

The Messenger Almanac.

DECEMBER, 1881.

Full Moon, December 5th, 9m. A.
Last Quarter, " 13th, 3h. 51m. A.
New Moon, " 21st, 0h. 53m. M.
First Quarter, " 27th, 4h. 27m. A.

Day	SUN.	MOON.	High Tide
W.	Rise, Sets.	Rises, South. Sets.	at Halifax
1 Th.	7 22 17	1 50 8 44	2 28
2 Fr.	7 23 16	2 25 9 36	3 38
3 Sa.	7 24 16	3 40 10 28	4 47
4 Su.	7 25 16	4 50 11 22	5 52
5 M.	7 26 16	6 05 12 16	6 54
6 Tu.	7 27 15	7 15 1 10	7 49
7 W.	7 28 15	8 30 2 04	8 36
8 Th.	7 29 15	9 40 2 58	9 17
9 Fr.	7 30 15	10 45 3 52	9 53
10 Sa.	7 31 15	11 45 4 46	10 21
11 Su.	7 32 15	12 40 5 40	10 53
12 M.	7 32 15	1 32 6 34	11 33
13 Tu.	7 34 15	2 25 7 28	12 10
14 W.	7 34 15	3 14 8 17	1 1
15 Th.	7 35 16	4 00 9 04	1 54
16 Fr.	7 36 16	4 45 9 52	2 37
17 Sa.	7 37 16	5 30 10 40	3 19
18 Su.	7 37 16	6 15 11 28	4 0
19 M.	7 38 17	7 00 12 16	4 51
20 Tu.	7 39 17	7 45 1 04	5 42
21 W.	7 39 17	8 30 1 52	6 33
22 Th.	7 40 18	9 15 2 40	7 24
23 Fr.	7 40 18	10 00 3 28	8 15
24 Sa.	7 41 19	10 45 4 16	9 06
25 Su.	7 41 19	11 30 5 04	9 57
26 M.	7 41 19	12 15 5 52	10 48
27 Tu.	7 42 20	1 00 6 40	11 39
28 W.	7 42 20	1 45 7 28	12 30
29 Th.	7 42 20	2 30 8 16	1 21
30 Fr.	7 42 21	3 15 9 04	2 12
31 Sa.	7 42 21	4 00 9 52	3 03

THE TIDES.—The column of the Moon's Southings gives the time of high water at Parreboro, 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 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 next morning.

PATENTS

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BAPTIST CHURCH REQUISITES.

Articles and Covenant \$1.00 per 100.
Church Record and Register \$2. and \$3 each.
Alphabetical List of Members 40 cents each.
Letters of Dismission 50 cts. per quire.
Psalmists, in all varieties, from 85 cts.
Baptist Hymn Book from 50 cts.
Baptists Hymn and Tune Book \$1.00 and \$2.25.
Scripture Catechism, \$6.00 per 100.
CHRISTIAN MESSENGER OFFICE.
No. 68 & 71 Granville St., Halifax.
April 15.



1879—Provincial Exhibition—1879

Fraser & Sons,

82 & 84 Barrington Street, Halifax, N. S.

EXHIBITED SQUARE AND UPRIGHT

PIANOS.

—And were Awarded—

DIPLOMA AND HIGHEST PRIZE.

These Pianos were not got up for exhibition, but were our ordinary manufacture. We invite inspection of our instruments; all first class and warranted to give satisfaction.

Piano-Fortes, Cabinet and Church Organs Tuned and repaired.
Nov. 5.

"CUSTOM TAILORING."

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AGRICULTURE.

