The Messenger Almanac.

NOVEMBER, 1881.

	Elitibrati, 10011	
Full Moon, Nov Last Quarter, New Moon, irst Quarter,	" 13th, 6h. 4	9m. A. 7m. A. 7m. M.
Day SUN. Rise.Sets.	Rises. South. Sets. at	igh Tide Halifax
1 Tu. 6 42 4 46 2 W. 6 43 4 44 3 Th. 6 45 4 43 4 Fr. 6 46 4 41 5 Sa. 6 47 4 40 6 Su. 6 49 4 39 7 M. 6 50 4 38 7 M. 6 50 4 38 7 M. 6 55 4 34 11 Fr. 6 56 4 32 12 Sa. 6 58 4 31 13 Su. 6 59 4 30 14 M. 7 0 4 29 15 Tu. 7 2 4 28 16 W. 7 3 4 27 17 Th. 7 4 4 26 18 Fr. 7 5 4 25 19 Sa. 7 7 4 24 22 Tu. 7 11 4 25 22 Tu. 7 11 4 25 22 Tu. 7 12 4 2 22 Tu. 7 13 4 2 22 Tu. 7 15 4 2 22 Tu. 7 15 4 2 22 Tu. 7 16 4 11 28 M. 7 18 4 1 29 Tu. 7 19 4 1 20 Tu. 7 19 4 1 20 20 20 20 20 20 20	2 19 8 18 1 4 2 48 9 8 2 17 3 18 9 59 3 28 3 52 10 52 4 40 4 29 11 45 5 52 5 10 M. 7 1 5 5 58 0 38 8 6 6 50 1 32 9 6 6 7 48 2 24 9 58 8 47 3 15 10 42 9 46 4 4 11 21 10 46 4 49 11 52 11 46 5 33 A. 20 M 6 16 0 46 6 58 1 10 1 46 7 40 1 34 6 2 49 8 24 1 59 6 3 52 9 9 2 26 4 4 58 9 56 2 54 3 6 6 10 49 3 32 3 7 13 11 44 4 15 8 16 A. 42 5 8 1 9 14 1 42 6 10	2 12 3 36 4 46 5 47 6 36 7 22 8 3 8 43 9 23 10 1 10 38 11 17 A. 2 0 53 1 53 3 5 4 14 5 12 6 2 6 42 7 23 8 42 9 25 10 12 10 56 11 49 M 0 48 1 52

THE TIDES.—The column of the Moon's Southing gives the time of high water at Parreboro, 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 min-utes 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 A Yarmouth, 2 hours 20 minutes FOR THE LENGTH OF THE DAY .- Add 12

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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1879-Provincial Exhibition-1879

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Organs Tuned and repaired. Nov. 5,

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AGRICULTURE.

DUCK CULTURE. - It is often thought a bother to raise ducks, but where they been searching, at the instance of the can conveniently be kept, any of the | National Board of Health, into the improved breeds will pay well by origin of diptheria, and he makes some marketing them early, inasmuch as this statements which, if confirmed by furclass of poultry is in very good demand ther research, will be the means of in early cold weather and until after bringing that disease under control. New Year's.

is all that will be required to keep a inflamed from "cold" or other cause. stock of beds and pillows.

period like chicks and poults, are industrious foragers, and thrive rapidly. and strong digestive organs enable them to assimilate any kind of coarse or refuse food. They are at home in the stubble field, gleaning what the reaper left behind, will turn into a pasture and be contented on grass, and they are happy in a pond or brook or marsh, splenic fever. diving in the mud, searching for animal, fish, or insect food, larvæ, and vegetation: They do not require an expensive domicile for their use. Being generous feeders, they grow right along when hours to the time of the sun's setting, and once they get a start, and their predisposition to mature early is one of the um and potassium. It is never, in large best recommendations in favor of the general cultivation of ducks for the market or table.

> CLOVER AS MANURE .- An agricultural writer of note-Professor J. W. Beal-says :- " Clover seed is the best manure that a farmer can use. All plants draw much of their food from the atmosphere; and of those used in agriculture, none are exceeded by clover in the large proportion of nutriment leguminous crops are much like red clover. Here we include all the clovers, and lucerne or alfalfs.

