

The Messenger Almanac.

Table with columns for Day, SUN, MOON, High Tide, and Low Tide. Includes dates for Full Moon, Last Quarter, New Moon, and First Quarter.

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

BETCHER'S PECTORAL MIXTURES FOR COUGHS, COLDS, WHOOPING COUGH, ASTHMA, &c.

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.

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

CERTIFICATES. HALIFAX, March 10th, 1873. 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 ever a year, and would recommend it to all who are suffering from like complaints.

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.

ESTEEMED 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.

CONSUMPTION CURED.

ESTEEMED 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.

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. P. BURT, 67 William Street, New York, Aug. 5, 26 Ins.

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Restored your Sight! THROW AWAY YOUR SPECTACLES. By reading our Illustrated PHYSIOLOGY AND ANATOMY OF THE EYESIGHT. Tells how to Restore Impaired Vision and Overworked Eyes; how to cure Weak, Watery, Inflamed, and Near-Sighted Eyes, and all other Diseases of the Eyes.

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SCIENCE.

WHERE DOES THE HEAT COME FROM? Is a difficult question to answer satisfactorily. Dr. Miller, of Chicago, gives the following as facts which confront the theory of heat radiation:—

"The space between us and the sun is cold beyond any degree known to terrestrial inhabitants, and heat could not radiate through this cold space to our earth. 2. We are now about three millions of miles further from the sun than we were on the 21st of December. 3. Heat does not pass through distant space like light or sound, and has a very limited sphere for operation from its source. 4. If heat diminishes as the square of the distance increases from the inner to the outer planets, Mercury would be in a state of fusion, and the comets that have passed inside of the orbit of Mercury would have been dissipated into an invisible gas, and the outer planets and comets, in their passage from the sun, would be bound in perpetual chains of frost and ice—neither of which is the case. 5. It is not true that the aqueous vapour of our atmosphere absorbs much of the sun's heat before it reaches our earth; for the higher regions of our atmosphere are colder and increase in cold as you ascend from the earth's lower plane till you reach its highest mountains, where vegetation is impossible in consequence of perpetual frost and snow, even in tropical climates.

THE CAUSE OF SOLAR HEAT,

then, must be looked for on a different principle from that of radiation from the central orb of our solar system. Heat is not an entity with an independent existence. It is dependent upon some cause, and may be produced by mechanical action, friction, or compression of material substances, or by chemical action. My theory is that heat is produced by the passage of the rays of light through our atmosphere, which is in the form of a concavo-convex lens, and the different degrees of heat and cold are proportioned to the varying angle at which these beams from the sun pass through this refracting medium. The variation of temperature is caused by the different electrical conditions and the different degrees of density or rarity of the atmosphere at the same inclination of the earth to or from the sun.

We are, then, led to the conclusion that our solar heat is produced by the refraction of our atmosphere, and the dense and vaporous condition for some weeks past has increased this refracting power to an unusual extent, and this is the cause of our heated term.

CENTENARIAN BIRDS.—It may not be generally known, says the Wexford Independent, the eagle, raven and parrot are each centenarians. An eagle kept in Vienna died after a confinement of 114 years; and in an ancient oak still known as the raven tree, the same pair of ravens are believed to have fixed their residence for a series of more than 90 years. Swans upon the river Thames, about whose age there can be no mistake—since they are annually marked by the Vintner's Company, under whose keeping they have been for five centuries—have been known to survive 150 years and more. The melody of the dying swan is mythological. Upon approach of death the bird quits the water, sits down upon the bank, lays its head upon the ground, expands its wings a trifle, and expires, uttering no sound.

HARD GLASS.—We shall never, we fear, hear an end of new methods for hardening glass, R. Mensul, of Geiersthal, uses as a tempering bath a weak solution of glycerine and mucilaginous or gummy substances, such as a decoction of linseed. The glass is tempered while still on the pipe, and is then put into a moderately heated oven. The inventor puts great stress on the properties of the tempering bath.

The manufacture of toughened glass is carried on in a small way in Pennsylvania, being applied especially to the rendering of lamps and tumblers safe from fracture. The glass after having been run from the furnace and moulded, instead of being put into the annealing pots, is immersed in a hot bath, consisting of linseed-oil and tallow. The bath is kept up to about 320°. The ware after dipping is removed to a second bath with a temperature of 200°. Lastly, the glass goes into a water bath.

A square of 208-72 feet each way covers an acre, so also does a circle 235-5 feet in diameter.

BAKED HAM.—Most persons boil ham. It is much better baked, if baked right. Soak it for an hour in clear water, and wipe it dry; next spread it all over with thin batter, and then put it into a deep dish, with sticks under it, to keep it out of the gravy. When it is fully done take off the skin and batter crushed upon the flesh side, and set it away to cool.

A TEST FOR EGGS.—To determine the age of eggs, dissolve about four ounces of common salt in a quart of water and then immerse the egg. If it is one day old, it will descend to the bottom of the vessel; but if three days, it will float in the liquid. If more than five days old, it will come to the surface, and project above in proportion to its increased age.

To bleach leaves, mix 1 drachm of chloride of lime with 1 pint of water, and add sufficient acetic acid to liberate the chlorine. Steep the leaves about 10 minutes, and until they are whitened; remove them on a piece of paper, and wash in clean water.

A NEW TEST COLOR.—The flowers of the violet and iris have recently been found to yield a very fine blue color, which is a more delicate test for acids and alkalis than the solution of litmus commonly employed. The name of the new color is phyllocyanin. It will probably before long find its way to all chemical laboratories.

