results almost as you buy by examining the handsome photographic plates on the seed boxes without exaggeration, in the new century.

**GARDEN and FARM MANUAL** for 1900. The most valuable book ever given away to seed buyers. Whether you sow a few seeds or many. Write to-day for it.

Johnson & Stokes, 217-219 Market Street, PHILADELPHIA, PA.

## NO crop can grow without Potash.

Every blade of Grass, every grain of Corn, all Fruits and Vegetables must have it. If enough is supplied you can count on a full crop—if too little, the growth will be "scrubby."

Send for our books telling all about composition of fertilizers best adapted for all crops. They cost you nothing.

GERMAN KALI WORKS, 93 Nassau St., New York.

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The earliest peach grown today is the VICTOR. It matures in the local market about June 10. A vigorous and hardy grower. Semi-climatic, sub-acid, fine flavor. White with red blush. Fruit of good size, solid fleshed, a good shipper. Sixty varieties 1,000,000 Trees, Strawberries, Plums and Apple Trees, Asparagus, etc. Write us at once for illustrated Catalogue—FREE.

HARRISON'S NURSERIES, Box 27, North, N.C.

### Extra Early Admiral Dewey

Originated and introduced by HARRY N. HAMMOND, Seedsman, Box 12, FIFIELD, MICH.

Largest grower of Seed Potatoes in America. The Dewey is the most wonderful New Potato. Its merits are fully described in Hammond's 1900 Catalogue. Free for the asking. Address as above. Write to-day. It is the variety of potatoes. Also Vegetable and Flower Seeds.

## BARGAIN FOR SEEDS.

NORTHERN CROWN.

Send your name on a postal, and we will make you a present of a Seed Due Bill, which when returned to us with only 16c in stamps entitles you to special 85c collection of choice seeds. Our object is to get you to look through our catalogue, and examine carefully our "Great Seed Bargain" offers. We allow you to use the "Due Bill" whether you send an order or not. Our plans are most liberal, and will interest all who are in need of seeds. Write at once for the due bill. T. J. KING CO., SEEDSMEN, Richmond, Va.

## ACME PULVERIZING HARROW, CLOD CRUSHER AND LEVELER

crushes, cuts, lifts, pulverizes, turns, aerates and levels all soils, for all purposes under all conditions. Made entirely of cast steel and wrought iron, they are indestructible. They are the cheapest and best riding harrows and pulverizers on earth. Various sizes, for various uses, 3 to 13 1/2 feet. We mail catalogue and booklet, "An Ideal Harrow," free.

SENT ON TRIAL TO BE RETURNED AT MY EXPENSE IF NOT ENTIRELY SATISFACTORY. I deliver free on board at New York, Chicago, Columbus, Louisville, Minneapolis, Kansas City, San Francisco, &c.

Address DUANE H. NASH, Sole Mfr., Millington, N. J. or Chicago, Ill. Please Mention This Paper.

## PLANT AND CULTIVATE

with a "Planet Jr." No. 25 Combination Hill and Drill Seeder and Double Wheel Hoe.

This is the latest addition to the famous "PLANET JR." line, and like all its predecessors it is the best thing of the kind for the purpose. It is intended for those gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to great advantage, and yet prefer not to buy a Wheel Hoe. It is large enough for field use as it holds 2 1/2 quarts (or about 5 lbs. onion seed) and has 11 1/2 in. wheels—just the right size. As a drill it is almost identical with the "PLANET JR." No. 4 Drill. Sows in drills or hills 4, 6, 8, 12 or 24 inches apart. Has automatic device for throwing out of gear, now combined cut-off, seed index with thumb-screw attachment, &c. Thoroughly substantial and marvelously accurate in sowing all kinds of garden seeds in either hills or drills. As a Wheel Hoe it is identical with the "PLANET JR." No. 12 Double Wheel Hoe which is the very best machine on the market. Can be changed from Drill to Wheel Hoe in a moment. We heartily recommend this combination and guarantee it to be satisfactory.

We have just issued 250,000 copies of our new 1900 "PLANET JR." catalogue which in addition to being a work of art is a most valuable guide and reference book for farmers, gardeners, planters, orchardists, etc. Tells all about our full line of Seed Drills, Wheel Hoes, Horse Hoes, Cultivators, Harrows, Two-Horse Cultivators, Sugar Beet Seeders, Four Row Beet Cultivators, &c. Illustrations show how they are used in this and in foreign countries. We mail a copy of the catalogue free on request. Better write for it at once. Has 16 full pages of beautiful pictures.

S. L. ALLEN & COMPANY, Box 1167-K, PHILADELPHIA, PA.

Among the Farmers.

MICHIGAN FARM AFFAIRS.

Grand Traverse Co is in the north-western part of the lower peninsula of Mich. Its chief industries have been lumbering and sawmills, but that time is now past and it is becoming famous for its agricultural resources.

Winter open to Jan 15 in Ionia Co and has been greatly enjoyed. Rural mail delivery is hailed with great satisfaction by those along the route.

West Virginia is having fine sleighing in Greenbrier Co. The beginning of the new year brings most of our business men in talking distance of each other, as well as many farmers, by the use of the telephone on almost every county road in the county.

Greenbrier Co bids fair to excel any county in the state as a farming section, being also very healthy for man and beast. Feed sufficient for stock, disease not reported and stock doing well.

Ohio-The new year came in in Mahoning Co with old-fashioned winter weather. Thermometer hugged zero pretty close for 10 days. No snow to cover wheat to amount to anything.

A Highly Successful application of the method of selling direct from the factory, without the intervention of middlemen, has been made by the Columbus Carriage and Harness Co of Columbus, O.

OUR RECENT INVESTIGATION

Of the Remarkable Ohio Invention, Described in a Former Issue, Was So Very Satisfactory We Have No Hesitancy in Indorsing the Same as Just What All Our Readers Need.

It is Truly a God-send to All Humanity, and the Greatest Blessing Ever Bestowed Upon Man, Woman or Child.

Many letters have reached us concerning this wonderful cabinet, described in a former issue. A searching investigation has been made, and we can assure our readers it is just as represented and everything claimed for it.

All who want to have perfect health, a clear skin, beautiful complexion, prevent colds, fevers, la grippe and disease, and enjoy all the marvellous, cleansing, beautifying and curative elements of the famous Turkish, Russian, sulphur vapor baths, perfumed or medicated if desired, at home, in your own room for 3 cents each, should have one of the remarkable 1922 style square Quaker Turkish bath cabinets.

Water baths simply wash the surface. The cabinet bath, perfectly safe both summer and winter, opens the 5,000,000 pores of the skin, sweats out all the poisons and effects matter which cause disease.



cleanses you inwardly and outwardly, purifies your blood, makes your eyes bright, your skin clear, your nerves strong, sleep sound, appetite good. One person's use will make a new being of you.

This is a genuine cabinet, with a real door, handsome, made of best materials; rubber lined; heavy steel frame; top curtains, in fact, all the latest improvements, will last 25 years; not a cheap, flimsy affair, but strong, substantial, ready for use when received.

Over 27,000 physicians and 1,000,000 happy users recommend this cabinet for bathing purposes.

Dr A. B. Stockham, Chicago, editor of Toxology, recommends it highly; as also does Hon. B. F. Shipley, Maroa, Ill; Rev. H. Gardner, well-known evangelist; M. C. Gropner, M. D., 33 Center street, Boston; Congressman John J. Lewis and thousands of others.

Mrs. S. H. Tripler, 36 Park row, New York city, had rheumatism and other troubles 20 years, was cured in one week, says this cabinet is a Godsend to every woman, worth \$1000.

G. M. Lafferty, Covington, Ky, was compelled to quit business, walked on crutches, drugs and doctors failed, was relieved by the first bath, entirely cured in 14 days.

J. W. Van Tassel cured himself of lumbago and his friends of blood and skin diseases, kidney affections, nervousness, piles, etc, and made \$1300 selling this cabinet in five months. No one afflicted can afford to be without this cabinet for a single day.

The makers guarantee results and assert positively, as do thousands of users, that this cabinet will cure nervousness, weakness, aches, pains, colds and rheumatism (they offer \$50 reward for a case not relieved). Purifies the blood, cures sleeplessness, la grippe, neuralgia, headaches, indigestion, piles, dropsy, all blood, skin, liver, kidney and urinary troubles. Has wonderful power to prevent and cure women's complaints.

A face and head steamer is furnished if desired, which cleanses the skin, beautifies complexion, removes pimples, blackheads, eruptions, and is a sure cure for all skin diseases, eczema, catarrh, asthma, bronchitis and throat troubles.

All our readers should write to-day to the World Mfg Co., 112 World building, Cincinnati, O, for valuable book and testimonials; or better still, order a cabinet at once.

The price is wonderfully low. It is a regular \$12 cabinet for \$4.95, complete with steams, formulas for baths and various ailments, and plain directions. Free steam, \$1 extra.

This firm is perfectly reliable: capital \$100,000.00. Ships same day your remittance is received, and returns your money after 30 days' use if the cabinet is not just as represented. Send for booklet anyway.

The cabinet is a wonderful seller for agents, and the firm offers special inducements to both men and women users, request, and to our knowledge many are making from \$100 to \$150 every month and on.



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"LEADER" loaded with Smokeless powder and "NEW RIVAL" loaded with Black powder. Superior to all other brands for

UNIFORMITY, RELIABILITY AND STRONG SHOOTING QUALITIES.

Winchester Shells are for sale by all dealers. Insist upon having them when you buy and you will get the best.

NEW STRAWBERRY "ROUGH RIDER" LEANS ALL. It is the strongest, safest and best shooting strawberry powder...

FIRE, WEATHER, and Lightning Proof. Metal Ceilings and Side Walls. In elegant designs. Write for Catalogue.

THE SOUTHERN FIELD. A Weekly Journal giving general and reliable information about the states of Alabama, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

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.

RINGBONE—J. W. M. has some cattle which are affected by scab, which begins on the nose and around the eyes, the hair drops out, leaving a hard, dry, gray surface. Take a blunt knife and scrape off the scurf of the parts, then paint it well with tincture of iodine. One application is usually enough, but if not, repeat the iodine again in about a week.

CHRONIC CATARRH—A. M. has a calf which has a cough and a yellow discharge from its nose; the skin is rough with scabs and the joints are stiff. Steam the nostrils with hot water, say 1/2 a pail; put 1 oz turpentine in this and hold the calf's head over it for 15 minutes; repeat this operation twice a day for a week or two. Also give a tablespoonful each of tincture of gentian, ginger and tincture chloride of iron at a dose twice a day in 1 pt oatmeal gruel, also boil flaxseed and mix it into a mash with bran.

STIFFNESS—T. G. has a horse which is stiff in the hind leg, the horse cannot lift his leg over a foot high. It is impossible from the meager description to form an opinion as to the cause of the trouble. If T. G. will give a full description of the case, I will be glad to advise him.

CHRONIC COUGH—J. K. R. has a colt which is thin in flesh and has had a cough for several months. Boll a teacupful of flaxseed into a pulp and while hot pour it on one-half a pail of bran and make a mash of it. Give the colt a mash of this kind once a day and put two tablespoonfuls of Fowler's solution of arsenic in it, continue this treatment for a month if necessary.

OPHTHALMIA—C. S., Jr. has a mare 13 yrs old which has weak eyes, at times she is almost blind in one of them. Bathe the eyes twice a day with cold water and after each bathing put a little of the following lotion into the eyes, either with a dropper or a feather: Acetate of lead 10 gr, tincture of opium 10 drops and water 2 oz. Also give 1 dr sulphate of iron at a dose twice a day in a small bran mash and continue it for a month.

CRAIPTS—W. H. A. has a horse which shows symptoms of pain by switching his tail and jumping around, this usually comes on after he has been driven a few miles. Give 1 oz aloes, 1 oz ginger and 1/2 oz carbonate of soda dissolve this in hot water and give at one dose. Also mix 4 oz nitrate of potassium, 4 oz of sulphate of iron and 2 oz of nux vomica, divide into 24 doses and give one at night in bran mash. Feed good hay and oats but not too much, and water before feeding.

SORE FOOT—A. McI. has a colt which got its foot hurt 3 mos ago. It heals and breaks out again; the spot is just above the hoof, in front of the foot. Take a small probe and find the depth and direction of the opening. Then roll up 2 gr bichloride of mercury in a small piece of tissue paper and press it into the opening. Repeat this operation once every third day until the unhealthy part is destroyed. Then mix 1 dr chloride of zinc with 1/2 pt water, and apply a little to the sore twice a day.

CHRONIC DIARRHEA—A. S. has a horse which has chronic diarrhea. Give 1 qt raw linseed oil and 2 oz tincture of opium at a dose. After this operation, give 1 dr each of sulphuric acid and sulphate of iron at a dose twice a day in 1 qt thin starch gruel. Continue this for two weeks if necessary.

Talks with Our Lawyer

TRIMMING HEDGE FENCE.

If a hedge between the farms of A and B of Mo is wholly upon the land of A, B has no right to cut or trim said hedge unless the same grows over upon B's land. B would be liable in damages for interfering with said hedge, and if he sets his dog upon cattle on A's land, he would be liable for any injury thereto. If A's chickens go on B's land and destroy grain, B can recover from A the value of the grain as damages.

MISCELLANEOUS—Ohio Reader: The trustee on a bond of a guardian may be released as to future liability under said bond, by appealing to the probate or county court, appointing said guardian, for their release and discharge as bondsmen.—C. B. G., Mich: Without having the name before us, we cannot advise as to the rights of the various parties to the coal mine.—If the person who inquires what the rights of husband and wife are

under a joint deed to 120 a of land will, after restating the case, give the state in which the land is situated, we shall be pleased to answer his question.

PLANTS ON LEASED LAND—J. S., N H: A tenant leases a farm and sets out shrubbery, small fruits, currants, etc. If the tenant pays his rent in full, can he remove the shrubbery, etc. before his term expires? The courts would probably hold the property not removable.

COLLECTING WAGES—C. C., N Y: A and B, husband and wife, hire out to C for a certain sum a month. A has not been able to work all the time because C's horse will not work out in the p.m. Can C refuse to pay A for that reason? No, it is not A's fault.

