

The Christian Messenger.

ALMANAC FOR SEPTEMBER.

First Quarter, Sept. 7th, 5h. 23m. afternoon.
Full Moon, " 15th, 5h. 27m. morning.
Last Quarter, " 22nd, 5h. 46m. morning.
New Moon, " 29th, 5h. 41m. morning.

Day	SUN.	MOON.	High Tide
Wk	Rise	Set	at Halifax.
1	W. 5 26 34	11 18 7 21	8 43
2	Th. 5 27 6 32	8 23 2 17 39	9 17
3	F. 5 28 6 30	9 27 2 42 7 57	9 50
4	Sa. 5 30 6 28	10 33 3 25 8 17	10 21
5	SU. 5 31 6 26	11 39 4 9 8 39	10 50
6	M. 5 32 6 24	A. 44 4 56 9 8	11 20
7	Tu. 5 33 6 23	1 47 5 45 9 43	11 57
8	W. 5 34 6 21	2 45 6 37 10 29	morn
9	Th. 5 35 6 19	3 37 7 30 11 23	0 41
10	Fr. 5 37 6 17	4 19 8 23 12 07	1 16
11	Sa. 5 38 6 15	5 5 9 14 0 27	3 20
12	SU. 5 39 6 13	5 56 10 5 1 32	4 55
13	M. 5 40 6 11	5 54 10 53 2 46	6 0
14	Tu. 5 41 6 10	6 7 11 40 3 59	6 45
15	W. 5 42 6 8	6 27 12 0 53 5 13	7 26
16	Th. 5 44 6 6	6 48 0 27 6 27	8 1
17	F. 5 45 6 4	7 11 1 15 7 42	8 34
18	Sa. 5 46 6 2	7 36 2 6 9 1	9 9
19	SU. 5 47 6 0	8 10 2 58 10 20	9 46
20	M. 5 48 5 58	8 53 3 56 11 42	10 23
21	Tu. 5 50 5 56	9 49 4 56 A. 59	11 4
22	W. 5 51 5 55	10 57 5 59 2 9	11 50
23	Th. 5 52 5 53	morn 7 1 3 9 48	2 15
24	F. 5 53 5 51	0 10 7 59 4 23	4 4
25	Sa. 5 54 5 49	1 25 8 54 4 23	4 4
26	SU. 5 55 5 47	2 41 9 44 4 47	5 28
27	M. 5 57 5 45	3 51 10 30 5 9	6 25
28	Tu. 5 58 5 43	4 59 11 13 5 27	7 8
29	W. 5 59 5 41	6 8 11 56 5 44	7 43
30	Th. 6 0 5 39	7 12 A. 37	8 14

THE TIDES.—The column of the Moon's Southern 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 20 minutes later, and at St. John's, Newfoundland, 20 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 24 hours, and to the remainder add the time of rising next morning.

Business College,

Hesslein Building, Hollis Street,
HALIFAX, N. S.

Designed to Educate Young
Men for Business.

DAY AND EVENING.

In addition to our regular Course, we will, as soon as a reasonable number of applications are received, open EVENING CLASSES in

TELEGRAPHY,

employing an experienced instructor, who is ready to commence operations at once.

Also from the 4th January next, we will give regular instructions in

PHOTOGRAPHY.

Terms moderate. Persons holding Scholarships will receive instructions in these subjects at reduced rates.

EATON & FRAZER.

Nov. 18

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.

Aug. 12.

CONSUMPTION CURED.

To the Editor of Christian Messenger.

ESTIMED 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,

25 William Street, New York.

Aug. 5.

Science.