A NEW MUCILAGE.—The Journal de Pharmacie states that if, to a strong solution of gum arabic, measuring 8 1/2 fluid ozs., a solution of 30 grains sulphate of aluminum dissolved 3/4 oz. water be added, a very strong mucilage is formed, capable of fastening wood together, or of mending porcelain or glass.

AGRICULTURE.

If lime is sown on wheat land, it should be done before the wheat gets up. But if any one has a clover ley he intends to grow for hay this season, he cannot do better with it, or use his lime to more advantage than to give the field a light top-dressing of the lime, and if any falls off the shovel in lumps or in too great a quantity in one place, take care to scatter it as he goes on. And if a space is left of say a rod and a half wide the whole length of the field, without applying any lime, then he will see for himself the great effect of the lime on the crop where limed, and that left without any. By so doing the lime has something to feed upon, which it has not if sown on fresh ploughed land though it is of infinite good to the land at any time. The lime, of course, goes down into the soil, while barn-yard manure, even when deeply ploughed in, always, has a tendency to rise.—Correspondent New England Farmer.

As I have been remarkably successful with turkeys, the most tender of all fowls, I will give my plan of feeding, which is, simply, feeding nothing raw. I prefer feeding corn-bread, made of unsifted meal and cold water. Make the dough stiff, and bake in a slow oven until done—no more. If baked too long the crust will be hard and if the meal is sifted the bread will be sticky. Enough can be baked at once to last several days, and is more convenient than mixing raw meal every feed. I think it well to feed young fowls in this manner. But I always found absolutely necessary to bake bread for turkeys and common ducks.

TO PREVENT CHAFING.—The common practice of using pads or sheepskin under the collar is objectionable, especially in warm weather, because it accumulates heat and makes the breast tender. A better way is to take a piece of thick and smooth leather, cut it out just the size of the collar, or a little wider, and let it lie flat on the neck and shoulders of the horse. This will lie still and smooth on the horse's neck, while the collar moves about, and so it will prevent chafing. In addition to this let the breast of working horses be washed off every night with warm water.

We do not know any better method for waking up farmers to an interest in their vocation, to what shall promote progress and improvement in all things whatsoever that relate or appertain to the rural industries, than wisely conducted field meetings.—Boston Cultivator.

Even the chicken, after drinking, looks up to heaven.

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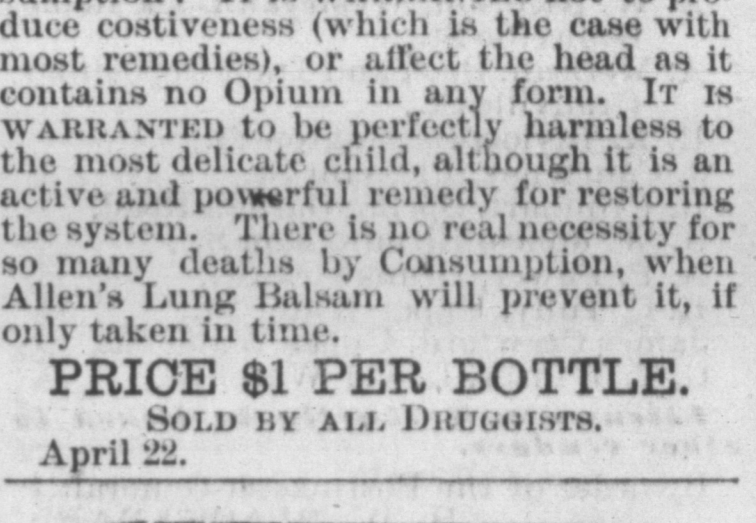
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And all diseases that lead to it; such as COUGHS, NEGLECTED COLDS, BRONCHITIS, PAIN IN THE CHEST, AND ALL DISEASES OF THE LUNGS.

ALLEN'S LUNG BALSAM

IS THE GREAT MODERN REMEDY 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. PRICE \$1 PER BOTTLE. SOLD BY ALL DRUGGISTS. April 22.



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IN VARIOUS STYLES. UPRIGHT, OBLIQUE, SQUARE, Etc. With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of THE "SILVER TONGUE."

A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y. The above are offered to a discriminating public at moderate prices. WM. FRASER & SONS, June 1, 70 & 72 Barrington St.

VEGETABLE PULMONARY BALSAM.

THIS standard remedy for coughs and colds and other pulmonary and bronchial ailments, was first put before the public in 1826 and ever since then, a period of half a century it has maintained and increased its reputation. In the meantime, probably thousands of so-called cough remedies, under every conceivable name, have appeared, been puffed, had their day, and most of them sank into the oblivion from which they never should have emerged to cheat invalids with false hopes of cure. Though no infallible virtues are claimed for this medicine it is just to say that it possesses the following excellencies:— 1. On many cases of cough it exerts an almost specific remedial influence, and the cases are very few which it quite fails to benefit. Long standing cases and those of aged persons are almost always greatly relieved. 2. Its action is speedy and pleasant; its taste is not disagreeable; and its dose is small. The last point is sure to be appreciated by the invalid. 3. It has received medical sanction, and has been frequently prescribed by some of our leading physicians. Add to the above that, when the smallness of its dose is considered, it is even cheaper than the common 25 cent Cough Drops and Syrups, of the Druggists.— This remedy has held its way and attained its present reputation by its own merit, with little aid from advertising. It has an established sale, and those who know it will always use it when they need such aid. But while our climate remains what it is, the army of sufferers from throat and lung complaints will always be a large one, and continually reinforced by new recruits. That all such may be acquainted with this reliable medicine is the aim of this advertisement. Price 50 cents and \$1.00 per bottle. CUTLER BROTHERS & CO., Proprietors, Boston. AVERY, BROWN & CO., Agents, Halifax. March 15. 3m.