FENCE—H. M. K., Vt: A owns a wood-lot adjoining pasture land of B. B's cattle overrun A's land at will, to which A does not object. Can A be compelled to contribute to the expense of a fence? Not until he is ordered to do so by the fence viewers, and under these circumstances they probably would not so order.

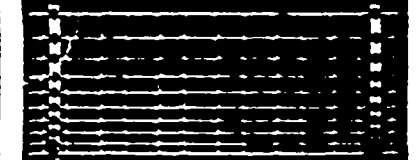
MISCELLANEOUS QUERIES—R., R I: The owner of certain land has not paid any taxes on it for several years. Can back taxes be collected now? Yes. The land can be sold for such taxes.—T., Fairfield Co., Ct: If you were married before April 20, 1877, you have a life estate in your deceased wife's real estate.—Subscriber, Mo: There is a well on A's land. His neighbor, B, has used it for 25 years, and C, from whom B bought, used it for 50 yrs before that by permission of the then owner. A has now filled up the well. Can B do anything about it? No. A has a right to fill up his own well.

HAS NO EQUAL For Spavins, Ringbone Splints, Curbs, and all forms of Lameness, hocks or any enlargement. KENDALL'S SPAVIN CURE. Includes image of a horse and a bottle of the cure.

Horse Powers, THRESHING MACHINES and WOOD-SAWING MACHINES. Includes image of a horse-drawn machine.

If you want the best power in the world for running cream separator, gasoline engine, or wood saw, try our horse power. Fastest running, best material, and will do the most work of any in the market. A. W. GRAY'S SONS, PATENTERS AND SOLE MANUFACTURERS, P.O. Box 45, MIDDLETOWN SPRINGS, N.Y.

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THE DEALER IS AGAINST US because we sell you who have direct from the factory at wholesale prices.

ADVANCE FENCE

Direct from us just as cheap as the dealer can. This makes a saving that will amount to something and a postal card will bring you circulars and prices. ADVANCE FENCE COMPANY, 117 Old Street, Peoria, Ill.

Fence Machine that will cut 100 rods per day out of barbed wire, galvanized, or any other wire. Includes image of the machine.

AN APPEAL TO HUMANITY GENERALLY

We need your assistance in announcing to the world the GREATEST REMEDY that Science has ever produced, and you need our assistance to secure relief for yourself and friends through SWANSON'S "5 DROPS."

A REMEDY SUPREME

As surely as the American Navy has conquered and will conquer all that opposes it, so will "5 DROPS" unfailingly conquer all diseases like Rheumatism, Sciatica, Neuralgia, Lumbago, Catarrh of all kinds, ASTHMA, Dyspepsia, Backache, Sleeplessness, Nervousness, Heart Weakness, Toothache, Earache, Creeping Numbness, Bronchitis, Liver and Kidney Troubles, etc., etc., or any disease for which we recommend it. "5 DROPS" is the name and the dose. "5 DROPS" is perfectly harmless. It does not contain Salicylate of Soda nor Opiates in any form. The Child can use it as well as the Adult.



(TRADE MARK)

Read carefully what Mr. L. R. Smith, of El Dorado Springs, Mo., writes us under date of Nov. 27, 1899, also Martan Bowers, of Caraghar, Ohio, under date of Dec. 16th, 1899:

Neuralgia! RHEUMATISM I do not know how to express how wonderful I think your "5 DROPS" medicine is. I was suffering intensely with NEURALGIA and thought for a month that I would have to die. One day a lady called to see me and brought me an advertisement of your "5 DROPS." I resolved to try it and sent for a sample bottle. I have been taking it for three weeks and have not had an attack of suffering since I took the first dose. I believe it has saved my life. This statement is positively true. I shall also take pleasure in recommending your "5 DROPS" for the cure of NEURALGIA. L. R. SMITH, El Dorado Springs, Mo., Nov. 27, 1899. Your "5 DROPS" came to hand on the 11th of last month and was glad to receive it for I was suffering at the time with untold agonies. The first dose wiped me out of my pain on short notice. Bless the name of God for it. It will do all you say it will, and more too. I had severe pains all over my body, when night came I could not sleep. The worst pain was in my left leg. I could not put my foot to the floor without suffering great pain. I have tried four different kinds of medicine for RHEUMATISM and got no relief until I got your "5 DROPS" which gave me immediate relief as above stated. MARTAN BOWERS, Box 51, Caraghar, Ohio. Dec. 16, 1899. 30 DAYS to enable sufferers to give "5 DROPS" at least a trial, we will send a sample bottle, prepaid by mail for 25c. A sample bottle will convince you. Also, large bottles (300 doses) \$1.00, 4 bottles for \$4. Sold by druggists and agents. AGENTS WANTED in New Territory. Don't wait! Write now! SWANSON RHEUMATIC CURE CO., 100 to 104 Lake St., CHICAGO, ILL.

The Best Fence is the Only Fence. Includes diagram of fence heights (26, 30, 34, 38 inches) and text: you can afford to put on your farms, plantations or ranches. Anything less than the best means continued trouble for you. The Ellwood Steel Fences are made of spring steel especially drawn for this fence. Galvanizing and weaving are perfect, insuring longest life to the fence. Costs no more than makeshifts. Sold by our agents in every town. If you fail to find an agent in your town write to the manufacturers. American Steel and Wire Co., CHICAGO, NEW YORK, SAN FRANCISCO.

WOOD FRAME SPRING TOOTH HARROW. The original and still the best harrow of its kind. All wood and best seasoned white oak. Teeth of best oil tempered steel. Provided with guards. Comes with wheels for holding teeth. Strong, durable and self-cleaning. Send for circular and price. The supply is limited. Large ground outside of factory. CASH SUPPLY AND MANUFACTURING CO., Dept. L, KALAMAZOO, MICH.

AN AUTOMATIC SULKY PLANT. A labor saving and money saving. This all-weather sulkies of every kind of load. Invaluable to the straw berry man. Splendid for wood fields in spring—makes it steel out perfectly. Increasing yield. Not best sulkies to use, can't be used. Works in every soil. All parts best of material. Cash price \$7.50. Freight out of Mo. River and north of Ohio River only \$10 to \$12. Write for big catalogue. CASH SUPPLY AND MANUFACTURING CO., Dept. L, KALAMAZOO, MICH.

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# Running an Emigrant Train.

By Will Templar.

**I**MMIGRATION was at its height during the late sixties and early seventies [said the old conductor], and the eight years that I put in running the emigrant train were the most interesting of my life. A strangely mixed and curious lot those emigrants were, and Castle Garden poured forth her thousands of them, westward, no every day in those days. There were a good many Russian Jews, sometimes two or three carloads of them, but for the most part they were from northern Europe,—Germans, Austrians, Danes and Scandinavians with some English, Irish and Scotch. I think the Swedes and Norwegians were the best that came; they were generally passably clean, intelligent and easy to get along with, and moreover, there were almost always some among them who could speak a little English.

At best a loaded emigrant car is not a pleasant place for one not accustomed to the food and ways of life of its passengers. More than half the passengers on the car are children. It is wonderful to see the size of some of the families. And babies fret and cry, older children play about or lie sleeping on the floor, while tired mothers scold and indifferent fathers occasionally rouse themselves sufficiently to administer a cuff or a spanking to some obstreperous youngster, adding their guttural voice to the general confusion. For the most part they are simple, honest people, viewing everything in this, to them, new, strange world with lively curiosity, those who speak English making the conductor's life a burden with their endless questions as to the names of stations, streams, mountains and the like.

Not all emigrants are simple and honest any more than other people. Occasionally an expert swindler or thief is found among them, or some rascally Americanized foreigner will pose as an emigrant in order to rob and defraud some gulleless greenhorn. In such cases, the conductor having charge of the train is in duty bound to protect the innocent to the best of his ability. My memory recalls several instances when I was called upon to exercise the function of protector, and I look back on one of these cases with peculiar satisfaction.

I was in the employ of the New York Central railroad company, and it was my duty to take charge of the emigrant train at Albany and run it to Syracuse. One day when we had a heavy train of mixed nationalities, I took particular notice of three Swedes who had turned a seat and were thus sitting in a group. Why I noticed them particularly was from the fact that one of them spoke very good English and asked me a number of questions.

Across the aisle from the Swedes sat a villainous looking Irishman with a great shock of fiery red hair, with a scraggy beard and mustache to match. This man had taken off his cap, and as he raised his head when he gave me his ticket to a point north of Utica, I noticed a peculiar jagged scar on his forehead near the edge of the hair. When I returned from my round the Irishman was drinking at the water tank at the end of the car farthest from his seat. He walked before me down the aisle, and without knowing why I observed that his clothing was of some coarse gray material, well worn, and that he had a peculiar gait, swinging his shoulders from side to side as he walked.

When I returned to the car half an hour later, he of the red hair and beard had dropped into the vacant seat beside the English speaking Swede, and the two were apparently on the most friendly of terms. As I passed them I overheard the Swede say, "Dat iss all I haf." "Ye'll have less when yet gits to Minnesota," said the Irishman, "for it ain't worth anything there."

I passed on and thought nothing of what I had heard until the train had passed Utica, when the Swede came to me with a troubled face. "Where iss dat man wat haf got my—my wat you call money?" he asked. "That has your money!" I said. "Yah, I haf had four pieces of gold, wat you say he is vort ten dollar. One man sit by me an say, dis money is no good vere I go in Minnesota. He say I skal gif him my gold. He haf a man in Utica wat will shange mine gold for Minnesota money; so I gif him mine four gold pieces and he go out and come back not."

I grasped the situation at once and called one of my trainmen. "Billy," I said, "did you notice a fellow in the third coach, first seat, left hand side?" Billy thought a moment, then he said: "Big feller, wasn't he, wore gray clothes, a cap, had a big red mustache an' was owin' the barber fur a fortnight's shave, that him, why?" "Well, he's got forty dollars of this poor devil's money, that's all. He has a through ticket for the northern road and his train won't leave Utica till nearly 4 o'clock. If you think you can recognize our man, you'd better get off at Rome, and taking this fellow with you, go back to Utica. Put the police onto the man with the gray clothes and red mustache and do your best to nab him yourselves."

"I'm yer huckleberry," cried Billy, delighted with the prospect of an adventure, and a few minutes later he and the Swede dropped off at Rome, where they had but a short time to wait for an east-bound train.

Almost every man has faith in his own ability, and where one is personally interested in an affair at a distance, it is better to go than to send. As the "emigrant" went bumping and jolting up the road that day my thoughts were mostly of the poor simple Swede and his loss. I had, too, taken an instinctive dislike to the man who so deceived and robbed him, and by the time Syracuse was reached I had determined that my presence in Utica was imperative. I had scarcely time to report my train in and catch the east-bound express, but made it, and landed in Utica fully an hour before the train on the northern road was due to leave. I went straight to police headquarters.

Billy had been there, the officer in charge said, and a description of the man wanted had been given to every officer on duty. All places of questionable resort had been visited, the depot was being shadowed, but up to that time our man had not been found.

Out on the street I ran across Billy and the Swede to hear the same story—they couldn't find him. I told them not to give up the search, but to meet me at the depot just before the going of the northern train, then I went to a hotel opposite the railway station and sat down to waiting and watching at a window where the depot entrance was in full view.

I had sat there for a full half hour closely scanning every passerby, and it was nearing train time when a well dressed man went by. He wore a new suit of some dark material, a new soft hat sat jauntily upon his close-cropped dark hair, his heavy black mustache was waxed in the most approved fashion and he carried a new leather satchel. I watched him carefully until he turned to cross the street, and then I fairly bounded out of my chair. The black-haired gentleman clad in dark clothes had the same peculiar swing of the shoulders I had observed in our red-headed man in light clothes, and I knew they were the same.

Waiting until the man had entered the depot I sauntered after him. Billy, the Swede and two policemen were there, but the answer to my inquiries was that the man could not be found. "He is in this room," I said in a low tone.

Billy jumped and the officers began to look around the room. "Come on!" drawled Billy, "what are ye givin' us? He ain't in this room."

"What do you think of that fellow studying the time table there?" I demanded, indicating the man I had seen come in. "Think yer crazy," said Billy promptly. "Why, the feller we want is a red-headed, red-muzzled gal" in gray clothes and this is everything but that." "Dat iss not hlem," chimed in the Swede solemnly.

"It is the man!" I said turning to the officers. "Arrest him. I will become responsible for all mistake!" He was still standing with his back

to us, apparently unconscious of our presence when the officer touched him on the arm and said, "You are wanted, my man. Come with me."

The fellow turned with a snarl, but pale to the lips, "What the — do yez want wid me?" he demanded.

"Oh, you'll find out soon enough," said the officer, pleasantly. "Will you come quietly or must we take you?"

With a sudden effort the fellow wrenched himself loose, but the officer's companion was upon him, and in a trice he was securely handcuffed, protesting the while his innocence in threats and curses.

"Conductor," said one of the officers, "have you any doubts of this being the man wanted?"

I stepped up without a word and lifted the prisoner's hat. There across his forehead appeared the jagged scar I had noticed before. "There is no doubt about it," I said. "Take him along."

He wilted completely then. "Aw, conductor, an' ye have me foul. I did yield to temptation an' swiped the greenhorn's stuff, but ye're too much for me," he whimpered. Then he told us how, when he left the train, he had gone straight to a barber shop, been shaved, had his hair cut and colored, together with his moustache. He had patronized in turn a hat store, a shoe shop and a clothing house. Thus newly clad inside and out, he had stepped into the street carrying his old clothes in a little grip. He had met Billy and the Swede a half dozen times and neither they nor the officers had given him a second glance.

He was willing to make all the restitution in his power, and we took him successively to the stores he had patronized, where the different merchants kindly took back their goods and refunded the money upon the situation being explained to them. At the cloth-

ing store a second suit of new clothes was found under the one he had bought, stolen while changing his garb in the back of the store and which the dealer had not yet missed. Altogether he was a pretty slick rascal and might have gone scot free if it had not been for the peculiar swing of his shoulders.

