## The Messenger Almanac.

MAY.	
Last Quarter, " 12th, 10h. 22m. A. New Moon. " 21st, 1h. 36m. M	I. A. Tide
TI   Th.   4 54 7 0   1 54   8 9   2 1   2   Fr.   4 53 7 1   3 8   8 58   2 24   3   3   Sa   4 51 7 2   4 27 9 50 2 48   4   SU.   4 50 7   4   5 50 10   46   3 13   5   M   4 48 7   5   7 10   11   44   3 42   6   G Tu.   4 47 7   6   8 33   M   4 18   7   7   W.   4 46 7   7   9 46   0 47   5   1   7   8   Th.   4 44 7   8   10 47   1 52   5 58   8   9   Fr   4 43 7   9   11   36   2 55   7   3   9   10   Sa   4 42 7   10   M   3 55   8 14   10   11   SU.   4 41 7   11   0   14   4 50   9 26   11   12   M   4 39 7   13   0   44   5 40   10   3   A   13   Tu.   4 38 7   14   1   8   6 26   11   44   14   W   4 37 7   15   1   29   7   9   A 49   2   15   Th.   4 36 7   17   1   49   7 50   1 51   3   16   Fr   4 35 7   18   2   8   8 30   2 52   4   17   Sa   4 34 7   19   2 28   9   11   3 54   5   18   SU.   4 33 7   20   2 49   9 53   4 57   6   18   SU.   4 33 7   20   2 49   9 53   4 57   6   19   M   4 32 7   21   3   15   10   37   5 59   6   20   Tu.   4 31 7   22   3   46   11   24   7   2   7   21   W.   4 30 7   23   4   24   A   13   8   2   8   22   Th.   4 29 7   24   5   11   1   5   8 59   8   23   Fr   4 28 7   25   6   5   1   57   9   49   9   24   Sa   4 27 7   26   7   4   2   48   10   32   9   24   Sa   4 27 7   27   8   15   3   39   11   3   30   26   M   4 26 7   28   9   19   4   28   11   37   10   27   Tu.   4 25 7   29   10   32   5   15   11   58   11   28   W.   4 24 7   30   11   38   6   2   M   29   Th.   4 24 7   31   A   51   6 50   0   2   0   30   Fr.   4 23 7   31   2   5   7   39   0   49   11   30   30   30   40   30   30   40   30   40   30   3	1 22 32 31 21 9 55 44 32 21 10 3 2 5 5 14 21 19 9 48 27 1 19 48 27 1 19 44 21 19 48 21 19 48 21 19 48 21 21 21 21 21 21 21 21 21 21 21 21 21

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.

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and rom 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

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#### SCIENCE.

WATERPROOFING OF COTTON AND LINEN FABRIC,-The recipe for "waterproofing" stout calico, used by the Chinese, and which is perfectly efficient alike in the hottest and coldest climates, is believed to be composed of boiled oil, one quart, soft soap, one ounce, and beeswax, one ounce; the whole boiled until reduced to three quarters of its previous quantity; but experiments are required to satisfactorily test the above proportions; paint soon cracks, and ceases to be impervious to water. The addition to the boiled oil preparation of some ingredient which would prevent all risk of spontaneous combustion, when bales of oiled goods are sent abroad, would be advantageous; but no objection on this account applies to the supply of waterproof sheets (prepared with boiled oil, etc.,) for use in ships, only those that are in the hammocks would be coated, and with them there would be no more risk than is incurred with the seamen's waterproof jackets; the small spare supply would be harmless calice sheets, not to be waterproofed until required.

The recipe used by Mr. Berthon to render the canvas of his collapsing boats airproof and waterproof, and believed to be similar to that used in the British dockyards for hammock cloths, is as follows. To 6 oz. of hard yellow soap add 12 pint of water, and when boiling, add 5lb. of ground spruce ocher 1 lb. patent driers, and 5 lb. of boiled linseed oil.

For waterproofing sheets, the ocher LATER. A Yarmouth, 2 hours 20 minutes | should be omitted, as it adds to the weight, lessens the flexibility, and is unnecessary .- Scientific American.

> Some one's nose bleeds and cannot be stopped. Take a plug of lint, moisten, dip in equal parts of powdered alum and gum arabic, and insert in the nose. Bathe the forehead in cold water.

A SNAIL THAT WOULD NOT STARVE. -An Egyptian desert snail was received at the British Museum on March 24, 1846. The animal was not known to be alive, as it had withdrawn into its shell, and the specimen was accordingly labelled and dated, and left to its fate. Instead of starving, this centented gasteropod simply went to sleep in a quiet way, and never woke up again for four years. The tablet was then placed in tepid water and the shell loosened, when the dormant snail suddenly resuscitated himself, began walking about the basin, and finally sat for his portrait, which may be seen of life-size in Woodward's "Manual of the Mollusca." Now, during those four years the snail had never eaten a mouthful of any food, yet he was quite as well and flourishing at

### HEALTH HINTS.

ADVICE IN BRIEF TO DYSPEPTICS. -Let your food be plain, simple, wholesome-chiefly fruits and vegetables. Let your bread be made of unbolted wheatmeal.

Take your meals regularly; if three let the supper be very sparing.

Eat slowly, lightly, masticate thoroughly. Beware of hot food and drinks. Avoid luncheons by all means.

Exercise freely in the open air; never sit moping, but turn your mind entirely from your disease and troubles.

Keep regular hours ; rise early ; exercise half an hour gently before breakfast. Bathe frequently; keep the skin

States, Canada, and Europe, at reduced Keep your feet dry and warm let the soles of your shoes be thick, that no dampness may penetrate them.