HOW TO TELL A GOOD POTATOE.—

Here is a good place in which to impart what is a secret to the vast majority of people, and it is one well worth knowing. It is simply how to tell a good potato; that is, as well as it can be done without cooking it, for sometimes even experts are deceived. Take a sound potato, and paying no attention to the outward appearance, divide it into two pieces with your knife and examine the exposed surfaces. If there is so much water or "juice" that seemingly a slight pressure would cause it to fall off in drops, you may be sure it will be "soggy" after it is boiled. These are the requisite qualities for a good potato, which must appear when cut in two: for color, a yellowish white; if it is a deep yellow the potato will not cook well; there must be a considerable amount of moisture, though not too much: rub the two pieces together and a white froth will appear around the two edges and upon the two surfaces; this signifies the presence of starch, and the more starch, and consequently froth, the better the potato, while the less there is, the poorer it will cook. The strength of the starch element can be tested by releasing the hold upon one piece of the potato, and if it still clings to the other, this in itself is a very good sign. These are the experiments generally made by experts, and they are ordinarily willing to buy on the strength of their turning out well, though, as stated above, these tests are by no means infallible.—*San Francisco Call.*

HANDLE DAIRY STOCK KINDLY.—

It is important that dairy stock, from the young calf to the old cow, that is being fed for beef, should be handled and treated kindly. If a calf is handled roughly and becomes wild and vicious thereby, when it becomes a cow you may expect the same, but if handled carefully and treated with kindness, when grown up she will be mild and gentle. It may not always be so, but in general it is. There have always been many cows spoiled by the person having the care of, and milking them, by whipping or frightening them whenever they come in his way, or if when milking, a cow hoists her foot or kicks (which is generally caused by pain), such a fellow stops milking and commences whipping, or worse, kicking the cow, and she becomes enraged, holds up her milk, kicks back, and is finally ruined. Never whip a cow for kicking, if she does kick the milk-pail out of your hand and sometimes upset and knock you over; but be kind and gentle with her, and milk her out with as little excitement as possible, and if she gets over her kicking propensity, it will be by mild not harsh treatment. Never whip a cow because she kicks, for it will do no good, but will do a great deal of harm.

FAST WALKING HORSES.—

It would seem to be about time for breeders of horses to turn their attention towards the very valuable quality of fast walking. Millions are wasted yearly on the fast trotters, which are of no benefit to the farmers; while not a cent goes for the development of fast walkers. Yet a fast walker is a prize. One of our neighbors has a fine gray gelding that made five and a half miles in one hour and ten minutes, a few days since, with a good load behind him. This speed ought to be the rule instead of the exception among farm horses. Let the managers of our agricultural societies offer prizes for this quality, and see how the fast walkers would come to the front.

SCIENCE.

BEAUTIFUL SCIENCE.—Astronomy is a beautiful science. We are told that if a railway was run from the earth to the nearest fixed star, and the fare only one penny for every hundred miles, and if you were to take a mass of gold to the ticket office equal to the national debt—or \$3,800,000,000—it would not be sufficient to pay for a ticket to the nearest fixed star aforesaid.

STORING HEAT.—Coal is called by Emerson a portable climate, but it is cumbersome in its coal state. The common process of using it is not adapted to travel in the lighter vehicles of the day. The attempt to warm street cars has not been successful. For a long ride in a carriage nothing better, as a source of warmth, has been found than a brick of clay, which does not retain heat long. In a walk of a cold day, the fingers suffer, with what-

ever coverings. At last a mode of extracting the climate from coal, and using it where stoves are impracticable has been discovered. Salt reduces the temperature of water—a fact of importance to the makers of ice-cream. Water, the temperature of which has been reduced by salt, will absorb more heat before it will boil than water the temperature of which has not been so reduced. By experiment, Prof. Tomlinson has discovered that water saturated with the acetate of soda will not boil at 212°, but at 256°. An enterprising scientist has taken advantage of this discovery to invent a "heater" which can be used in a lady's muff, or as a foot-warmer. A flask made of thin brass is filled with the salt, and the mouth sealed up. It is then suspended in boiling water long enough to absorb all the heat it can—from five minutes to an hour, according to the size. This flask will retain heat about four times as long as boiling water. A foot-warmer which registered 153° on being removed from the hot water was found to register 111° at the end of eleven hours. During the act of cooling the salt undergoes crystalline changes which evolve latent heat; after two hours' removal from the source of heat, the temperature of this heater was raised 6° by its own inner forces. The uses of this invention may be numerous—not the least important is that of keeping a dinner warm in a lunch-basket.—*Milwaukee Republican.*

THE HOUSE.