As it was, the Swede recovered \$37.43 of his money and went on his way. Billy and I got the first train east and our clever Irishman got 183 days in the penitentiary at hard labor.

## CHARADES.

[The answers will be given in our next issue. The answers to the two charades in the Jan 1 issue are "gentleman" and "gentlewoman."]

My first, perhaps not to your mind, Through practice you are more inclined. Then never from its bondage free Unless my second you shall be, And if you seek a place to dwell My whole will make it suit you well.

My first, because it went before, Bade error go along, Then all that followed lost their way And everything went wrong. But when my second took command All lesser lights were dim, And humbly yielding to his sway Obsequence did to him. But, oh! the harm wrought We ever must deplore, And when my whole stands thus revealed

We hate him more and more. ANNE H. WOODRUFF.

Bride (throwing her arms about the bridegroom's neck). You are my prisoner for life. Bridegroom: It's not imprisonment for life, love, it's capital punishment.

# Hypnotism

## THE WONDER-SCIENCE OF OUR AGE.



Reader, would you wish to become a Hypnotist? Would you wish to wield the joy and power of holding a vast power for good? Would you like to wield a spell more mysterious than any magic, more subtle than any sorcery, more wonderful than any so-called witchcraft, and yet only the simple, kindly force of a recognized natural law? Do you know the true nature and worth of the Science of Hypnotism? Would you prize its benefits if you could realize them? For instance, do you love to penetrate the motives and sentiments of persons around you? Do you like to fathom the minds of those you meet in business or society? Do you value control over others? Do you value the means of securing friendship, love and personal influence? Do you value the power to soothe pain and banish sickness, to reform a misguided friend, to gain business success, to win wealth, position and happiness? If you do you must learn to Hypnotize. Why not? No other accomplishment is so easily acquired. It can be mastered in a few hours' time, without leaving your home. It costs nothing to find out all about it. The greatest vantage of the century has just landed in book form a large and exhaustive TREATISE ON INSTRUCTOR IN HYPNOTISM, covering the whole ground of the science, and he will send it while the edition lasts absolutely FREE TO ALL who apply. The book is profusely illustrated, contains hundreds of beautiful engravings, and shows as never was done before the principles, theories, methods, and uses of this mysterious science, all in a popular and pleasing style. It tells you just what Hypnotism is and what you may accomplish with it. It shows you how you may sway the minds of others, perform astounding feats, and produce amusement by the best, new and instantaneous methods. Success absolutely guaranteed. Remember, this grand work costs you nothing. It benefits everybody who reads it. If you are in touch with the wonder-science of the age, read it anyhow. It is absolutely FREE. A postal card will bring it by return mail, all charges paid. Send for this wonderful book to-day and learn to Hypnotize.

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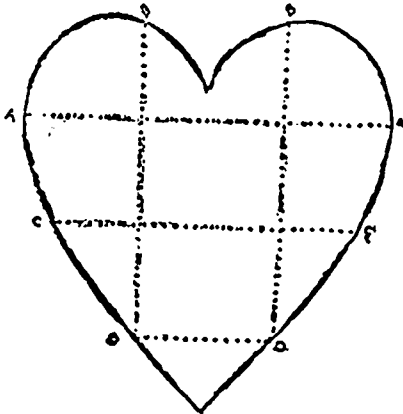


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A VALENTINE PARTY.

About 25 young people received invitations to Bessie Long's valentine party. The invitations were written on large paper hearts, then folded into a



square and sealed. The accompanying design shows the way in which this was done. Fold the top down across the dotted line A A, then the sides over from the lines B B, then the top down again from C C, and lastly the point upward from D D. A drop of sealing wax at the place where the point touches the paper sufficiently fastens the whole.

The guests were ushered into a room the walls of which were quaintly adorned with valentines of all sizes, shapes, kinds, colors and ages. These were the property of the Long family and were owned by various members of the family, from dear old grandmother down to Baby Willie. Much amusement was gained from a study of the host of love tokens, and grandma soon had an eager crowd about her clamoring for stories of some of the quaint old valentines that the long-ago lover of her youth had sent to her. Tender little stories they were, with now and then a merry one sandwiched in between.

When interest in this amusement began to wane, the guests were seated at little tables by fours and told to see which should be the quickest to evolve complete hearts from the ruins before them. In the center of each table was a pile of bits of cardboard of all shapes and colors. These were to be put together in shape, and the table using up all of its bits soonest was to have a prize, which went to the person at that table who had set up the most of those on the table. Each pile contained nine hearts, so that it was impossible for all to have an equal number. The prize consisted of a very handsome valentine.

Another game consisted of a large heart about three feet across on which appeared the outline drawings of some 40 small hearts. This was placed in the middle of a large table together with a pretty dish full of small hearts. The players gathered about the table and endeavored to fit the cut-out hearts into the outlines. Each player in turn picked up a heart and had three trials to fit it where it belonged. As the hearts were so nearly the same size this was a puzzling trick. If he succeeded in three trials he might try again. If unsuccessful he must slip the heart beneath the pile and let some one else try. Tally was kept by a pile of small candy hearts, one of which was given to each person who matched a heart successfully. These were kept till the end of the game, and the person holding most of them was entitled to a prize. As a reward he was solemnly presented with a large heart of white gum. This and the mottoes on the candy hearts of course only added to the fun.

During the evening a lunch was served consisting of cakes, cream and tarts. These last were brought in by a maiden dressed to represent the queen of hearts. Two kinds of cakes, both decorated with hearts, and one being heart-shaped, were served with the cream. After this was brought in a large sponge cake, which contained two prizes, a silver friendship heart and a little silk pin. It chanced that the two prizes fell to the lot of a young man and girl who happened to be great

friends, if not more, and so a great deal of fun was made of them, as the assertion was made beforehand that the two winners would be the first to be married, but that they would never wed one another.

Just before leaving, Cupid's postman came around and distributed comic valentines to all as souvenirs of the occasion. These were made by the hostess, who is quite an artist, and were really comic, consisting of cunning fat cupids in various occupations and each accompanied with verses suitable to the subject of the party. For instance, one showed a cupid hiding behind a great rose bush and watching the struggles of a charming little fairy who was vainly trying to escape from a fancy mouse trap. With it was the quotation, "Some Cupid kills with arrows, some with traps." After the valentines were all examined the guests melted away into the silent night, chattering merrily of the pleasant time just past.—[Myrtle.

FROM OUR YOUNG AMERICANS.

**Scottish Chiefs**—I think Cooper's Leather Stocking Tales delightful. But what could be more sad and thrilling than Uncle Tom's Cabin? The pathos of some parts, especially the life and death of little Eva, is sublime. Have you read Scottish Chiefs? If you have not, you will never know what a treat you have missed until you do read it. It is the most thrillingly pathetic book I ever read, and any one who could read it without crying is harder-hearted than I am. That Sour Seventeen may know I am near her age, I will remark I am —[Sweet Seventeen, Wyoming.

**Younger Readers**—I am one of those girls that likes to be out-doors with papa. I have a sister named Zilpha. She is 12 years old. And I have very many pets I am fond of. [Delta Doan, Michigan.



My mamma died when I was four years old, and I live with my grandma and grandpa on a farm. I have a little sister younger than I am. Her name is Clare. Don't you think it a pretty name? She lives in Manitoba and I live in Ontario.—[Mary C. Bolton, Ten.

We have lots of buffalo and cactuses where I live, and pretty wild flowers, but not any trees yet. I had a birthday party the first day of June. It was my eighth birthday. There were 32 here, and I got 30 presents. I had a trolley car swing and teeter board, and we had lots of fun.—[Florence E. Rummell, Nebraska.

I was riding a balky horse the other day, and she fell down with me, and nearly broke my arm. I am not as fond of riding her as I was. I have a large doll and her name is Mabel. I do not play with her at all, as I think she is too nice and I am too large.—[Alta Lorina Clark, Oregon.

I have a little doll that I named Leona. I have three brothers and one sister. My sister's name is Clarice. My brothers' names are Elzie, Leslie and Wayne. I am nine years old to-day. Papa has six horses and one colt. School will commence to-morrow. I am going to speak a piece entitled The reaper and the flowers. If I see this printed I will write again.—[Lennie Webster.

I have read many poems, but I like Tennyson's best, such as Enoch Arden. If any of you have read this poem you can just understand my feeling exactly. Longfellow will do to compare with Tennyson. I am in the eighth grade, but our school is dismissed at present on account of small-pox. How I hated that to occur!—[A. D. Lingel.

I go to the Edward Everett school on Summer street, Dorchester, Mass. I like all the scholars. Five or six of us have great sport between school hours. I have not any real favorites in my room, but like them all.—[American Girl, Twelve.

I had a flock of hens, but when we moved I had to sell them. I felt awfully bad, especially about the one I had named Dewey. I go to school and

have a long way to go. I carry my dinner and don't get home till most dark. I don't have much time to do housework, do I? But I help mamma and papa all I can. I am taking music lessons, and have all my practice to do after school.—[Maud C. Clare, Maine.

I like to read Robinson Crusoe, Boots and Saddles and American Family Robinson. I do not like It. Louis Stevenson. I have all of his works.—[Nebraska Tough.

I like to ride horses and am a good rider. Scott is my favorite author. How many of the Y A's have read the Lady of the Lake, by Scott?—[C. Campbell (Twelve), Washington.

**Troublesome**—Some of you Y A's said that you believed you could read for a week. I believe I could read for a month. Water Lily, what on earth do you want to fall in love at 14 for? For my part, I think it is very troublesome to fall in love. I don't think there is any chance of chronic whispering dying out in our school, or chronic giggling either. The latter is not confined to schools alone. I play a great deal on the organ. I am very much fonder of poetry than of prose, though I like prose, too. My teacher doesn't like me to read novels now. He says it interferes with my studies. I do not in the least understand about the letter circles. Where do you direct them to?—[Virginia James.



Address Letter Circle Dept, F & H, sending 10c, age and address, then we put you in a circle of other boys and girls, sending full particulars for corresponding.

**Deceitful Girls**—The trouble with a great many girls of today is their deceit. I very much dislike deceitful girls. Shakespeare says, "To thine own self be true, and it follows as the night the day, thou canst not be false to any man." When the boy who has been deceived awakes to his folly and laments his sad mistake, then, in the horrors of anguish, when his last hopes are fleeing from him will he smite himself and repent, "Vanity, vanity! Behold, all things are vain." Boys, beware of deceitful girls. Woe unto girls because of their deceit. Think of these lines from Hamlet:

"Thinkest thou there are no serpents in this world. But those who glide along the grassy sod And sting the luckless foot that presses them? There are who in the path of social life Do hawk their spotted skins in fortune's sun, And sting the soul, ay, till its healthful frame Is changed to secret festering sore disease. So deadly is the wound!" [Vernon Mangun.

**The High School Corner**—Fenimore Cooper is my favorite novelist and Longfellow my favorite poet. I also enjoyed Miss Alcott's Little Women very much. I live in the country and enjoy riding my wheel in summer and skating in the winter. Please let us hear from Eva Claiborne and her wonderful school soon again. Hurrah for the high school corner.—[Brown-Eyed Jess.

This is my first year in high school. I have a great deal of fun at school, but it is not all fun either. There is some pretty difficult work, too, at school. I am also secretary of the Reformed Sunday school and attend as regularly as possible.—[Young American, Ohio.

I am like Fred S., and I like to play Hobson with the young ladies. How many of our young readers like to dance? I am very fond of it, and I take in all the dances around about. I go to school. I am in my sophomore year in the Salamanca high school. I intend to go to Yale and be like Frank Merriwell, the hero of Hurl S. Standish's works.—[Charles Burnham, New York.

I would like to write to you, Ontario Dorothy. I am a Hoosier state high school girl (16) and your tastes are mine. I love vocal music, study literature, draw, and have my own saddle

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Snyder, Puff, Cuts and Bonnie.

horse. Ray has not written; I think I recognize him even by the few letters he has sent—he is a jolly good fellow. Eva Claiborne is strictly literary, I suppose—probably that and her "going somewhere" is why she is still at geography. Fred Swanson has raised a din about his ears. You will kiss the girls, if I were a boy, I'd "keep my peepers peeled" for a girl like Minnie Young. She is a good housekeeper.—[Pert, Indiana.

I am in high school and will graduate in two years. My favorite authors are M. J. Holmes, W. Clark Russell, H. W. Longfellow and Edgar A. Poe. I think Longfellow's Evangeline just fine. Poor little misguided Water Lily does not know that to be "fast" isn't anything to be proud of. The man who pretends to love you will betray you with a Judas kiss. He just likes you because you are fast. A very bright girl of our class in school was like you and boasted of being fast. She was expelled from school and the boys who pretended to care for her swore against her in her trial before the school board. [Little "Billie," Oregon.

Water Lily would not make love to my teacher in high school, for he is as cross as two sticks. If he sees a boy walking home with a girl he nearly takes a fit. I agree with Little Southerner that school days are the happiest. My author is Scott, and I think that Louisa. Alcott is fine. There is going to be an entertainment given for the benefit of the orphans, and we are going to dramatize Rose in Bloom. I am going to be Rose and my brother is going to be Prince Charming. I love music and play a great deal. I like the piano and violin best. My brother plays the violin and I the piano.—[Marguerite.

Elocutionist—I am an elocutionist and singer. Anyone would know that by my big, blue, melancholy eyes, but they're not so melancholy as they seem. I play an organ and ride a bike for amusement, and I love to skate. I do all kinds of housework and baking, and I live on a lovely farm, but I do love fun and a good time, and it's mostly always that way with me. Water Lily, I advise you to wait a few years before you keep company. It would be better for you. I was rather dirty myself once, but I lived it down and I never regretted it, for I have a much better time now. Your time now should be devoted to your studies. [Blue Eyes (Sixteen), New York.