To keep up the fertility of our soil potash, nitrogen and other substances which are found in tarm crops. Of the three very important and valuable substances just named, nitrogen is the most precious and costly to obtain. In various places there are abundant supplies of potash and phosphoric acid. As may be said, these are in sight. Agricultural chemists are now studying on the problem of the future supply of nitrogen for agricultural purposes. So far clover seems to be the most important factor in this problem.

ploughed under, to restore or keep up projectiles may be rendered much more the fertility of the soil, but I am safe in destructive without increasing the size saying that it has been proven a better of guns or the weight of powder burned. practice to cut off the clover; feed it A 9-inch gun, with which no commander and use the manure, then to plough would think of attenpting to destroy 12under the whole crop. In other words, inch armour even at the shortest range, for various reasons, all of which may sent a shell clear through a plate of not seem plain, it has been shown that thickness and through the backing that ploughing under a clover stubble is of the target. The projectile was very followed by about as good results (often better) as though the whole crop was point. It was made of a new kind of turned under. Again, Væleker shows that land on which clover has been grown which is kept secret. The officers for seed in the preceding year yields a better crop of wheat than it does when the day would double the power of the clover is mown twice for hay, or even once only, and afterwards fed off by sheep.

WEEDS on gravel walks may be destroyed and prevented from growing again by a copious dressing of the cheapest salt. This is a better method than hand-pulling, which disturbs the gravel and renders constant raking and rolling necessary. One application early in the season, and others as may be needed, while the weeds are small, will keep the walks clean and bright.

Scientific American for getting rid of our," was the reply. " And what did stumps; "In the autumn or early he say?" "Why, sir, he told me to go winter bore a hole one or two inches in to the devil." "And what did you do diameter, according to the girt of the then, sir?" "Then I came straight to stump, and about eighteen inches in you." depth. Put in one or two onnces of saltpeter, fill the hole with water, and plug it close. In the ensuing spring take out the plug and ignite it. The stump will smoulder away, without the tears of others than in shedding blazing, to the very extremity of the your own. roots, leaving nothing but the ashes.

row for wheels.

SCIENCE.

PROF. WOOD, of Philadelphia, has Diptheria is propagated, he says, by a It is both economical and sensible to microscopic fungus which exists at all raise ducks. A great deal of the coarse | times in the human mouth or throat, At 5.00 p. m.-Accommodation for Truro. vegetable food used in a family, with but lacks the power of reproduction som small potatoes and a little grain, until the mucous membranes become small flock in thrift the year through. The diptheria plant also attacks the Ducklings mature early in their lives; white corpuscles of the blood, disinteone would not feel the time passing grating them and making each fragment before they are ready for market. For a source of contagion for other corpuscles. this reason they are profitable. At five The false membrane supposed to or six months old they will, with ordinary accompany diptheria is not an infallable care, dress ten or twelve pounds per sign of the disease, as it may be produced pair, and give besides a nice lot of by ammonia, cantharides, or any feathers, which can be sold at a fair blistering substance. In any case the price, or be used to increase the family composition of the membrane is the same, namely, it is built up on the Ducks are easily kept from the shell. inflamed surface by the parasitical plant. after they have passed the critical The same fungus, or one exactly similar, is found apon a coated tongue, but plants from the tongue of a healthy person Their keen appetite, capacious craws, failed to multiply when placed in sterilized matter, while plants from diptheria patients multiplied rapidly. Professor Wood is of opinion that his discoveries point to a possibility of the prevention of diptheria by inoculation, in the same manner as Pasteur has conquered

RECENT large discoveries of Mica in Dakota, California, and Colorado furnish the Scientific American with a text for a discourse upon this singular mineral Mica is, scientifically, silicate of alumi blocks, quite colourless. The best i that having a faint wine or brandy tint and it sells for from 20 cents to \$8 pound when cut, split, and trimmed As well as its familiar use in stoves and lanterns, mica is now put to many purposes. In places where glass would be shattered by concussion, as on vessel of war, mica is used for lights. Spec tacles, when desired only to shelter the eyes, are made much more lightly from mica than glass. The article is als used for making curved mirrors, and for the roofing of greenhouses where the curve of the roof is so great that straight glass will not answer. As the mica is not damaged by hail, it has a great point of superiority over glass for greenwe must restore to it phosphoric acid. house roofing. It is simply tacked on to a light frame. Another use has been found for powered mica in making it the absorbent of nitro-glycerine in the manufacture of blasting powers. Yet another, as a non-conducting medium for the packing of steam pipes, and again, mixed with water glass as a fireproof varnish or paint. From this it seems that the great stores of darkcoloured mica in Canada will some day Pictou at 2 P. M., for Halifax. be a source of wealth.

