

The Messenger Almanac.

Table with columns for Day, SUN., MOON., and High Tide. Rows list dates from 1st to 31st of May with corresponding times for sunrise, sunset, moonrise, moonset, and high tide.

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

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50 VISITING OR CALLING CARDS with your name finely printed, sent for 25 cents. Agents wanted. 6 samples sent for three cent stamp. Address: A. W. KINNEY, May 24. Iy. Yarmouth, N. S. I HAVE THIS DAY ADMITTED WM. L. BARSS, LL.B., A partner in my business, and hereafter the same will be prosecuted under the name and style of KING & BARSS. Halifax, Jan. 1, 1877. EDWIN D. KING.

KING & BARSS, BARRISTERS AND ATTORNEYS-AT-LAW, SOLICITORS, NOTARIES, CONVEYANCERS, & C. OFFICE, 42 BEDFORD ROW. Careful attention given to the Collection of Debts and Settlement of Estates. Business conducted with promptness and despatch. EDWIN D. KING, WM. L. BARSS, LL.B. Jan. 10.

SCIENCE.

LAMPS AND PURE AIR.—A number of experiments for ascertaining the relative contamination of air by artificial light have been made, which show that with lamps of good construction, petroleum contributes less carbonic acid to the air than any other source of light tested, and less of the products of incomplete combustion. It was also found that by equal illumination sterile candles contaminate the air most of all, and that rape-oil and coal-gas increase the temperature much more than petroleum, the action of the latter in this respect being about equal to that of the candles.

FAMILY DIET.—The family diet, as that of the cattle, should be looked to at this season. Succulent vegetable food, after much pork and beef, is necessary during the spring months, to insure the health of the family. The bodily system becomes clogged and turgid, and the health in consequence impaired. A general feeling of dulness and lack of energy possesses us at this season if the diet is not as it should be. At this season fruits and vegetables should be prominent articles of food. The family health, however, may be injured by these same vegetables in another way, i. e., if they are allowed to decay in the cellar beneath the living rooms, as they are quite apt to do unless precautions are taken to keep the cellar free from all such unwelcome causes of disease.—Scientific Farmer for March.

TO TAKE RUST OUT OF STEEL.—Place the article in a bowl containing kerosene oil, or wrap the steel up in a soft cloth well saturated with kerosene; let it remain 24 hours or longer; then scour the rusty spots with brickdust. If badly rusted, use salt wet with hot vinegar; after scouring, rinse every particle of brickdust or salt off with boiling hot water; dry thoroughly; then polish off with a clean flannel cloth and a little sweet oil.

Trials have been made in Rome of a solution of chloride of calcium as a substitute for water in laying dust in streets, and the results are said to have been highly satisfactory. The dampness communicated to the road remains for a whole week. The road remains damp without being muddy, presenting a hard surface, on which neither the wind nor the passing of pedestrians or of horses has any effect.

To clean paint, take 1 oz. pulverized borax, 1 lb. small pieces best brown soap, and three quarts water; let it simmer till the soap is dissolved, stirring frequently. Do not let it boil. Use with a piece of old flannel, and rinse off as soon as the paint is clean. This mixture is also good for washing clothes.

THE HOUSEHOLD.

A SATISFACTORY FILTER.—I have a domestic filter which has been in use nearly two years, and answers our family purposes remarkably well. It is simple in construction, and attended with little expense. It consists of a stone jar with an orifice in the bottom, in which is a cork surrounded with sponge to prevent the water from passing out too rapidly. On the bottom of this jar are three quarts of clean sand, on this the same quantity of fine charcoal, and on this a layer of pebble stones. In the top is an ordinary flower-pot, in the whole of which is a sponge to prevent the water passing out faster than it drips from the jar below. The filter is inclosed in a case, stands near the hydrant in the summer, and in the cellar in the winter. The sponge in the flower-pot should be cleaned once or twice a week, but the sand and charcoal do not require renewing oftener than twice a year.—New York Tribune.

