The Messenger Almanac.

New Moon, Sept. 7th, 8h. 46m. morning First Quarter, "14th, 6h. 54m. " Full Moon, "22nd, 11h. 21m. " Last Quarter, "30th, 2h. 6m. "	
Day SUN. MOON. High Tide W . Rise. Sets. Rises. South. Sets. at Halifs	
Sa. 5 26 6 34 11 7 6 13 2 16 A. 24	

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 Tormen-

tine, 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. 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.—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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SCIENCE.

EXERCISE FOR THE TEETH.—M. L. if chewed fine it is very sweet, and promotes the rapid flow of much saliva. Unless swallowed whole it cannot harm. It must not be supposed that any effect, however, to prevent entirely the decay of the teeth, weakened by ages of bad dietetic habits, can in one generation be effected, and so the dentist must for the present be called in to our aid.

that a good New York dentist told me the other day that the teeth of boys brought up in New York were much worse than those of country boys. The jaws are smaller, the teeth are softer, and not always covered over with enamel. If this is so, it is a great misfortune to be born in a city. But the dentist admitted that if the boys or girls were to chew a handful of raw wheat every day, it would cure the defect, so let us try it. We exercise our horses, why not our teeth?"

Sunstroke is not necessarily produced by the direct rays of the sun, or even by a high temperature, except as compared by that which has just preceded. should observe caution. The condition ish bath. The skin does not immediatecomplaint.

Before the drought of 1864 Los Angeles, County Cal., was renowned for the number of her cattle. During 1864 starvation. The disappearance of these cattle inaugurated the era of farming in Los Angeles. It was a blessing in disguise, and most of the thousand productive farms of which the country now boasts, owe their existence to that drought.

ECONOMICAL PAINT .- Skim milk, 2 quarts; fresh slacked lime, 8 ounces; linseed oil, 6 ounces; white Burgundy pitch, 2 ounces; Spanish white, 3 pounds. The lime to be slacked in water, exposed to the air, and mixed in one fourth of the milk. Dissolve the pitch in the oil and add a little at a time. Then add the rest of the milk and the Spanish white.

A TWO FOOT CHEAP RAILWAY .-The two feet gauge railroad between Billerica and Bedford is making good progress, and will be soon finished. of the ordinary railways.

AGRICULTURE.

How to MANAGE CUTTINGS.—In Holbrook, M. D., in the Herald of reply to a correspondent, the Floral Health, says: -" There is very little | Cabinet gives the following directions doubt but the human teeth have become in regard to the making and managing through successive ages of civilization of plant cuttings: In selecting a cutmore fragile and liable to decay than is ting, a great deal depends upon a judieither pleasant or profitable. Just how cious choice; if the slip is too young much of this is due to lack of care and and full of fresh sap, it will tade away cleanliness, and just how much more to from too much evaporation; if it is too food, no one can tell; but it is evident old-hard and woody-it will take a these causes are among the chief, and great while to strike root. You must it would seem reasonable that man in take a cutting that is perfectly ripened civilization should do something to pre- and is from a vigorous shoot, yet a little vent it. Now in barbarous tribes of hardened at the base. It is also essenmen the teeth are generally sound, and | tial to have a bud or joint at or near yet a toothbrush or soap is never used, the end of the cutting, as all roots strike Do. and this may be because their teeth are from it, and the nearer it is to the base, exercised more by hard food, and cleaned | the greater your chance of success. Plant by the abundant flow of saliva which your cuttings in common red pots, filled would naturally come from hard food. half full of rich loam and two inches of Man cannot, however, go back to a sand on top (scouring sand will do, but savage life, so he must contrive means | not sea sand); wet it thoroughly, and for keeping his teeth so that they shall put the cuttings close around the edge not decay. That one of these means is of the pot, for if the bud or joint comes the toothbrush and tooth-soap is certain; in contact with the surface of the pot, but is this sufficient? We think not, it seems to strike root more quickly. and believe that exercise is an additional | Pull off the lower leaves before you means of toughening the teeth and plant the cutting. Press the wet sand making them strong. But how are tightly about the tiny stem, for a great they to be exercised? Surely it cannot | deal of your success in rising the cutting be done on soft bread and such food as depends upon the close contact of the is too often found on our tables. It sand with the stem. When the cuttings may be that the eating of raw wheat | are firmly planted, cover them with a would give the proper exercise, and we glass shade if possible, as it will greatly suggest that it be tried in this way. promote growth of the plant. Moisture, Each day let the teeth be exercised on light and heat, are the three essentials a teaspoonful of clean, dry, uncooked to plants life—without them no cutting Osborne.—Rev. E. N. Archibald. wheat. Children become fond of it and will start. Shade for two or three days. wheat. Children become fond of it, and | will start. Shade for two or three days from the sunlight, but don't let the sand become dry; then give all the sun you can obtain, keep up a good supply of moisture, and you can hardly fail to root most of your cuttings.