RECENT EXPERIMENTS at Shoebury-Whole crops of clover are often ness indicate that armour-piercing much elongated and brought to a sharp wrough iron, the precise nature of present stated that the discoveries of artillery.

VARIETIES.

spaniel and murmuring: "I do love a nice dog!" " Ah?" sighed a dandy standing near, "I would I were a dog." "Never mind," retorted the young lady sharply, "you'll grow."

Sweet simplicity sometimes contains the sharpest sarcasm. A lawyer said to his client, an honest farmer, " Did you go to your opponent and try to This recommendation comes from the settle with him?" "I did, your Hon-

> Spell pea soup with three letters. S-O-U-pea soup.

> You are better employed in drying

The less we speak about our inten-

INTERCOLONIAL RAILWAY.

SUMMER ARRANGEMENT.

PRAINS leave Halifax daily (Sunday excepted) as follows:-

(Halifax time.) At 8.25 a. m.—Express for St. John, Pictou, Quebec. At 12.15 p.m. - Accommodation for Pictou. At 6.15 p. m.-Express for St. John and Quebec.

WILL ARRIVE :-

At 9.15. a. m. - Accommodation from At 10 15 a. m., - Express from Quebec and from St. John. At 2.50 p. m.-Accommodation from Pic-At 7.45 p. m.—Express from St. John.

Nov. 24, 1880.

Windsor and Annapolis Railway.

Summer Arrangement—Commenc-

ing Monday, April 4th, 1881. The following is according to Railway Time. Halifax times is 15 minutes later.

Miles.	GOING WEST	Express Daily	Passengers & Mon. Wed &	Pass. & Frgt.
64 71 83	HalifaxLeave Windsor. Wolfville. Kentville, Berwick. Middleton. Annapolis. Arrive	9 40 10 30 11 05 11 36 P. M 12 23 1 40	8 52 P.M. 12 30 1 36 2 30 3 18 4 55	6 15 7 17 7 49
	St. John, do	7 30	1. s · l	
Miles.	GOING BAST.	Pass. and Freigh	Pass. and Freigh Tuesdays Thursday, and Saturday only	Express Daily.
47 59	St. John, Leave Annapolis, Leave Middleton. Berwick. Kentville, Wolfville.	6 30 6 57	6 30 8 20 9 46 11 15	5 00 5 24
84	Windsor,	8 15		6 1

130 Halifax Steamer "Empress" leaves St. John at 8 a. m. every Monday, Wednesday and Friday for Digby and Annapolis, and leaves Annapolis, on arrival of Express Train from Halifax. 1.40 p m, every Tuesday, Thursday and Saturday, for Digby and St. John.

Arrive 11 00 4 30 8 10

HALIFAX and CAPE BRETON BAILWAY.

EXPRESS leaves New Glasgow at 1.00 P. M., after arrival of I. C. R. Train leaving Halifax at 8.10 A. M., arriving at the Strait of Canso at 5.00 P. M.

Express leaves the Strait of Canso at 9.50 A. M., arriving at New Glasgow at



Train leaves Yarmouth daily at 7.45 m., and arrives at Digby at 11.45 a. m. Leaves Digby on Monday, Wednesday, and Friday at 1.00 p. m. Arrives at Yarmouth at 5.00 p. m. On Tuesday, Thursday and Saturday at 3:30 p.m. Arrives at

For it is sadly too true that thousands of children are STARVED TO DEATH

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every year by improper or insufficient food. Remember,

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A young lady was caressing a pretty claimed for it. It is simply a HIGHLY aniel and murmuring: "I do love a NUTRITIOUS and easily assimilated FOOD, grateful to the most delicate and irritable stomach, and especially adapted for the INFANT and GROWING CHILD. Invalids, Nursing Mothers,

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IT is a most agreeable dressing, which is at once harmless and effectual, for preserving the hair. It restores, with the gloss and freshness of youth, faded or gray, light, and red hair, to a rich brown, or deep black, as may be desired. By its use thin hair is thickened, and baldness often though not always cured. It checks falling of the hair immediately, and causes a new growth in all cases where the glands are not decayed; while to brashy, weak, or otherwise diseased hair, it imparts vitality and strength, and renders it pliable.

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