The Messenger Almanac.

JULY.		
Full Moon, " 28	th, 2h. 2m lst, 4h. 48m 8th. 7h. 26m	. A. . A.
Day SUN. M K W . Rise.Sets. Rises.	100N.	ngn 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 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 LATER. 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.

Chester's Cure Asthma, Bronchitis

CATARRH, and all diseases of the respiratory organs.

WONDERFUL CURES Have been made of the above diseases of long standing, when everything else has failed.

THOUSANDS can testify to its merits and a trial will prove it is what we re present it to be.

Sold by all Druggists, or sent by mail on receipt of One Dollar, by W. E. CHESTER, 389 Lagauchetiere St., Montreal.

Ayer's Sarsaparilla



April 14.

For Scrofula, and all scrofulous diseases, Erysipelas, Rose, or St. Anthony's Fire, Eruptions and Eruptive diseases of the skin, Ulcerations of the Liver, Stomach, Kidneys, Lungs, Pimples, Pustules, Boils, Blotches, Tumors, Tetter, Salt Rheum, Scald Head, Ringworm, Ulcers,

Sores, Rheumatism, Neuralgia, Pain in the Bones, Side and Head, Weakness, Sterility, Leucorrhœa, arising from internal ulceration, and Uterine disease, Syphilitic and Mercurial diseases, Dropsy, Dyspepsia, Emaciation, General Debility, and for Purifying the

This Sarsaparilla is a combination of vegetable alteratives - Stillingia, Mandrake, Yellow Dock - with the Iodides of Potassium and Iron, and is the most efficacious medicine yet known the diseases it is intended to cure.

Its ingredients are so skilfully comeach is assured, and while it is so mild as to be harmless even to children, it is still so effectual as to purge out from the system those impurities and corruptions which develop into loathsome disease.

The reputation it enjoys is derived from its cures, and the confidence which prominent physicians all over the country repose in it, prove their experience of its usefulness.

Certificates attesting its virtues have accumulated, and are constantly being received, and as many of these cases are publicly known, they furnish convincing evidence of the superiority of this Sarsaparilla over every other alterative medicine. So generally is its superiority to any other medicine known, that we need do no more than to assure the public that the best qualities it has ever possessed are strictly maintained.

PREPARED BY Dr. J. C. AYER & CO., Lowell, Mass., Practical and Analytical Chemists. SOLD BY ALL DRUGGISTS EVERYWHERE. BROWN & WEBB, Halifax. Wholesale Agents.

AGRICULTURE.

WORKING HORSES .- A thorough horses in a good condition; it removes the accumulated and dried sweat and dirt much better than dry rubbing.

very useful. A few boxes in the pasture will be a saving of the salt which they are intended to take the place of is otherwise thrown upon the soil and largely lost. Long flat troughs may be that State. used.

great numbers on Long Island, and is naturally creating much alarm among the farmers.

The Maine experiment of offering rewards to beys for successful farm work is to be imitated in Vermont. Two of the trustees of the State University have offered \$150 in prizes to boys not over seventeen years of age for the best crops of potatoes and corn on oneeighth of an acre.

An inventive genius filled a small tarltan sack with a spoonful of cayenne pepper, and tacked it over the rat hole. When the rat bounced out, his eyes were peppered by the sifting from the shaken sack. He squealed like a pig and escaped. The whole tribe have since migrated.

Decaying vegetables in dwelling-house cellars, with defective ventilation and work with mules. drainage, provided employment for the doctor and grave digger.

Rubber makes a serviceable covering hours to the time of the sun's setting, and for the bit of a tender mouthed horse: Each side of the bit should be protected with a stiff, circular piece of leather.

Kerosene should be used to remove gum from axletrees before oiling. Bones sufficient to fertilize ten acres are scattered about most farms.

Throw the house slops on the compost heap. Is there any other safe place for them on the farm grounds? The value of the soap used in a large family, for fertilizing, is considerable.

The green cabbage-worms which are becoming so widely diffused in this country are the larvae of a white butterfly known as Pieris rapae, a European variety. They are very destructive, is a heaviness of the eye, a sallowness and devour vast quantities of cabbage in every district they have invaded. One way of repressing the pest is to catch the butterflies with small handnets. The eggs are laid singly on the underside of the cabbage-leaf, and much may be done by crushing them before they hatch. After the worms appear a strong decoction of red or black pepper is a good preventative of their

