The Christian Messenger.

ALMANAC FOR DECEMBER.

First Quarter, Full Moon, Last Quarter, New Moon,	Dec. 5th, 9h. 42m. afternoon. 12th, 3h. 31m. afternoon. 19th, 10h. 41m. afternoon. 27th, 2h 50m. afternoon.
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	27th, 2h. 30m. aiter			
Day SUN.	MOON. High	Tide		
Wk Rise Sets I	Rises South Sets at Ha	llifax		
1 W 7 2214 17	10 47 2 50 6 53 9	36		
2 Th., 7 23 4 16	11 24 3 40 7 56 10	10		
3 Fr. 7 24 4 16		46		
4 Sa. 7 25 4 16		31		
5 SU. 7 26 4 16		orn		
6 M. 7 27 4 15	0 0 0	19		
7 Tu 7 28 4 15	1 13 7 27 0 30 1 1 32 8 14 1 41 2	16 21		
8 W. 7 29 4 15				
9 Th., 7 30 4 15		38		
10 F 7 31 4 15				
11 Sa., 7 32 4 15 12 SU, 7 33 4 15		24		
		15		
		6		
		58		
	9 17 3 27 10 56 9	51		
16 Th 7 36 4 16 17 F 7 37 4 16	10 30 4 19 11 21 10	39		
18 Sa. 7 37 4 16	11 40 5 7 11 44 11			
19 SU. 7 38 4 17	morn 5 51 A. 2 A.	. 21		
20 M 7 38 4 17	0 47 6 34 0 21 1	14		
21 Fu., 7 39 4 18	1 51 7 14 0 37 2			
92 W 7 39 4 18	2 56 7 56 0 56 3			
23 Th 7 40 4 19	4 3 8 40 1 17 4			
24 F 7 40 4 19	5 6 9 25 1 44 5			
25 S 7 41 4 20				
26 8 7 41 4 21				
27 M 7 41 4 22				
ACC A COST OF THE PROPERTY OF				
30 Th 7 42 4 24 31 Fr 7 42 4 25	M MM M M			
31 Fr 7 42 4 25	10 10 0 11			
my 1 - of the Moon!				

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. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 min-

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

FOR THE LENGTH OF THE NIGHT .- Sub. tract the time of the sun's setting from 2 hour and to the remainder add the time of rising n. x' morning.

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for them. WM. PARKS & SON, New Brunswick Cotton Mills. St. John, N. B.

Aug. 25.

BETCHER'S PECTORAL MIXTURE

Coughs, Colds, Whooping Cough, Asthma, &c.

CERTIFICATES.

This article has been known to give immediate relief in Chronic Coughs when other Syrups have utterly failed, and for temporary coughs and colds it is invaluable, for which assertions abundant testimony can be produced. For singers and speakers it is also invaluable. No harm can result from a free use of this medicine. To be had of the Manufacturer

> J. W. BETCHER, No. 27 CORNWALLIS STREET, HALIFAX, N. S.

HALIFAX, March 10th, 1873.

J. W. BETCHER, Esq. Dear Sir,-Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic chough, and palmonary weakness which had been preying upon my system for over a year, and would recommend it to all who are suffering from like complaints

GEO. L. FELLOWS.

St. John, N. B., April 16th, 1874. This is to certify that I was attacked with a very severe cold combined with the Asthma very bad, so that I could not lie down or hardly breathe. One bottle of the cough medicine prepared by J. BETCHER, Esq., of Halifax, N.S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since, and I believe it to be the best medicine for Coughs, Colds,

Asthma, &c., that there is made. Aug. 12.

JOHN N. DEARBORN. 1 yr.

CONSUMPTION CURED.

To the Editor of Christian Messenger. ESTEEMED FRIEND: Will you please inform your readers that I

have a positive CURE FOR CONSUMPTION and all disorders of the Throat and Lungs, and that by its use in my practice, I have

cured hundreds of cases, and will give \$1,000,00.

for a case it will not benefit. Indeed, so strong is my faith, I will send a Sample, free, to any sufferer addressing me. Please show this letter to any one you may know who is suffering from these diseases,

and oblige, Faithfully Yours, DR. T. F. BURT, 67 William Street, New York. Aug. 5.

Science.

