The Messenger Almanac.

JUNE.							
Full Moon, June 4th, 9h. 22m. Last Quarter, "11th, 0h. 42m. New Moon, "19th, 4h. 5m. First Quarter, "27th, 1h. 42m. Day SUN. MOON. Hi Rise. Sets. Rises. South. Sets. at	M. A. A. M. gh Tide						
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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. 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 | root crops; should special manure be

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

REQUISITES. CHURCH

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AGRICULTURE.

Cultivation of the Sugar Beet.

The N. S. Journal of Agriculture of this month gives a large portion of its space to the cultivation of the Sugar Beet The editor says, very correctly, " It is not to be expected that capitalists will erect a Beet Sugar Factory until our farmers are prepared to grow a sufficient quantity of beet to keep it going." He further remarks, "we believe that it would be greatly to the interests of our Agriculturists to have the Sugar Beet industry introduced, and the simple mode which we propose for effecting this object is for our farmers to engage at once in the production of Sugar Beets for feeding purposes; as a feeding crop the Sugar Beet can be profitably grown. And it may be expected that when its culture for this purpose shall become general, capitalists will appear ready to buy up the roots for sugarmaking. We believe that in rich spots mangles are more productive as a feed crop than the White Sugar Beet, but on ordinary soils, and especially those of the poorer class, the advantage is on the side of the saccharine root."

From the Fredericton Agriculturist it appears that experiments are being made there in this matter. It gives the following as the best mode of culti-

vating the root: "The ground should be a rich mellow loam, well drained, drills from twentyseven to thirty inches apart, a liberal allowance of well rotted manure spread in the bottom of the drills, as usual for used in addition it may be sown on the manure before covering. After the manure is covered, which should be done by a double mould board plough, the drills should be lightly rolled before making a track for the seed; the seed should be sown immediately after the track is opened, before the earth has time to dry, and covered with about one inch of soil; if the soil is dry it may be covered a little deeper. As soon as the plants are well up the weeds should be cut with the hoe or cultivator and when the plants are about ten inches apart; the after cultivation should be sufficient to keep the ground clean and free from weeds. The soil should not be drawn away from the plants as in turnip cultivation."

A California farmer writes the Country Gentleman:

"The beet sugar industry will, in more than one way, help to bring the good old times back to us. Can any one of those who feel called upon to disconrage its introduction, and call its pioneers humbugs, point out to the public any branch of farming which really pays, into which any man could put money and have safe and sare returns? Look at the dairy farmers, still worse, or at grain raisers, while fattening cattle is altogether wasting money, investing a dollar to get 75 cents back, and have hard work in the bargain.

Without remunerative farming no WARRANTED to be perfectly harmless to lasting national prosperity; without rational cultivation of the soil, no remunerative farming is possible. Where the beet sugar industry flourishes, farming naturally does flourish also, the two are one and inseparable, as every country in Europe proves. Why then not foster them? You cannot help one without helping the other; success in either means prosperity to the whole nation."

The sugar trade of the United States amounts in value to \$81,000,000 annually. The first beet sugar was made in Germany in the beginning of this century. It has expanded very rapidly during the last thirty years. There btained for Inventors, in the United are now about fifteen hundred beet sugar factories in Europe. Twenty square miles are planted with sugar beets in Germany alone.

WHEN A COLT OVERREACHES have him shod afresh by an intelligent smith, altering the usual method of shoeing, so as to take the fore feet out of the way and bake the rhubarb till clear. Bake of the bind feet. This may be done slowly, and serve when cold. sometimes by putting heavy shoes on the fore feet and lighter shoes on the hind feet; or by raising the heels on the front shoes more than those of the hind shoes, or by shortening the toes of left for the moth to creep in. Bank, Washington, D. C.; the Royal Swedish, Norwegian, and Danish Legations, at Washington; Hon. Jos. Casey, late Chief Justice, U. S. Court oi Claims to the Officials of the U. S. Patent Office and to Senators and Members of Congres

Address:

hind shoes, or by shortening the toes of the hind shoes as much as possible.

When driving, tighten up the bearing rein and drive slowly. A permanent cure may sometimes be effected by putting on overreaching animal to slow, heavy work, such as ploughing. An animal which has once been broken of the habit should not be over-driven again, as when leg-weariness comes on the old trouble is apt to reappear.