WEEDS AS INDICATORS OF WANTS OF THE SOIL .- When certain weeds are found growing in the land their composition will tell us what is in the soil. No soil is deficient in potash where the mullein grows, for it contains as much as the cabbage, and the dock contains more. The ash of the former contains fifty-three per cent, and the latter fiftyfive per cent. Where these are found growing it is no use applying potash in any form. Purslane, the bane of the market gardener, contains more potash than the bean, and as much nitrogenous matter. Its ash contains more than 63 per cent. of potash. Where this grows luxuriantly the land wants neither potash nor phosphoric acid; where the ragweed grows potash is abundant, for its ash contains 32 per cent. The ash of broom sedge contains 54 per cent. of potash, a larger amount than our pest grasses contain. The ash of wire grass contains 44 per cent., and that of the blue thistle 32 per cent. Sorrel is also a potash plant; few persons who have bined, that the full alterative effect of burnt a pile of brush on the land but have found that sorrel first makes its appearance, and then clover. As a general thing the soils of New England in an average state of cultivation, contain enough of potash for heavy crops, and on all our milk farms phosphate of lime is deficient. Animals remove but a small portion of potash from the soil, as there is comparatively a small percentage in the animal kingdom, but it is very essential in the vegetable kingdom, and where the crops are consumed upon the farm potash is seldom required hardy plants that are rapid growers in larger quantities than the manure might produce a beneficial result? as pile affords. In order to know what the soil contains, and what it requires, we must study the character of the weeds it produces .- American Culti-

> The Czar escaped being blown up by being late to dinner, Most married men meet with a different fate.

SCIENCE.

ROAD ENGINES AND WAGONS FOR washing with clean water, not too cold, | WESTERN TRANSPORTATION .- A number will greatly aid in keeping working of road locomotives and trains of wagons for the transportation of minerals, and general merchandise over the common roads of the far West, were received in New York in the latter part of Feb-Salt Boxes are easily made and are ruary. They were built in England, and were consigned to Nevada, where mule trains on certain central routes in

The engines weigh about 7 tons each, and are rated at 12 to 14 horse The army worm has appeared in power. They have horizontal boilers, which are fitted with large fire boxes for burning almost any description of fuel, and water tanks are affixed capable of holding a supply for three or four hours. The engines are so arranged that they can be used for turning fixed machinery. The driving wheels are 7 feet in diameter and 12 inches in width and the steering or front wheels are 4 feet in diameter and 9 inches wide.

With grades not exceeding 1 foot in 12, each engine will haul from 10 to 12 tons of paying load, and travel at an average speed of 31 miles per hour. The waggons are coupled together and to the locomotive by strong coupling bars, and the whole trains follow exactly in the track of the engines, The total cost of hauling by the road locomotives, it is estimated, will range from 5 to 10 cents per ton per mile, not one-fourth of the cost of doing similar

HEALTH HINTS.

BEAUTY SLEEP.—Sleep obtained two hours before midnight, when the negative forces are in operation, is the rest which most recuperates the system, giving brightness to the eye and a glow to the cheek. The difference in the At 12.15 p.m. - Accommodation for Pictou. appearance of a person who habitually At 5.30 p. m.-Accommodation for Truro. retires at ten o'clock, and that of one At 6.45 p. m.—Express for St. John and who sits up until twelve, is quite remarkable. The tone of the system, so evident in the complexion, the clearness and sparkle of the eye, and the softness of the lines of the features as in a person of health kept at "constant pitch" by taking regular rest two hours before twelve o'clock and thereby obtaining the beauty sleep of the night. There of the skin, an absence of that glow in the face which should be fresh in expression and round in appearance, that readily distinguishes the person who keeps late hours.

Cellars should be ventilated at night and kept closely shut up and dark in in the day time. The outer air highly charged with moisture, if allowed to enter the cellar in the day time will deposit much of its moisture upon the cold walls, and the cellar is made more damp instead of dryer by the day ventilation.

MEMPHIS RECLAIMED .- It is reported that Memphis is at last clean, and so far worthy of exemption from further epidemics of yellow fever. Twenty miles of sewer pipes have been laid already, and over 700 men are now at work for the district government. Thirty miles of sewers will be finished by June 1. This will nearly complete the sewer system. In addition an equal number of miles of drain tile have been laid. Aside from sewerage and drainage, mention must be made of the cleaning and filling of vaults, the demolition of hundreds of old buildings, the tearing up of the Nicolson pavement the cleaning up of cellars, and the general renovation of stores and dwell-

VALUE OF SUNFLOWERS .-- It has been found that sunflowers purify the air wonderfully, and tend to prevent chills and other forms of disease from malaria by neutralizing the bad effects of poisonous exhalations.

It is asserted on excellent authority that not only near Rocheford, France, but in certain mashy districts in Holland, intermittent fever, formerly prevalent has wholly disappeared in consequence of the extensive planting of sun-

Is it not possible that other strong they imbibe for their nourishment noxfous gases and throw off for our use pure

Pine trees or woods are very healthful because the coniferæ emit a peculiarly purifying substance called oxone. How carefully does the wise and good creator provide for the wants of all his creatures .- Household.





Cattle, Milch Cows, Sheep, Pigs and Poultry. Horses,

The OBJECT of this FEED is to prevent disease, to put and maintain animals in a healthy condition, and to economize feed. All the ingredients composing this FEED are certain health-giving Herbs, Seeds and Roots, which cannot be obtained by animals that are stall-fed. A varied diet is as necessary to the horse or any other animal as it is to man.

DIRECTIONS FOR FEEDING.

Horses .- At each time of feeding mix half pint of the Feed with the usual quanyou can deduct one-fourth part of the usual grain feed. Discard all bran when Hogs.—At each using MANHATTAN FEED.

