

The Messenger Almanac.

FEBRUARY. Full Moon, Feb. 6th, 9h. 27m. A. Last Quarter, " 13th, 2h. 30m. A. New Moon, " 20th, 11h. 49m. A.

Table with columns: Day, SUN, MOON, High Tide. Rows for days of the month from 1st to 28th.

THE TIDES.—The column of the Moon's Southern 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. 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 12 hours, and to the remainder add the time of rising next morning.

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SCIENCE.

Professor Wise, the veteran balloonist, says balloons may be made of boiler iron, if built large enough. He says it is a battle of cubes and surfaces. When the surface is doubled the cube is quadrupled, and a balloon 400 feet in diameter, of copper plate, would lift up a man-of-war vessel and sail away with it.

The Gothard Tunnel is now the longest tunnel in the world, the length, bored from both sides, reaching a total of 13,481 yards—twenty-three yards longer than the Mont Cenis. Very nearly 3,000 yards still remain to be excavated, and if the work goes on as rapidly this year as it went on last it may be finished in a twelvemonth.

The Prince of Wales and Dr. Lyon Playfair were standing near a cauldron containing lead which was boiling at white heat. "Has your Royal Highness any faith in science?" said the Doctor. "Certainly," replied the Prince. "Will you, then, place your hand in the boiling metal, and ladle out to do this?" asked the Prince. "I do," replied the Doctor. The Prince then ladled out some of the boiling lead with his hand, without sustaining any injury.

The Japanese make a very curious and handsome kind of copper by casting it under water, the metal being highly heated and the water also being hot. The result is a beautiful rose-colored tint, which is not affected by exposure to the atmosphere.

A gas clock has been placed on exhibition in England. The motive power is hydrogen gas produced by the action of the sulphuric acid and water in a zinc globe. As the gas is generated it raises a glass bell-cover, which, as it rises, moves a lever that controls the hands of the clock.

The Cornell University campus is now lighted at night by two electric lights which are supplied with electricity from a gramme machine built by Prof. Anthony. The gramme machine is run by water power. The whole campus is so brightly illuminated that a newspaper may be read any place within the grounds.

REMEDY FOR LIQUOR APPETITE.—Sulphate of iron, five grains, peppermint water, eleven drachms, spirit of nutmeg, one drachm. To be taken twice a day, in doses of about a wine-glassful or less, with or without water. Those who have acquired the insatiable appetite should use it, and never take a drop of liquor. An orange eaten before breakfast is beneficial. Moderate drinkers should beware in time.

Strange, They don't reap the ice-harvest with icicles.

VARIETIES.

A young man asked his landlady what kind of a bed the new one in his room was. "A spring bed," she replied. The youth felt under his chin and said "Well, I wish you would put more clothing on that bed, and make it a Winter instead of a Spring one."

"Do Editors ever do wrong?" "No." "What do they do?" "They do write of course."—Colby Echo.

A nice camp-meeting odor of fresh straw greets the olfactories as soon as you step into a street car.—New Haven Register.

A baker in Yreka, California, wrecks out of it the ingenious sign:—Y-r-e-k-a-B-a-k-e-r-y. It can be read with equal ease by right and left-handed people.

The true policy of Gas Companies with regard to Mr. Edison's Patent,—make light of it.—Punch.

If "every man is the architect of his own fortune," the most of them had better abandon architecture and go to sawing wood.

Susan fell in love with a bookkeeper, and when Aunt Mary asked about his position in life, Susan said demurely, "He's a count, aunt."

AGRICULTURE.

THE WAY TO BLANKET HORSES.—But few people, comparatively, understand how to blanket a horse to protect him from contracting cold. We frequently see the blanket folded double, and laid across the rump, and a part of the body that needs protection entirely exposed to cold storms and chilling winds.

Those parts of the body of a horse which surround the lungs require the benefit of a blanket in preference to his flanks and rump. When we are exposed to a current of cold air, to guard against any injury from contracting cold we shield our shoulders, neck, chest and back. The same holds in the protection of horses. The blanket should cover the neck, withers and shoulders, and be brought around the breast and buttoned or buckled as closely as a man buttons his overcoat.

Many of our best teamsters protect the breasts of their horses by a piece of heavy cloth about two feet square, hanging down from the lower end of the collar. This is an excellent practice in cold weather, as the most important part of the animal is shielded from cold wind, especially when traveling toward a strong current. The forward end of the horse's blanket should fit as closely around the breast of a horse as our garments fit our bodies.

Most horses will contract a violent cold almost as soon as a man, if not blanketed while they stand still, after having been exercised so violently as to produce profuse perspiration. So long as a horse is kept in motion, there is little danger of his suffering any inconvenience from cold winds. But allow him to stand a few moments while loading or unloading, without a heavy blanket to protect his shoulders and lungs, and he will take cold sooner than some men.

