

The Christian Messenger. ALMANAC FOR SEPTEMBER.

First Quarter, Sept. 7th. 5h. 23m. afternoon. Full Moon, " 15th. 8h. 27m. morning. Last Quarter, " 22nd. 2h. 46m. morning. New Moon, " 29th. 8h. 41m. morning.

Table with columns for Day, Sun, Moon, High Tide, and Low Tide. Rows list days from 1st to 30th with corresponding times.

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 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 2 hours, and to the remainder add the time of rising, n. x. morning.

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DAY AND EVENING. In addition to our regular Course, we will, as soon as a reasonable number of applications are received, open EVENING CLASSES in TELEGRAPHY, employing an experienced instructor, who is ready to commence operations at once.

BETCHER'S PECTORAL MIXTURE 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. 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.

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 over a year.

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.

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.

Los Angeles county, California, boasts an onion weighing four pounds two ounces.

Agriculture.

ROPING HAY.—I noticed in some parts of the country last year, what I consider in haymaking a great saving of labour. The hay, when cured, is raked into windrows, then a rope or chain, about 30 feet long, is laid with the centre on the end of the windrow; the horses are placed one on each side and hitched one to each end of the rope; the checks are let out long, so that they will not trample over the hay.

FREQUENT SEEDING ADVISABLE.—Clover is at its best for pasture or hay the second year after seeding. If allowed to grow through that year, its roots extend as far as they ever will, and the ley is in best condition for ploughing.

GRASSES FOR LIGHT SOILS.—Flint recommends the following mixture of grasses for light sandy soils:—Tall Meadow Oat grass, 3 pounds, Orchard grass, 4; Hard Fescue, 6; Meadow soft grass, 3; Italian rye grass, 4; Perennial rye grass, 10; Timothy, 8; Red clover, 3; White clover, 4—total 40 pounds.

BURN UP A TREE, a stack of hay or grain, and nearly all passes off into the air. All that is consumed must have come from the air at first and is from ninety to ninety seven pounds in every hundred.

FOOT-ROT IN SHEEP.—To treat this malady, take a box, 16 feet long, and 3 feet wide, about, put in dry, fresh-slacked lime, and run the sheep through it every other day for two weeks or until a cure is effected.

In Italy, schools of instruction for the cultivation of fruit trees, but especially of apples, have been established by the Government. As a means of assisting to popularize agricultural education in that country, it has been ordered that the soldiers shall attend courses of lectures on agriculture for at least two years before their discharge.

CHICKEN WISDOM.—By keeping early chickens to breed from, you will, within a few years, increase their size beyond your own belief. Feeding meat increases the size of eggs. Warm feed with milk and oats increases the quantity of eggs.

If you have an old field completely run out, and nothing to manure it with, turn in as many sheep as it will carry, and in four years that field will be ready for the scythe again, and the sheep will pay their way while they are doing the work.

Hogs love sulphur, and a considerable amount of it is necessary to keep them in fair health. When hogs run at large and find green food they supply themselves with what is needed; but pigs kept in close pens and fed on house or corn slops need some more laxative food.

Science.

CLEOPATRA'S NEEDLE.—The obelisk known by this name which is shortly to be transported from Egypt to England, is a fine monolith of red granite, 64 feet in length and 7 feet in diameter. Its weight has been variously estimated, but the maximum given is 284 tons.

WHAT FRICTION DOES.—Friction impedes the progress of the railway train, and yet it is only through friction that it makes any progress. This apparent paradox is explained when we remember that, by reason of the frictional bite of the driver upon the track, they draw the train.

TOUGHENED GLASS has been submitted to severe tests. A piece of ordinary glass, six inches long by five inches wide, and one-fourth of an inch thick, was placed in a small frame which supported the glass around its edges, and kept its under-side about half an inch from the floor.

Such then, is De la Bastie's toughened glass, which possesses enormous cohesive power, and offers great resistance to the force of impact. There is, however, one peculiarity which, for the present, tells against it in a slight degree—it cannot be cut through with a diamond. But if it cannot be cut by the diamond, it can be readily cut and polished by the wheel, as for lustrous and the like, so that wine glasses and articles of out glass-ware can be toughened directly they are made, and cut and polished subsequently.

Sawdust may be converted into a liquid wood, and afterwards into a solid, flexible, almost indestructible mass, which, when incorporated with animal matter, rolled, and dried, can be used for the most delicate impressions, as well as for the formation of solid and durable articles, in the following manner:—Immerse the dust of any kind of wood in diluted sulphuric acid, sufficiently strong to affect the fibres, for some days; the finer parts are then passed through a sieve, well stirred, and allowed to settle. Drain the liquid from the sediment, and mix the latter with a proportionate quantity of animal offal, similar to that used for glue. Roll the mass, pack it in moulds, and allow it to dry.

PATENT SAUSAGES.—The latest thing in patents is the sausage. M. Gravel has obtained the monopoly of manufacture for France of a new kind of sausage. This singular addition to the commissariat has been adopted for the army by the Ministry of War, and a supply has been ordered for the occasion of the autumn manoeuvres, when it will, for the first time, come into use. This new article is composed of meat, beans, peas and lentils.

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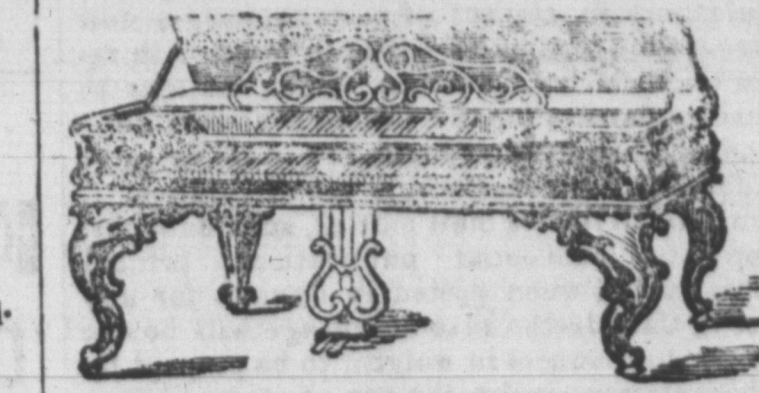
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