# The Christian Messenger.

ALMANAC FOR SEPTEMBER.

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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. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 min-

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 .- Subt.act the time of the sun's setting from 2 hou. and to the remainder add the time of rising n. x' morning.

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Nov. 18

## BETCHER'S PECTORAL MIXTURE

EATON'S FRAZER.

Coughs, Colds, Whooping Cough, Asthma, &c.

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, for which assertions abundant testimony can be produced. For singers and speakers it is also invaluable. No harm can result from a tree use of this medicine.

To be had of the Manufacturer J. W. BETCHER,

No. 27 CORNWALLIS STREET, HALIFAX, N. S.

HALIFAX, March 10th, 1873.

J. W. BETCHER, Esq.

Dear Sir,-Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic chough, and pulmonary weakness which had been preying upon my system for over a year, and would recommend it to all who are suffering from like complaints

GEO. L. FELLOWS.

l yr.

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. One bottle of the cough medicine prepared by J. BETCHER, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since, and I believe it to be the best medicine for Coughs, Colds, Asthma, &c., that there is made. JOHN N. DEARBORN.

Aug. 12.

Aug. 5.

### CONSUMPTION CURED.

To the Editor of Christian Messenger.

ESTEEMED FRIEND: Will you please inform your readers that I

have a positive CURB 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. 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. F. BURT. William Street, New York.

## Agriculture.

ROPING HAY .- I noticed in some parts of the country last year, what known by this name which is shortly I consider in haymaking a great to be transported from Egypt to saving of labour. The hay, when England, is a fine monolith of red cured, is raked into windrows, then granite, 64 feet in length and 7 feet in a rope or chain, about 30 feet long, diameter. Its weight has been variousis laid with the centre on the end ly estimated, but the maximum given is of the windrow; the horses are placed 284 tons. It now lies prostrate and one on each side and hitched one to parallel to the sea, on a sandy bank each end of the rope; the checks fifteen feet high. The hieroglyphics are let out long, so that they will not are in good preservation, and record trample over the hay. One person that the obelisk was erected at On (Hestands on the curve of the rope on the liopolis, near Cairo,) by Thothmes II., hay; with a fork he smoothes the hay (about 1500 B. C.,) during whose reign down, and keeps it from falling over | Egypt is recorded to have "placed its the rope. A boy can drive the horses frontier where it pleased." The lateral up the windrow untill they get a suf- inscriptions record the name and titles ficent quantity, or as much as the horses of Rameses II., (known to the Greeks can draw. Then, if it is to be stack- under the name of Sesostris,) and relate ed in the field, it is taken direct to the bow he had conquered all the nations stack, or barn if near by. One man of the world. It is worthy of note, too, and boy this way will draw as much as | that the Israelites were in Egypt at the four men will stack or mow away. If time of the construction of this monuthe distance requires the hay to be ment. loaded on a wagon, three heaps put together this way, will make a load; or in case of threatening rain, without much injury. Hay put together this way will pitch much easier than out of the windrow. The boy can ride also on the hay while drawing it together. -Cor. County Gentleman.

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 If kept longer the clover runs out, and its place left vacant or filled by weeds and inferior grasses. If timothy is mixed with clover at seeding, it will partially occupy the ground as the clover retires, but never so fully as if the original seeding was timothy. In short, keeping a clover sod over the second or third year, at most, is generally bad policy, and should be discouraged. For one or two years land in clover increases in fertility; after that the advantage is less until another seeding is had. - Country Gentleman.

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, freshslacked lime, and run the sheep through it evey other day for two weeks or until a cure is effected. It is a neverfailing cure.

the cultivation of fruit trees, but espe- the diamond, it can be readily cut and cially of apples, have been established polished by the wheel, as for lustres by the Government. As a means of as- and the like, so that wine glasses and sisting to popularize agricultural education in that country, it has been ordered that the soldiers shall attend and polished subsequently. courses of lectures on agriculture for at least two years before their discharge.

quantity of eggs. Pullets' eggs hatch sooner than those from old hen's eggs. -Rural New Yorker.

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 supbut pigs kept in close pens and fed on house or corn slops need some more laxative food.

two ounces.

### Science.

CLEOPATRA'S NEEDLE .- The obelisk

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. The bearings of the wheel upon the rails are a mere line where they come in contact, iron and iron, yet this slight and almost imperceptible hold is sufficient to move hundreds of tons of dead weight with the speed of the wind.

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. A fourounce weight was dropped on it from a height of one foot, and the glass was broken. A piece of toughened glass corresponding dimensions was then placed in the frame, and the same weight dropped upon it several times from a height of ten feet, but without fracturing the glass. An eightounce weight was then substituted, and repeatedly dropped upon the glass from the same height as before, and with the same result-no impression whatever being made upon it. The eightounce weight was then thrown violently upon it several times, but without damaging it. Its descruction, however was finally accomplished by means of a hammer. Perhaps the most crucial test to which toughened glass could be put Brookfield-A. J. Leadbetter. would be to let it fall on iren. This has been done, and in public too. A thin glass plate was dropped from a height of four feet on to an iron grating, from which it rebounded about one Do., foot, sustaining no injury whatever.

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 In Italy, schools of instruction for a diamond. But if it cannot be cut by articles of out glass-ware can be toughened directly they are made, and cut

Sawdust may be converted into a liquid wood, and afterwards into a solid, flex-CHICKEN WISDOM .- By keeping ible, almost indestructible mass, which, early chickens to breed from, you will, when incorporated with animal matter, within a few years, increase their size rolled, and dried, can be used for the beyond your own belief. Feeding most delicate impressions, as well as meat increases the size of eggs. Warm for the formation of solid and durable feed with milk and oats increases the 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 seive, 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 .- Scientific American.

PATENT SAUSAGES .- The latest thing in patents is the sausage. M Gruvel has obtained the monopoly of manufacture for France of a new kind ply themselves with what is needed; 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 manœuvres, when Los Angeles county, California, it will, for the first time, come into use. boasts an onion weighing four pounds This new article is composed of meat, beans, peas and lentils.

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great deal, my experience is that Hemp cures

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bave tested it. Let there be no delay. In friendship, MRS. V. H. CONNEB. Burlington, Ky., June 23, 1874. Aug. 12.



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