Snyder—A brindie and white English bulldog, seven years old, is Snyder. He is very intelligent, and knows lots of tricks: he will shake hands, speak, shake his ears, roll over either way we tell him, be dead, sit up and hold up his hands the way the robbers make people do out west, walk on his hind feet, be Jack Horner, open his mouth wide to show his teeth, catch food that is put on his nose, etc. He lives in the village in winter and on a farm in summer, and is as much interested in

farm work as anyone. They all say he is a hard boss: if the men don't work fast enough to suit him, he will bark. Snyder has killed 46 woodchucks this summer that we know about. He is fond of sweet corn and will go to the garden, pick an ear and bring it to his mistress to husk for him. He likes to have his picture taken and will sit perfectly still if the cat is not around with kittens, at other times they are good friends. In this picture he is afraid of being scratched. The large cat is Puff, the other is Cute, Bonnie is ready to play with her mother, Dixie would like a nap, and Snyder is not happy: he would rather be somewhere else.—[Etta M. Howard.

A Little Silly—I am going to try and be a teacher. Ever since I have been old enough to think that has been my choice. We also have the chronic disease of whispering in our school, and I am afflicted. It seems nearly impossible to resist the temptation to whisper. Hattie Swenson, I study Reed & Kellogg's grammar and Rand & McNally's geography. I agree with you about geography, but grammar is my standby. Sweetness, I read a great deal. I like George Elliot for solid instruction and The Duchess for fun. Whittier is my favorite poet. Ray, with all my heart I congratulate you and wish for the time when I shall stand—a graduate. Please let's not be too hard on Water Lily, as perhaps we are all a little silly at times, and it will soon be over with Water Lily and she will wish she had not written such silly stuff. Water Lily, don't be offended at—[Edith.

Heartbroken—Water Lily, you dear little girl, you had better let that "teacher beau" of yours go, for I tell you when he goes away and meets some boys he will laugh and show your letters and your picture, if he has it, and then he will leave you for a sensible girl (if he is hunting a wife) and then you will be heartbroken.—[Flora.

Own Up—I would not like to be called fast or a flirt. I like to go out driving and like to go four in a buggy, two boys and two girls, because then you have a chance to sit on your companion's knee and he can put his arms around you, unless it is broad daylight, when such a thing could never be thought of. While if I went alone with him I would never once think of allowing him to put his arm around me unless we were engaged. Now is not that an awful confession to make, or at least for a modest young girl? But why not own up to what you think?—[Canadian Pansy.

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THE THUNDERBOLT.

[A poem which appeared in a Toronto newspaper, prophetic of the South African war.]

Every nation in civilization Will tremble in domes and walls; The encradled babe will writhe and cry, The nursing mother will sob and sigh, And the veriest coward will dare to die When the big black thunderbolt falls!

The chief will ask for his heron plume, His people will hear his calls, His men will anthem a savage runc, They'll beat their tom-toms 'neath the moon, And the conches they will roar at noon When the big black thunderbolt falls!

They'll fright the fields with their sounding shields A sound that the soul appals, They'll file their teeth, they will fill their belts, And the kops, the wicks, the vales and velds Will all be black with their naked pelts When the big black thunderbolt falls!

Their signal flames will brand their names On the front of the mountain walls, The venging tribes will gather fast, Their battle songs will rattle the blast, And civilization will stand aghast When the big black thunderbolt falls!

The earth shall hear with a throb of fear The rush of the curling yell, In after years old men will tell How the nineteenth century, praised so well, Was chained by the neck to the jamb of hell When the big black thunderbolt fell!

A BLUE AND GOLD VALENTINE.

Across the sky so softly blue Is thrown the golden light, That tells the day supremely reigns, And banishes the night Across thy life may golden gleams of light be ever thrown Athwart an azure sky of truth, That thou mayest claim thine own. Dear friend, in earth's uncertain sky Ofttimes there is no gold; Nor always do we see the blue, For earthly skies grow cold. There is an azure sky of truth All bright with God's sunshine, Ah! I would wish it unto thee, For aye, my Valentine. MAY MARBLE COOK.

SKATING SONG.

The air is crisp and the night is still, And the moon like a bonfire lights the hill, And I'm away to the skating, I long to feel the grip of the steel And the new ice ringing under my heel, As I dart away with a flying wheel Where the merry crew are waiting. We're off, we're off for the distant shore, With the lake like a mirror stretched before, And the moon's broad path to guide us, What joy to fly 'neath the star-gemmed sky, Like a flock of birds when the hawk is nigh, Our hearts so light and our hopes so high, And the loved one close beside us! We sing and shout as we skim along, Our strokes in time with the merry song And the silvery laughter ringing, O sweet romance of the moonlight spin, When the stars are bright and the clouds are thin! Was there ever a sport, boys, could begin With the skater's magic winging? JAMES BUCKHAM.

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HOW LONG?

O mighty God that rulest men, This dreadful fight hath ever been War to the knife! Man in his purple and his gold, Man in his rags and dirt and cold Fighting for life. Envy and wealth and pride and hate; The sullen poor, the sordid great— When shall it cease? When shall the starved forget the full Or cease to writh beneath his rule, And give us peace? When shall the naked, meek pass by The over-clad, nor cast his eye With strong desire? When shall the frozen sleep to die, Or by the hedge of Dives lie, Nor crave his fire? When shall the worm that pride has spurned And to the dust has careless turned, Not turn again? When shall the bruised lie calm and meek, The smitten turn his other cheek, To ease his pain? When shall the low forget to hate His neighbor of the high estate Who frowns above? Naked in prison, galled with chains, A stranger, thirsting, torn with pains, When shall he love? Let him that hath, to him that lacks Give free, nor curse him for a tax Who lives in need. The sick restore, the broken bind, The erring guide, the lost one find, The hungry feed. Hast money, give, hast art, then use, Hast power, protect, and not abuse; Hast neither, pray, From brother man, whatever his need, What his desert, take thou no heed, Turn not away. What if he has on thee no claim, What if thou never heard his name— Yet is he man! And he c n love and he can hate, Praise, suffer, labor, pray and wait, As we all can. Then give him food and give him fire, And satisfy his heart's desire; Yea, give him love. Then shall come peace 'twixt him and thee, And this fair earth once more shall be Like heaven above.

THE ETERNAL MYSTERY.

Not much before midnight in an English town whose black streets, warmed with poverty and piety, a man in a soft felt hat and white tie was hurrying home over a bridge that spanned a dark, crowded river. Suddenly he felt a tug at his long, black coat-tail. He turns impatiently and sees a breathless, roughly-clad, rugged-featured man. "What is it? What do you want?" "My wife's dying," jerked the man. "I'm not the doctor." "No, sir, I know; he's there and only gives her 10 minutes to live. Come with me at once, please." "Why, what good can I do?" "You're a clergyman." The wearer of the white tie looked embarrassed. "Yes," he stammered, "in a way, but not the sort of clergyman your wife wants." "Come with me, for God's sake. It let us waste time." But still the clergyman hesitated. "You are making a mistake; I am not a Christian clergyman, I am a Jewish minister." "That don't matter; don't go away after I've been chasing you for five minutes. I saw your rig-out—I beg pardon, your coat and hat in the distance just as I came out of the house. Oh, for pity's sake walk back with me at once!" "Why don't you go to your own clergyman?" "I've got none. I don't believe in nothing, myself, but you know what women are!" "I wouldn't know what to say, and I couldn't bring my tongue to say it if I did." "Oh, but you believe in something?" persisted the man, piteously. "I—m! But not the something that your wife believes in." He found himself in a gloomy garret at last, lighted by an oil lamp. A baggard woman lay with shut eyes on an iron bed, her chilling hands clasping the hands of the "converted" kids, a boy of 10 and a girl of seven, who stood blubbering in their night attire. The doctor leaned against the head of the bed, the ungainly shadows of the group sprawling across the blank wall. He had done all he could without hope of

payment to ease the poor woman's last moments. The husband looked at him in frantic interrogation. "You are not too late," answered the doctor. "Thank God!" answered the atheist. "Betsy, old girl, here is the clergyman." The crowd seemed to pass off the blind face and a wave of wan sunlight to traverse it. Slowly the eyes opened; the hands withdrew from the children's clasp, and the palms met for prayer. "Christ—Jesus," began the lips mechanically. The minister responded with the Hebrew death-bed confession: "I acknowledge unto thee, O Lord, my God, and the God of my fathers, that both my cure and my death are in thy hands." As he read, the dying lips moved, mumbling the words after him. How often had those white lips prayed that the stiff-necked Jews might find grace and be saved from damnation. The atheist stood by reverently, torn by conflicting emotions, glad the poor foolish creature had her wish, and on thorns lest she should live long enough to discover the deception. "Make known to me the path of life. In thy presence is fullness of joy. At thy right hand are pleasures forevermore." "Yes, I am coming—Jesus," she murmured. He read on: "Thou, who art the Father of the fatherless and the Judge of the widow, protect my beloved kindred with whose soul my own is knit." The lips still echoed him almost imperceptibly, the departing spirit lulled into peace by the prayer of the unbeliever. The minister continued: "Into thy hand I commend my spirit. Thou hast redeemed me, O Lord, God of truth, Amen and amen." And in that last amen, with a final gleam of blessedness flitting across her sightless face, the poor Christian toiler breathed out her life of pain, holding the Jew's hand. There was a moment of solemn silence, the three men becoming as the little children in the presence of the eternal mystery.—[Israel Zangwill.

An old servant of John Randolph of Roanoke grew to assume such airs of proprietorship that his master resolved to get rid of him, and summoning him into his presence said with impressive solemnity, "Ephraim, you and I will have to part." For a moment the old negro eyed him with dumb astonishment; then, suddenly finding voice, "Lord Mars John," he exclaimed, "whar is you gwine to?" "Mamma," said little Bessie, just after attending services at church, "are people who sit in the middle aisles wickeder than those at the side?" "Certainly not, dear. Why?" "Because the preacher only preached to them." Customer: What have you in the shape of oranges? Grocer: Well, we have baseballs.

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At the age of 23 months it was found by a committee of examiners that she knew 300 nouns. Her articulation and pronunciation are almost faultless. She is able to read and pronounce distinctly such long and difficult words as indissolubly, paleontology, philoprogenitiveness, etc, and as far as we could ascertain, she can pronounce any other word in the English language after hearing it pronounced distinctly. She also reads all zoological names given in Steele's Zoology, and most of the botanical names given in the common textbooks on botany. She knows and can read at sight all numbers of having more than four digits. She knows and can name 34 regular geometrical forms, all the lines and angles used in plane geometry, 22 punctuation marks, the flags of 25 nations of the world; can name, read and locate all the states and territories of the United States and their capitals, and almost all the countries of the world and their capitals. She can read the names of all the countries of the world and their rulers. She reads script almost as well as print; speaks pieces, draws, writes words and numbers and does many other things equally phenomenal. Her attention, her memory, her observation, her reasoning and her ability as a critic are as marvelous as her other attainments. She seems to understand almost everything she reads.

Viola is a bright, healthy, handsome, prepossessing blonde, with a remarkably fair complexion, brilliant eyes and very pretty hair. She has always been permitted to eat as much of everything as she desires. She has always retired alone, and slept alone, and has never been rocked or carried. At present she sleeps about 11 hours out of the 24. She admires liberty, but has an amiable disposition. Viola has always been treated kindly. She has selected her own playmates, and acquired all her knowledge in the form of play. She has never "studied" a lesson in her life; has never been asked to take a book. Her life has been a continuous game of delightful play. She was surrounded with attractive educational apparatus and then left completely free as to when and what to learn. Prof Olerich believes that all real eminence in education must be attained by interest, kindness and freedom. To the use of these he attributes his unparalleled

success in educating Viola, and he claims that her future progress and ability will be immeasurably greater than any other which has heretofore been recorded, unless something unforeseen comes up to prevent. He claims that all learning, when rightly pursued, is nothing more than play, and no strain on the learner.—[J. B.]

Boys' Hands—You tell the girls a great many nice ways to keep their hands and skin smooth and soft, and entirely forget the boys," says my little nephew. I believe in being as careful with boys as girls. They can play marbles, ride their wheels, play football, etc, but when they leave the outdoors to spend the evening at home let them make themselves neat and clean. Have on their washstand a good quality of toilet soap, a piece of pumice stone for rubbing off stains, a little dish or jar of borax for softening the water—and it cleanses quicker, getting the nails clean—have plenty of towels, whisk brooms and clothes brushes convenient so the boys can dust their clothing nicely; have a shoe polish and blacking convenient, and what is better, if they live on a farm and have to get their boots very muddy, have a substantial pair of slippers for them. It relieves their tired feet and saves the carpets. It is a great mistake to have manicure sets, silver backed combs and every imaginable dainty thing on the girls' dresser, and across the room where the brothers stay there is hardly a respectable comb and no brush or clothes brush, etc. I have seen it so, and such boys grow up untidy, careless of their surroundings and never make as genteel an appearance or being thus neglected. There are many practical reasons why a boy's room should be made attractive. It should have book shelves, pictures with a tradition that will educate, and a good light to read by at night, with a table convenient.—[S. H.]

Inquiring Friends—Ford Wattles informs us that Miss Becky can obtain the music of the Georgia Campmeeting from the McKinley Music Co, 309 Wabash avenue, Chicago.—N. B. Allen, Box 206, Dexter, Mo, wants to know about the vicinity of Galveston, Tex, as a place to live.—The book, Why I Am What I Am, by 14 clergymen of different creeds, is what P. G. wants to know where to get.—Mrs M. McC, the Scott Stamp & Coin Co, 18 East 23d street, New York city, will send you literature on the value of coins.—Floyd E., we believe there is no premium on 25 and 10c scrip. See reply to Mrs McC, above.—Florence A. asks for directions for knitting the old-fashioned lace our grandmothers put on white bedquilts and table covers.—Mrs Clara P., we have printed a good many knitted lace patterns suitable for aprons, and if you will say the kind of apron we will tell you suitable patterns for it.

