The Messenger Almanac.

SANUARY.

	JANUASE I.	
Doy SUN.	Jan. 8th, 7h. 3 " 15th, 6h. 40 " 22nd, 7h. 3 " 30th, 7b. 31 MOON. Rises, South, Sets.	High Tide
Fw. Rise.Sets. 1 W. 7 42 4 26 2 Th. 7 42 4 27 3 Fr. 7 42 4 28 4 Sa. 7 42 4 29 5 SU. 7 42 4 30 6 M. 7 42 4 31 7 Tu. 7 41 4 33 9 Th. 7 41 4 34 10 Fr. 7 41 4 35 11 Sa. 7 40 4 36 12 SU. 7 40 4 38 13 M. 7 39 4 40 15 W. 7 38 4 41 16 Th. 7 38 4 42 17 Fr. 7 37 4 44 18 Sa. 7 36 4 46 20 M. 7 35 4 48 21 Tu. 7 34 4 49 22 W. 7 33 4 50 23 Th. 7 33 4 52 24 Fr. 7 32 4 53 25 Sa. 7 31 4 55 26 SU. 7 30 4 56 27 M. 7 29 4 58 28 Tu. 7 28 4 59 29 W. 7 27 5 0 30 Th. 7 26 5 I	0 36 8 14 2 47 1 14 9 5 6 52 2 1 9 58 4 56 2 58 10 54 5 55 4 3 11 50 6 50 5 15 M 7 37 6 29 0 45 8 15 7 44 1 37 8 45 8 59 2 28 9 12 10 10 3 17 9 35 11 26 4 3 9 56 M 4 53 10 20 0 42 5 44 10 46 1 59 6 37 11 15 3 16 7 34 11 52 4 26 8 32 A 38 5 31 9 33 1 35 6 23 10 31 2 39 7 8 11 28 3 48	0 51 1 36 2 29 3 40 4 50 5 55 6 49 7 35 8 16 8 54 9 33 10 15 10 55 11 35 A. 21 1 9 2 7
-	CONT. LEGISLO, CO., OF GRAND AND MATERIAL MATERI	SERVICE SHOW AND ADDRESS.

THE TIDES.—The column of the Moon' 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 Halffax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 minutes LATER, and at St. John's, Newfound 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 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 of rising next morning.

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And all diseases that lead to it; such as COUGHS, NEGLECTED COLDS, BRONCHITIS, PAIN IN THE CHEST, AND ALL DISEASES OF THE LUNGS,

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SCIENCE.

THE TALLEST TREE IN THE WORLD. -The tallest accurately measured Sethat any trees of this genuius ever exgrowing was estimated to have been pocket at least six dollars by his trade, more than 500 feet. This tree, how- The fact is, corn is an excellent fuel, the Daudenong district, Victoria, there overlooks the fact that to warm one's has recently been discovered a specimen | self by a fire and to do the same by the of the "Almond Leaf Gum" (Encalyp- consumption of food, are in the end from the ground to the first branch, and | warmth can be produced by consuming, 450 feet to the topmost wing. This in a stove, a dollar's worth of corn than tree would overtop the tallest living a dollar's worth of coal, it is a legitimate Sequoia by 125 feet. Its girt is 80 use of the corn. feet, which is less than that of many Sequoias, but as far as height is concerned it must be considered the tallest living tree in the world.

THE MICROPHONE AS A THIEF CATCHER .- The microphone as a thief catcher has proved very useful to an English resident in India, who found his store of oil rapidly and mysteriously diminishing. He fixed a microphone to the oil cans, carrying the wire up to his bedroom, and, after the house had been closed for the night, set up to await the result. Very shortly he heard the clinking of bottles, followed by the gurgling sound of liquid being poured out, and running downstairs he caught his bearer in the act of filling small bottles with oil for easy conveyance from the premises.

