

Agriculture.

WHAT THE LEAF DOES.

It pumps water from the ground, through the thousands of tubes in the stem of the tree, and sends it into the atmosphere in the form of unseen mist, to be condensed and fall in showers; the very water that, were it not for the leaf, would sink in the earth and find its way, perchance, through subterranean channels to the sea. And thus it is that we see that it works to give us the "early and the latter-rain."

The trees on an acre give 800 barrels in twenty-four hours. An acre of grass, or clover, or grain, would give the same result. The leaf is a worker, too, in another field of labor, where we seldom look—where it works for the good of man in a most wonderful manner. It carries immense quantities of electricity from the earth to the clouds, and from the clouds to the earth.

FLORICULTURE.—All lovers of flowers must remember that one blossom allowed to mature or "go to seed" injures the plant more than a dozen new buds. Cut your flowers then, all of them, before they begin to fade. Adorn your rooms with them; put them on your tables; send bouquets to your friends who have no flowers; or exchange favors with those who have. You will surely find that the more you cut off the more you will have.

Farming should not be looked upon merely as a means of subsistence, but adopted partly with the view of enabling us to cultivate the moral, intellectual and social powers, and to discharge the duties devolving upon us as citizens, under circumstances the most favorable.

A correspondent of the Rural Home says he turns small onions to good account by planting them in the fall in well-prepared beds. In May or June they will be fit to pull and bunch for market, and cabbage or potatoes may afterwards occupy the ground.

POT-PIE CRUST.—A lady who has been sorely tried in getting pot-pie crust just right, has at last procured a recipe that can be relied on when the directions are closely followed: One pint butter, three tablespoonfuls sour cream, one heaping teaspoonful salaratus, and a little salt. Mix as for biscuit. Let it rise one hour, then dip a spoon in the broth, and with it drop in the dough in pieces, and boil half an hour.

An abbey in Ireland exhibits two skulls of Shakspeare—one of him when he was a little boy, and the other when he was a man.

Scientific.

THE MILLION DOLLAR TELESCOPE.

Some of the savans of the United States who wish to have every thing the "biggest" that is possible, are advocating the appropriation of a Million Dollars of the public money for a big telescope. There have been several communications on the subject in the Scientific American. One of those in a late issue has some sensible suggestions in reference to this matter. He says:—

Before we make the telescope, let us have some ideas of what may be expected to be discovered by its use. Judging from the remarks of some of your correspondents, they probably expect to see, on the distant planets, mountains and valleys, rivers and lakes, cities and towns, and even the sort of inhabitants who occupy them. Now if we admit that all these things are there, and that we have a telescope powerful enough to see objects at that distance which are no larger than a man, is there not still a difficulty to be overcome, which has escaped attention? This difficulty is readily understood when we consider the immense velocity of the earth in its daily revolution, and also that of the planet under view. It is easy enough to see the planet whirling in space, but we may probably require something more than the powers of an instantaneous photographic machine to form any proper idea of the particular objects on its surface; though with our moon, which mostly has but one side towards us it may be somewhat easier. If any one doubts, let him place himself on the periphery of a wheel which is turning round at the rate of five thousand revolutions per second, and then try to discover the beauties of a flea which is revolving on another wheel at the rate of ten thousand revolutions in a second, in a contrary direction. After this experiment, let us hear what he has to say on the subject.

A LARGE CASTING.—At the South Brooklyn Steam Engine Works, in Brooklyn, the second immense anchor plate for the East River bridge was recently cast. Four weeks were occupied in forming the mold alone. A circular excavation was first made, twenty-five feet in diameter and three feet deep, at the bottom of which was placed an iron plate. Upon this a course of brick, eight inches thick, was laid in a mortar of fine sand and fire clay; the upper surface was then levelled off and baked with charcoal. This surface served as the base of the mold, which was of loam, secured by brickwork and iron girders built in sections.

The anchor plate is of oval shape, seventeen feet six inches by sixteen feet in dimensions, with a thickness at the ribs of three feet. It weighs 47,000 pounds when cleaned, and its cost is \$3,200. About 60,000 pounds of iron were melted, transferred to a huge tank, and thence allowed to flow into the mold. The casting took place without accident and was allowed one week to cool.

The London Standard has an account of a new electric light, recently tested in that city, which it describes as one of the most remarkable scientific achievements of the day. It gives a light equivalent to 10,000 candles. Its great value lies in its constancy, the current being absolutely unintermittent.

A lazy dyspeptic was bewailing his own misfortunes, and speaking with a friend upon the latter's hearty appearance. "What do you do to make yourself so strong and healthy?" inquired the dyspeptic. "Live on fruit alone," answered the friend. "What kind of fruit?" "The fruit of industry; and I am never troubled with indigestion."

