

The Messenger Almanac.

Table with columns for Day, SUN, MOON, High Tide at Halifax. Rows include dates from 1st to 30th of June with corresponding times for sunrise, sets, and tides.

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, 3 hours and 25 minutes LATER, and at St. John's, Newfoundland, 20 minutes EARLIER, than at Halifax.

BETCHER'S PICTORAL 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.

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.

CONSUMPTION CURED. To the Editor of "Christian Messenger," 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.

Agents Wanted. Gents or Ladies, \$5 to \$10 a day guaranteed. Full particulars sent free. Write immediately to DR. J. BALL & CO., (P. O. Box 957), No. 81 Liberty St., New York City, N. Y. Nov. 25.

AGRICULTURE.

GROWING OATS.—Oats are usually put upon the poorest land and given the poorest cultivation. The crop will of course correspond, and the land be much the worse for the crop and treatment. It is therefore no wonder that the oat crop is said to impoverish the soil.

RAISING CALVES WITHOUT NEW MILK.—My principal object is to show farmers and others that they can raise or even veal their calves without giving them the new milk fresh from the cow. The best food to fatten a calf without whole milk, is oil-meal, molasses, and skim-milk for the first two weeks, after which a little oat or barley meal may be used.

PERIODS OF GESTATION AND INCUBATION.—The periods of gestation and incubation of the most common of our domestic animals are as follows:—Average. Known Limits. Mare..... 340 days. Cow..... 280 " -260 to 300. Ewe..... 150 " 144 to 153. Goat..... 150 " unknown. Sow..... 122 " 101 to 123. Dog..... 63 " 59 to 67. Rabbit..... 30 " unknown. Turkey..... 36 " 26 to 32. Hen..... 21 " 18 to 24. Swan..... 35 " 35 to 42. Goose..... 30 " 28 to 34. Duck..... 28 " 24 to 30. Pea Hen..... 28 " 27 to 29. Pigeon..... 16 " 15 to 17.

HEN MANURE.—The best use to which I can put a small quantity of hen manure is to take a barrel, put in, say, one bushel, set it in the garden, fill it nearly full of rain water, stir it up well, and when your vegetables are well up, water them once or twice with this solution, taking care not to pour the liquid on the plants, except on squashes or cucumbers.

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If I had more than I could use in the way last mentioned, I should put it on the compost heap with other manure, and spread it broadcast on the land and plough it under.—New England Farmer.

Onions given to horses in the first stage of the epizootic are said to be very beneficial. They cause the animal to cough and sneeze and discharge freely from the mouth.

SCIENCE.

COLOR ARRANGEMENTS.—A few simple rules in the arrangements of flowerbeds will materially enhance the effect produced. Among these are: 1. Avoid placing rose-color next to scarlet, orange or violet. 2. Do not place orange next to yellow, or blue next to violet.

FISH AS FOOD.—There is much nourishment in fish, little less than in meat, weight for weight; and in effect it may be more nourishing, considering how, from its softer fibre, fish is more easily digested. Moreover, there is in fish a substance which does not exist in the flesh of land animals, namely, iodine—a substance which may have a beneficial effect on the health and tend to prevent the production of scrofulous or tubercular disease, the latter in the form of pulmonary consumption, one of the most cruel and fatal with which civilized society is afflicted.

This sample of the poetry of science gives us the offspring of a chemical wedding: Messrs. Water and Oil One day had a broil, As down in the glass they were dropping, And would not unite, But continued to fight, Without any prospect of stopping.

OATMEAL, BONE AND MUSCLE.—Liebig has shown that oatmeal is almost as nutritious as the very best English beef, and that it is richer than wheat bread in the elements that go to form bone and muscle. Prof. Forbes, of Edinburgh, during some twenty years, measured the breadth and height, and also tested the strength of both the arms and loins of the students in the university—a very numerous class, and of various nationalities, drawn to Edinburgh by the fame of his teaching.

Harness, and other articles of leather that are injuriously acted upon by the ammoniacal exhalations common in stables may, according to Prof. Artus, be thoroughly and effectually protected by the addition of a little glycerine to the oil or blacking with which their surfaces are treated.

Cheap and steam-tight cement can be produced by a mixture of rye flour and linseed oil, with an equal portion of white chalk. To find a needle in a hay-stack has ever been considered a difficult work, but it is no more difficult than it is to find Cleopatra's Needle in England.

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