# The Messenger Almanac.

APRIL.					
Full Moon, April 6th, 6h. 10m. A. Last Quarter, "13th, 9h. 55m. M. New Moon, "21st, 9h. 41m. M. First Quarter, "29th, 10h. 2m. M.  Day Sun. Moon. High Tide					
W. Rise. Sets. Rises. South. Sets. at Halifax					
Tu.   5   44   6   23   A.   22   7   49   2   235   1   7   2   W   5   43   6   25   1   45   8   40   3   6   2   24   3   Th.   5   41   6   26   3   1   9   31   3   35   4   0   4   Fr.   5   39   6   27   4   18   10   21   4   1   5   14   5   5   5   5   3   6   29   6   58   M   4   49   6   58   6   50   5   35   6   29   6   58   M   4   49   6   58   7   M.   5   34   6   31   8   22   0   7   5   16   7   40   8   Tu.   5   32   6   33   10   59   2   5   6   27   9   4   10   Th.   5   28   6   34   M   3   7   7   15   9   47   11   Fr.   5   26   6   36   0   6   4   10   8   14   10   32   12   Sa.   5   25   6   37   1   0   5   10   9   20   11   19   13   SU.   5   23   6   38   1   43   6   7   10   31   A.   12   14   M.   5   21   6   39   2   16   6   58   11   40   1   16   15   Tu.   5   19   6   40   2   42   7   45   A   48   2   2   35   16   W.   5   18   6   42   3   6   8   29   1   52   4   2   2   17   Th.   5   16   6   43   3   23   9   9   2   55   5   13   18   Fr.   5   14   6   44   3   43   9   50   3   57   6   8   19   Sa.   5   13   6   45   4   10   30   4   59   6   49   20   SU.   5   11   6   57   4   22   11   12   6   2   7   25   21   M.   5   9   6   48   4   46   11   55   7   4   7   56   22   Tu.   5   8   6   49   5   16   A.   41   8   6   8   26   26   Sa.   5   2   6   54   8   9   4   0   11   51   10   35   27   Su.   5   0   6   55   9   10   4   51   M   11   11   11   28   M.   4   59   6   56   10   24   5   43   0   32   11   55   29   Tu.   4   57   6   57   11   29   6   32   1   2   M   30   W.   4   56   6   59   A   39   7   20   1   35   0   51   30   W.   4   56   6   59   A   39   7   20   1   35   0   51   30   W.   4   56   6   59   A   39   7   20   1   35   0   51   30   W.   4   56   6   59   A   39   7   20   1   35   0   51   30   35   30   30   M.   4   56   6   59   A   39   7   20   1   35   0   51   30   35   30   30   30   30   30   30					

THE TIBES .- 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 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. LATER.

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 rising next morning.

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#### AGRICULTURE.

SUPERPHOSPHATES, - We have received so many direct enquiries as to how to use Superphosphates that it evident this artificial manure is to be used this season by a large number of persons who have not used it before, It may therefore be useful to specify, in a few words, the best modes of applying it to ordinary crops. Good Superphosphate may be applied at the rate of 250 lbs. per acre to grain crops, and double that amount, (500 lbs), to root crops. It should not be applied to poor soils without other manure, but for exhausted lands, if applied along with other manure, it will speedily bring How many bones in the human wrist? them back to fertility. The practical difficulty of spreading so smalla quantity as 250 lbs. evenly over an acre of land is easily got over by mixing the Superphosphates with good earth or compost before distributing, or, it may be evenly sown over the land like How many bones in the human hip? timothy seed. It should always be put in the land before cultivating, so that the harrowings and hoeings may help One in each and deep they lie. to mix it well with the soil. In drilled crops, such as potatoes, it may be put in the drills along with the manure, but should be slightly covered with earth to prevent the seed coming into immediate contact with the soluble and powerfully acid Phosphate. For turnips it is a very special manure; it may be run into the seed drills, either as a compost or slightly covered with earth to protect the seed. The best way to use for turnips is to mix with ground At Charlottetown, 2 hours 56 minutes bones. In fact, for crops generally LATER. A Yarmouth, 2 hours 20 minutes ground bones is the complement of Supbones. In fact, for crops generally And they count in the body two hundred erphosphate, and Superphosphate the complement of ground bones! the two Of upper and under, thirty-two teeth. go hand in hand .- N. S. Journal of Agriculture, April 1879.

> FARM FOOD .- Where many farmers make one load of manure, they ought to make at least three. The liquid waste is as valuable for manure as the solid portion; and yet on seven-eighths of the farms it is nearly all lost. It can be saved by storing a supply of horses are to stand, and putting a fresh purpose is made of annealed iron, to keep it free from foul odors; or bet- with a hole through the centre to allow in every decent barn. One hundred cient to start a fire. leads of saturated earth in May will be worth to any farmer one hundred and fifty dollars, putting it at the least.