Keep your sitting and sleeping rooms well ventilated. Impure air is enough to kill a well person-it kills thousands. Wear loose-fitting garments, especi-

ally about the region of the lungs. Banish the pipe, quid, and sauff-box as the plague, for ever and for ever. Of all the dyspepsia breeders and promoters, nothing exceeds the use of the " weed."

FOR COLDS ON THE LUNGS AND cough.-Take a large handful of hops, add a pint of water, steep until the strength is all out, strain and add a teacupful of white sugar, boil to a thick syrup, or if preferred, to candy. Take as often as convenient, the more times the better. Make a bag and fill with hops, wet it with warm arnica and lay across the lungs; when cold wet it

again, and so continue until relief is obtained.

For sore throat, take a slice of raw fat pork, well-peppered, and bind on light seed; drain and dry off with dry light seed; the throat when going to bed."

#### AGRICULTURE.

THE ACTION OF LIME.—The effects of lime when applied to an arable soil vary in different cases and under differing circumstances, so that while one farmer advocates lime as one of the best of fertilizers, another condemns it as worthless. Where such variety of effects and opinions exist, who shall decide? Chemistry indicates that lime, when applied to a soil, acts in a chemical capacity instead of as a direct tertilizer; that all elements have their affinities: that some elements have stronger attraction for one element, and others for another; and that when these affinities meet they unite, leaving the other elements to form other combinations, perhaps leaving some free to appropriated to plant growth; or the mutual attraction of the elements are so slight that they are readily dissolved, their elements being absorbed into plant growth. In order that lime may act as a benefit to a crop in the soil, that soil must have in it in some form the elements necessary to the growth of plants. Then the lime will be enabled, in its chemical capacity, to liberate the imprisoned pabulum, so that the plants may assimiliate it. In experience it is found that giving small doses of lime at a time is all that is needful to attain the object where such attainment is practicable at all. Large doses of lime in certain cases produce incontestible effect without question. That the action of lime on the mould or soil, differs, some elements being liberated, while other substances are destroyed, or modified in their action, is equally indisputable. A further benefit is often received in the physical action on the soil, even to changing the constitution of the land. It is only by studying attentively the effects of the action of lime under the special circumstances under which they are produced that we can account for the complexity of its action. - Country Gentlemen.

THE FALLACY OF LARGE FARMS -Aud still the cry is for more land. Why don't they cry for more brains, or more food for the brains they have, and let the coveted acres go until they know what to do with them? Many say they had rather let their lands lie still than to hire help, and so it lies as still as they can make it. However, it does not lie quite still. It is an elephant on their hands, cating with its huge teeth of interest and taxes a big hole into the tilled acres for its unworthy support. This is the cause of it. It is no Government bond that accumulates by lying still, or that can be hid away, and is the better for keeping quiet, but there it is, exposed to the assessor's eye, exhausting the strength of the owner and the profit from the rest of the farm for its unprofitable existence.

This land possession mania has workmore mischief with progressive farming than any other one obstable ever found in its path.

SPRING WHEAT .- The nature of the wheat plant is to make roots and tiller in cool weather before sending up seed stems; for this reason it becomus essential that the seed be got into the ground at the very earliest opportunity that it can be suitably prepared to receive it It is for the reason of less tillering that it requires more seed per acre for spring than fall sowing. When sown quite early less seed is required than if sown later, for the same reason. Wheat has the faculty of adapting itself to a variety of soils, and will broduce fairly, providing the soil contians sufficient suitable plant food, and is thorougly drained, naturally or artificially, For some soils, heavy, well-tilled clays for example, spring wheat is better adapted than winter, for the reason that such soils often in freezing and thawing Port Medway—James T. Foster.
throw the wheat roots out, or by other
Pubnico—Isaac Larkin. reason "winter-kill" the grain. For spring sowing better results are had from ploughing the ground in fall, and in spring spreading broadcast a dressing of fine manure or other fertilizer, and harrowing in as soon as it can be well done after the frost is out of the ground. Where ploughing is necessary in spring, give a dressing of coarse manure and pleugh down quite shallow unless the soil is in high tilth, when a little fertilizer spread with the seed is sufficient. The quantity of seed to the acre will depend upon tilth, season, and minor circumstances-from one and threefourths to two and one-half bushelsbut be sure the seed is of best and clean, Prepare the seed by pouring it into a

slacked lime .- Country Gentleman.

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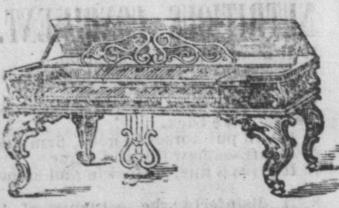
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Jan. 8, 1879.



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## 1879 -- Winter Arrangement -- 1879.

TRAINS LEAVE HALIFAX 8.00 a. m.-(Express) Wednesdays and

Saturdays. 8.00 a. m.—(Accommodation) Mondays, Tuesdays, Thursdays and Fri-

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Feb. 26. 1879.

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	Wilmot, Annapolis,	Leave	12 27	3 35	
	St. John,	do	8 00		
Miles.	GOING	EAST.	Pass. and Freight Mon. Wed. and Fri.	Pass. & Frgt. Mons. Tues., Thurs., & Fri.	Express Wed. & Sat.
	St. John,	Leave	A. M.	A.M.	A. M 8 0 P. M
31	Annapolis, Wilmot,	Leave	1500	7 15	2 2
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