BREAK UP THE SOIL.—The English Gardener's Magazine talks good sense when it says:

In the cultivation of root and other green crops for feeding the stock on the home farm, one of the most essential points is to secure a good tilth, soil well prepared for the seed, and this can only be had by thoroughly exposing the soil to the action of the weather some time previously. Indeed, crops of all kinds that are usually sown in the spring succeed much better when the soil has been well pulverized by the weather during the previous winter. By exposing the soil to the action of the frosts and rains during the winter, a better seed bed is obtained, the roots can rub more freely in it, and the mineral constituents necessary for building up the plant are, to a certain extent, set free, and rendered more readily available as plant-food. It may, indeed, be assumed that all land now vacant, whether to be cropped as early as February or not until May, should be ploughed up as opportunities offer. This work cannot be done too soon; and the horses ought not to be taken from the plough until the whole of the uncropped fields have been broken up, unless the weather is unfavorable or work of equal importance has to be done.

The depth to which the soil should be broken up depends in a large measure upon its character; but, as a rule, it will be perfectly safe to go a few inches deeper than the average depth of the ploughing in the district. It is very seldom that land is ploughed too deeply for the good of the crops; and as showing how beneficial deep stirring of the soil is to most crops, we have only to compare the crops produced on land that has been stirred with a steam cultivator with those obtained from the same land previously. Heavy soils should be left somewhat rough on the surface, and not be laid in smooth straight furrows, such as a good ploughman delights in and which are so pleasing to the eye.

BROWN BREAD.—One pint cornmeal, pour over it one pint boiling water, a teaspoonful molasses, shorts or graham flour enough to make a stiff batter, two eggs, one teaspoonful of soda dissolved in a little boiling water; steam three hours by putting in a pan in a steamer over a pot of hot water; keep the water boiling all the time.

A girl at school would like to have two birthdays every year. When she grows up a woman she objects to having one.

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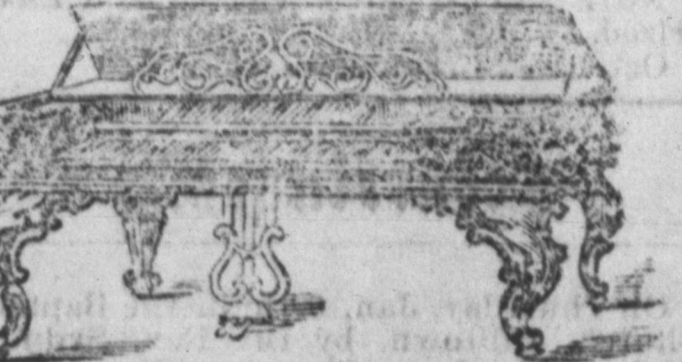
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TRAINS leave Halifax:— At 8.25 a.m. (Express) for St. John, &c. At 1.30 p.m., (Express) for Riviere du Loup, Montreal, &c. At 5.30 p.m. (Express) for St John and intermediate stations.

WILL ARRIVE:— At 8.20 p.m., (Express) from St. John Pictou, &c. At 9.15 a.m., (Express) from St. John. At 1.30 p.m., (Express) from Riviere du Loup, Montreal, &c. Jan. 8, 1879.

SPRING HILL AND PARRSBOROUGH RAILWAY.

Connects with Intercolonial. Leaves Parrsborough at 9.30 a.m. Arrives at Spring Hill at 12.20 p.m. Leaves Spring Hill at 3.20 p.m. Arrives at Parrsborough at 6.00 p.m. Jan. 8, 1879.

WESTERN COUNTIES RAILWAY.

1879—Winter Arrangement—1879.

TRAINS LEAVE HALIFAX 7.45 a.m. (Express) Mondays, Wednesdays and Saturdays. 8.00 a.m. (Passengers and Freight) Tuesdays and Fridays. 3.10 p.m. Accommodation daily. Arrive at Windsor 9.30 a.m., 10.50 a.m., 5.30 p.m.

WILL ARRIVE:— 8.35 a.m. Accommodation daily. 1.45 p.m. (Passengers and Freight), Tuesdays, Thursdays and Fridays. 6.35 p.m. (Express) Monday, Wednesday and Saturday. Arrive at Halifax 11.00 a.m. 4.25 p.m., 8.30 p.m. Jan. 8, 1879.

WINDSOR & ANnapolis RAILWAY.

Winter Arrangement, Commencing 7th Nov., 1878.

GOING WEST. Miles. Express daily. Pass. and Freight. Mon., Wed., & Fri. Passengers and Freight, Tues. and Saturday.

Table with columns: Miles, Express daily, Pass. and Freight, Mon., Wed., & Fri., Passengers and Freight, Tues. and Saturday. Rows for Windsor, Wolfville, Kentville, Wilmot, Annapolis, St. John.

GOING EAST. Miles. Pass. and Freight. Mon., Wed., & Fri. Tues., Thurs., & Sat. Express daily.

Table with columns: Miles, Pass. and Freight, Mon., Wed., & Fri., Tues., Thurs., & Sat., Express daily. Rows for St. John, Annapolis, Wilmot, Kentville, Wolfville, Windsor.

Express Trains every Monday, Wednesday and Saturday, connect at Annapolis with Steamer for St. John. Steamer "Scud" leaves St. John every Monday, Wednesday and Saturday, at 8 a.m., for Annapolis. Nov. 13

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