HALIFAX, N. S., APRIL 1, 1874.

ALMANAC FOR APRIL Full Moon, April 1st, 7h. 5m. afternoon. Last Quarter, "9th, 6h. oh armorning. " 9th, 6h. 6m afternoon.

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. Jonn's, Newfoundland. 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 min-

FOR THE BENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of risin ..

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 n. x' oorning.

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Jan. 14. 3m. January 6th, 1874. Skimmings' Wharf, Upper Water St.

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GEORGE S. YATES. Halifax, N. S., April 24, 1871.

Agricultaral.

TEN RULES FOR FARMERS.

1. Take good papers and read them. 2. Keep an account of farm opera-

3. Do not leave implements scattered over the farm, exposed to snow, rain, and heat.

4. Repair tools and buildings at a proper time and do not suffer a subsequent threefold expenditure of time and

5. Use money judiciously, and do not attend auction sales to purchase all kinds of trumpery because it is cheap. 6. See that fences are well repaired

and cattle not grazing in the meadows, grain fields, or orehards. 7. Do not refuse to make correct ex

periments in a small way of many new things. 8. Plant fruit trees well, care for

them, and of course get crops. Practice economy, by giving stock shelter during the winter; also good food taking out all that is unsound, half rotten or mouldy.

10. Do not keep a tribe of cats and sparling dogs around the premi-es, who eat more in one month than they are worth in a life-time.

BUTTER IN FRANCE .- If our dairy. men-need a spur, an eye-opener, a les-on which speaks volumes in three words. here is one at the head of this article. Butter is actually brought from France | keepsie Engle gives an interesting ac-75 cents the year round at his dairy his yacht. The Hud-on at this point to bring butter across the ocean from its breadth is one mile. Having made France, if it is only good and shapely every preparation for the feat to be enough to suit the fastidious pur- accomplished, the reef points were chasers who will have something nice shaken out of the sails, and every whatever it may cost. All this butter stitch of canvas spread to the gale. is made from choice cows, choicely fed With two men on the windward runner on clean sweet food; the milking is to keep the boat down to the ice, the done in the cleanest manner. The helm was turned, the sails filled, and milk is handled as carefully as though in a moment, with every inch of canvas it was nectar; the cream is churned drawing, she was under full headway.

CULTIVATION OF FISH IN DITCHES AND PONDS. - Experience proves that young fish are much more easily dultivated than has been supposed. Much attention is now being paid in Germany to their cultivation in ponds and ditches, and it has been found contrary to the generally received opinion in reference to such localities, that they are more favourable for the purpose than other large bodies of water apparently fresh and pure in their character. This is doubtless owing to the great abundance of animal life, as well as to the more decided concentration of vegetable substance in the form of living plants of different kinds, including the algae. This produces a constant evolution of oxygen, needed for the respiration of the fish, and allows a large mass of life to be crowded together in a given space. The reproduction of the species is also unusually rapid and the young grow very quickly.

COAL ASHES AS A PHOSPHATIC FER-TILIZER .- On the basis of numerous analyses of many varieties of coal from different localities, it is again asserted that coal ashes exert a beneficial effect on land, not only by reason of their mechanical action on some soils but also on account of their wineral ingredients; a ton of ashes containing about 33 pounds of phosphoric acid besides sulphate of potash and alkali.

The oyster beds of Virginia cover an area equal to six hundred and forty thousand acres, and those great mines of submarine wealth are estimated to yield an annual money value of ten millions of dollars.

A girl hearing her mistress ask her husband to bring "Dombey and Son" with him when he came to dinner, set two extra plates for the expected guests.

A CONTRACTOR OF THE PARTY OF TH

Scientifie.

SCIENTIFIC AMUSEMENTS .- The following will afford, perhaps, an occasional hour's amusement around the evening lamp, and stimulate scientific re-earch among the young folks. Wet a thick piece of wrapping paper or half a sheet of heavy foolscap paper; dry it thoroughly over the register, or cu top of the stove; while warm, lay it down upon a varnished table or dry woolen cloth, and rub it briskly with a piece of india rubber. It will become electrified and if tossed against the wall or the looking-glass, will adhere for a long time. Tear some tissue paper into bits one eighth of an inch square and a piece of paper electrified in the way described will attract them in a very amusing manner. Set a japanned tea-tray, (the varnish must be in good order, not worn off much or cracked), upon three dry goblets; lay into the tray the electrified paper, touching the tray you will get a smart little spark; lift the tray again you will get another spark, but of the opposite kind of electricity, replace the paper, and you get another, and so on indefinitely. The tray and paper form, in fact, a very neat and effective electrophorus with which can be performed many of the experiments described in the textbooks.