Cows.—At each time of feeding mix at the rate of six pints for every dozen cows, with their usual feed, and in two weeks with their usual feed, and in two weeks the rate of six pints for each hog.

Poultry.—Mix half a pint of the Feed in a peek of their usual food. you will be surprised at the large increase of milk and butter.

INTERCOLONIAL BAILWAY.

SUMMER ARRANGEMENT.

TRAINS leave Halifax daily (Sunday

(Halifax time.)

At 8.25 a. m.-Express for St. John, Pic-

WILL ARRIVE :-

At 9.45. a. m. - Accommodation from

At 10.45 a. m., -Express from Quebec and

At 2.50 p. m.-Accommodation from Pic-

Windsor and Annapolis

Railway.

Summer Arrangement,

For Halifax Time add 16 minutes.

Halifax.....Leave 7 45 9 00 3 00

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Steamer " Empress " leaves St. John every

val of Express Train from Halifax at 1.40 p.

m. every Tuesday, Thursday and Saturday

HALIFAX and CAPE BRETON

BAILWAY.

Leaves Antigonish at 9 a.m., and New

Arrives at New Glasgow at 11.30 a. m., and at Antigonish at 4.15 p. m.

Western Counties Railway.

Train leaves Yarmouth daily at 7.45 a.

Leaves Digby on Tuesday, Thursday,

and Saturday at 3.30 p. m., and at 12.15

m., and arrives at Digby at 11.15 a. m. on

GOING WEST

46 Windsor.

64 Wolfville.

71 Kentville,

83 Berwick.

102 Middleton.

130 Annapolis.

| St. John,

St. John,

28 Middleton.

47 Berwick.

59 Kentville,

66 Wolfville.

84 Windsor,

for Digby and St. John.

Glasgow at 1.45 p. m.

130 Halifax

Annapolis,

GOING EAST.

from St. John.

At 7.45 p. m.—Express from St. John.

June 8, 1880.

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excepted) as follows:-

March 3.

BULLOCKS .- Mix same as for Cows. CALVES AND LAMBS.—at each time o tity of corn or oats. In a shorttime your horse will be in a perfect condition, when the usual quantity of milk or oatmeal for

> Hogs.-At each time of feeding mix half pint of the Feed with the usual swill

A measure holding exact amount of one feed is enclosed in every bag.

PRICES.

Bags containing 100 Feeds (25 lbs.), \$2.00. Bags containing 200 (50 lbs.) \$4.00. Bags containing 400 Feeds (100 lbs.), \$8.00. For Poultry, a specially prepared Feed, put up in 21 lbs. boxes, 25 cents.

Prepared only by MARSDEN & CO., 698 Craig St. Montreal. GENERAL AGENT FOR THE MARITIME PROVINCES-

GEORGE FRASER,

76 Granville St., Halifax.

BAPTIST CHURCH REQUISITES.

Articles and Covenant \$1.00 per 100. Church Record and Register \$2. and \$3, Alphabetical List of Members 40 cents

Letters of Dismission 50 cts. per quire. Psalmists, in all varieties, from 85 cts. Baptist Hymn Book from 50 cts. Baptists Hymn and Tune Book \$1.00 and \$2.25.

Scripture Catechism, \$6.00 per 100.1 CHRISTIAN MESSENGER OFFICE, No. 69 & 71 Granville St., Halifax. April 15.

For it is sadly too true that thousands of children are STARVED TO DEATH every year by improper or insufficient food. Remember,

RIDGE'S FOOD

Is all and a great deal more than we have claimed for it. It is simply a HIGHLY 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, and those suffering from Indigestion will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, is all they can desire. It is carefully put up in four sizes.

Constant users will find our No. 4 size (always the most economical size to buy) now much larger than formerly, thus materially lessening the expense. WOOLRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridges Food, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17

Nova Scotia Book Bindery, C. & T. PHILLIPS,

BOOK BINDERS, PAPERS RULERS, BLANK BOOKS, Manufacturers, Perforaters, Steam Machine PAPER BAG Manufacturers. Cheapest in the Market. Jan. 31.

KIDDER'S PASTILLES. Price 35 cts. by mail. STOWELL & CO. Feb. 25.

BHUSHEAL.

GATES BROS., Manufacturers of ORGANS AND PIANOS, 9 46 4 16

Leave 6 35 11 15 4 57 Organs from \$75 and upwards. Warranted for 7 years. 7 02 11 45 5 18

Pianos \$200 and upwards. Arrive 8 20 1 15 6 13 Arrive 11 00 4 30 8 10 The usual discount to Clergymen, Churches, Teachers and Societies. Factory-MELVERN SQUARE,

Annapolis Co. Monday, Wednesday and Friday for Digby and Annapolis, and leaves Annapolis on arri-Sales Room 120 GRANVILLE STREET. Near Province Building, Halifax.

ENCOURAGE HOME MANUFACTURES. Save Duty and High Commissions. Keep the money in the country. enti-C. E. GATES, Musical Departm, G. O. GATES, Manufacturing,

W. J. Gates, Manager.

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p. m. on Monday, Wednesday and Friday.
Arrives at Yarmouth Tuesday &c., at
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