

The Christian Messenger.

HALIFAX, N.S., DECEMBER 23, 1874

ALMANAC FOR DECEMBER.

New Moon, Dec. 8th, 7h. 52m. afternoon: First Quarter, " 16th, 8h. 10m. morning: Full Moon, " 23d, 9h. 42m. morning: Last Quarter, " 30th, 10h. 22m. morning.

Table with columns: Day, SUN. Rise, MOON. Rise, High Tide. Lists data for each day of the month.

THE TIDES.—The column of the Moon's Pathing 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.

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 24 hours, and to the remainder add the time of rising on the following morning.

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Send for Circular. July 15

BETCHER'S PECTORAL MIXTURE FOR Coughs, Colds, Whooping Cough, Asthma, &c.

CERTIFICATES. This article has been known to give immediate relief in Chronic Coughs when other remedies have utterly failed.

To be had of the Manufacturer J. W. BETCHER, No. 27 CORNWALLIS STREET, HALIFAX, N. S.

HALIFAX, March 10th, 1873. J. W. BETCHER, Esq.

Dear Sir.—Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic cough, and pulmonary weakness which had been preying upon my system for over a year.

GEO. L. FELLOWS, St. Johns, N. B., April 16th, 1874.

This is to certify that I was attacked with a very severe cold combined with the Asthma or hoarse breath. One bottle of the cough medicine prepared by J. Betcher, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me.

JOHN N. DEARBORN, 1 yr. Aug. 12.

CONSUMPTION CURED. To the Editor of Christian Messenger.

Will you please inform your readers that I have a positive CURB FOR CONSUMPTION and all disorders of the Throat and Lungs, and that by its use in my practice, I have cured hundreds of cases, and will give

\$1,000.00 for a case it will not benefit. Indeed so strong is my faith, I will send a Sample, free, to any sufferer addressing me.

Please show this letter to any one you may know who is suffering from these diseases, and oblige, Faithfully Yours, DR. T. F. BURT, William Street, New York, Aug.

Agricultural.

LIVE STOCK AND POPULATION.—Prof. Thorold Rogers, of Oxford University, England, has made up a curious return of the portion of domesticated live stock to population in the most prominent countries in the world.

Its shows the following results: Great Britain has one cow to every twelve persons, a sheep for everybody, and one pig for every six.

France has a like proportion of sheep, a double share, comparatively, of cows, but only one pig to six persons.

The Swedes have a cow between three and one-half of them, a sheep between two and three-quarters, and a pig to a baker's dozen.

There are as many sheep as there are Norwegians in Norway, when they are all at home, and two and one-half of them—the Norwegians—are entitled to a cow. They can have only one-eighth-teenth of a pig each.

Denmark has a cow for three persons as many sheep as persons, and a pig for four and three-quarters persons.

Prussia, with her usual uniformity, has an equal number of cows and pigs, one to every five inhabitants besides a sheep apiece all round.

Wurttemberg has a quarter as many cows as people, a sheep to two and three-quarters, and a pig to seven.

Bavaria rates the same as Wurttemberg, as to cows and sheep, and is as much better off for pigs, as one-fifth is better than one-seventh.

Saxony has a sheep and a pig for every eight persons, and a cow for every six.

Holland has a cow to four, a sheep to four, and a pig to twelve persons.

Belgium, a cow to six, a sheep to nine, and a pig to eight (which is a Hibernicism).

Austria has a cow to six persons, and a sheep and a pig to every five.

Switzerland runs up to the Swedish standard on cows, one to three and one-half persons, and has a sheep for five, and a pig for seven and one-half persons.

We Americans close the list with a cow for every four of us, a sheep apiece, one pig to every one and one-half.

Rural New-Yorker.

A prairie farmer correspondent, who has had a good deal of experience in tethering cattle, says by far the best plan is to fasten by the hind foot. I use a one-inch strap, passed twice round, just above the ankle, and through a light iron ring. To the ring I fasten half-inch rope, and avoid all danger of tangling, which sometimes results in broken necks, when cows are fastened by the head.

I should prefer to have five to six feet of trace chain close behind the foot where the rope sustains the most wear.

OLD DUTCH PROVERBS.—Perseverance will obtain good cabbage and lettuces where otherwise nothing but thistles will grow.

The plowman must go up and down, and whatever else may be done, there is no other but this long way to do the work well.

God gives feed to every bird, but he does not bring it to the nest; in like manner he gives us our daily bread, but by means of our daily work.

The dawn of day has gold in its mouth.