A Russian machine shop near the city of Kolom employs four thousand workmen, and makes, principally, locomotives, railroad and iron bridges. The establishment rivals in magnitude the finest workshop of England or the United States.

Experiments often repeated have shown that a plant may be raised in a flower pot from a seed and receive no nourishment but pure water, yet shall far exceed in weight all the soil in which it grew.

HIGHLY IMPORTANT TO FARMERS AND OTHERS.

NUTRITIOUS CONDIMENT FOR HORSES AND CATTLE—The best and most economical Food for Horses and Cattle in existence. Read the following Certificate from Gen. Doyle and Staff:

HALIFAX, 20th March, 1873. We the Undersigned do hereby certify to the beneficial effects of the North British Cattle Food Company's NUTRITIOUS CONDIMENT, in our stables:— (Sgd) Hastings Doyle, Lt.-General. N. Stevenson, Major, 87th R. I. F. R. E. Robertson, Major, 60th Rifles. A. S. Quill, Brigade Major. R. Nagle, Captain, Town Major. N. W. Wallace, Capt. 60th Rifles, and numerous Citizens. This valuable Condiment may be had at the Agency, 83 Lower Water St., in bags at prices from \$1 1/2 to \$3.00; the \$1 1/2 bags contains enough to season 100 feeds for a Horse, Cow, or any other animal. May 7.

One Hundred and thirty first class steamers are now employed on the various lines, plying between New York and European ports. During the last thirty-two years—or since ocean steam navigation was fairly begun—forty-four steamers have been wrecked.

"My child," said Uncle Sambo to his beloved son, "don't you nebbor do any work afore breakfast! Ef it am necessary to work afore breakfast, you jes have your breakfast! fust."

ACCORDING to Dr. Wallace, of Glasgow, the mortar used in the construction of the great pyramids of Egypt was composed chiefly of plaster of Paris—hydrated sulphate of lime.

A Matrimonially inclined contemporary says, that a girl with three thousand a year, or more, is always an object of interest, because she has so much principal.

NOTICE.

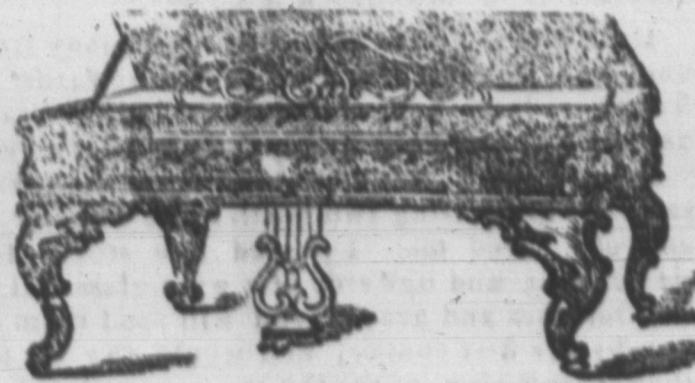
THE Subscriber offers for Sale his well known Farm, Situate in Wilmot, County of Annapolis, on the North back road, about one half mile east from the Wilmot Sp. Springs, and about one and a half miles from the Railroad Station. Said farm contains 125 acres of very valuable land, advantageously divided into Hay, Pasture, and Woodland. The hay and tillage land are under a superior state of cultivation, and the pasture is of an excellent quality, and wood lot sufficient to supply a family for generations to come. On the Farm is a comfortable House of Six and accommodations to suit a large family. Also 2 good Barns, with other convenient out buildings all in good state of repair. An abundant supply of water is carried into the House by pipes from a never failing Spring, and also taken for the use of the farm.

There are about 100 grafted apple trees producing from 60 to 200 barrels annually. This property is so well known that further particulars are unnecessary.

The terms of payment will be made easy, only a small proportion will be required down, with good and approved security for the remainder.

The stock and farming utensils can be had by a purchaser of the farm if required. For further particulars apply to the owner on the premises.

GEORGE BALLENTINE, Wilmot, County of Annapolis, January 22nd, 1873. Jan. 29



Superior Pianos.

IN VARIOUS STYLES. UPRIGHT, OBLIQUE, SQUARE, &c. With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of THE "SILVER TONGUE."

A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y. The above are offered to a discriminating public at moderate prices.

WM. FRASER & SONS, June 1. 70 & 72 Barrington St.

H. G. LAURILLIARD, TAILOR, GENTLEMEN'S DRESS MATERIALS, AND Furnishing Goods constantly on hand. Agent for the NEW YORK FASHION PLATES. 231 HOLLIS STREET. HALIFAX, N. S. May 17.

