The Messenger Almanac.

Printed and the Control of the	JUA.
E - SUN.	aly 7th, 4h. 6m. morning 14th, 6h. 40m. 22nd, 8h. 1m. 29th, 5h. 26m. aftern, MOON. High Tide Rises. South. Sets. at Halifax
6 Sa 4 26 7 43 1 7 SU. 4 27 7 43 2 8 M 4 27 7 42 9 Tu. 4 28 7 42 10 W. 4 29 7 41 11 Th. 4 30 7 40 13 Sa 4 31 7 40 14 SU. 4 32 7 39 15 M 4 33 7 38 16 Tu 4 34 7 38 17 W. 4 35 7 37 18 Th. 4 36 7 36 19 Fr 4 37 7 35 20 Sa. 4 38 7 35 1 SU. 4 39 7 34 1 22 M. 4 40 7 33	5 32 1 10 8 48 8 25 6 50 2 6 9 22 9 7 8 8 2 58 9 48 9 51 9 24 3 48 10 12 10 36 10 39 4 37 10 35 11 22 11 54 5 25 10 56 M. 12 10 36 11 10 10 36 11 10 10 36 11 10 10 10 10 10 10 10

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, Newfound- time, morning, noon, and night." land, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes LATER. A Westport, 2 hours 54 minutes LATER. A Yarmouth, 2 hours 20 minutes

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. Sub-tract the time of the sun's setting, from 12 hours and to the remainder add the time

CHURCH REQUISITES.

of rising next morning.

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AGRICULTURE.

We must always bear in mind that a plants from slips. They will seldom strike root when the thermometer marks below 60 deg., and that is probable why so many fail. The best material to start cuttings of any kind in is cleanwashed sand. If in the ground, make a hole an inch or two across and fill it with sand. Grape propagators use nothing but sand and water at first. When roots start, the cuttings are changed to other pots, filled with rich compost.

A Writer in the Southern Farmer says that his cow gives all the milk that is wanted in a family of eight, and that from it, after taking all that is required for other purposes, 260 pounds of butter mere made this year. This is in part his treatment of the cow: "If you desire to get a large yield of rich milk, give your cow every day water slightly warm and slightly salted, in which bran has been stirred at the rate of one quart to two gallons of water. You will find, if you have not tried this daily practice, that your cows will give twenty-five percent. more milk immediately under the effects of it, and she will become so attached to the diet as to refuse to drink clear water unless very thirsty. But this mess she will drink almost any time, and ask for more. The amount of this drink necessary is an ordinary water pailful at a

lines under his tail, the best remedy that I know of is one of my own invention, which proved effectual with a horse who was a dangerous animal to drive on this account. It consists of a leather pad about four of six inches in circumference, and in length the width of a horse's tail, like any ordinary crupper and put it under the tail. It will elevate it so that the horse cannot hug the lines and, moreover, it will cause him to carry his tail in a graceful and showy position. The cost is but a trifle. I use mine on all colts when first driven, as I think it gets them in a way to carry tneir tails free and prevents the habit of hugging the reins.

The Rural World says: "In planting trees, shrubs and vines, place no manure in contact with the roots. Many persons think they are doing a nice thing for their trees to sprinkle manure among their roots in the progress of planting, but, instead, they do harm. If you put the manure above the roots when the holes are nearly filled, so when the dirt is replaced it will be fairly covered, good will result from the application. Cow manure or well rotted stable manure is used with success To prevent injury from severe frosts, and also to benefit the trees by enriching the ground, coarse manure, containing offer considerable resistance to the digesconsiderable straw, may be spread over the ground, rather thick, around the stems or trunks, as far as the roots ex-

TO DESTROY WORMS ON LAWNS .-A correspondent of the Journal of Forestry makes the following statement in only a third hand to mark the seconds, but the current number:-Dissolve one oz. of corrosive sublimate (poison) in a pint days of the week and month, and the favorable expression, and its acknow-ledged value as a Rheumatic Remedy, the of hot water, adding two large handfuls proper dates. It also contains an alarm of salt. When dissolved add 9 gallons and, on its front cover, an ingeniously of cold water, then water the lawn with cut figure of St. Francis of Assisi. On a common garden watering-can through the back cover, two verses of the Te a rose. Nine gallons will go over 800 Deum are distinctly cut. A monastery they can be picked up by hand or swept side of the board. He plays cautiously the treatment of all rheumatic complaints. fronts on the Annapolis River, the Han-ley Mountain road forming the West line. Contains 115 acres, about one should be rolled immediately effort the cally, and sometimes checkmate him. operation. Lawns done over three a solid mahogany board. times from October to March will have a beneficial effect in keeping the worms

> Farmer spins the following yarn :- We have a ten-months-old white calf that has a very strong constitution should take been wet-nursing a pair of motherless nearly twice that quantity. This oil to milk, and seem to thrive as well as any of those nursed by their natural mothers.

