

The Christian Messenger.

ALMANAC FOR NOVEMBER.

First Quarter, Nov. 6th, 5h. 38m. morning. Full Moon, " 13th, 5h. 15m. morning. Last Quarter, " 19th, 5h. 23m. afternoon. New Moon, " 27th, 7h. 30m. afternoon.

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

THE TIDES.—The column of the Moon's Southern gives the time of high water at Ferrisburgh, Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Picton 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.

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 in the morning.

ESTABLISHED 1861.

Park's Cotton Manufactures.

COTTON WARP.

WHITE, BLUE, RED, ORANGE AND GREEN.

Nos. 5's to 10's.

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All our goods have our name upon them, and are sold by us only to the wholesale trade, from whom country merchants and consumers can always obtain them by asking specially for them.

WM. PARKS & SON, New Brunswick Cotton Mills, St. John, N. B.

Aug. 25. 3m.

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 Syrups have utterly failed, and for temporary coughs and colds it is invaluable, for which assertions abundant testimony can be produced. For singers and speakers it is also invaluable. No harm can result from a free use of this medicine.

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, and would recommend it to all who are suffering from like complaints

GEO. L. FELLOWS.

St. John, N. B., April 16th, 1874.

This is to certify that I was attacked with a very severe cold combined with the Asthma very bad, so that I could not lie down or hardly breathe. One bottle of the cough medicine prepared by J. BETCHER, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since, and I believe it to be the best medicine for Coughs, Colds, Asthma, &c., that there is made.

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

CONSUMPTION CURED.

To the Editor of Christian Messenger.

ESTREMED FRIEND:

Will you please inform your readers that I have a positive

CURE 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, 67 William Street, New York. Aug. 5.

Science.

HOW MESSAGES ARE SENT BY THE OCEAN CABLE.—He (the ocean telegraph operator) taps the "key" as in a land telegraph, only it is a double key. It has two levers and knobs instead of one. The alphabet used is substantially like the Morse alphabet; that is, the different letters are represented by a combination of dashes and dots. For instance, suppose you wanted to write the word "boy." It would read like this: " " B is the dash and three dots; O, three dashes; and Y, one dot, and three dashes. Now, in the land telegraph, the dashes and the dots would appear on the strip of paper at the other end of the line, which is unwound from a cylinder, and perforated by a pin at the end of the bar or armature. If the operator could read by sound, we would dispense with the strip of paper, and read the message by the "click" of the armature as it is pulled down and let go by the electro-magnet.

The cable operator, however, has neither of these advantages. There is no paper to perforate, no "click" of the armature, no armature to "click." The message is read by means of moving a flash of light upon a polished scale produced by the "deflection" of a very small mirror, which is placed within a "mirror galvanometer," which is a small brass cylinder two or three inches in diameter, shaped like a spool or bobbin, composed of several hundred turns of small wire wound with silk, to keep the metal from coming in contact. It is wound or coiled exactly like a bundle of new rope, a small hole being left in the middle about the size of a common wooden pencil. In the centre of this is suspended a very thin, delicate mirror about as large as a kernel of corn, with a correspondingly small magnet rigidly attached to the back of it. The whole weighs but a little more than a grain, and is suspended by a single fibre of silk, much smaller than a human hair and almost invisible. A narrow horizontal scale is placed within a darkened box two or three feet in front of the mirror, a narrow slit being cut in the centre of the scale to allow a ray of light to shine upon the mirror from a lamp placed behind said scale, the little mirror in turn reflecting the light back upon the scale. This spot of light upon the scale is the index by which all messages are read. The angle through which the ray moves is double that traversed by the mirror itself; and it is, therefore, really equivalent to an index four or six feet in length without weight.

To the casual observer there is nothing but a thin ray of light, darting to the right and left with irregular rapidity; but to the trained eye of the operator every flash is replete with intelligence. Thus the word "boy" already alluded to would be read in this way: One flash to the right, and three to the left is B. Three flashes to the right is O. One to the right, one to the left, and two more to the right is Y, and so on. Long and constant practice makes the operators wonderfully expert in their profession, and enables them to read from the mirror as readily and as accurately as from a newspaper.

DOMESTIC RECIPES.

ONION PICKLES.—Ingredients for pickling onions:—To each quart of vinegar, two teaspoonfuls of whole black pepper and the same of allspice. Mode:—Gather the onions when quite dry and ripe, and with the fingers take off the thin outside skin. With a silver knife (steel discolours them) remove one more skin, when the onions will look clear. Have ready some very dry bottles with wide mouths, or glass jars, and as fast as they are peeled put them in. Pour over cold vinegar to cover them, with pepper and allspice in the above proportions. Tie down with bladders, and in a fortnight they will be ready for use. This is a most simple recipe and very delicious, the onions being very nice and crisp. It kept longer than six or eight months pickled onions are liable to become soft.