RECIPES. A good way to cook Onions.—It is a good plan to boil onions in milk and water, as it diminishes the strong taste of that vegetable.

An excellent way of serving up onions is to chop them after they are boiled, and put them in a stew-pan with a little milk, butter, salt and pepper, and let them stew about fifteen minutes.

This gives them a fine flavor, and they can be served up very hot.

Cracker Dessert.—Choose whole soda crackers, and lay each upon a separate small plate. Pour upon it enough boiling water to soak it well, and leave none upon the plate; cover with a dressing of sweetened cream, with a spoonful of jelly in the centre if you choose, or dip upon it a portion of nice fruit, canned, stewed, or fresh, as is convenient.

Crust Coffee.—Take two cups of graham meal, three of corn meal and mix in one of molasses, burning carefully, like common coffee. Of this about one teaspoonful to a pint of water is sufficient to make a delicious and wholesome drink, not "bilious" in its tendency. To try it is to use it.

Scientific.

THE FLOOR OF THE OCEAN.—The voyage of the Challenger promises to accomplish even more than was at first anticipated in throwing light upon certain disputed questions in regard to the physics and natural history of the globe.

The subject of ocean circulation is now becoming comprehensible, and some of the most important geological problems seem to be receiving their solution. One of these is adverted to by Mr. Alexander S. Wilson, in a paper published in the Chemical News upon some of the chemical aspects of physical geography based upon one of Prof. Thomson's letters from the Challenger, referring to the fact that in sailing from Tenerife to St. Thomas the soundings indicated that the bottom of the Atlantic rises into a ridge of 300 miles west of Tenerife, and that from this, where the depth was 1500 fathoms, the bottom sloped gently down, until at 750 miles west of Tenerife it sank to a depth of 1950 fathoms, this continuing constant till within 300 miles of Sombrero.

A remarkable relationship was found to exist between the depth and the character of the dredgings. At 1500 fathoms the dredge brought up globetritina ooze, multitudes of minute shells and fragments of coral, the whole composed mainly of carbonate of lime. As the depth increased, the proportion of these shells diminished until in the deep water they disappeared, and there was nothing brought up but the fine red mud which did not effervesce with acids.

This, consisting of iron and alumina, was met with everywhere over the plain, and could not be, therefore, as at one time supposed, the mud brought out by great currents, such as those of the Amazon and Orinoco, but must have been produced on the spot.

A specially noteworthy circumstance was the absence of shells, found elsewhere in so great numbers. In explanation of this phenomenon, Mr. Wilson refers to the concurrent fact that the water from these great depths is very rich in carbonic acid, the air from a depth of 1476 fathoms containing 40 per cent. of carbonic acid, the percentage probably increasing rapidly with the descent.

Water thus saturated with carbonic acid will readily dissolve carbonate of lime; and Professor Thomson therefore concludes that the uniform deposit of red clay is simply the insoluble parts of myriads of shells, the residue, in fact, of a chalk formation now dissolved. The animals living on this area are universally destitute of a shell covering, this being either silicious or membranous. Thus while the shallower regions of the deep seabed are covered by a layer of grayish white ooze prolific in organisms, whose shells will one day form chalk, this in the deep submarine valleys is dissolved, leaving behind only the red mud.

A geological formation would consequently in time consist of chalk or limestone of some sort at the higher levels, gradually losing its calcareous character as it passed lower down, first into a calciferous slate, and finally into a slate containing no lime whatever.

How to KEEP WARM.—One way not to keep warm is to drink freely of hot drinks; to keep the pores of the skin closed; to eat more than can be digested; to sit over a hot air furnace; to lace tightly; wear tight garters, tight shoes, tight gloves, and bundle up with "heaps" of warm clothing; wear mufflers around the neck, and avoid a breath of cool, fresh air; take wine or bitters before meals, and pills to aid digestion after eating.

Do this daily, a month or more, and you will be as tender as a tropical house plant, and will take "dreadful colds" on the slightest exposure.

Hot drinks just before going out are especially favorable to induce chills; and this is about the way many are trying to cheat nature and to prolong a miserable existence.—Science of Health.

THE ONE TO BE CONGRATULATED.—A Chicago clergyman tells the following story:—"I once married a handsome young couple, and as I took the bride by the hand at the close of the ceremony and gave her my warmest congratulations, she tossed her pretty face and, pointing to the bridegroom, replied, 'I think he is the one to be congratulated.'

One of the easiest and best ways to expand the chest is to have a good large heart in it. It saves the cost of gymnastics.

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