ONE HUNDRED AND TWELVE MILES AN HOUR ON THE ICE .- The Poughand sold by the New York dealers. | count of an example of such movement | panion found under a ledge the distinct And this is thus because there is an which recently took place on the Hud- remains of a large nest of grass with actual scarcity in the market of good son river at Poughkeepsie. "The the fragments of eggs and the bones of butter put up in attractive shape for wind blew very fresh from the south, young birds in it; from which it apsmall consumers. When we know and the owner of the new ice boat pears that the extinct bird not only took that one dairyman gets \$1.15 a pound Cyclone determined to take advantage refuge in but bred in such places of for his product another \$1 and another of the favorable opportunity for timing concealment as this now famous cave. door, it is easily seen that it will pay is very wide, and at the course selected Agents for the Christian Messenger. with the utmost care by clock and ther- Like an arrow from a bow she darted mometer; the butter is worked with away on the course, clouds of pulverskill, and is made up in shapely cakes ized ice followed in the track of her which do not require to be cut when runners as they hummed over the surbrought to the table. Compare, then, face of the river, and in what seemed this cake-hard, golden yellow, sweet, but an instant the river had been crofragrant, and tempting to all the senses | sed and the mile accomplished in the -with an unsightly cheak, which is almost incredible time of thirty-one cut out of a greasy, key and smells of seconds being at the rate of two miles old age and rancidity, and is made in a minute and two seconds, or 1123 from ill kept cream from cows filthily miles per hour, Persons on shore lodged and carelessly milked, and is compared the speed of the flying racer churned anyhow, and the difference is to that of a meteor flashing through the amply accounted for .- N. Y. Tribune. sky, and watched her movements with eager interest. The owner afterward put the boat through some movements on the ice and astonished the lookers. on by sailing all the way across the river on one runner, the force of the wind throwing her over on her beam ends and raising the windward runner from ten to twelve fert above the ice. Although but few were found willing to partake of the amusement, all seemed disposed to coincide in the opinion that ice yatching is the most exhibarating of sports, and the evolutions of which one of these yachts is capable, the most graceful of anything they had ever wit-

> The Scientific American think the above statement of velocity needs further verification.

Allowing that the breeze which propelled the boat was a high wind, its velocity could not have exceeded thirty five miles per hour, while the boat moved at the rate of one hundred and twelve and a half miles per hour, which is faster than a tornado. The wind of the latter reaches a velocity of one hundred miles an hour, pressing with a force of fifty pounds to the square foot upon whatever object it touches, sweeping away buildings and trees in its fearfully rapid progress.

GIZZARDS OF INSECTS .- Everyone knows that turkeys, fowls, geese and many other birds that take their food by the peck, are supplied with gizzards and that such birds swallow grains of sand, small pebbles, and other hard substances with their food. The action of the gizzard upon this mixture may be easily understood; the hard substance are made to do the duty of teeth by crushing and grinding the softer ones to a pulp, so that teeth in the mouth of a fowl would be out of place. Many who know all this may not be aware that several insects have gizzards too, and still more wonderful. The gizzards of insects are much more

complicated affairs than those of hirds. If the gizzard of a cricket be hald open it will be found lined with rows of formidable teeth-a good substitute, you will say, for the sand and pebbles taken into the gizzards of birds at every meal; and as these teeth are permanent, they no doubt save the possessor of them a vast deal of trouble, unless indeed the cricket should ever be subject to the toothache. The gizzards of insects are not all alike; some are lined with teeth, some with plates, some with horas, and some with bristles; but in every instance the apparatus is a very wonderful one. In a pretty little bettle not uncommon in some localities, and with a name much longer, perhaps than the longest to be found in the register, the gizzard is about the size of a common pin's head, and is armed with more than 400 teeth; imagine what the number of muscles must be to set all this machinery in motion, and keep up its action upon the food. In some species it amounts to many thousands.

away from the Earnseleugh Cave in the south of New Zealand, the entire neck of a moa with the skin of the gigantic bird still on it, has been lecturing on the subject of his discovery. The floor of the cave, he states, is covered with a fine dust, in which lie bones and many rolls resembling pieces of the bark of a tree, but which, on examination, proved to be fragments of the reddish brown moa skin. While he was searching among these, his com-

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