The largest strawberry farm in the world is said to be that of John R. Young of Norfolk, Va., which yielded, hoof and is said to be more durable. It last season, over 500,000 quarts.

SCIENCE

PROGRESS OF THE GREAT TUNNEL -A recent report of the inspector of high temperature is necessary to grow the great St Gothard tunnel through the Alps states that the irregular character of the formations pierced by the tunnel has entirely ceased, and that the work is now progressing through uniformly regular strata. On the south side the boring progresses at the rate of 10 feet daily through gneiss. The rate is somewhat less on the north side, where the tunnel is not yet out of the serpentine. The thickness of this stratum of serpentine now being pierced is already double that estimated by geologists from the surface indications.

HOME-MADE CHLORIDE OF LIME .-Professor Nash gives the following directions for making this very useful disinfectant and fertilizer: "Take one barrel of lime and one bushel of salt in as little water as will dissolve the whole, slack the lime with the water, putting on more water than will slack it, so much that it will form avery thick paste; this will not take all the water; put on therefore, a little of the remainder daily until the lime has taken the whole. The result will be a powerful deodorizer equally good for all out-door purposes, with the article bought under that name at the apothecary's and costing not one-twentieth part as much. This should be kept under a shed or some out-building : it should be kept moist, and it may be applied whenever offensive odors are generated with the assurance that it will be effective to purify | Caslow-J. B. McNutt, Esq. Horses Hugging THE LINES -To the air, and will add to the value of the prevent the horse from hugging the manure much more than it costs. It would be well for every farmer to prepare a quantity of this and have it always on hand."

> TAKE TIME TO EAT .- Oatenmeal, cracked wheat, and similar boiled breakfast dishes often become more or less indigestible from being "bolted" in the usual Yankee style. They are soft and "go down" easily, and are shovelled or spooned into the stomach, with no delay in the mouth en rout. They need mastication as really as beefsteak does,not to save one from choking (which many people seem to suppose is the sole reason for chewing), but to mix them thoroughly with saliva, which is a digestive agent and not a mere lubricant Do., to expedite the passage of dry food down the œsophagus. A friend of ours was lately complaining that oatmeal did not agree with him, and we found on enquiry that he was in the habit of eating it in this hurried way, without insalivation. He was much surprised when told that he ought to "chew" it, or at least to detain it for a moment in the mouth before swallowing it; but after a trial he admitted that he had no more trouble in digesting it. If the oatmeal or wheat is not thoroughly cooked it is all the more important that is should be masticated, as the half-softened grains tive fluids .- Journal of Chemistry.

Some of the monasteries of Italy and France have sent very curious inventions to the Paris Exhibition. A Florentine friar has constructed a watch only aquarter of an inch in diameter. It has not a microscopic dial which indicates the square yards, and should be applied im- in Brittany, France, has contributed a mediately after rain, when the worms plain-looking mahegany table, with an come up near to the surface of the inlaid draught or chess-board on the surground. The application will make the face. The inventor sets the piece for worms appear on the surface, when a game of chess, and sits alone at one with a broom, taken away and destroyed | and the opposite pieces move automatishould be rolled immediately after the neath the table-top, which seems to be

NEUTRALIZING POISON WITH SWEET quiet during the summer season, when oil .- A poison of any conceivable deslawn tennis, croquet, and bowling are cription and degree of potency, which has been intentionally or accidentally swallowed, may be rendered almost in-A correspondent of the American stantly harmless by swallowing two gills of sweet oil. An individual with lambs the past six weeks. They took will most positively neutralize every to her after the death of their mother, form of vegetable, animal or mineral and tugged away until they brought her poison with which physicians and chemists are acquainted.

> In England a horse-shoe made of cowhide-three thicknesses placed togetheris being adopted as greatly superior to iron or steel, as it will not injure the also improves the movement of horses.

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