A New Torpedo, combining the effectiveness of the Lay and the Whitehead, together with some merits of its own, has been invented by a member of the United States Torpedo Company. The movements of the new weapon are controlable from the shore by means of electricity conveyed through a wire which is unreeled as the torpedo dashes through the water. The motive power is compressed carbonic acid gas, carried in a liquified form, which drives a screw propeller. The bursting charge is one hundred pounds of dynamite. At a trial near New York ten days ago this torpedo got away and imbedded itself in the Jersey shore, but at another trial on Tuesday, the imperfections having been removed, it was under perfect control. The torpedo having been dropped into the water, on a touch of a key on the electric battery the gas begins to escape, the screw to revolve, and reached half a mile from shore Hardy, torpedo immediately yawed to the left. Another touch and she swerved in semicircle to the right, increased her speed or diminished it, and ran backwards and forwards at the will of the inventor. As the gas began to be spent the inventor headed the torpedo for home, and brought her back quietly to the starting-place. This marks an immense stride in the history of naval defence; and as the torpedo can be run under water even the electric light will not be of much good against it. As it can be propelled through the water at the rate of fourteen miles an hour, and at this rate can keep the sea for thirty minutes, there are few vessels fast and agile enough to escape from it when used near shore.

would be very useful for farmers. A moisture with a dry paper, and the line running along country roads and mirror will be as clean as glass can be. terminating at the nearest village would save many trips to town, as it could be employed to call a doctor, to A large cup butter, two cups of order goods, to engage hands for extra sugar, one pint of light sponge, four work, or to send messages to be tele- eggs, one pint of milk, one teaspoonful graphed to a distance. If farmers fur- of soda, some nutmeg. Let the dough nish the posts a line could be put up rise twice. for \$10 per mile. - Globe.

Machines in a watch factory will cut screws with 500 threads to the inch; the finest used in the watch has 250. These threads are invisible to thenaked eye, and it takes 144,000 of the screws to weigh a pound. A pound of them is worth six pounds of pure gold. Lay one upon a piece of white paper and it looks like a tiny steel filing.

THE HOUSEHOLD.

CORN AS FUEL .- The American Agriculturalist says: "Some journals, quoia standing in the Calaveras Grove, whose conductors know very little about near Stockton, California, measures 325 corngrowing, and other things in the feet, and their is no positive evidence West, make their annual outcry in regard to the extensive consumption of ceeded that height. Of late years, ex- corn for fuel, which they consider a plorations in Gippsland, Victoria, have great and inexcusable waste. Suppose brought to light some marvelous speci- the Nebraska or Minnesota farmers mens of Eucalyptus, and the State Sur- were to sell two tons of corn for six veyor of Forests measured a fallen tree | dollars, and buy half a ton of coal for on the banks of the Watts River, and the money, and the corn were at once found it to be 435 feet from the roots to taken to a distillery and turned into to the top of the trunk. The crest of whiskey. Would this be any better? this tree was broken off, but the trunk | The farmer would probably have to at the fracture was 9 feet in circumfer- make two journeys of ten or twenty ence, and the height of the tree when miles each with his loads, and be out of ever, was dead, though there is no and although it may seem at first sight doubt that it was far loftier than the to be wrong to burn up an article of food tallest Sequoia. Near Fernshaw, in yet it is but a mere sentiment which tus amygdalesia) measuring 380 feet precisely similar in effect. If more

> CAMPHOR A REMEDY FOR MICE .-Any desirous of keeping seeds from the depredations of mice can do so by mixing pieces of camphor gum in with the seeds. Camphor placed in drawers or trunks will prevent mice from doing them injury. The little animal objects to the odor, and keeps a good distance Hymn and Tune Book from it. He will need food elsewhere.

BARLEY FLOUR .- In this country the quantity of barley flour manufactured has been quite limited, but in Northern Europe it is extensively used and is considered equal to the flour made from wheat. While barley bread is inferior to wheat so far as nutriment is concerned, it is superior to wheat bread in other respects. There are in wheat 836 parts of starch, 315 of glutten, albumen, and caseine, and 60 of sugar and gum; while in barley there are 1,200 parts of starch, 120 of gluten, Agents for the Christian Messenger. albumen and caseine, and 160 of sugar and gum. Wheat, therefore, affords about three times the proportionate nutrition of barley; but it must be borne in mind that the physiological value of an article of food does not wholly depend on its percentage of nutriment. Starch, sugar, and gums are very fattening, and those properties are much greater in barley bread than in wheat, and consequently is more beneficial to a large class of persons. There is being a strong effort made to encourage a more extensive manufacture and use of barley flour, for the reason that it is as wholesome as wheat flour, tastes as well, and that barley is a much more certain crop than wheat, as colouring it does not prevent it from making good flour .- American Miller.