TO FRY APPLES AND CHOPS.—Season them with salt and pepper and a little powdered sage or sweet marjoram; dip them into beaten egg and then into beaten bread crumbs. Fry about twenty minutes, or until they are done. Put them on a hot dish. Pour off part of the gravy into another pan, to make a gravy to serve with them, if you choose. Then try apples which you have sliced about two-thirds of an inch thick, cutting them around the apple so that the core is in the centre of each piece. When they are browned on one side and partly cooked, turn them carefully with a pan-cake-turner, and let them finish cooking.

Intelligence lies not in the years, but in the head.

AGRICULTURE.

PLOWING WITH DYNAMITE.—We have already mentioned that dynamite has been used for ploughing; and agriculture will derive advantage from this and other compounds heretofore employed in engineering. At the works for the Exposition buildings, now going on at the Trocadero, Paris, passers-by may, at certain hours, be startled by a deep rumbling sound. This is caused by springing of dynamite mines, which, without any violent projection of materials, makes the obstacles crumble away, and breaks up the underground rocks, the fragments of which are used for the buildings. Now, dynamite will perform a similar service in the fields. The Duke of Sutherland, in Scotland, and Dr. Hamm, in Austria have employed it for clearing land and for digging much deeper than any instrument could. A certain number of dynamite cartridges are buried in regular distances in the soil, and connected together by electric wires. The explosion is simultaneous; and, though nothing is thrown up, the field is effectually plowed.—Scientific American.

APPLYING SUPERPHOSPHATE.—Which is the best way to apply superphosphate? A. McL.

It depends on what crop it is applied to. If on a crop that is cultivated in hills, like potatoes or corn, the superphosphate should be put in the hill and mixed with the earth before the seed is planted, to prevent injury by contact. If for ridged crops, superphosphate should be sown broadcast after harrowing. The riding plough will roll it inwards and mix it with the earth. For drilled crops special implements are made, which sow the manure and the seed together. When this implement is not used the superphosphate is sown broadcast and the seed is then drilled in; or the superphosphate is composted with the barn-yard manure.—Globe.

HYACINTHS.—The gardener of the University of Berlin has found that hyacinths may be propagated by their leaves, thus revealing a new way to raise a large number of specimens of rare varieties. The leaves require to be cut off as close to the bulb as possible, put in a saucer and covered with a thin layer of sandy leaf-mold. The saucer having been placed in a greenhouse, close to the inner surface of the glass, in eight or nine weeks the leaves will develop bulbs.

The Truro Sun says: The Short Horn Bull Calf, "2nd Gwyne of the Forest" 10 months old owned by J. B. Fraser, Esq., of Shubenacadie, weighed on Monday last, the 5th instant, 750 pounds, girted 5 feet 3 inches. Who can beat this?

WATER IN FEED.—The percentage of water in several of our most ordinary foods is as follows.— per cent. Meadow and clover hay.....14.3 to 16 Straw.....14.3 Dry grains of cereals, etc.....14.3 Green fodder.....75 to 80 Mangel-Wurzel.....88 to 90 Turnips.....91 to 92 Potatoes.....75

HIDE-BOUND TREES.—Trees that have long stems, exposed to hot suns or drying winds, become hide-bound. That is, the old bark becomes indurated—cannot expand—and the tree suffers much in consequence. Such an evil is usually indicated by gray lichens which feed on the decaying bark. In these cases, says the Gardener's Monthly, a washing of weak ley or of lime water is very useful; indeed, where the bark is healthy it is beneficial thus to wash trees; as many eggs of insects are thereby destroyed. We would, however, refer to lined oil as a wash, as far more effective for insects, and it would, perhaps, do as well for moss and lichens. After all, these seldom come when trees are well cultivated. It is neglect that makes poor growth and it is poor growth that makes lichens.

When Farmer Budge read that a bull painted by Rosa Bonheur sold for five thousand dollars, he remarked to his wife that he didn't see how a coat of paint could so greatly enhance the value of the animal, but if Rosa didn't charge more than ten dollars he would get her to paint his bull in the spring. And his economical wife replied that she thought he might paint it himself, and save the ten dollars. The indications are now that the bull will be painted.

Necessity is the mother of invention.

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