The Messenger Almanac.

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	013 01 00 1						
Last Quarter, Dec. 6th, 3h. 29m. A. New Moon, "13th, 6h. 50m. M. First Quarter, "20th, 7h. 2m. M. Full Moon, "28th, 0h. 2m. A.							
New Moon, "13th, 6h. 50m. M.							
First Quarter,	" 20th, 7h. 2m. M.						
Full Moon,	" 28th, 0h. 2m. A.						
	MOON. High Tide						
Day Pice Sets	Rises. South. Sets. at Halifax						
1 M., 7 22 447	7 6 55 1 40 9 25 8 57						
2 Tu. 7 23 4 16	5 7 59 2 30 10 5 9 31						
3 W. 7 24 4 16	3 9 4 3 18 10 37 10 8						
4 Th. 7 25 4 16	3 10 10 4 4 11 4 10 44						
5 Fr., 7 26 4 16	3 11 17 4 50 11 30 11 23						
6 Sa., 7 27 4 15	5 M 5 35 11 53 A. 9						
7 Su. 7 28 4 15	5 0 25 6 20 A. 15 1 3						
8 M. 7 29 4 15	5 1 40 7 10 0 40 2 2						
9 Tu. 7 30 4 15	5 2 55 8 1 1 7 3 11						
- TTT M 04 4 4 M	5 4 14 8 57 1 40 4 17						
	5 5 32 9 56 2 20 5 22						
12 Fr . 7 33 4 15	5 6 48 10 0 3 12 6 20						
13 Sa . 7 34 4 15	5 7 56 A. 6 4 16 7 16						
13 Sa . 7 34 4 15 14 SU. 7 34 4 15	5 7 56 A. 6 4 16 7 16 5 8 53 1 11 5 29 8 9						
14 SU. 7 34 4 15 15 M. 7 35 4 16	6 9 36 2 11 6 46 9 0						
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23 Tu. 7 40 4 19							
	0 2 8 9 55 4 43 5 2						
26 Fr 7 41 4 21	1 2 55 10 45 5 42 6 1						
27 Sa., 7 41 4 22	2 3 48 11 36 6 35 6 51						
28 SU. 7 42 4 23	3 4 47 M. 7 24 7 32						
29 M., 7 42 4 23	3 5 51 0 26 8 5 8 10						
30 Tu. 7 42 4 24	4 6 55 1 16 8 41 8 44						
31 W . 7 42 4 25	5 8 3 2 2 9 9 9 19						
_	The solumn of the Moon's						

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 minland, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes A Westport, 2 hours 54 minutes A Yarmouth, 2 hours 20 minutes

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.—Sub-tract the time of the sun's setting, from 12 hours and to the remainder add the time

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AGRICULTURE.

SEED.—At the last meeting of the British Association Sir John Lubbock read an interesting paper on seeds. He commenced by calling attention to the difference presented by seeds, some betouched upon was, that seeds found of the system. themselves in spots suitable for growth. Most seeds germinate on the ground, but there were instances, as the mistletoe, where they were parasitic on trees. Such seeds were embedded in a viscid substance, so that if dropped by a bird on a bough they adhered to it. In some cases plants buried their own seeds in other instances the seeds buried themselves, the means by which these processes were effected being fully explained by Sir John, who in conclusion, utes LATER, and at St. John's, Newfound- called attention to mimicking seeds, well developed in children, attaining its did not open, but looked so exactly like worms that birds were induced to peck at them and thus free the seeds. That this was the purpose of the resemblance he would not assert, but he threw it out as a matter for consideration.

> A Californian sends flowers across the continent by taking a large potato, cutting it in two, "scooping" out most of the pulp, putting in a flower and jointhe journey. An agricultural editor suggests that a pumpkin be used instead of a potato, thus allowing more storage room.

> Cows will quickly fall off in their milk unless they have plenty of clean water within convenient reach. They will suffer considerably from thirst before they will travel long distances for water, either in hot or cold weather. If left too long without water, until they become feverish, they will drink too much, and this going from one extreme to the other will affect unfavorably the health of the cow, and cause a decrease of milk.

Apple-seeds sown in the fall will form in four or five years an impenetrable hedge. It should be clipped back two or three times to grow low and stocky.

CALVES AND YEARLINGS .- Cold and wet do much harm to young stock and stop the growth, which is rarely commenced again until the warm weather of the next season. A rough shed in the pasture will furnish useful protection, and a small supply of rich food is of value in keeping up the thrift.

Uses of soor.—Soot is valuable first. for the ammonia which it contains, and also for its power of re absorbing amsalt may be mixed with soot. Lime and soot should never be mixed together; lime destroys the ammonia. Soot that has been steeped in water for two or three days is as good a fertilizer as horsehoof parings for house plants, and increases the vividness of the bloom of flowers in the open air. Soot and salt in connection with compost-one quart of salt to six quarts of soot-is an excellent fertilizer for asparagus, onions cabbages, &c. Two bushels of compost makes a heavy dressing for each square rod of ground, to be worked into the surface of the soil.