> Give young chickens and ducklings all the milk they want to drink. It says he never smiles, but he feels makes them grow astonishingly fast.

SCIENCE.

THE DANGER IN KEROSENE OIL .-It is simply to be set down to good for tune if one who has employed the light oils for household purposes has escaped injury, since no amount of care can avail against the inevitable result which must follow one accident. It is easy to understand how persons ignorant of the highly dangerous character of the light petroleums may unknowingly make use of them in the manner above named.

The Patent Office records for the past few years contain numbers of claims for mixtures of naptha or gasoline, with a great variety of substances too numerous to mention.

Here is one simple and, for practical purposes, satisfactory method of determining the character of all such mixtures, and which applies equally as well to the common oils. Let a few drops be poured into a saucer and apply a match; if the material burns, reject it as unsafe. The fact that the material can be set on fire at the ordinary temperature of our dwellings should be sufficient evidence to a person of ordinary intelligence that, when employed in the household, it may, at the first thoughtless or careless act, become the cause of a frightful accident.

A LARGE METEORITE FOUND .-About 5 o'clock in the afternoon of May 10, a large meteor was seen to fall at the edge of a ravine near Estherville, Emmett county, Iowa, making a hole 12 feet in diameter and about 6 feet deep. S. E. Bemis writes to the Chicago Tribune that search parties had found numerous pieces, varying in size from 1 to 8 ounces, also four pieces, about 4 lb.. and one weighing 32 lb. and 2 ounces; but the largest size was found bedded 8 feet in blue clay, and fully 14 feet from the surface. Its weight is 431 lb., and its size 2 feet long by 11 wide, and one or so foot thick, with ragged or uneven surface. It is composed, apparently, of nearly, pure metal, a piece of which has been made into a ring. It makes a very pretty ring, resembling silver somewhat but a trifle darker in color.

DRAINING A LAKE .- One of the greatest engineering undertakings of this century is the successful accomplishment of the drainage of Lake Fucino in Italy, by which upwards of 35,000 acres of the richest land are recovered for cultivation. The labour of making the tunnel necessary for the task and other works has occupied nearly a century, and Prince Torlonia has expended on the work more than ten millions of dollars. All the water has disappeared except in a small basin used to drain the surrounding district. The greatest length of the lake was formerly some ten miles, and its breadth about seven. The idea of draining it is not a new one, and the remains of the aqueduct constructed under the Do, reign of Emperor Claudius were formerly shown to the traveller. This has been made use of in the present undertaking, and after the lapse of so many centuries the people of this Appennine district, some 2,200 feet above the level of the sea, are rejoicing over the completed work. Upon visiting the spot a few years hence how difficult it will be to realize that these vine-clad hills were covered with water within so brief a period.

THE HOUSEHOLD.

According to the Philadelphia Record, fowls or game may be kept "perfectly sweet for months" by removing feathers and intestines, filling inside with unground wheat, and covering up in a cask or heap of the same grain.

Baked rhubarb is said to be much better than if stewed. The stalks should be peeled, cut into square pieces, placed in a saucepan-not tin-cover with sugar, moisten, then cover the pan,

To keep furs and woolen goods from moths close wrapping in paper with no holes in it is enough, and no openings

This epitaph is said to have been found in the ancient cemetery at East Lynne, Conn.:

" Children! Ma'am? Mother has come !"

A duck goes under water for divers reasons, and then goes ashore for sundry purposes.

A lady describing an ill-natured man, ashamed of it.

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At 9.15 a. m., (Express) from St. John. At 1.30 p. m., (Express) from Riviere du Loup, Montreal, &c. May 28, 1879.

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1879. Arrangement. 1879.

TRAINS LEAVE HALIFAX 8.00 a. m.-(Express) Monday, Wednes-8.00 a. m.—(Accommodation) Tuesdays,

Thursdays and Fridays. 3.00 p. m.-Accommodation daily. Arrive at Windsor-9.35 a.m., 11.15 a.m.

5.40 p. m. LEAVE WINDSOR: 8.35 a. m.—Accommodation daily. 1.45 p. m.—(Accommodation) Tuesdays, Thursdays & Fridays.

6.35 p. m.—(Express) Monday, Wednesday and Saturday. Arrive at Halifax 11.32 a. m. 4.45 p.m, 8.35 p. m. May 28, 1879.

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1	St. John,	do	8 00	1 .	
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