The Omaha Indians in Nebraska, numbering 1,000, raise this year 9,000 bushels of wheat, 600 bushels of oats, "Speaking of dentists, let me remark 5,000 bushels of potatoes, 27,000 bushels of corn, and 850 bushels of vegetables. These Indiaans are nearly all self-supporting.

> A farmer at Mount Sterling, Ky., has obtained a fine sample of sugar from the bloom of the common poplar tree. It is granulated in appearance and snowy in color.

Good fences pay better than law-suits with neighbors.

THE HOUSEHOLD.

SOME CAUSES FOR POOR BUTTER .-Among the causes which injure the quality of butter I will name, first, Undue exercise after sudden changes in disease in the cow; fright also has an the weather from very cool to very injurious effect upon the milk; breathwarm, is attended with special danger ing foul gases or odors often leaves its to weak organisms; and all persons taint upon the milk; it is also affected predisposed to apoplexy or heart disease, by whatever the cow lives upon. Next, the cream while exposed to the air in brought about is an exaggerated form rising is very susceptible to taints of of the disturbance occasioned by entering | all kinds; churning it at too high or too suddenly the "hot" room of a Turk- too low a temperature always injures the produce. Butter can be greatly ly performits function as an evaporating, hurt by over-churning, over-working, and, therefore, cooling surface, and an or both, and much of the poor butter acute febrile state of the organism is es- in market is spoiled in these ways. tablished, with a disturbed balance of When overworked it appears greasy circulation, and more or less cerebral and sticky, and will keep but a short irritation as a prominent feature of the time. The secret of this injury is in the breaking of the grain. Perfect butter, like sugar, appears under the microscope to be made up of granules or crystals, and to crush and destroy these is to destroy the distinguishcontains no Opium in any form. It is the number of her cattle. During 1864 these is to destroy the distinguish- United States and Canada; and in this warranted to be perfectly harmless to hundreds of thousands of cattle died of ling feature of perfect butter, and way on a basis of its merit alone—unaidruin completely its keeping quality. I find in going among dairymen and dairywomen that a large proportion of them do not know how to make butter which would keep sweet to get to market. On seeing a package of butter being put up, I asked the good lady whether she believed her butter would keep perfect for a long time. She replied that it always had kept good until her husband carried it to the village every Tuesday, which was their market day. This butter was churned, washed, salted, worked and packed in less than sixty minutes from the time that the cream went into the churn. If it reached the consumer in a few days, it was probably eatable, but if through any delay or oversight, it was set one side for a few months it would be poor and perhaps altogether unfit for eating or cooking. - Scientific American.

> A GOOD MOLASSES CAKE .- Two The passenger cars, now building at eggs, one cup molasses, one cup brown Laconia, N. H., will be a decided sugar, large spoonful of lard or butter, novelty, as they will have a row of one teaspoonful soda, large spoonful single seats on each side. The road is mixed cloves and spice, one and one-half eight and one half miles long, and will pints buttermilk, and flour enough to cost about \$50,000, or less than \$6,000 make a rather thick batter. Bake in a per mile, being only one eighth the cost | biscuit pan; cut out in squares while

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