

Agriculture.

TO MAKE BOYS FARMERS.

The American Agriculturist says: Induce the boys to take an interest in the farm, in the implements, in the stock; tell them all your plans, your successes and failures; give them a history of your life and what you did, and how you lived when a boy; but do not harp too much on the degenerate character of young men of the present age; praise them when you can, and encourage them to do still better. Let them dress up in the evening, instead of sitting down in their dirty clothes, in a dirty room. Provide plenty of light. Thanks to kerosene, our country homes can be as brilliantly lighted as the gas-light residences in the city. Encourage the neighbors to drop in evenings. Talk agriculture, rather than politics; speak of the importance of large crops, of good stock, of liberal feeding, and of the advantage of making animals comfortable, rather than of the hard times, low prices and high wages. Above all encourage the boy to read good agricultural papers. Get him some good agricultural book to study. Read it with him and give him the benefit of your experience and criticism. When he has mastered this, give him another. In our case, we owe our love for farming principally to the fact that our father told us everything that he was doing on the farm; answering all the questions and encouraging, rather than refusing, our child-like desire of helping him to plow, to crop, to drain as well as firing the brush heap.

HOW TO KEEP CELERY.—A correspondent of Moore's Rural gives the following hints:

For the benefit of those of your readers who have never succeeded in keeping celery in eatable condition throughout a winter, (and I know of several) I will give a rule by which I preserved celery, free from rot or rust as late as the last of March. Never work at celery in any way, except the plants be perfectly dry. Earth up never before 10 o'clock, A. M., or after 4, P. M., and then only on a very dry and sunny day. In the fall, as soon as the ground begins to freeze enough to make the slightest crust in the morning, select a dry and sunny day, and as near noon as possible, pack your celery in boxes (I used soap or starch boxes); placing first a layer of earth, about one inch deep; then a layer of celery; placing the plants far enough apart to not lay against each other, and thus alternating earth and celery until the boxes are filled, having the first and last layers on earth. Place the boxes where the celery will not freeze (but not in a heated room), and your celery will keep splendidly and be always convenient for use.

A LADY asked her gardener why the weeds, always outgrew and covered up the flowers. "Madam," answered he, "the soil is mother of the weeds, but only step-mother of the flowers."

A BREAKFAST DISH.—This is from a good foreign authority;—Bruise into a saucepan four ounces of cheese, two ounces of butter, one pint water, with a little salt; boil gently, adding by degrees as much flour as will thicken it; let it dry on a stove until it is like thick new butter; then add two or three eggs, and a little cayenne.

GOOD BUCKWHEAT CAKES.—Mix two quarters buckwheat, one quarter flour, and one quarter cornmeal. Use bakers' yeast, and tepid water, and let it stand over night. The cakes will brown quickly on a hot pan, and are light and nourishing.

HOW TO CURE DYSPEPSIA.—Have a right good talk, with a funny anecdote or two, and a half-dozen hearty laughs, with each meal. The eating alone at a restaurant, and shovelling in the provender in solemn silence, would give dyspepsia to an ostrich.

MOLASSES DROP CAKE.—One cup of molasses, half a cup of butter or lard, half a cup of water, three cups of flour, two teaspoonfuls of ginger, one teaspoonful of soda. Beat well together, and drop with a spoon on a buttered pan, or in muffin-rings. Bake quickly.

QUICKLY MADE FRUIT CAKE.—Take three eggs, one cup of sour cream, one cup of butter, four cups of flour, two and a half cups of raisins, chopped fine, two cups of brown sugar, one teaspoonful of soda, one of cloves, and one of cinnamon. Bake slowly.

Scientific.

IRON IN THE BLOOD.

Probably no fact in medical or chemical science is more widely understood than that there is "iron in the blood." As a fact it is no more remarkable than that this fluid holds potassium or sodium, or that the brain is permeated with phosphorus. The popular curiosity and interest regarding iron as it exists in the circulation have been excited by the vendors of quack remedies alleged to contain some combination of the element. While there is much that is very absurd in the statements popularly presented, it is impossible to overlook the importance to the well-being of the individual of the few grains of iron found in the blood. If the quantity is diminished from any cause, the whole economy suffers serious derangement. We have reason to believe that when the normal quantity (about 100 grains) is reduced ten per cent, the system is sensibly affected, and the health suffers. How sensitive to all the chemical reactions going on within and around us is this complex machine we call the body! But iron, among the mineral constituents of the body, does not stand alone in its important relationship. The metals exist combined with other bodies, or they are locked up in the form of salts, vital to the economy. There are five pounds of phosphate of lime, three ounces of fluoride of calcium, three and a half ounces of common salt, all of which have important offices to fill. Not one of them must be allowed to fall in quantity below the normal standard. If the lime fails, the bones give away; if salt is withheld, the blood suffers and digestion is impaired; if phosphorus is sparingly furnished, the mind is weakened, and the tendency is toward idiocy.—Dr. Nichols' Fireside Science.