The English Gardener's Magazine talks good sense when it says:

In the cultivation of root and other green crops for feeding the stock on the home farm, one of the most essential points is to secure a good tilth, soil well prepared for the seed, and this can only be had by thoroughly exposing the soil to the action of the weather some time previously. Indeed, crops of all kinds that are usually sown in the spring succeeds much better when the soil has been well pulverized by the weather during the previous winter. By eral constituents necessary for building up the plant are, to a certain extent, set free, and rendered more readily available as plant-food. It may, indeed, be assumed that all land now vacant, whether to be cropped as early as February or not until May, should be ploughed up as opportunities offer. This work cannet be done toe soon; and the horses ought not to be taken from the plough until the whole of the unoccupied fields have been broken up, unless the weather is unfavorable or work of equal importance has to be

The depth to which the soil should be broken up depends in a large measure upon its character; but, as a rule, it will be perfectly safe to go a few inches deeper than the average depth of the ploughing in the district. It is very seldom that land is ploughed too deeply for the good of the crops; and as showing how beneficial deep stirring of the soil is to most crops, we have only to compare the crops produced on land that has been stirred with a steam cultivator with those obtained from the same land previously. Heavy soils should be left somewhat rough on the surface, and not be laid in smooth straight furrows, such as a good ploughman delights in and which are so pleasing to the eye.

Covetousness bursts the bag.

## SCIENCE.

The Battle of the Bones. How many bones in the human face?

Fourteen, when ther're all in place. How many bones in the human head? Eight my child I've often said. How many bones in the human ear? Three in each and they help to hear. How many bones in the human spine?

Twenty-six, like a climbing vine. How many bones of the human chest? Twenty-four ribs and two of the rest. How many bones the shoulder bind? Two in each ; one before, one behind. How many bones in the human arm? In each arm, one; two in each fore-arm.

Eight in each if none are missed. How many bones in the palm of the hand Five in each with many a band.

How many bones in the fingers ten? Twenty-eight and by joints they bend.

One in each ;-like a dish they dip. How many bones in the human thigh?

How many bones in the human knees? One in each—the knee-pan, please.

How many bones in the leg from the knee Two in each—we can plainly see. How many bones in the ankle strong? Seven in each—but none are long.

How many bones in the ball of she foot? Five in each as in the palms were put. How many bones in the toes half-a-score?

Twenty-eight and there are no more. And now, altogether, these many bones fix,

And then we have in the human mouth,

And we now and then have a bone I should That forms on a joint, or to fill up a chink.

A Sesamoid bone, or a Wormian we call: And now we may rest for we've told them

Mother Truth's Melodies.

FIRE- LIGHTING .- A novelty in fire lighting is to use parafin instead of gas muck or of common loam under the or the more ordinary means of rapid stable where the oxen and cows and combustion. The contrivance for this covering upon the pile often enough shaped like a flat iron, and is hollow, Agents for the Christian Messenger. ter yet-for tew men can be trusted to the admission of air. The hollow part manage a barn-basement-make a shed | being packed with asbestos is practicalor pit for the compost, and convey the ly incombustible. About two spoonfuls liquids away from the stable by suit- of paraffin or any other oil poured into able drains, which should be provided | the receptable and lighted will be suffi-

> It is said that the new process of grinding has made the value of extra spring wheat equal to that of the best fall wheat, and the earlier spring wheat is sown the better.

> The caustic effect of lime accidentally introduced into the eye may be entirely neutralized by the use of cold sugar and water. The lime and sugar form a compound that has no action upon the

## VARIETIES.

A fashionable visitor thus addressed a little girl: " How do you do, my little exposing the soil to the action of the dear?" "Very well I thank you," she frosts and rains during the winter, a replied. The visitor then added: better seed bed is obtained, the roots " Now, my dear, you must ask me how can run more freely in it, and the min- I do." The child honestly replied : "I don't want to know."

TYPOGRAPHICAL .- " May they always live in peace and harmony" was the way in which an editor wound up a notice of the marriage of a couple of friends. And it came out in his paper the next morning; "May they always live on peas and hominy."

A contemporary says the following couples were 'proclaimed' in matrimony last year in Scotland:-

Thomas Black and Mary White, Peter Day and Ellen Knight, Solomon Bank and Catharine Vale, James Hill and Susan Dale, Isaac Slater and Jane Thatcher, John Baker and Mary Butcher, Stephen Head and Nancy Heart, William Stately and Jessee Smart, Joseph Reed and Julia Hay, Thomas Spring and Mary May, Joseph Brown and Kitty Green, John Robins and Jenny Wren, William Castle and Nancy Hall, Peter Chatter and Fanny Call, Joseph Mann and Eliza Child, James Merry and Lucy Wild, Thomas Bruin and Mary Bear, James Fox and Catharine Hare, Andrew Clay and Lucy Stone, Michael Blood and Lizzie Bone, Jehn Cloak and Julia Hood, Edward Cole and Nancy Wood, James Broom and Ellen Birch, Charles Chapel and Susan Church.

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At 8,20 p. m., (Express) from St. John Pictou, &c. At 9.15 a. m., (Express) from St. John. At 1.30 p. m., (Express) from Riviere du Loup, Montreal, &c. Jan. 8, 1879.

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1879 -- Winter Arrangement -- 1879.

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8.35 p. m. Feb. 26. 1879.

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Miles.	GOING WEST.	Express Wed. and Saturdays.	Pass. & Frgt. Mons., Tues., Thurs. & Fri.	Preight, Tues., Thu.,
18 25 53 84	Windsor Leave Wolfville do Kentville, Arriv Leave Wilmot, Leave Annapolis, Arriv	10 36 10 56 re 11 10 re 12 27 re 2 00	11 30 12 49 1 20 1 40 3 35 5 40	P. M. 5 45 6 51 7 15
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Miles.	GOING EAST.	Pass. and Freight Mon. Wed. and Fri.	Pass. & Frgt. Mons. Tues., Thurs., & Fri.	Express Wed. & Sat.
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