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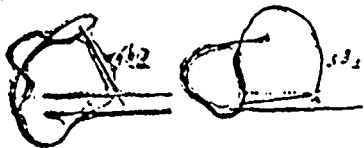
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# STITCHES

## A SEWING LESSON—II.

If you were going to sew up a seam in a sleeve or a waist or dress skirt for **yourself** or for anybody, you would want



it so strong that it couldn't pull open and look loose on the right side. It might with the running stitch, or show the stitches as with the over-and-over. I know a stitch that was invented for just such places, and it is called backstitch. That sounds like going backward, doesn't it? You can't get along very fast. It is true, but you will surely like to make it, because it is so much like taking a long step forward, then a short one backward. Besides, when it is done it looks on one side almost exactly like machine stitching, if done evenly and finely. Don't forget to baste the seam, then take the first stitch a little longer than if running, for the next put the needle into the cloth back very near the knot and bring it out beyond the thread, the next stitch must be taken back close to the first, and so continue the length of the seam. Fig 5 will show you how it will look. Sometimes a seam will be strong enough if only every other stitch is taken backward, but it will not look quite as well on the wrong side.

You have now learned to make all the kinds of seams, and if you master one more step you will be ready to make many useful things, then how proud you will be. This step's name is a little word, hem, and is used to finish any kind of a garment at the bottom after the seams are sewed, or napkins and towels. First see that the edge of the cloth is straight, then turn it down one-fourth of an inch (sometimes less if a very narrow hem is wanted) and crease it. Turn the cloth down again about the same width and crease it, that will hide all the raw edges. Baste the turned-down part to the rest of the cloth. A hem looks better if the knot is concealed and this can be done by taking the first stitch in the turned-down or upper part. All the other stitches must be taken through both the under and turned-down parts, as shown in Fig 6. The hem in the cut is a good width for towels or table cloths. If a hem comes on a selvedge it will need to be turned down only once.

As you have learned all the stitches that are used in a pillowcase, I think

you can put one together very nicely now. The cloth will be 3/4 yards wide. If you take a piece about 40 inches long, the ease when finished will measure a little over a yard. Baste the selvedge sides together and sew over-and-over and at the bottom make a backstitch seam, overcasted. For the hem at the top, turn down the cloth on the wrong side one-fourth inch and the second time three inches. That will be hard for you to keep even, so that little measure will have to be used very carefully. Baste as you go along, then hem, making the stitches just as fine as you can, so they will not show very much on the right side. There is a kind of cloth called tubing, made purposely for pillow cases, and if you should be fortunate enough to have that, you would need to sew only the bottom seam and hem the top, for the cloth is a round piece like a flat tube.

Now you will surely want to try making a sheet. It will be no harder, only heavier to handle. Sometimes the cloth, called sheeting, comes wide enough so all you will have to do will be to hem it, making the hem at the top about twice as wide as at the foot. A good width for the top hem is 2 or 2 1/4 inches. If the cloth is in two lengths there will be a long over-and-over seam to make through the middle. Perhaps if you look closely you will notice that the selvedge is different on the sides of the cloth. If that is the case, sew together the sides that look alike, even if one is the "up" and the other the "down" of the cloth.

There are two nice ways to finish off a seam so no raw edges at all will show. We will learn the easiest one this time and leave the other for the next lesson. Backstitch the seam, then cut off one edge of the cloth about half way to the sewing on the wrong side of the seam, turn down the other edge twice and sew it like a hem, concealing the stitches of the seam if you can. This is called felling. When you have learned to hem well, you can put the needle in twice before drawing the thread through, but watch out sharply or you will knot and tangle the thread.—[B. A. W.]

### INFANT'S BOOTIES.

Use either blue and white, yellow and white or any desired combination of colors, Saxony yarn and rather coarse knitting needles. Cast on sixty-one stitches with the colored yarn.

Knit one row plain, purl one row, knit one row plain and fasten in white worsted. Slip one, over, knit three, \* slip one, knit two together, pass slipped stitch over this last stitch, knit three, over, knit one, over, knit three, \* repeat to end of row and purl back.

Repeat these two rows three times. Fasten in colored yarn and purl across, knit once across plain, purl across once

more and knit the second plain row. Fasten in white yarn and repeat the fancy pattern as before. Fasten in color and make the stripe again of one row purl, one row plain, one row purl and one row plain. Fasten in white yarn and repeat the rows as directed between stars nine times instead of four.

Next make a row for the insertion of ribbon, as follows: \* Slip one, over, narrow, \* repeat from \* to end of row. Repeat the fancy pattern four times and purl back. Slip twenty-two stitches on another needle. Knit the next seventeen in colored yarn and make one stitch \* end of needle. This leaves twenty-two stitches on left-hand needle. With a fourth needle knit back and forth on the eighteen stitches for instep, making strips of four rows of white and four of color, until there are five stripes of each. Fasten in colored yarn and knit six rows plain and fasten end of yarn.

With colored yarn knit off twenty-two stitches on next needle, pick up stitches along the side of the instep, knit across instep, pick up stitches on other side of instep and knit off twenty-two stitches on other needle. Knit back and forth plain on these needles, narrowing every alternate row at the toe end of the side needles until you have eight ridges of knitting on right side of work; then narrow every alternate row at heel end of needles.

On instep needle narrow every time in center of needle until there are but two stitches left, then slip one on each side needle, knit one row plain, bind off all stitches, sew or crochet back of leg together, and turn. Through the holes at ankle run a narrow ribbon and tie in a bow in front.—[Lalla Mitchell.]

An old soldier was boasting of his experience during the civil war, when he was asked: "How many rebels did you kill during the war?" "How many did I kill? How many did I kill?" repeated the old veteran. "Well, I don't know exactly how many, but I killed as many of them as they did of me."

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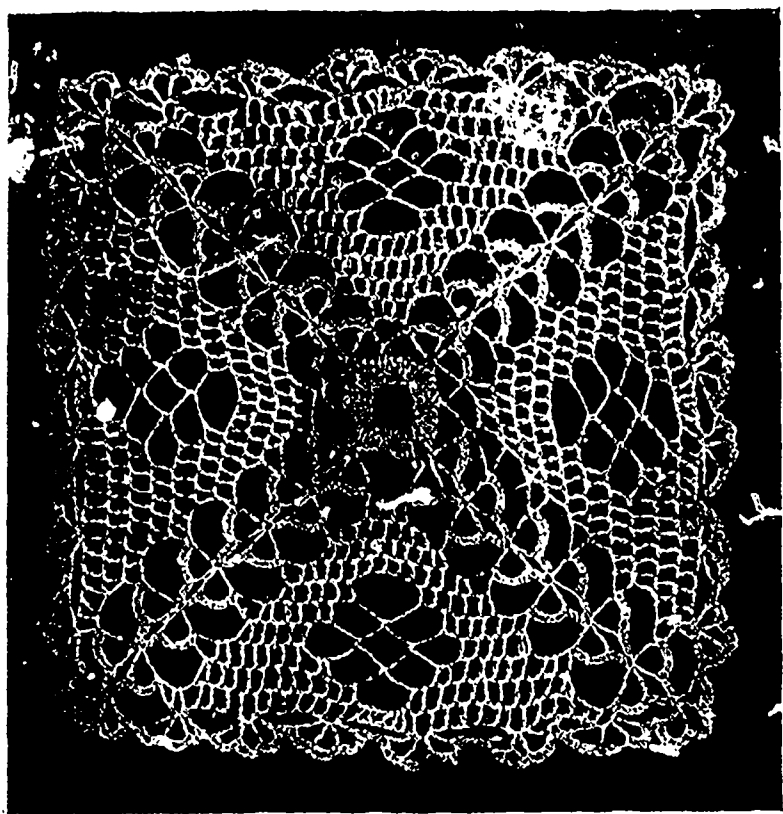
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First round—S c between fourth and fifth d c, \* ch three, (d c between next fourth and fifth d c, ch five, d c in same, ch five, d c in same, ch five, d c in same). The directions in parentheses make a shell. Ch three, skip four, s c between next, repeat from \* twice, ch three, skip four, shell between next, fasten to five ch.

2d round—(Ch five, ten s c in each of the three spaces of shell), repeat four times.

3d round—Ch four, three d c's separated by one ch, under ch five, (all d c's except those in the shells are separated by one chain), \* ch five, shell in shell, ch five, four d c under ch five, repeat from \* twice, ch five, shell in shell, ch five, fasten.

4th round—Ch four, \* three d c under the three ch ones, two d c under ch five, ch three, ten s c under each of the three spaces of shell, ch three, two d c under ch five, repeat from \* three times, fasten.

5th round—Ch four, \* d c's under all ch ones, two d c's under ch three, ch five, shell in shell, ch five, two d c's under ch three, repeat from \* three times, d c in ch one, fasten.

6th round—Ch four, \* d c's under all ch ones, two d c under ch five, ch three, ten s c under each of the three spaces of shell, ch three, two d c under ch five, repeat from \* three times, two d c under ch ones, fasten.

7th round—Turn and slip stitch in two ch ones, ch four, two d c under first two ch ones, \* ch eight, skip four ch ones, d c's under the remaining ch ones, two d c under ch three, ch five, shell in shell, ch five, two d c under ch three, four d c under ch ones. Repeat from \* twice, ch eight, skip four ch ones, d c's under the remaining ch ones, two d c under ch three, ch five, shell in shell, ch five, two d c under ch five, d under ch one, fasten.

8th round—Ch four, d c in ch one, \* ch eight, s c under ch eight, ch eight, skip one, ch one, d c's in next ch ones, two d c under ch five, ch three, ten s c under each of the three spaces of shell, ch three, two d c under ch five, four d c in first four ch ones, repeat from \* twice, ch eight, s c under ch eight, ch eight, skip one, ch one, d c's in next ch ones, two d c under ch five, ch three, ten s c under each of the three spaces of shell, ch three, two d c under ch five, two d c under ch ones, fasten.

9th round—Ch four, \* ch eight, s c under ch eight, ch eight, s c under ch eight, ch eight, skip one, ch one, d c's under remaining ch ones, two d c under ch three, ch five, shell in shell, ch five, two d c under ch three, d c's under

four ch ones, skip one, repeat from \* three times fasten.

10th round—Ch four, \* two d c under ch eight, ch eight, s c under ch eight, ch eight, two d c under ch eight, d c's under ch ones, two d c's under ch five, ch three, ten s c under each space of shell, ch three, two d c under ch five, d c's under ch ones, repeat from \* three times, fasten.

11th round—Ch four, \* d c's under ch one, two d c under ch eight, ch eight, two d c under ch eight, d c's under ch ones, two d c under ch three, ch five, shell in shell, ch five, two d c under ch three, repeat from \* three times, fasten.

12th round—Ch four, \* d c's under ch ones, five d c under ch eight, d c's under ch ones, two d c under ch five, ch three, ten s c in each space of shell, ch three, two d c under ch five, repeat from \* three times.

For edging, make six shells on each side, not including the corners. Ten s c in each space. W. A. P.

Peapod Emery—The most unique emery I ever saw was one originated by some clever woman and placed on sale in a woman's exchange in one of our large cities. It consists of two cushions to simulate in shape two peapods. One can provide themselves with exact pattern from a floral catalog. First, prepare the muslin cushion by laying the pattern on muslin and allow a tiny seam. Fill this case with emery as solid as possible. Special care should be given to fill out the ends. This can be accomplished by the use of a small pencil. Cover with green silk as near the shade of pod as possible. In making the silk case it should be enough larger to turn the edges neatly and overcast the same. Tack the two upper ends of the pods together with baby satin ribbon and finish with bow and ends. This simple and novel device is as pretty and dainty a gift as one can imagine or desire.—[Percy Fielding.]

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GLAD I'M NO FARMER.

I'm glad I'm no farmer, to toil in the field And not know whether my crop will yield TH after it's over, and nothing I've got For all my hard labor to tend to my crop.

JOHN NAGLE.

Tired at Forty—Rustico, are you sure that you do not mistake the desire to do for the ability to do things? They have something the same outside appearance and you might easily confuse them. And, after all, why should a man be aged at 40, as many are from the ceaseless game of grab and hustle which obtains in our times? I have a friend, older than I, who helps me and has always helped me. He has worked hard and attained part of his youthful desires and can see now what they are really worth. He helps me now, as I say, but it is often with a pitying tolerance as a "maw" might have for a child who chases a bubble, or a flicker of light and shade through leaves, or the rainbow's end. His pleasures are quiet now. To sit in the sun and read or to walk our country roads in summer and laugh at innocent youth that is furious to do hard tasks—these make up the sum of his active pleasures. For he has performed our great national feat of killing our enthusiasm at the prime of life. Lord deliver me! Deliver El Rustico and lead him to a copy of poem of the wise tent-maker of Persia, Omar.—[El Sabio.



Education—"Wisely improve the present. It is thine." There is a march of mind; there is an energy, a business-like character belonging to the age in which we live, and distinguishing it

from times gone by. Character grows day by day. All things, even the most trivial, assist in unfolding it. Duties grow into privileges. Life is progressive. Every day, every moment, is weaving into the texture of life forms and materials which will never be wrought out again. What is true of the individual is true of the nation. The public welfare depends upon the right education of the children.—[Cyrus McGlashan.

Bachelors—I saw an article in the Dec 1 issue entitled Shortage of Women. I don't think it is exaggerated a bit when you say there are 16 bachelors to one woman in Idaho. I know of one section one mile square that has five bachelors in it, and in the same township there are 11 bachelors. They range in age from 25 to 60. And there are other places in this same county that are just as thickly settled with bachelors and nearly all of them have good homes that could be made better if there were women in them.—[Idaho Bachelor.

Hundredth?—One Page 13, Jan 1, is an item I would like to take a part in, with the three level-headed presidents. Would like to ask the majority 11 a question. If they had a baby come to their house Jan 1, this babe must live a year before you say one year old. Now if your babe lives to the end of the year 1999, and wakes up the next New Year's morn, won't that be his 100th birthday?—[Charles Sawyer.