HOW GAS IS MADE.—The Marlboro' Mirror publishes a sort of gas catchism, which conveys a good deal of important "light" to the juvenile mind on this subject:

"How do they make gas?" "First, they put about two bushels of bituminous coal in a long, air-tight retort. This retort is heated red-hot, and, of course, the coal is heated red-hot, when the gas bursts out of it as you see it burst out of the lumps of soft coal when on the parlor-fire. The gas passes off through pipes. A ton of coal will make 10,000 cubic feet of gas. The gas as it leaves the coal is very impure." "How do they purify it?" "First, while hot, it is run off into another building, then it is forced through long perpendicular pipes, surrounded with cold water. This cools the gas, when a good deal of tar condenses from it, and runs down to the bottom of the perpendicular pipes. This tar is the ordinary tar which you see boiling in the streets for walks and roofs." "They now wash the gas. They call it scrubbing it." "This is done by filling a large vessel, which looks like a perpendicular steam boiler, half full of wood laid crosswise. Then ten thousand streams of cold water are spurted through this boiler. Through the mist and rain, and between the wet sticks of wood, the gas passes, coming out washed and cleansed. The ammonia condenses, joins the water, and falls to the bottom." "What next?" "Well next the gas is purified. It is passed through vats of lime and oxide of iron, which take out the carbonic acid and ammonia." "What next?" "The gas is now pure. It is passed through the big station metre, then through the mains and pipes, till it reaches the jet in your room. Then it burns; while we all scold because it don't burn better."

HOW TO BORE HOLES IN GLASS.—Any hard steel tool will cut glass with great facility when kept freely wet with camphor dissolved in turpentine. A drill may be used, or even the hand alone. A hole may be readily enlarged by a round file. The ragged edges of glass may also be thus smoothed with a flat file. Flat window glass can be readily sawed by a watch spring saw, by the aid of this solution. In short, the most brittle glass can be wrought almost as easily as wood, by the use of cutting tools kept constantly moist with camphorized oil of turpentine.

HALIFAX, N.S., NOVEMBER 27, 1872.

MESSENGER ALMANACK.

DECEMBER, 1872.

First Quarter, Dec. 7th, 7h. 22m. m. rising. Full Moon, " 14h. 6h. 30m. afternoon. Last Quarter, " 22nd, 9h. 57m. afternoon. New Moon, " 30th, 2h. 22m. morning.

Table with columns for Day, SUN, MOON, High Tide, and Low Tide. Rows list days from 1st to 31st with corresponding times and tide heights.

THE TIDES.—The column of the Moon's Position gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro. High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours 55 minutes later. At Westport, 2 hours 51 minutes later. At Yarmouth, 2 hours 20 minutes later.

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BOOTS AND SHOES, at all Prices BOOTS AND SHOES, in all sizes. BOOTS AND SHOES, made after the latest French, English and American designs. Examine for yourselves, compare with other Goods, and if found worthy, encourage Home Manufactures.

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Collins' Constitution Horse Balls For the cure of Bots and Worms in Horses. See Directions on Box. Manufactured by W. J. NELSON & CO.

NELSON'S CELEBRATED Cherokee Vermifuge.

WORMS.

Advertisement for Nelson's Cherokee Vermifuge. Includes illustration of a woman holding a child, and text: 'Pleasant to take. WHENEVER a child is noticed to be growing habitually pale, complaining of violent pains in the stomach and abdomen, has variable appetite and a dry cough, and is frequently led, by irritation, to carry the hands to the nose, then try Nelson's Cherokee Vermifuge, for it is certain that the child has WORMS. PRICE 25 CTS.'

Nelson's Cherokee Vermifuge will certainly effect a cure, whether the person afflicted be infant or adult, as is proved by its universal success; which has been such as to warrant the offer to

Return the Money in any case in which it should fail to prove effectual, when the symptoms have justified the administering of the Vermifuge.

It is hereby certified that this preparation contains no mercury, and is an innocent medicine, incapable of doing the least injury, even to the most tender infant, if given strictly according to the directions enclosed with each bottle. PREPARED BY W. J. NELSON & CO., BRIDGEWATER, N.S. Sold by all Druggists and respectable dealers in the Dominion.

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The following are offered at about one-third less than the publishing prices in London, in order to extend their circulation as widely as possible. Many of them have been extensively owned by the Spirit of God in the salvation of souls. The prices are given, with the postage on each when ordered by mail.

Table listing various religious tracts and books with their respective prices and postage costs.

July 31. PROSPECTUS OF THE

CARBOLINE GAS LIGHT COMPANY.

Incorporated by Act of Parliament, May, 1872. CAPITAL . . . \$100,000. PROVISIONAL DIRECTORS: J. TAYLOR WOOD, Esq., C. F. DEWOLFE, Esq., R. C. HAMILTON, Esq., Wm. LAWSON Esq., THOS. SIMMONDS, Esq., M. D. MANAGER. THOS. SIMMONDS, Esq., M. D. GAS ENGINEER, JOSHUA KIDD, Esq., C. E.

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Agent for the NEW YORK FASHION PLATES. 331 HOLLIS STREET. HALIFAX, N. S. May 17. 1872.

GOVERNMENT HOUSE, OTTAWA. Monday, 7th day of Oct., 1872. PRESENT: His Excellency the Governor General in Council.

On the recommendation of the Hon. the Minister of Customs, and under the provisions of the 8th Section of the Act 31st Victoria, Chapter 6, intitled, "An Act respecting the Customs" His Excellency has been pleased to order, and it is hereby ordered, that L'ARDOISE in the Province of Nova Scotia be, and the same is hereby constituted and erected into an out port of Customs, and placed under the survey of the Collector of Customs at the Port of Arichat. W. A. HIMS WORTH, Clerk, Privy Council.

THE CHRISTIAN MESSENGER Is published every WEDNESDAY. Terms—Two DOLLARS a year, when paid in advance; if payment is delayed over three months \$2.25 when over six months \$2.50. Subscribers beyond the Dominion of Canada, must send in addition to the above, 20 cents a year for prepayment of postage.

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