To Parents and Sabbath School Teachers. JUST PUBLISHED. SECOND EDITION—REVISED.

A SCRIPTURE CATECHISM, for the Family, the Bible Class, and the Sabbath School, BY S. SELDEN. Price 3 cents or \$6.00 per 100.

HALIFAX, N. S., JUNE 11, 1873.

MESSENGER SCHEDULE.

JUNE, 1873.

First Quarter, June 8th, 2h. 5a. morning. Full Moon, " 10th, 5h. 47m. afternoon. Last Quarter, " 17th, 11h. 17m. morning. New Moon, " 24th, 4h. 58m. afternoon.

Table with columns: Day, SUN., MOON., High Tide. Rows for days of the month from 1st to 30th.

THE TIDES.—The column of the Moon's Southings gives the time of high water at Pictou, 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 30 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 minutes later.

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.—Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising in morning.

Joyful news for the Afflicted.

GATES' Life of Man Bitters.

Mrs. Alice Robinson of Williamston, in the county of Annapolis and Province of Nova Scotia, deposes and saith that in the year 1840 she was fearfully and distressingly afflicted with a combination of complaints which altogether rendered her almost helpless, during which time she was treated by one of the ablest physicians residing in the county, and part of the time by two Physicians for about a year, and still was not sensible of any material benefit or relief. And after a time she was recommended to a medicine at that time prepared by Mrs. Gates of Wilmot, which in an incredibly short time acted like a charm upon her whole system, and she was entirely cured of all her various difficulties and complaints and remained as she considered a sound and healthy woman for about twenty five years.

Mrs. Robinson further states that in the autumn of 1869 she was taken ill and was under the doctors hands all winter, and in the spring ensuing she was taken with a most obstinate and distressing cough which the Doctor was unable to cure. She was also afflicted with the piles and other troublesome complaints. At length she resolved to apply to Dr. Caleb Gates for assistance and help, and soon found them all yielding to the power and influence of his justly celebrated medicines, and says she is completely free and cured of all those various difficulties through the kindness and skill of Dr. Gates and the efficacy of his most excellent medicine.

Mrs. ALICE ROBINSON. Sworn to at Williamston, this 9th day of February, A. D., 1872, before me, JAMES WHELLOCK, J. P. Lunenburg, Nova Scotia. Sept. 18, 1871.

Dear Sir:—Last winter I was so troubled by a severe cough that I feared consumption would ensue. I failed to obtain relief from any course, until I tried your medicine. I now state on my oath, that one bottle gave me relief. I continually keep it for the use of my family and would not think of being without it.

Yours most respectfully, GEORGE ARENBURG. Sworn before me one of Her Majesty's Justices of the Peace for the county of Lunenburg. JAMES D. SELLIE, J. P.

PRICE. Bitters \$1 per quart; Syrup 50 cents per pint bottle; Liniment 30 cents per bottle and the salinest 30 cents per box. Address CALEB GATES & CO., Farmington, Wilmot, Annapolis Co.

A large number of certificates, similar to the above, have been received and will be published at times for the information of the afflicted and the people generally.

AGENTS.—George V. Rand, Wolfville. John Webb, Windsor. J. E. Newcomb, Hantsport. J. L. Cogswell, Kentville. Sheffield & Wickwire, Canning.

GENERAL AGENT, JOHN K. BENT, 126 Granville Street, Halifax. May 21.

BAZAAR.

THE Ladies of the Baptist Sewing Circle in Onslow intend holding a sale of useful and ornamental articles, at the New Baptist Meeting-House in Onslow, in the last week in June or the first week in July ensuing of which timely notice will be given. Tea and Refreshments will be furnished on the occasion, the proceeds to be in aid of the Baptist Church Building-Fund.

Contributions which will be gratefully received, and may be forwarded to Mrs. JAMES McCURDY, Mrs. JAMES LINTON, Mrs. FRANCIS LARRAIN. Onslow, May 21st, 1873. May 25.

INTERCOLONIAL RAILWAY.

1873—Summer Arrangements—1873

COMMENCING ON MONDAY, 26th May, 1873.

No. 1. (Through Passenger Express) will leave Halifax at 7.30 a. m., and be due in St. John at 8.30 p. m. This train will stop (between Halifax and Truro) only at Windsor Junction and Shubenacadie; and (between Paines and St. John) only at Booking Stations, except where it may be necessary to cross other trains or to put down passengers who may have got on board at Paines and stations East and South of that place.

No. 2. (Through Passenger Express) will leave St. John at 8 a. m., and be due in Halifax at 8.50 p. m. This train will stop (between St. John and Paines) only at Hampton, Su-sex, Petitediac and Moncton; and (between Truro and Halifax) at Shubenacadie and Windsor Junction, except where it may be necessary to cross trains or to put down passengers who may have got on board at stations North and West of Truro.