SEASONING FOOD.—Many people have an idea that a finely-flavoured dish must cost a great deal; that is a mistake. If you have untainted meat or sound vegetables, or even Indian meal to begin with, you can make it delicious with proper seasoning. One reason why French cooking is much nicer than any other is that it is seasoned with every variety of herbs and spices. These cost very little. If you buy a few cents' worth at a time you will soon have a very good assortment. The best kinds are sage, thyme, sweet marjoram, tarragon, mint, sweet basil, parsley, bay leaves, cloves, mace, celery-seed, and onions. If you wish to plant the seed of any of these first seven mentioned in little boxes on your window-sill, or in any sunny spot in your yard, you can generally raise all you need. Gather and dry them as follows:—Parsley and tarragon should be dried in June, just before flowering; mint in June and July; thyme, marjoram, and savory in July, August, and September; all herbs should be gathered in the sunshine and dried by artificial heat. Their flavour is best preserved by keeping them in air-tight tin cans, or in tightly-corked glass bottles.

TO GET A FULL MILK PAIL.—We assume that the cow is properly fed. Lacking this condition no cow can milk as she ought, says the London Live Stock Journal. But careful feeding seems to have but little influence on the milking properties of some cows; they lay on flesh instead. Yet as they have first of all to live, before they can think of giving much milk, or in fact any milk at all worth speaking of, and as about two-thirds of the food they have an appetite for, goes to sustain the offices of life, it is clear that under-feeding will not lead to a profit. This is a proportion well enough established, and it appeals alike to our judgment and interest. Yet, after all, breed is of the first importance, because without it good feeding is of small effect on the milk pail; but if we have both breed and feed, the pail will overflow—if we let it. Breed, then, is first; food next, then good milking by hand, kind treatment, shelter from the storm and all that.

HEALTH HINTS

FOR CHILBLAINS.—Take of lard, nine ounces, oil almonds three and a half ounces, white wax one and a half ounces, camphor, powdered, one and a half ounces. Mix and apply to the chilblains.

TO CURE SORE THROAT.—Dissolve one drachm chlorate of potash in half a pint of water, and gargle the throat therewith; a few applications will allay inflammation. It is well to keep in every house a good sized vial of water with more chlorate of potash in it than will dissolve. The clear liquid is then always of uniform strength, ready for use—a teaspoonful at a time, gargling it against the inflamed tonsils.

NEVER despair; but if you do, work on in despair.—*Burke.*

INTERCOLONIAL RAILWAY.

WINTER ARRANGEMENT.

TRAINS leave Halifax daily (Sunday excepted) as follows:—
(Halifax time.)

At 8.30 a. m.—Express for St. John, Pictou.
At 1.15 p. m.—Accommodation for Pictou.
At 5.30 p. m.—Accommodation for Truro.
At 3.00 p. m.—Express for Quebec.

WILL ARRIVE:—

At 9.15 a. m.—Accommodation from Truro.
At 12.15 a. m.—Express from Quebec and from St. John.
At 2.50 p. m.—Accommodation from Pictou.
At 8.30 p. m.—Express from St. John.
Nov. 24, 1880.

Windsor and Annapolis Railway.

Winter Arrangement—Commencing Monday, Nov. 21st, 1881.

The following is according to Railway Time. Halifax time is 15 minutes later.