NEW BURN MIXTURE.—Take the best white glue (extra) 15 ozs. Break it into small pieces, add to it 2 pints cold water, and allow it to become soft. Then melt it on a water bath, add to it 2 fluid ozs. glycerin and 6 drachms carbolic acid, and continue the heat on the water bath, until a glossy, tough skin begins to form over the surface in the intervals of stirring. The mixture may be used at once, after the glue is melted and the glycerin and carbolic acid are added; but when time allows, it is advisable to get rid of a little more of the water, until the proper point is reached. On cooling, this mixture hardens to an elastic mass, covered with a shining parchment like skin, and may be kept for any time. When using it, it is placed for a few minutes on the water bath until sufficiently liquid for application (it should be quite fluid). Should it at any time require too high a heat to become fluid, this may be corrected by adding a little water. It is applied by means of a broad brush, and forms in about two minutes a shining, smooth flexible, and nearly transparent skin. It may be kept for any time, without spoiling, in self or earthen dishes or pots turned upside down. —*American Journal of Pharmacy.*

What kind of gas are toy rubber balloons inflated with? How is it generated? A. The gas is hydrogen; it is obtained by acting upon small pieces of zinc with dilute oil of vitriol.

Can an ice boat travel faster than the wind? A. Ice boats very frequently travel at a faster velocity than the wind that drives them. —*Scientific American.*

A BRILLIANT LIGHT.—Fill a small vessel of earthenware or metal with perfectly dry saltpetre or nitre, press down a cavity into its surface, and in this cavity place a piece of phosphorus; ignite this, and the heat given off melts a sufficient quantity of the nitre to evolve oxygen enough to combine with the phosphorus, and the effect is to produce the most magnificent white light which chemistry can afford. —*Photographic News.*

Do not kill the toads. In Paris, they are sold at fifty cents a dozen, in order to protect vineyards and gardens from insects. A toad will swallow the biggest kind of a tomato worm.

Common coal oil is an excellent mosquito bar. Drop a little on a piece of cotton, squeeze as dry as possible, and rub over the exposed portions of the body. The smell of the oil disappears in about five minutes, and no mosquito will alight upon the anointed places. This is said to be better than pennyroyal essence for the same purpose.

NEW PLAN FOR PROPELLING CANAL BOATS.—A novel method of propelling canal boats has lately been introduced in Belgium, as follows: The towpath is laid with a single rail, weighing some 16 lbs. to the yard, and fixed on traverses a little more than three feet apart. The locomotive has four wheels, two of which are placed directly along the axis of the vehicle, one in advance of the other, and the others one at either side. The first pair are directing and the second driving wheels. The directing wheels are grooved and fit the rail; the others have rubber tyres, which give purchase on the macadamized road. Each locomotive tows one boat, and when a meeting takes place of two travelling in opposite directions, the engines change boats and retrace their paths. The locomotives weigh four tons each, and travel about three miles an hour, with full boats carrying a cargo of 150 tons each.

Yellow stains commonly called iron mold are removed from linen by hydrochloric acid or hot solution of oxalic acid. Wash well in warm water afterward.

To preserve soap grease, fill a cask half full of good strong lye and drop all refuse grease therein. Stir up the mixture once a week.

An obdurate screw may sometimes be drawn by applying a piece of red hot iron to the head for a minute or two, and immediately using the screw driver.

Equal weights of acetate of lime and of chloride of calcium, dissolved in twice their weight of hot water, is a fireproofing mixture for fabrics.

Agriculture.

GYPSON AND ASHES are valuable in the compost heap. Twenty pounds of plaster to each good load of manure is sufficient, since one hundred pounds of gypsum will fix twenty pounds of ammonia. Quicklime should not be used with fermenting manure, since it sets the ammonia free, instead of fixing it. Ashes contain largely phosphoric acid and potash. When leached, the phosphoric acid remains, and also a good deal of the potash. The phosphoric acid is in a finely divided state, and in combination with peroxide of iron, magnesia and lime; so the carbonic acid generated in the compost pile will liberate it from its bases, and render it immediately available to plants.

DISCOVERY OF ANOTHER GROVE OF GREAT TREES IN CALIFORNIA.—This grove is situated in a basin at the head waters of the Lorenzo and Boulder creeks. One of the trees eclipses all that have been discovered on the Pacific coast. Its circumference, as high as a man can reach, standing and passing a tape line around, is a few inches less than 150 feet. This is beyond the measurement of any tree in the Calaveras Grove. The height is estimated at 160 feet, and a part of the top lying on the ground is over 100 feet in length. The other trees in the vicinity are not so large, but all are of immense girth.