PEAS PUDDING .- Tie a pint of split peas in a cloth, leaving room to swell, but not more; put them in a stew-pan of cold water, where let them boil half an hour until tender, but not at all watery; then turn them out of the cloth, rub them through a hair sieve into a basin, after which add a quarter of a pound of butter, season with a little white pepper and salt, and mix all well together with the yolks of three and one whole egg; lightly flour a pudding-cloth, which lay in a small roughbottomed basin; pour in the mixture, tie up the cloth, and put the pudding to boil for an hour in a sauce-pan of boiling water. When done turn it from Newport-Wm. H. Knowles. the cloth upon a dish, and serve with Nictaux-W. A. Morse.
New Albany-Daniel Whitman. any joint of boiled pork.

Do not wash mirrors with a cloth, but after removing all dust with an old silk handkerchief or feather duster, dampen an old newspaper, and rub the surface of the mirror till perfectly clean and It is suggested that the telephone free from spots; then wipe off all the

The best doughnuts are thus made:

RICE PANCAKES .- Two large cups rice well washed; boil in one quart of water; when the water boils off, add one quart of milk, one cup wheat flour,

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Winter Arrangement, Commencing 7th Nev., 1878.

Miles.	GOING V	VEST.	Express daily.	Pass, and Freight	Mon., Wed., & Fri.	Passengers and Freight, Tues., Thu., and Saturday.
18 25 53 84	Wolfville Kentville, Wilmot. Annapolis,	Leave Leave Leave Arrive	A.M. 9 40 10 36 10 56 11 10 12 27 2 00			6 51 7 15
_	St. John,	do	7 30			

	Freight and Eri.	Freight, & Sat.	daily.
GOING EAST.	and Wed.	and	press
•	Fass. Mon.	Pass.,	Ex
St. John, Leave	A. M.	A.M.	A. M. 8 00

7 15 9 15 11 15 7 00 11 40 7 27 12 10 8 30 1 50 Annapolis, 31 Wilmot, 59 Kentville, Arrive 5 05 Leave 66 Wolfville, 5 35 84 Windsor. Express Trains every Monday, Wednesday

and Saturday, connect at Annapolis with teamer for St. John. Steamer " Scud " leaves St. John every Monday, Wednesday and Saturday, at 8 a m. for Annapolis.



Summer Arrangement, 1878

PRAINS leave Halifax :-At 8.50 a. m. (Express) for St. John. At 6.10 p. m., (Express) for Riviere du

At 8.50 a. m., and 4.40 p. m., for Pictou. WILL ARRIVE :-At 10.40 a. m., (Express) from Riviere

du Loup. At 8 p. m., (Express) from St. John. At 9.15 a. m., (Accomodation) from At 3 p. m., (Express) from Pictou.

1878--Summer Arrangement--1878

TRAINS LEAVE HALIFAX 7.30 a. m. - (Express daily) for Windsor and Annapolis. 8.00 a. m.-(Passengers and Freight) Mon-

days, Wednesdays and Fridays for Windsor and Annapolis. 3.10 p. m.-Accommodation for Windsor daily, and for Kentville, Tuesdays, Thursdays & Saturdays.

WILL ARRIVE : 10.10 a. m. - Accommodation from Windsor daily: and from Kentville Mondays, Wednesdays and Fridays.

5.10 p. m.-(Passengers and Freight), l'uesdays, Thursdays & Saturdays from Annapolis and Windsor.

8.30 p. m.-(Express daily) from Annapolis and Windsor. Through tickets at the following fares

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