Amity letter circle. No 13, is still on top. We defy any circle of the many



organized by F & H to show a better record than we have made. Our circle is now full and starts out on its sixth year with bright prospects for the future. Although our members are scattered, having representatives in far-off Luzon, Canada, the golden fields of Kansas and on the Pacific slope, still we all feel at home in Amity, and our aims and purposes are one, and that is to make our circle the best one, and to make the ties of friendship and good will bind us still closer to each other. We now feel as though we were well acquainted, although, so far as I know, so two of us have ever met. We have exchanged photos and know what one another look like. Two of our members have been married, and in such cases the other parties in the transaction are called associate members, and have the same privileges as other members. Our circle is now studying palmistry. At least, some of the members are, and find it very interesting. One of our members is now in the Philippines and writes very interesting letters describing the country, natives, climate and so forth. I would be glad to hear from other circles through F & H, telling of their trials, difficulties and successes, and it would be helpful to all. I am also a member of circle No 66, of which you may hear something later.—[No 9, Amity.

Careworn Mother—Would like to give Stepmother the help and encouragement that she needs. No, it is not strange. Just look around you at mothers who have grown daughters of their own and their faces are as careworn as your own and their dress and person more neglected. Well, why? Because to dress, school and bring those girls out in society is a greater task than to care for small children. Now I would like to tell you of the things that have helped to tide one along the very road you are traveling. Strive to let nothing hurt you only when you have been in the wrong. Take up something, such as reading history, novels, painting or visiting, something that will entirely divert the mind from family and even home and you will be surprised at the rest you will get, and things will seem to move on just as well. I would like to see something on this subject from one of broad culture and actual experience.—[E. M.

One Thing—Yes, I also had some experience with H. A. G. Amateur. Had several prints, but had to keep sending them back for correction, and I just gave it up, but I did not blame him

altogether. But one thing I am awfully sorry for is that I sent him some nice maple sugar cakes one spring and he never acknowledged receiving them. [Twentieth Century Bachelor.

Topics of the Day—I comprehend by some of the remarks that have been made in reply to my missive that I, without premeditation, succeeded in making myself pretty thoroughly misunderstood. I would not have anyone infer from my other letter that I am a cynic or a disbeliever in love, and the very great influence exercised by apparently trifling incidents of domestic life upon our destinies. Oh, no! Few realize more forcibly than I that the choicest part of the life of humanity consists of, as the poet expressed it, "That best portion of a good man's life—his little unremembered acts of kindness and of love." My idea is simply this: Love, the finest feeling to which human nature is susceptible, is, or should be, too sacred a subject to be lightly and jestingly dealt with, as has been the custom of some of our Councilors. In reply to Rene Rustic, I would say: Encompass the globe and you will find no greater "soul-inspiring" subject than love, divine love; and isn't human love, in its true, unselfish aspect, very closely allied to the divine love? I am sure that we have all heard of cases in real life that very clearly illustrate that "greater love hath no man than this, that a man lay down his life for his friend." Without love, in its broadest and best sense, this old earth would



From Mrs. Gunter to Mrs. Pinkham. [LETTER TO MRS. PINKHAM NO. 76,444] "One year ago last June three doctors gave me up to die, and as I had at different times used your Vegetable Compound with good results, I had too much faith in it to die until I had tried it again. I was apparently an invalid, was confined to my bed for ten weeks. (I believe my trouble was ulceration of womb). "After taking four bottles of the Compound and using some of the Liver Pills and Sanative Wash, at the end of two months I had greatly improved and weighed 135 pounds, when I never before weighed over 138. Lydia E. Pinkham's Vegetable Compound is the best medicine I ever used, and I recommend it to all my friends."—MRS. ANNA EVA GUNTER, HIGGINSVILLE, MO.

Mrs. Barnhart Enjoys Life Once More. "DEAR MRS. PINKHAM—I had been sick ever since my marriage, seven years ago; have given birth to four children, and had two miscarriages. I had falling of womb, leucorrhoea, pains in back and legs; dyspepsia and a nervous trembling of the stomach. Now I have none of these troubles and can enjoy my life. Your medicine has worked wonders for me."—MRS. S. BARNHART, NEW CASTLE, PA.

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SENT ON TRIAL at whole sale price. If not satisfied, money will be refunded, and under a positive GUARANTEE to wash as clean as can be done on the washboard, even to the wrist and neck band of the most delicate shirt, and with far greater ease. Does not wear out the clothes. Economical, safe, labor saving. AGENTS WANTED. Exclusive territory. Big money making. For terms and prices apply to Terriff's Washers, Portland, Me. Co: Box 2, Portland, Me.

Vapo-Cresoline advertisement. Includes text: 'CURES YOU WHILE YOU SLEEP' and 'Hundreds of thousands, all over the world, use Vapo-Cresoline. Do you? Cresoline is a specific for Whooping Cough, Croup, Asthma, Catarrh, Croup, Cold. A germicide of great value in the treatment of contagious diseases, such as Diphtheria and Scarlet Fever. Descriptive booklet, giving testimonials by physicians and prominent people free. Sold by all druggists. Vapo-Cresoline Co., 100 Fulton St., N.Y. City.'

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Watches, Rings, Watches, Chains and Chains, etc. FREE advertisement. Includes text: 'As a grand premium, any one can earn this Beautiful Gold Plated Hunting Case Steam Cylinder Watch, and Chain, a perfect timepiece, in selling our ELECTRICAL WICKS. They can be sold in a few hours. They are practically indestructible. No trimming; no smoke; no smell. ONE SPECIAL 90-DAY OFFER, which is open from now until the 1st of March. Send us your name and address (no money); we will send you 20 wicks, prepaid; sell them at 5 cts. each and remit to us \$1, and we will mail to your address, free, a Beautiful Gold Plated WATCH CHAIN AND Gold Ring. ELECTRICAL WICK CO., Dept. U., Chicago, Ill.'

SILVER WATCH FREE! advertisement. Includes text: 'This Watch is a Beautiful Gold Plated Silver Watch, with a perfect timepiece, and all ready to wear. It is a grand premium, and we guarantee that it will forever stop all your suffering. Free if you take advantage of our marvelous offer. If you want one OUTRIGHT, with immediate delivery, with your order send your name and address to the 5 cents each, 20 cents of Profit. Special Delivery and our offer. After you receive the beautiful Watch we shall expect you to show it to your friends and all their attention to this advertisement. The Watch is sent Free, by the 'New York' Co., in compliance with our advertisement, and the satisfaction you will be sure to get, and it is Fully Warranted. You will be sure to get the best. PERSIAN PERFUMERY CO., 15 Warren St., New York.'

WE EXCEL and UNDERSELL ALL! advertisement. Includes list of products and prices: 'Electric Carriage Lights, \$4.25; \$15 Telephone, complete, \$2.50; Telegraph (10 lines), \$2.75; \$5 Electrical Batteries, \$1.00; Battery Tyre Lamps, \$1.00; Electric Wall Lamps, \$2.50; Electric Necktie Lights, .75; Miniature Electric Lamps, .50. Agents Wanted. Send for New Catalogue, just out. OHIO ELECTRIC WORKS, Cleveland, Ohio. Headquarters for Electric Novelties, Supplies, Books.'

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\$50 a Month Easy! advertisement. Includes text: 'We can give you something to do that will make you \$50 a month without any trouble right around your own home. A Big Money Maker. Send your name and address, say how. Please investigate. Write to-day. ORANGE JUDD CO. (Agents) Dept. 4, 55 Lafayette Place, New York.'



indeed of a desolate place of exile.  
 "Have love! not love alone for one,  
 But man as man thy brother call;  
 And scatter, like the circling sun,  
 Thy charities on all."

My wish, as ambiguously expressed in my former letter, is not to devote our time wholly to the great, inspiring topics, but to stimulate our brains to greater activity in the discussion of all the live topics of the day. Schiller said, "Little-minded people's thoughts move in such small circles that five minutes' conversation gives you an arc long enough to determine their whole curve." Friends, we are not individuals with a single thought, but we are the world's people, with many and varied thoughts and therefore let us strive to prove to each other that we are all adherents of the expansion theory as applied to mind-growth. El Rustico, come again and often. Your experience is very similar to some of my own past experiences. Difficulties gauge our strength and durability, in teaching as in every other work. "We rise by the things that are under feet."—[Miss Publico.]

**Real Modest Girl**—I believe as Senis; girls are very often misjudged. Some girls that have not a "fast" principle about them, simply jolly girls, are often wrongly termed fast, and some girls who appear quiet are in reality fast. My opinion is that it is hard to distinguish between them, but the best principle, I think, is to be a real modest girl and I do not think there will be very much danger of being fast, although some girls are misjudged. Never mind, Dotty Dimple, what you see around you. You will be happy, for "Dick" is the best man in the world.—[A Student.]

**A Dear Girl**—I can't count my frowns or think of the tears that have stained my cheeks on account of a dear girl I once had for marrying some one else. I did not blame her a great deal, as I told her I was going for fun and did not wish to marry. Yet it seems so hard she could not stay single so I could have more fun. I am inclined to believe, as Mrs Susie Miller, believes, that the modest girl is the best off in the long run, but yet I must congratulate Senis upon her grand illustration of the horse. It is too often we find the modest appearing girl a kicker or high-flyer, and very often the fast appearing the most modest, only we have to watch them. I wish to say to Dolly that not all men who do not smoke, chew or drink are brutes, even though brutes do not indulge. My gravest trouble with the gentler sex has been to find one who is not deceitful.—[The Bachelor.]

**Inquiring Friends**—Josie O'C., we don't know the issue, a year or so ago, in which the knitted skirt appeared. A pretty crocheted skirt is given in the March 15, '99, issue.—Mrs J. W. D., we do not have the poem you speak of.—The query, "How to kill cabbage worms," Mrs William answers by saying "Dust with flour."—Scotia asks for knitted vine and leaf edging.—James Lowen, Bartlesville, Ind Ter, wants to know about combination stock and dies.—M. Greenleaf (no address) asks whereabouts of James Trobaugh, or his sons Henry and Roscoe, who lived near Pendleton, Ore, some 11 years ago.—J. F. D. O., we don't know when the knitted oakleaf and acorn pattern was published.—J. C. A., no one can answer your question as to how a woman with a baby can get a pleasant place to work without knowing her, her circumstances and the needs of the people among whom she lives. As to palmistry, it will take years of study and practice to become a professional, though one can be simply entertaining who knows only a little of the art.—Where can Prof Bateman's Ancient Cities in the New World be obtained, asks Mrs J. G. B.—How can one polish the horns of dehorned cows for ornaments? asks O. A. B.—Mrs Bridger, our contributors do not have samples of their fancy-work for sale or sample.—Mrs E. M. G., we do not deal in serial stories, and can't advise you, as we know nothing of the merit of the one you speak of.—Thomas W. Thompson, Kurtz, Minn, wants to know if there is any good government land adapted to general

farming in Idaho, eastern Washington and eastern Oregon.

**& Pledge**—There have been requests for something of interest for discussion. I think I have a plan that will be of benefit to all those who will help me form it. My idea is this, that the countless numbers of readers who are struggling for improvement, mentally, physically and morally, form with myself a pledge to refrain from all excesses that are an injury to their advancement and welfare. There are many habits one forms that are an excess of only a useful factor. Temper is not bad, but only the excess that causes injury, and so on. I shall begin with limiting myself to only two chews daily, then to one, so here goes; let others join with me. I shall tell my experience in another letter.—[Plow Boy.]

**Generals**—I agree with the Editor's friend mentioned in the "circle business" column of Nov 15, that the greatest general this country ever produced were on the confederate side. And never forget the men either, in whatever cause. I would like to shake that veteran's hand. Perhaps Leonard Van Buren has never had any dark shadows in life. He may have had all sunny days and thinks it just an example of will whether a person is happy if he wishes.—[Corncracker.]

**Somewhat Personal**—I am in sympathy with Betsy Trotwood, for she has a purpose in life, and that purpose is to prepare for a life beyond the grave. [204.]

**Water Lily**, you are the "stuff," if you will pardon the term. If your teacher fell in love with you, that was his affair; if you cared to return the sentiment, that was your privilege. I think "kisses" altogether wrong. I do not think you are "too fast" or "too hot" because you are of an active temperament and affectionate disposition. [Lysander.]

I was very much pleased with some of the Councilors' pictures. I wish I could see Water Lily. Wouldn't I take her in my arms and kiss her for half an hour.—[Mermaid.]

**Stepmother**, let me whisper a word to you: The reason your stepchildren do not like to mind you is because they dislike to see another in their dead mother's place.—[Silver Moon.]

I would like to find out through the columns of F & H why boys leave the farm, and have the articles written by progressive boys themselves. I hope I am not asking too much of you or the boys.—[Roy Morris.]

**Calvin**—If, as seems well established, Calvin and others of the reformers were involved as principal or accessory in the burning of Servetus, and if F. F. Cassine is right (F & H Dec 1), must they not have been persons who did not obey the Bible teachings?—[Thomas J. Powell.]

**The Wailer**—Why cannot supposed philanthropists let the "man lean on his hoe" if he will, and turn their attention to the man that "leans on the bar," and his wife that "leans on the washtub?" By so doing the world might possibly be better for their having lived, though there might not have been quite so much "in it" for them. By the way, what has become of the mournful wailer from Walltown who signs himself Sabin and claims "kindred with the ox?" Now if you are spooling for a picnic, why in the name of common sense, if you have any, don't you improve some of the 52 days of idleness that is enforced upon you annually and take your family into the country for an outing? In this age of cheap excursions there is no excuse for anyone complaining that they can't have a "picnic."—[Michigan Hayseed.]

The famous art calendar of N. W. Ayer & Son, the Philadelphia advertising agents, is too expensive to be distributed free, and many readers will be glad to know that it can be ordered of that firm by inclosing 36c. It's a beauty this year.

**DISCOVERED BY A WOMAN.**  
 I have discovered a positive cure for all female diseases and the piles. It never fails to cure the piles from any cause or in either sex, or any of the diseases peculiar to women, such as leucorrhoea, displacements, necrosis, granulation, etc. I will gladly mail a free box of the remedy to every sufferer. Address Mrs. C. S. MILLER, Box 119, Kokomo, Ind.

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Impoverished blood is the secret of half the disease known to humanity—rheumatism, dropsy, stomach and liver trouble, with all their attendant misery, may nine times out of ten be traced to the circulatory system. Correct that and all goes well. Dr. Williams' Pink Pills for Pale People increase the red corpuscles in the blood and thereby give it new life and richness. They also tone up the nerves and are a specific for many serious disorders.