TO MAKE VINEGAR RAPIDLY.—The best plan will be to set the casks in a sunny place, open the bungholes, and cover them with a piece of mosquito net, to admit air and exclude insects. If a gallon of good cider vinegar, with the "mother" in it, is turned in, it will make sooner. The "mother" is the slimy cake that appears in vinegar during the souring, and it consists of peculiar fungus, known generally as the "vinegar plant." If a tin pipe be put into the bunghole and into the vinegar, and fresh air be blown into it through a pair of bellows, the process will be hastened. Also by boring a small hole in the head of the cask, and allowing a small stream to run down a sloping board into an open pail, which, when full is poured back gently into the cask. This process greatly hastens the making of vinegar. —*New York Times.*

Save the corn cobs for kindlings, especially if wood is not going to be plentiful next winter. To prepare them, melt together 60 parts resin and 40 parts tar. Dip in the cobs, and dry on a sheet of metal heated to about the temperature of boiling water.

A remedy for caterpillars: which is used on a large scale in France, consists in a solution (1 part in 500) of sulphide of potassium, sprinkled on every tree by means of a hand syringe.

To fasten emery to leather, boil glue very thin, add a little milk, raise the pile of the leather, and put on the glue with the brush. Then sprinkle on the emery, and let it cool.

DOMESTIC RECEIPTS.

MUTTON PIE WITH TOMATOES.—Pare and slice six tomatoes; put a layer into a deep pudding dish, then put in a layer of slices of cold mutton, and dredge in flour, salt, pepper. Have the last layer tomatoes, over which sprinkle two rolled crackers. Bake one hour. Serve boiled potatoes, boiled rice, green corn, shelled beans.

CHICKEN CHEESE.—Did you, reader, ever eat any? We like it. Boil two chickens till tender; take out all the bones and chop the meat fine; season to taste with salt, pepper, and butter; pour in enough of the liquor they are boiled in to make moist. Mold it in any shape you choose, and when cold, turn out and cut into slices. It is an excellent travelling lunch.

TO COOK RICE.—The following is a method recommended by the French Academy for cooking rice during the siege of Paris. Take one cup of rice and one-fourth of a cup of water in a saucepan, cover, and place over a good fire; after an hour, the water will be evaporated, and the rice cooked tender, but dry, and with the grains distinct—not in a paste. Care should be taken not to disturb it while cooking. The *Boston Medical and Surgical Journal* says that rice cooked in this manner, which is the same as that employed in the East Indies, bears the same relation to the indigestible paste of the New England kitchen as does bread to boiled flour.

BAPTIST CHURCH REQUISITES.

Art and Covenant \$1.00 per 100.
Church Record and Register \$2. & \$3. each.
Alphabetical List of Members 40 cts. each.
Letters of Dismission 50 cts. per quire.
Psalmists, in all varieties, from 75 cts.
Baptist Hymn Book from 50c.
Baptist Hymn and Tune Book \$1. & \$2.25.
Scripture Catechism, \$6.00 per 100.
CHRISTIAN MESSENGER OFFICE,
69 & 71 GRANVILLE ST., HALIFAX.

April 16.

BRITISH AMERICAN

BOOK & TRACT DEPOSITORY,

133 GRANVILLE STREET,

HALIFAX, N. S.

SABBATH-SCHOOL LIBRARIES,

At Very Low Prices, and Solicit Your Order.

THE STOCK ON HAND (over 16000 vols.) comprises selections from the works published by the Religious Tract Society of London, Society for Promoting Christian Knowledge, Book Society, the American Tract Society, Carter's, Nelson's, Nisbet's, S. Union, Hamilton, Adams & Co., Johnston & Son, and others. About 300 Libraries neatly done up in boxes, comprising the books received from Messrs. Campbell & Son, of Toronto. A liberal discount from the Society's prices to ministers for their own use, and to Sabbath Schools.

The Society have also constantly on hand a large assortment of, Illustrated Sabbath School Papers. Papers for Teachers with Notes on International Lessons; Sunday School World; Sunday School Times, &c.

Lesson Papers for Teachers and Scholars, Primary, Intermediate and Advanced.

Hymn Books with Music:

Bateman's 200 Hymns and Melodies—50 cents per dozen.