Nos. 3 and 5. (Pictou Passenger Accommodation) will leave Halifax at 6.15 a. m., and be due at Pictou at 12.15 p. m. No. 4. (Shediac Passenger Accommodation) will leave St. John at 7 a. m., and be due at point DuChene at 12.15 p. m.

Nos. 7 and 9. (Freight and Passenger Accommodation) will leave Halifax at 11.30 a. m., and be due at Pictou at 8.15 p. m.

Nos. 8 and 10. (Freight and Passenger Accommodation) will leave St. John at 10.50 a. m., and be due at Point DuChene at 7.25 p. m.

No. 11. (Truro Freight) will leave Halifax at 3.30 p. m., and be due at Truro at 9.10 p. m.

No. 12. (Passenger Accommodation) will leave Paines at 4.20 p. m., and be due at Point DuChene at 5.00 p. m.

No. 13. (Truro Passenger Accommodation) will leave Halifax at 5.15 p. m., and be due at Truro at 8.15 p. m.

No. 14. (Passenger Accommodation) will leave St. John at 2.00 p. m., and be due at Hampton at 3.10 p. m.

No. 15, 17 and 19. (W. & A. R.) will leave Halifax for Windsor Junction at 8.09 and 8.45 a. m., and 3.00 p. m.

No. 16. (Petitediac Freight) will leave St. John at 2.45 p. m., and be due at Petitediac at 8 p. m.

No. 18. (Su-sex Passenger Accommodation) will leave St. John at 4.40 p. m., and be due at Su-sex at 6.40 p. m.

No. 20. (Truro Passenger Accommodation) will leave Truro at 6.00 a. m., and be due in Halifax at 9.15 a. m.

No. 21. (Su-sex Passenger Accommodation) will leave Su-sex at 7 a. m., and be due in St. John at 9.00 a. m.

No. 22. (Truro Freight) will leave Truro at 6.45 a. m., and be due in Halifax at 1.20 p. m.

Nos. 23 and 25. (Shediac Passenger Accommodation) will leave Point DuChene at 6.50 a. m., and be due in St. John at 12 noon.

Nos. 24 and 26. (Freight and Passenger accommodation) will leave Pictou at 6.00 a. m., and be due in Halifax at 2.34 p. m.

No. 27. (Petitediac Freight) will leave Petitediac 7.00 a. m., and be due in St. John at 1.30 p. m.

Nos. 28 and 30. (Pictou Passenger Accommodation) will leave Pictou at 1.45 p. m., and be due in Halifax at 7.30 p. m.

No. 29. (Passenger Accommodation) will leave Hampton at 5.45 p. m. and be due in St. John at 6.55 p. m.

Nos. 31 and 33. (Shediac Passenger and Freight Accommodation) will leave Pt. DuChene at 10.30 a. m., and be due in St. John at 7.45 p. m.

Nos. 32, 34 and 36. (W. & A. R.) will be due in Halifax at 11.00 a. m., 6.45 p. m. and 8.25 p. m.

No. 35. (Passenger Accommodation) will leave Point DuChene at 3.20 p. m., and be due at Paines at 4 p. m.

Nos. 37 and 39. (Truro and Moncton Freight Passenger Accommodation) will leave Truro at 9.30 p. m., and be due at Moncton at 8.10 a. m.

Nos. 38 and 40. (Moncton and Truro Freight and Passenger Accommodation) will leave Moncton at 6.45 p. m., and be due at Truro at 5.30 a. m.

LEWIS CARVELL, General Superintendent. RAILWAY OFFICE, Moncton, 19th May, 1873. May 21.

FANCY SALE AT ANTIGONISH.

THE Ladies of the Antigonish Baptist Sewing-Circle intend holding a Sale of Fancy Articles early in the ensuing Summer for the purpose of aiding in the erection of

A NEW BAPTIST MEETING HOUSE. Contributions to the Fancy or Cash department, will be most thankfully received by either of the following Committee, Mrs. F. Cunningham, Mrs. T. M. King, Mrs. C. B. Whidden, Mrs. I. P. Robb, Mrs. J. B. McQuillin, Antigonish; Miss Maggie Hill, Sydney; Miss Fannie King, Truro; Mrs. Reuben Hart, Halifax. Antigonish, March 22nd, 1873. April 2.

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.

ADVERTISING at usual rates. STEPHEN SELDEN, Proprietor. Office No. 71 GRANVILLE STREET, HALIFAX, N. S.

PRINTING of Books, Pamphlets, Cards, Handbills, Blank forms, &c., &c., on reasonable terms. Magistrates Blanks always on hand.