TRIMMING THE ROOTS OF SEED-LINGS .- Peter M. Gideon, of Minnesota, remarked at a meeting of the State Horticultural Society that in the early days of his horticultural experience he was "crazy" to secure all the in root grafting. He has now got over all this, and he finds the cleaner the seedling roots are of fibres the better they will grow, by sending out new half pounds flour, one pint warm milk

SCIENCE.

WHY WE BUTTER OUR BREAD .-The layers of the wheat berry, as we proceed towards the centre, become more and more completely starchy, and at the centre but little else is found, ing large, some small, some covered and this portion makes our finest flour. with hooks, some provided with hairs, The finer the flour, the less it is fit for some smooth, some sticky, etc. He nutrition. In its natural state, the gave the reasons of these peculiarities, wheat, with all its components present and then spoke of the modes of disper- is not fully fitted for perfect human desion by means of which seeds secured a velopment. There is deficiency in the sort of natural rotation of crops, and in potential heat-producing materials, esother cases were enabled to rectify their | pecially for cooler climates, there being frontiers. Some plants actually threw only two per cent. of fat in wheat. We their seeds, some were transported by instinctively supply this deficiency by the wind, and many were provided the addition of fatty bodies. We spread with a wing which caught the wind. butter upon bread, we mingle lard or Dispersion was also effected by the butter with our biscuit or cake, and the agency of animals. This means was fat meat and bread are taken alternatedivided into two classes, where seed | ly or coincidently. The starch being adhered to animals by hooks, and a carbonhydrate, can afford, comparawhere the same purpose was effected tively, but little heat in consumption, by sticky glands. The next point and the fats are demanded by the wants

The memory is a singular faculty. A French scientist has gathered some curious statistics respecting it, which are published in a medical journal. The inferior races of mankind, the investigator says, such as negroes, the Chinese, &c., have more memory than those of a higher type of civilization. Women have more retentive memories than men. The young have better memories than adults, the faculty being such as the scorpiurus, the pods of which maximum about the fourteenth or fifteenth year, and then decreasing. Feeble individuals of a lymphatic temperament have more memory than the strong. Students who obtain prizes for memory and recitation chiefly belong to the former class. In French schools it has been found that pupils who have the best memory are not the most intelligent. The memory remains intact in diseases of the left side of the brain, and is much affected by ing the potato again. The moisture of those of the right, which seems to show the potato keeps the flower fresh during that the faculty resides chiefly in the right lobe. We remember better, also, it is said, in the morning than in the evening, in summer than in winter, in warm than in cold climates.

> A CANARY BIRD WITH ASTHMA. To cure a canary bird of the asthma you should hold him firmly in the hand, and let him inhale chloroform until stupefied; when he comes out of the stupor he will be found to be entirely cured; this should be done in the morning before the bird is fed, The disease is caused by impure air.

> " Boom."-Readers of United States papers have of late frequently read of the "political boom," the "business boom" and "booms" of several other kinds.

> The word is a Westernism, and means a swelling, boiling freshet. The Yankee newspapers are applying it to every rushing thing.

THE HOUSEHOLD.

RANCID BUTTER may be reformed and improved somewhat by churning it awhile in good new buttermilk then working the buttermilk out of it as at

ROAST CALF LIVER .- Wash thoroughmonia. The creosote it contains is ly and wipe dry; cut a long deep hole valuable as an insect destroyer, and as on the side; stuff with crumbs, bacon, a fertilizer of all garden crops. If the and onions chopped; salt and pepper to Law, LeDroit Building, Washington, soil is dry, a little common household taste; bit of butter and one egg; sew or tie together the liver; lard it over and bake in the oven, basting frequently; serve with gravy and currant jelly:

> ENGLISH PEASE PUDDING .- Soak and boil split peas. Turn them into a basin and mash them, or better, rub them through a colander, add dripping, pepper, and salt, tie them tightly in a cloth, and put the pudding into boiling water and boil half an hour. Before turning out dip the pudding into cold

YEAST DUMPLINGS .- Make a light dough of 3 pounds of flour, 13 ounces of German yeast, a pinch of salt, and some milk; let it rise in a warm place. In about an hour the dough will be ready to use; mould them round as for buns, and boil fast for about fifteen little fibres, even on his seedlings, used minutes in a good deal of water; serve with melted butter plain sauce.

English Muffins.—One and a tender rootlets. With orchard trees he one-half pint yeast, mix well together, wants all the roots he can get, but it is and allow to rise; work over again, add not at all essential to secure the grow- a little salt, and two eggs; bake on a hot griddle in rings.

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HAIR DRESSING,

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LEAVE YARMOUTH : 8.00 a. m.—Express Daily. LEAVE WINDSOR:

Dec. 3, 1879.

ate points.

8.35 a.m.—Express Daily. 2.00 p. m.—Passengers and Freight Tuesday, Thursday and Saturday. Arrive at Halifax 11.00 a. m., 5.00 p. m., and 8.25 p. m.

1879 WINTER ARRANGEMENT 1879

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tou, and intermediate places.

At 1.16 p. m.—Express for Quebec and intermediate places. At 5.30 p. m.-Accommodation for Truro.

WILL ARRIVE :-At 9.16. a. m. - Accommodation from Truro. At 1.56 p. m., -Express from Quebec and

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