Miles.	GOING WEST	Express Mon., Wed., and Sat. only.	Passengers & Freight Daily.	Pass. & Freight Daily.
Halifax.....	Leave	A. M. 7 45	A. M. 7 45	P. M. 3 00

46 Windsor.	9 40	10 55	6 15
64 Wolfville.	10 30	12 02	7 17
71 Kentville.	10 50	12 30	7 40
83 Berwick.	11 38	1 43	
102 Middleton.	12 23	2 58	
130 Annapolis.	1 40	5 00	
St. John,	do	7 30	

GOING EAST.

Miles.	GOING EAST.	Pass. and Freight Daily.	Express Mon., Wed., and Sat. only.	Pass. and Freight Daily.
St. John,	Leave	A. M. 8 00	A. M. 8 00	
Annapolis,	Leave	7 15	7 20	
25 Middleton.	8 08	8 42		
47 Berwick.	10 57	4 30		
59 Kentville.	6 30	12 30	5 12	
66 Wolfville.	6 57	12 52	5 02	
84 Windsor,	8 15	2 30	6 27	
130 Halifax	11 00	5 22	8 25	

Steamer "Scud" leaves St. John at 8 a. m. every Monday, Wednesday and Saturday for Digby and Annapolis, and returns same day, on arrival of Express Train from Halifax.

HALIFAX AND CAPE BRETON RAILWAY.

EXPRESS leaves New Glasgow at 2.15 connecting with Halifax Morning Express, arriving at the Strait of Canso at 6.35 P. M.

EXPRESS leaves the Strait of Canso at 8.00 A. M., arriving at New Glasgow at 12.25 P. M., connecting trains for Halifax and St. John.

Western Counties Railway.

Train leaves Yarmouth daily at 7.45 a. m., and arrives at Digby at 11.45 a. m.

Leaves Digby on Monday, Wednesday, and Friday at 1.00 p. m. Arrives at Yarmouth at 5.00 p. m. On Tuesday, Thursday and Saturday at 3.30 p. m. Arrives at Yarmouth at 7.30 p. m.

SAVE THE NATION!

For it is sadly too true that thousands of children are STARVED TO DEATH every year by improper or insufficient food. Remember,

RIDGE'S FOOD

FOR INFANTS AND INVALIDS,

Is all and a great deal more than we have claimed for it. It is simply a HIGHLY NUTRITIOUS and easily assimilated FOOD, grateful to the most delicate and irritable stomach, and especially adapted for the INFANT and GROWING CHILD.

Invalids, Nursing Mothers, and those suffering from INDIGESTION will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, is all they can desire. It is carefully put up in four sizes.

Constant users will find our No. 4 size (always the most economical size to buy) now much larger than formerly, thus materially lessening the expense.

WOOLRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridge's Food, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs.

April 17

Nova Scotia

Book Bindery,

C. & T. PHILLIPS,

Corner Granville & Sackville Streets.

BOOK BINDERS, PAPERS RULERS,

BLANK BOOKS, Manufacturers, Performers, Steam Machine PAPER BAG

Manufacturers. Cheapest in the Market.

Jan. 31.



Cathartic Pills

Combine the choicest cathartic principles in medicine, in proportions accurately adjusted to secure activity, certainty, and uniformity of effect. They are the result of years of careful study and practical experiment, and are the most effectual remedy yet discovered for diseases caused by derangement of the stomach, liver, and bowels, which require prompt and effectual treatment. AYER'S PILLS are specially applicable to this class of diseases. They act directly on the digestive and assimilative processes, and restore regular healthy action. Their extensive use by physicians in their practice, and by all civilized nations, is one of the many proofs of their value as a safe, sure, and perfectly reliable purgative medicine. Being compounded of the concentrated virtues of purely vegetable substances, they are positively free from calomel or any injurious properties, and can be administered to children with perfect safety.