Happy Voices, Echo to Happy Voices—30 cents each.

Silver Spray—40 cents; Songs of Salvation—45 cents each.

Royal Diadem, and Pure Gold—35 cents each.

Tracts for Teachers on the Best Modes of Teaching. Commentaries, Maps of Palestine, S. School Reward Cards, Children's Tracts, &c.

Address orders to,

A. McLEAN, Secretary,

133 Granville Street, Halifax, N. S.

May 20.

Hats and Caps.

WE have now on hand a full Stock of all kinds, including the

NEWEST STYLE,

to which we invite the attention of our friends, both at

Wholesale and Retail.

Our prices are as low as any in the city.

Silk Hats made to order by Conformateur Measure, without extra charge.

EVERETT BROTHERS,

100 Granville St.,

May 3.

Agents for the Christian Messenger.

NOVA SCOTIA.

Amherst—W. F. Cutten, Esq.

Antigonish—T. M. King, Esq.

Ayleford—Rev. Dr. Tupper, J. Wheelock, Esq.

Rev. J. L. Read,

Barrington—Rev. W. H. Richan.

Beaver River—Wm. S. Raymond, Esq.

Berwick—John M. Parker, Esq.

Bridgewater—Wellesley J. Gates.

Bridgetown—Nathan R. Morse.

Brighton, Digby County—N. B. Westcott.

Brookfield—A. J. Leadbetter.

Beal's Mountain—John Whitman.

Caledonia—B. L. Telfer.

Chester—Rev. I. J. Skinner.

Clements—Jas. E. Potter, Esq.

Canso—C. H. Whitman.

Cornwallis—J. E. Lockwood.

Do., Billtown—Gideon Cogswell, Esq.

Do., Canning—Jas. S. Witter, Esq.

Do., Lakeville—Melatiah Kinsman.

Digby—Mrs. Bent.

Digby Joggins—Wm. Aymar, Esq.

Digby Neck—Rev. J. C. Morse.

Debert River—Wm. McCully, 4th.

Dalhousie East—Thomas A. Wilson.

Economy—Josiah Soley.

Granville—Joseph D. Halfyard.

Guysborough—Christopher Jost, Esq.

Greenfield—Robert Harlow.

Hantsport—C. J. Margeson, Esq., M. D.

Hillsburgh—Nelson Miller, Esq.

Kempt—Joseph D. Masters, Esq.

Kentville—Melatiah Kinsman.

Liverpool—Charles Bill, Esq.

Long Island—Isaiah Thurber, Esq.

Londonderry, Great Village—Ezra Layton.

Maccan, River Hebert—Hance Mills.

Milton, Queen's—G. Whitfield Freeman, Esq.

Mill Village—W. A. Reed.

Musquodoboie—Edward McCabe.

Malbone Bay—Joseph Ham.

Margaree, C. B.—Lachlan McDonald.

New Germany—Adam E. Durland.

Newport—Joseph Dimock, Wm. H. Knowles.

Nictaux—W. A. Morse.

New Albany—Daniel Whitman.

Onslow—J. B. McNutt, Esq.

Paradise—M. E. Marshall.

Parish—Martin Hunter.

Port Medway—James T. Foster.

Portapique—Joseph Upham.

Pubnico—Isaac Larkin.

Pugwash—Angus McDonnell.

Lawdon—John McLearn, Esq.

River Philip—Thomas H. Patton.

Rosette, Annapolis—Richardson Harris, Esq.

Locke's Island—Xerxes Z. Chipman, Esq.

St. Mary's Bay, Digby Co.—Chas. McNeill, Esq.

Shelburne—Rev. E. N. Archibald.

New Ross—James Lantz.

Springfield—Israel McNay, Esq.

Stewiacke—Rev. O. Chute, Rev. Jas. Meadows.

Sydney, North, U. B.—A. G. Musgrave.

Sydney Town, C. B.—C. H. Harrington, Esq.

Truro—L. J. Walker, Esq.

Windsor—Andrew F. Shand.

Walton—F. Parker, Esq.

Westport—Holand E. Payson, Esq.

Weymouth—Rev. C. Randall.

Wilmot—Dr. J. Woodbury.