BAKED EGGS are liked by some people better than boiled ones. To prepare them break them carefully on a buttered plate, sprinkle salt over them and bake them in the oven until they reach the desired degree of hardness. Unless watched closely they are liable to cook too hard.

Lard should be kept hard and white; and that which is taken from a hog over a year old is the best.

Agriculture.

MELLOW SOIL AROUND TREES.—Unless the surface of the ground is mulched around young trees over an area of six to ten feet in diameter, the ground should be kept clean and mellow. Every farmer knows that a hill of corn or potatoes will not amount to much unless cultivated, and yet there are many who will neglect to give the same care to a tree which is worth a hundred hills of either of the former. In rich soil trees may grow rapidly without cultivation, and no amount of grass or weeds will retard them; but there are other things besides growth to be looked after. If the weeds and grass are allowed to grow up around the stems of apple, peach or quince trees, the bark will become soft near their base by being shaded, and thereby be in a suitable condition for the reception of the eggs which will eventually become peach or apple borers. Take any dozen young apple trees in the sections where the apple-borer is abundant, and allow a portion to be choked with weeds and the remainder well cultivated, and then watch the result. From our own experience, we believe that the chances are nine to one in favor of those cultivated being exempt from this pest.—Western Farmer.

STORING ONIONS.—Onions are often injured in winter by keeping them in too warm a place. They will seldom be injured by frost if kept in the dark, and in tight barrels or boxes, where not subject to frequent changes of temperature. It is the alternate freezings and thawings that destroy them, and if placed in a position where they will remain frozen all winter, and then thawed out slowly and in a dark place, no considerable injury would result from this apparently harsh treatment. Onions should always be stored in the coolest part of the cellar, or put in chaff and set in the barn or some out-house.

PLASTER FOR POTATOES.—Gypsum will sometimes prevent disease, and will always contribute to the growth of potatoes. Put it in the hill with the seed, and on the hill when the tops first make their appearance, or when you cultivate the first time. A handful or so is sufficient in the hill; the top dressing may be more liberal. Ashes and salt are also beneficial, and a mixture of ashes, gypsum, and salt is highly recommended by those who have used it as an excellent fertilizer for growing crops.

THE SOUTHDOWN.—A correspondent of the Ohio Farmer, thus describes, a good Southdown:—The head small and hornless; the face speckled or grey, and neither too long nor too short; the lips thin, and the space between the nose and the eyes narrow, the under jaw, or chop, fine and thin; the ears tolerably wide, and well covered with wool and the forehead also, and the whole space between the ears well protected by it, as a defence against the fly; eyes full and bright; the legs neither too long nor too short.

SHAKERS' PICKLES TO KEEP TEN YEARS.—Half-grown cucumbers fresh gathered; wash clean and pack in jars. Make a pickle of salt and water that will bear an egg, put in a piece of alum the size of a nutmeg to a gallon of brine, boil and skim it, and pour hot over the cucumbers; let it stand till cool, then pour off. Boil enough vinegar to cover your pickles, spice it to taste, pour it over hot, first adding a small piece of alum. In two days these are ready to eat.

IN MAKING WHIFFLE TREES, they will be stronger if the front side of the whiffletrees is nearest the heart timber and the back side toward the bark; they will retain their shape longer if the timber be split in this direction across the grain of the wood.

The Picton Times perpetrates the following on the late baby show;— "Twenty-four babies all in a row. Twenty-four mammae also on show; Twenty-four daddies happy as clams A show of live babies, none of your shams, A vision of angels, dear little lambs.

TO TELL GOOD FROM BAD EGGS.—Put them in water enough to cover them. All that lay flat, as they would on a smooth surface out of water, are good. Those of which the big end rises are bad.

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AND ALL DISEASES THAT LEAD TO IT; SUCH AS Coughs, Neglected Colds, Bronchitis, Pain in the Chest, and all Diseases of the Lungs.

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IT IS WARRANTED to break up the most distressing Cough in a few hours time, if not of too long standing. It is WARRANTED to give entire satisfaction even in the most confirmed cases of Consumption! It is WARRANTED not to produce costiveness (which is the case with most remedies), or affect the head, as it contains no Opium, in any form. It is WARRANTED to be perfectly harmless to the most delicate child, although it is an active and powerful remedy for restoring the system. There is no real necessity for so many deaths by Consumption, when Allen's Lung Balsam will prevent it, if only taken in time.

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In friendship, MRS. V. H. CONNOR.

Burlington, Ky., June 23, 1874. Aug. 12.

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