Mrs. Joseph M. Evans, of Carterville, Mo., says: "Two years ago I had dropsy of the left limb so severely that my physicians said I could not recover. I had been sick about a year, and most of the time was bedfast. The treatment of the physicians did me no permanent good. I steadily grew worse.

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"I took about six months steady treatment. The result is that I do not now feel a trace of my former ailments."

Mrs. Lue Evans.  
 Subscribed and sworn to before me, a notary public, this 12th day of October, 1898.

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**MAGNETIC HEALING** cures when all else fails. Prof. Jones cures all diseases at his Infirmary, or by his Absent Treatment. Distance makes no difference. This Method is taught to others at his School or by mail. Many of his students are making \$25 per day. His Journal of 32 pages free.  
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 SAFE. Always reliable. Ladies, ask Druggist for CHICHESTER'S PILLS. Sold in RED and Gold metallic boxes, sealed with blue ribbon. Take no other. Refuse Dangerous Substitutions and Imitations. Ask your Druggist, or send 4 cents in stamps for Particulars, Testimonials and Booklet for Ladies, or letter by return mail. 10,000 Testimonials. Sold by all Druggists. Chichester Chemical Co., 2223 Madison Square, N.Y.C.

**LACE CURTAINS FREE**  
 These beautiful Royal Lace Parlor Curtains are of the newest Savoy design, three yards long, 36 inches wide, are washable and will last a lifetime. You can get two pairs of these choice curtains, (same design as in cut), and four beautiful Sach Curtains (one yard square each), FREE by selling our GREAT COLD REMEDY and HEADACHE CURE. Cures Cold in One Day! Relieves Headache at Once! We will give the curtains absolutely free to anyone taking advantage of the great offer we send to every person selling six boxes of our Tablets. If you agree to sell only six boxes at 25 cents a box, write to-day and we will send the Tablets by mail postpaid. When sold, send us the money and we will send four Sach Curtains, unhemmed, so they may be made to fit any window, together with our offer of two complete pairs of Royal Lace Parlor Curtains, enough to furnish a room. —a day money is received. This is a grand opportunity for ladies to beautify their homes with fine Lace Curtains of exquisite design. All who have earned them are delighted. Address: NATIONAL MEDICINE CO., 1010 Chapel St., New Haven, Conn. Box 17 B

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Jottings from the Farmers.

[From Page 62.]

It is in use it has become indispensable. Let us press free delivery of mail, centralization of country schools and rural telephone service, and we will be in town every day in the country.

GARDENING IN ALBERTA

Manured soil gave the following satisfactory results the past season. From 3 lbs seed of each variety, I raised of the Pierce potato 514 lbs, or 5 bu 34 lbs, of Clark's No 1, 335 lbs, or 5 bu 35 lbs; American Wonder, 278 lbs, or 4 bu 35 lbs. Of two sorts of asparagus, Palmetto did best; beans, three kinds, Wardwell's kidney wax, best; beets, four kinds, Early Blood Turnip, best; carrots, seven kinds, Chautenay, best; cabbage, three kinds, Henderson's Early Summer, best early, Burpee's All Head, best late. Of cauliflower, three kinds were planted, but only one germinated, and that did poorly; in past years Henderson's Snowball has been very good. Giant Golden Heart was the best of five kinds of celery, and Paris Picking the best of four cucumbers. Corn did not mature. All sorts of lettuce did well. Melons were N G. Only two pumpkins matured. Ten kinds of onions grew well, but only Australian Brown showed signs of maturing, and in an ordinary year I think would ripen sufficiently to keep through the winter. Of 10 sorts of peas, American Wonder and Pierce's Eclipse gave the best results. New Intermediate parsnips made 8 bu from 100 ft of row. Of radishes, seven kinds tried, Scarlet China is best winter variety and Early Scarlet Turnip best early sort. Ideal Mammoth rhubarb did splendidly for the first year. Mangels, three sorts tried, but were left too thick and did not do well. Tomatoes, four sorts tried. Fordhook's Fancy and Dwarf Champion did well, but did not ripen fruit. Of salsify, two kinds tried, Mammoth Sandwich Island was the best. Sunflowers, two kinds tried, Mammoth Russian was the best. Swedes, two sorts tried, Web's Giant, best. For a table turnip, Golden Ball is O K. —[H. L. Briggs, East Slope Ranch.]

From the Wheat City—After 16 yrs experience, I think we have in Manitoba other things that pay just as well as wheat. While wheat is sometimes one of the best paying products it is too often on the shady side of 50c. While growing wheat, you must have something else to back it up to make it a success. To grow wheat requires horses. At the price we have to pay and at the rate a good many of our western farmers use them up, I think it will pay to raise a few good colts every year. When they mature, if you do not need them for your own use, there is always a ready market if you raise the right kind. Raise horses that can take a full day's work on the farm and crossed with the ordinary mare you must breed to the best draft horse you can find. The Percheron is the easiest to keep and is invariably a good looker and therefore a good seller. Above everything, steer clear of the trotter, the ruination of a good many of our otherwise best farmers. The man who farms in this section to-day without a herd of good cattle must be blind to his own interests; there is probably nothing that will make an all-round staidler profit and at the same time keep up the fertility of the farm besides giving steady em, oymment the year round, which grain alone does not. Keep a few pigs and hens to eat the farm refuse. Sheep have a great future, but at present wolves are too numerous. Whatever you keep, let quality take the place of quantity; having it, take a pride and pleasure in taking care of it.—[Alfred Stott.]

An Important Industry—Returns from over 2600 correspondents regarding the poultry industry of Ontario are generally of a highly encouraging character, indicating that farmers in all parts are devoting more care and attention to this branch of farm industry and engaging in poultry raising more extensively than ever before. The profits have been good wherever fowls have received proper treatment. Egg production last year was above the average and prices were remunerative. [Secretary C. C. James, Ont Dept of Agr.]

OUR PUZZLE CONTEST.

We shall give you the usual number of puzzles for February and 16 prizes will be awarded, the first of which will be a watch. 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, Mo.

THE FIRST INSTALLMENT FOR FEBRUARY.

- 1 Diamond—1. A consonant; 2. a whim; 3. vapors; 4. a wanderer; 5. a Greek letter. 6. a large body of water; 7. a letter. 2. Charade—My first is often made by my second, and my whole is a hoax. 3. Arithmetical—Replace the letters by figures, and give the root word. A) R G N E A U Q I L 4. Anagram (one word)—ALLMNMNSSUU. 5. Double Acrostic—1. A species of sparrow. 2. the last syllable of a word; 3. a musical instrument. 4. a plant. 5. owning. 6. an Arabian geographer, born 1090, died 1161. 7. to frolic. 8. neat. The initials and initials form something that all of us are interested in.

ANSWERS TO THE DECEMBER PUZZLES.

- 1-K I N G I D O L N O N E G L E N 2-1. Keene. 2. Saco; 3. Utica; 4. Keokuk; 5. Tallahassee. 3-Alternated. 4-Pea, pear, beet, acorn, corn, pumpkin, currant. 5-Padlock. 6-1. Constituents; 2. pharisaical; 3. unparallelled; 4. necessitated; 5. descendants; 6. Iconoclast; 7. obliterates; 8. harangues; 9. globe; 10. espallers.

PRIZE WINNERS FOR DECEMBER.

D. M. Riley, Me., C. V. Mitchell, O.; Mrs. Allen C. Peterson, N. J.; D. L. Crosby, N. H.; Mrs. Abbie F. Baker, Me.; Mrs. D. J. Crosby, N. H.; M. L. R. Furrington, Me.; Lucy J. Chase, N. Y.; E. J. Orr, Mo.; Alice M. Buntin, N. H.; Mrs. C. L. Kimball, Mass.; Mrs. J. F. Hammon, N. H.; Sarah E. Newton, Mass.; Nancy F. Wilson, N. H.; Lewis B. Wheeler, Mass.

All Poultrymen Are Interested in getting a bone cutter, which does its work cheapest and best. To get the most eggs in winter and spring and to get eggs that are strong in their fertile or hatching powers, no food excels fresh green cut bones in value. Every kind of a fowl relishes fresh meat and bones, and this kind of food pays better than any kind F & H knows of for it is time of the year. While there are several styles of bone cutters on the market, the best and most improved is always the cheapest in the long run. At the national export exposition, held at Philadelphia last fall, E. C. Stearns & Co of Syracuse, N. Y. were awarded a silver medal and diploma for excellence in manufacture of bone cutters. This enterprising concern also makes the best of ball-bearing lawn mowers, on which it also received diplomas and honorable mention. Our readers will find their catalog of great interest.

Almost Miraculous—Facts that are stranger than fiction. The wonderful results that have blessed the work of the christian scientists at the end of the nineteenth century seem almost miraculous to the ordinary layman who has not seriously considered their methods, or perhaps has forgotten that in the inspired word all things are promised to those who ask and that those who seek shall find. While the christian scientists of modern times make no claim of ability to work miracles or to raise the dead, it is an incontestable fact that through the knowledge of the superiority of mind over matter and the skill acquired by years of study of the lessons taught by the great intellects of all ages, the most wonderful results have been achieved in the cure of the physical ailments of distressed humanity. No disease has been proof against this treatment and no case of human suffering has failed to secure relief even when the sufferer has been without belief in christian

science and has had no personal knowledge of or contact with the healer. Notable among the most successful of the christian science healers of to-day, is S. A. Jefferson of Chicago, Ill, who is blessed by the grateful prayers of hundreds if not thousands of those who have been restored to health by the intelligent application of the methods of christian science. To those who are suffering and who desire to test the beneficial results of this treatment, bring in mind that distance and unbelief in the theory of christian science make no difference, a little book called A Message of Health and giving detailed information regarding this blessed truth, will be sent on application and receipt of a 2-cent stamp by S. A. Jefferson, 1800 Masonic Temple, Chicago, Ill.

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SOME OF GRANDMA'S RECIPES.

Although I have never been able to make my dishes taste like grandma's, here are a few of her original and old-fashioned recipes which I have carefully treasured, and make use of in my family constantly.

Corn Cakes: Stir 1 or 2 cups milk into 2 beaten eggs. Add corn meal enough to make a thin batter. The milk must be very sour, to which allow 1 heaping teaspoon saleratus. Beat until light and bake on a griddle.

Corn Bread: One cup sour milk, 1 of sweet milk, 1 tablespoon sugar, 1 teacup flour, 2 heaping cups corn meal, 1 teaspoon soda, 1 of salt, 1 1/2 tablespoons melted butter and 3 beaten eggs. Beat the eggs separately, add the melted butter to the milk, then the sugar, salt and yolks of eggs. Dissolve the soda in a little warm water the last thing add the whites of the eggs, flour and corn meal, beat together quickly and bake in a hot oven.

Old-fashioned Buckwheat Cakes: To 4 cups buckwheat and 1 small cup Indian meal, add 1 even tablespoon salt, 1 cup homemade or 1/2 cake compressed yeast, 1 1/2 cups water and 2 of sweet milk. Have the milk and water mixed lukewarm. Let this rise over night. In the morning stir into 1/2 cup warm water an even teaspoon soda. Add to the batter just before putting in the oven.

Old-fashioned Indian Pudding: Set 1 qt sweet milk on the stove to scald; when hot, carefully stir in 7 tablespoons Indian meal without lumping. Add 1 cup good molasses, let it boil up once, and pour into a buttered baking dish. Then stir in 1 cup cold milk, 1 teaspoon salt, and spice to taste. You may add 1 or 2 eggs if you wish. Bake slowly three or four hours.

Old-fashioned Brown Bread: Three cups corn meal, 1 cup flour, 1 cup molasses, 1 heaping teaspoon saleratus, dissolved in enough good sour milk to make a rather thin batter, 1 teaspoon-

ful salt. Steam three hours, bake one. Have the water in the kettle boiling furiously when the bread is first set to steam, otherwise it is apt to fall and be heavy.

Cottage Cheese: To 6 qts sweet milk add 2 of sour, put in a kettle or large basin, and place on the stove where it will keep warm, not stirring until the curd separates from the whey, then remove it with a skimmer to a coarse, clean cloth. Tie it up and drain off the whey, squeeze out with the hand all the water possible, put the curd on a dish and add 1 tablespoon butter and a little salt. If it seems dry and crumbly, add a little sweet cream, working it in evenly with the hands. Tie up in a cloth and keep in a cool place. It should be good in a week and makes an excellent relish.

Molasses Cookies: Here is her recipe for making molasses cookies without shortening, which the most confirmed dyspeptic can eat with perfect safety. Let 1 cup molasses come to a boil, stir in 1 tablespoon saleratus and 2 tablespoons vinegar, 1 cup granulated sugar, and remove from the stove, add 2 well-beaten eggs, 1 tablespoon ginger, and flour enough to roll lightly. They are very nice if not kneaded too hard.

I wish I could give you grandma's recipe for apple pie and cream short-cake, either of which would melt in your mouth, but exactly how the different ingredients were put together I have forgotten.—[Georgia A. Harris.

REQUESTED RECIPES.

Raised Doughnuts: One cup milk, 1/4 yeast cake, 1/4 cup lukewarm water, 1 teaspoon salt, 1-3 cup butter and lard mixed, 1 cup light brown sugar, 2 eggs, 1/2 grated nutmeg, flour. Scald and cool milk; when lukewarm, add yeast cake dissolved in water, salt, and flour enough to make a stiff batter; let rise over night. In morning add shortening melted, sugar, eggs well beaten, nutmeg and enough flour to make a stiff dough. Let rise again and if too soft to handle, add more flour. Toss on floured board, pat and roll to three-

fourths of an inch thickness. Shape with cutter and work between hands until round. Place on floured board, let rise one hour, turn, and let rise again. Fry in deep fat and drain on brown paper. Cool, and roll in powdered sugar.—[Fannie M. Farmer.

Doughnuts Raised from Dough: One pint risen milk bread dough, 1 cup sugar, 2 eggs, 1 tablespoon melted butter, spice to taste, flour enough to roll out.—[Mrs Lincoln.