AYER'S PILLS are an effectual cure for Constipation or Costiveness, Indigestion, Dyspepsia, Loss of Appetite, Foul Stomach and Breath, Dizziness, Headache, Loss of Memory, Numbness, Biliousness, Jaundice, Rheumatism, Eruptions and Skin Diseases, Dropsy, Tumors, Worms, Neuralgia, Colic, Gripes, Diarrhoea, Dysentery, Gout, Piles, Disorders of the Liver, and all other diseases resulting from a disordered state of the digestive apparatus.

As a Dinner Pill they have no equal.

While gentle in their action, these PILLS are the most thorough and searching cathartic that can be employed, and never give pain unless the bowels are inflamed, and then their influence is healing. They stimulate the appetite and digestive organs; they operate to purify and enrich the blood, and impart renewed health and vigor to the whole system.

Prepared by Dr. J. C. Ayer & Co.,

Practical and Analytical Chemists,

Lowell, Mass.

SOLD BY ALL DRUGGISTS EVERYWHERE.

BROWN & WEBB, Halifax,

Dec. 1. ly. Wholesale Agents.

ORGAN DEATY PIANO

NEW ORGANS & PIANOS, 2nd Golden Bells, 1500, 2 Knottsville, Walnut Case, worth \$200, \$100, \$50, \$25, \$10, \$5, \$2.50, \$1.25, \$0.75, \$0.50, \$0.25, \$0.125, \$0.0625, \$0.03125, \$0.015625, \$0.0078125, \$0.00390625, \$0.001953125, \$0.0009765625, \$0.00048828125, \$0.000244140625, \$0.0001220703125, \$0.00006103515625, \$0.000030517578125, \$0.0000152587890625, \$0.00000762939453125, \$0.000003814697265625, \$0.0000019073486328125, \$0.00000095367431640625, \$0.000000476837158203125, \$0.0000002384185791015625, \$0.00000011920928955078125, \$0.000000059604644775390625, \$0.0000000298023223876953125, \$0.00000001490116119384765625, \$0.000000007450580596923828125, \$0.0000000037252902984619140625, \$0.00000000186264514923095703125, \$0.000000000931322574615478515625, \$0.0000000004656612873077392578125, \$0.00000000023283064365386962890625, \$0.000000000116415321826934814453125, \$0.0000000000582076609134674072265625, \$0.00000000002910383045673370361328125, \$0.000000000014551915228366851806640625, \$0.0000000000072759576141834259033203125, \$0.00000000000363797880709171295166015625, \$0.000000000001818989403545856475830078125, \$0.0000000000009094947017729282379150390625, \$0.00000000000045474735088646411895751953125, \$0.000000000000227373675443232059478759765625, \$0.0000000000001136868377216160297393798828125, \$0.00000000000005684341886080801486968994140625, \$0.000000000000028421709430404007434844970703125, \$0.0000000000000142108547152020037174224883715625, \$0.00000000000000710542735760100185871124418578125, \$0.000000000000003552713678800500929355622092890625, \$0.0000000000000017763568394002504646778110464453125, \$0.00000000000000088817841970012523223889552302265625, \$0.000000000000000444089209850062616119447761511328125, \$0.0000000000000002220446049250313080597238807556640625, \$0.00000000000000011102230246251565402986194037783203125, \$0.0000000000000000555111512312578270149309701889166015625, \$0.00000000000000002775557561562891350746548509445830078125, \$0.000000000000000013877787807814456753732742547229150390625, \$0.0000000000000000069388939039072283768663712736145751953125, \$0.00000000000000000346944695195361418843318563680728759765625, \$0.000000000000000001734723475976807094216592818403643798828125, \$0.0000000000000000008673617379884035471082964092201823944140625, \$0.000000000000000000433680868994201773544148204610911970703125, \$0.00000000000000000021684043449710088677207410230545955937515625, \$0.000000000000000000108420217248550443386037051152729779687890625, \$0.0000000000000000000542101086242752216930185255763648898439453125, \$0.00000000000000000002710505431213761084650926278818244492197265625, \$0.00000000000000000001355252715606880542325463139409122246098828125, \$0.00000000000000000000677626357803440