COFFEE IS WHOLESOME.

Coffee is a stimulant and a food, wholesome and good, says Prof Harvey W. Wiley, head of the chemistry division of the department of agriculture. "The harm," he says, "from too much coffee or tea drinking comes from the reaction of the nerves after the effect of the stimulant has passed away. If the stimulation is not excessive there is no more harm done than in stimulating the stomach with hot water or food, or stimulating the body with exercise, or the brain with thought or study."

"The statement is frequently made," says Prof Wiley, "that strong coffee without milk in it will affect the lining of the stomach—that the tannic acid will operate on it as it does on the milk, changing the gelatinous parts of the tissue into leather. This is absurd. I mention it merely because some people without any knowledge of organic chemistry, and hearing about the operation of the tannic acid in coffee, have jumped to this hasty and ridiculous conclusion. The living tissues of the stomach are impervious to the action of this or any other of the many chemical ingredients of food. Were it otherwise the acids secreted by the stomach would act upon it and the stomach would digest itself.

"Tannin makes gelatine insoluble in water. This is why it preserves leather. The milk is broken up and separated, but the minute leathery particles are quite digestible. They are no longer milk, but they are a nutritious food. And at the same time the tannic acid, having entered into combination, is eliminated and the coffee has lost its bitter taste. What is true of coffee is

true of tea. Both have similar chemical properties. The addition of milk is for the same purpose, and is followed by the same chemical reaction. It is a mistake to imagine that coffee and tea are purely stimulants. The fact is both possess large amounts of food properties, such as sugars, starch and proteins. Coffee has more than tea, and as between the two, if either are harmful it is more apt to be tea.

"Coffee for breakfast should, in my opinion, be made with half milk. The best coffee is made with hot milk, the two being poured into the cup simultaneously. This prevents sudden or excessive cooling and facilitates the mixing and chemical combination of the elements. After dinner coffee is taken for stimulative purposes, and not so much as a food. Therefore it should be without milk, and the small cups should be equivalent in strength to a large cup of breakfast coffee."

Moles (by request)—To check the ravages of moles, knock off the resin from the outside of a ball of commercial potash, pulverize the potash, make small openings in their runways, which are easily located, drop at intervals a teaspoonful of potash and cover with a small flat stone. Ball potash is very caustic and must be handled with care; it is sure death to moles. Castor oil beans growing in ground infested with moles will check their ravages, and the plants are quite ornamental. A row of bricks placed lengthwise vertically around a flower bed will insure the bed against moles. The bricks should extend into the ground about eight inches, a depth below which moles never go even in the driest weather. Place the ends of the bricks even with the surface of the ground leaving little spaces between for drainage.—[Sarah E. Wilcox.

A father, in reproving his son, said sternly to him: "Did you ever see me doing such a thing as that when I was a boy?"

"Is this the cracked wheat, Jane?" "I dun' know, mum; I ain't looked at it or tched it, an' if it's cracked it wuz cracked afore I come here."

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TWELVE DEPARTMENTS.

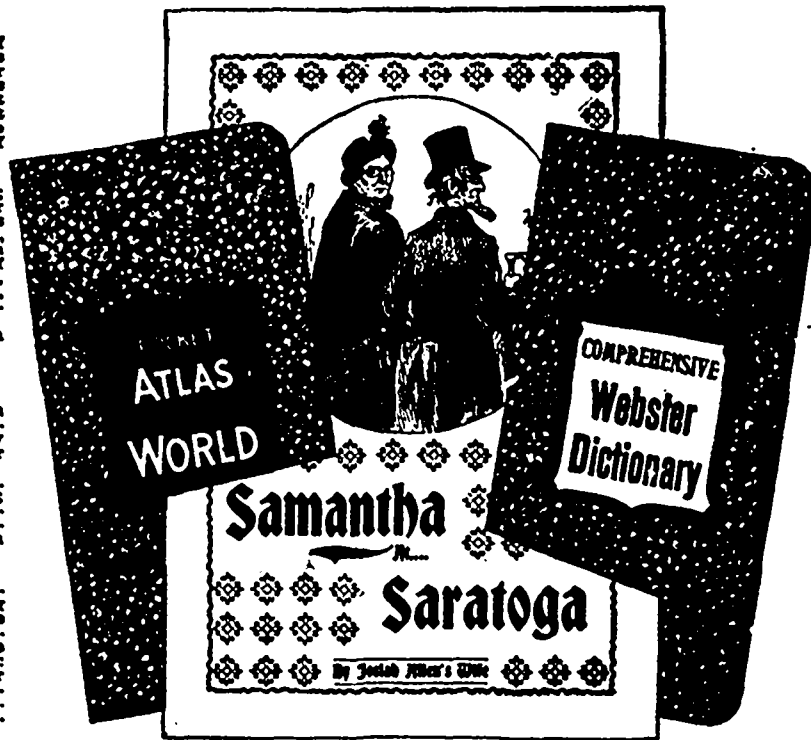
It is not only a dictionary, but a pronouncing and statistical gazetteer of the world, giving the correct spelling and pronunciation of the name of every country, state and province in the world, together with its area, population and capital; also a list of the large cities of the world. It also contains twelve departments, as follows: 1, Abbreviations; 2, Pronouncing Dictionary; 3, Proper Names; 4, Gazetteer of the World; 5, Large Cities; 6, Parliamentary Rules; 7, Business Instructor; 8, Social Etiquette; 9, Letter Writer; 10, Use of Capitals; 11, Punctuation; 12, Postal Guide.

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No humorous writer of modern times is so popular with the masses as is "Josiah Allen's Wife," and this is by far the best book she has ever written. It contains a number of funny illustrations, by Oppen, of Puck, is handsomely bound in stiff paper covers and is without doubt the funniest book of the century.

Over 150,000 copies of this great book have been sold in cloth at \$2.50 each, but lately, to put it within reach of everybody, it has been published in somewhat cheaper form. The new edition gives all the reading matter and illustrations, the same as the book which sold at \$2.50.

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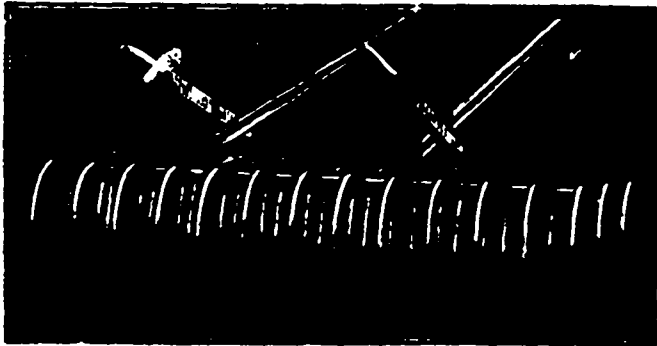


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More than 40,000 of our Weeders now in use. Does this mean anything? We expect our sales in the year 1900 alone to crowd these figures. Why? Listen, please:—Material used in manufacture of implements has advanced fully 100 per cent. Your dealer will ask you largely advanced prices for all implements. If you doubt this, call on him.

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Under U. S. patent No. 600,782, issued on March 15, 1900, we have the exclusive right to make a Weeder having teeth substantially round at lower end and a flat spring-riding upper portion. This style of teeth gives our Weeder great superiority over all round tooth Weeders and has caused it to become immensely popular. Farmers demanded of their dealers a Weeder having such teeth, and the dealer in turn demanded them of the manufacturer. This led different manufacturers to assume the risk of using a similar tooth. Therefore, we hereby notify manufacturers, dealers and farmers that we have already brought suit against several and will promptly and vigorously prosecute all similar offenders.

Let us repeat:—It is an absolute fact that the price of all implements has advanced from 25 per cent to 50 per cent but Hallock's celebrated Success Weeder will be sold at the old prices. Trade always follows where our Weeder is introduced, therefore, to get this trade, we will quote Special Price to first purchaser. Remember, we are the Weeder people and we have the price that sells.

**D. Y. HALLOCK & SONS, Box 811, York, Pa.**

### Around the Globe.

**Washington Talk**—The arbitration treaty, drawn up at The Hague last year and ratified already by several European governments, including Great Britain, was brought before the United States senate for ratification.

The bribery case against Senator Clark of Montana revealed a shocking condition of politics in that state. The fight was seen to have been between Dr. Clark and a rival mine-owner, Marcus Daly. Wholesale charges of bribery were made by each side in the controversy against the other. The senate committee on privileges and elections, which held the hearings, was made up of Messrs Chandler of New Hampshire, Hoar of Massachusetts, Burrows of Michigan, Spooner of Wisconsin, Pritchard of North Carolina and McComas of Maryland, all republicans, and Messrs Caffery of Louisiana, Pettus of Alabama and Turley of Tennessee, democrats. Senator Clark and Marcus Daly are both democrats. Many witnesses were summoned from Montana and the investigation will be very expensive for the government.

Feb 15 is the date set by the United States senate for a vote on the financial bill.—A bill has been introduced in the house creating a preserve for the American bison in New Mexico, with a view to reviving this almost extinct species.

St. Louis has come before congress asking for \$5,000,000 in aid of its world's fair of 1903, to celebrate the acquisition of the Louisiana purchase by the national government. The condition to which the city agrees in asking for this great sum is that it shall furnish for its... double that amount \$10,000,000, to be contributed by the citizens of the city and \$5,000,000 to be locally appropriated by its city government.

The \$100,000,000 in gold coin and bullion held by the treasury the past few weeks breaks the record. It is the largest accumulation of gold in the world, outside of the Bank of Russia. Much of this gold is not the property of the government, but is held against outstanding gold certificates. The net gold reserve is now over \$220,000,000.

Treaties with 25 nations were found to stand in the way of the huge grab known as the shipping subsidy bill. Its promoters accordingly subsided. These nations were found to be entitled to have their ships receive the same export bounties enjoyed by our own vessels. Moreover if a bounty on exports is to be granted, it must apply to all exports impartially.

Republican newspapers are severe in their criticism of the republican committee of the house, whose majority decided that Congressman Roberts of Utah should not be seated. Roberts was legally elected and when found a polyanimal could be expelled by a two-thirds

vote of the house. A minority of two urged that he be seated according to law and then expelled. To refuse a man his seat when he is legally elected is a dangerous precedent.

**The Boer War**—The British force now in South Africa or about arriving there numbers 160,000 men, 32,000 horses and 445 guns. This is accomplished without stripping India, England and Ireland of their battalions, stiffened by militia, and without calling for more than 10,000 out of 25,000 citizen soldiers. The most shocking revelation yet made concerning the conduct of the war is the accusation contained in the last letter written by the late Gen Wauchope, in which... charges Gen Methuen with sending him and his splendid Highland brigade to sure and useless death at Magersfontein. It was like Lord Cardigan's mad charge at Balaklava.

Canada has sent 2200 men to the war and an appropriation of \$2,000,000 will be asked of the Dominion parliament toward defraying the cost of these troops. The money is pretty sure to be appropriated. A surplus of \$1,500,000 in the Dominion treasury is predicted on account of growing trade revenues.

The little Samoan island of Tutuila is not ours, after all: only the harbor and Pago Pago adjoining. The island will be protected by the United States, though, under a treaty made with the Samoan king in 1878.

New York city is to have an underground railroad the length of Manhattan island, the contract having been awarded to John H. McDonald, who built the Baltimore and Ohio tunnel in Baltimore, for \$25,000,000. He expects to have the main lines done in three years.

Bell telephone in its effort to choke off the independent telephone movement has absorbed 70 per cent of the independent lines in Michigan, the Erie system, which is operated under the Bell patents, having accomplished this. The Erie system is now the largest in America, controlling the companies under the Bell patents in North Dakota, South Dakota, Minnesota, Wisconsin, Michigan, Arkansas, Texas and in Cleveland, O. The combined capital of its companies is \$22,000,000.

Railroad consolidation took a long step forward with the decision of the roads east of the Mississippi and north of the Ohio to do away with passenger and freight agents, solicitors and commissioners, and have a joint agency for the care of traffic in each city. Some 50,000 men will lose their positions on account of this change. A similar plan for the district from Chicago to the Rocky mountains is afoot. Congress having refused to legalize pooling, the great capitalists say they will buy up every railroad in the country if nec-

sary in order that they may pool and secure the economy that is to be gained thereby.

### THE HORSE AND MULE MARKET.

The war between the British and Boers has not affected the western horse market noticeably, but has the mule market very materially, one firm having already shipped 10,000 from Kansas City to Africa, and is now trying to fill another large order. This has almost depleted the west of serviceable mules. The demand for cotton mules is now stronger than for some time and prices on 14 1/2 to 15 and 15 1/2 hands mules are higher than for years on account of war and southern trade. The large heavy mule is not so much in demand now as it will be in 30 to 60 days.

Trade in horses is healthy and prices higher, because horses are scarcer than for some time. The best have mostly been sold. Farmers have not been breeding and have sold so closely that they are now having to buy work horses. The demand for speed and pleasure horses is very good and will grow better for the next 4 to 5 yrs, and prices gradually increase as supply decreases. This is especially true of this class of horses because of our prosperity; the greater our wealth, the easier money is and the more pleasure driving is done. Farmers have sold their best mares, the very ones they now need to breed from. They have not to exceed one colt growing now, where they formerly had 10, and now it will take 5 to 6 yrs to grow what we need and we will need more draft and pleasure horses than we can supply, because of "expansion" and a large trade with foreign countries. In 1894 we exported 600 horses, while in 1899 our exports were 40,000.—[O. P. Updegraff, Kan.]

**Every Dairyman Interested**—The production of milk, cream, butter and cheese has been reduced to so fine an art that the most improved appliances must be used to secure the largest profits. One of the nearest and most elaborate catalogs on dairy supplies that has come to the notice of F & H, is that of the Dairyman's Supply Co, 137 Market street, Philadelphia, Pa. Among the specialties of this enterprising firm are separators, creamers, jars, vats, churns, printers, refrigerators, coolers and dairy machinery of all kinds and for all purposes. Readers of F & H will find it to their advantage to drop a postal to the Dairyman's Supply Co for their annual catalog for 1900; please mention F & H when doing so.

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