DETERIORATION OF COALS .- That coals lose considerably in value by ex- GRAIN OF WHEAT .- A Nottinghamposure to the weather is well known, shire farmer, writing to a local paper, but few probably are aware of the ex- says :- "In September of last year, tent of the damage thus produced. Dr. whilst sowing some seeds in my garden sample of coal exposed for some time | for I soon observed a blade of wheat to the air, and he states that the qual- spring up, and as I noticed that it grew ity of the coal has undergone a still very rapidly, I had the curiosity to greater deterioration. This loss is be- protect it, and gave it every chance of lieved to be due to a slow combustion coming to perfection. The result was of the volatile elements of the coal, as follows:-The number of ears on which gradually diminish in amount, the root was 63 (40 very large), and whilst the proportion of carbon, ash and though some grains were picked and sulphur is increased. In some away by one of my hens, the number experiments made the gas which was of grains left when counted was 3,044. furnished was diminished some forty- I have the root of corn which I dug up, five per cent., and the heating power and am fully convinced that all was the forty-seven per cent., in a coal which production of one grain. I leave your had been exposed, while the same coal | readers to make their own calculations, under shelter lost only twenty-five per supposing every grain of wheat could BOOK & TRACT DEPOSITORY cent., as a gas generator, and ten per be made equally productive. I have cent., as a heat producer. Anthracite, often had the curiosity to notice the exposure to the atmosphere, and the growing in my fields, but never found bituminous coals are those which lost | more than 25 ears to one root." most; but in either case, the loss and deterioration are sufficiently serious to call for the exercise of more care than is usually practised .- Montreal Journal horses attached close to the load is so of Commerce.

cases or ordinary sore throat, the run straight to the head of the middle simplest and best treatment is the wet horse the reins of the side horses pack, using a linen cloth wrung from branching from these and passing to cold water, and over this a knit or the bit of each outer horse. Only crocheted yarn band, four feet long two reins are therefore held by the and four inches wide. Apply this two driver. or three nights in succession, unless it as very serious case, when the pack should be kept on during the day. If taken off in the morning, wash the throat in very cold water, and rub dry with a coarse towel and with the hand. This will prevent taking more cold. The more friction used the better; let it be a sort of squeezing of the parts so as to effect the deepseated tissues. Sore throats may be prevented by these means from becoming chronic.—Herald of Health.

THE ENGLISH 81-TUN GUN ECLIPS-ED .- According to the Kölnische Zeitung, Krupp is making preparing of a 124-tun cannon. This enormous gun will throw steel bolts weighing more than 2,200 lbs. each, and will require a load of powder weighing 400 lbs. It is estimated that the projectile will pierce at a distance of 3,200 feet the heaviest plates, of 23-8 inches thickness, now used on the English ironclads, and that its extreme range will exceed seven miles and a half.

In the Paris International Maritime Exhibition there is a small object deserving of notice. It is a platinum wire placed in a bottle and ignited by electricity from a bichromate battery. It is intended to be immersed in the sea, and the light emanating from it is said to attract a immense number of fishes. Experiments have been tried lately on the coast of Cotes du Nord department with a fishing boat, and have proved very satisfactory, on a bank of sardines. The glass must be green or black, otherwise the fish are frightened by the glare and do not follow the submarine light.

A college for the study of science has just been formally opened in Leeds England, by the Duke of Devonshire, though it has really been at work for a year. The college has an endowment, raised by subscription, of £30,-000. A further endowment of £400 a year has been obtained through the Endowed Schools Commissioners, and the Clothworkers have given £300 a year, and founded four scholarships of £25 a year each, for furthering instruction in the textile industries.

While tunneling into the side of Mount McLennan, Colorado, recently, the explorers came upon ground solidly frozen ninety feet from the surface. The question is how the frost got in, as there was no crevice through which the frost could enter.

that by keeping his turning tools constantly wetted with petroleum, he was "took a hand in" to the extent of able to cut metals and alloys with them, several columns, and Punch contributed although when the tools were used without the oil, their edges were soon priate to the occasion. The general turned and dulled. The hardest steel | verdict is that they do, especially durcan be turned easily if the tools be thus | ing seasons like the past, when honey wet with a mixture of two parts of forage is deficient. The remedy sug-

polish, adds very much to its efficacy. among the trees, vines, or shrubs.

Agriculture.

THE PRODUCTIVE POWERS OF A Varrentras has ascertained a loss of I accidentally dropped a grain of corn more than one-third in the weight of a amongst them; at least so I surmise, as might be expected, suffers least from production of one root of wheat when

LINES FOR THREE HORSES ABREAST. -The saving in draught by having the great that three horses abreast will do as much as four in line or two-and-TREATMENT OF SORE THROAT .- In two. In such cases the lines should

THE BREEDERS' LATIN .- One of the great breeders was recently visited by an old college friend, who frequently overtaxed his host's memory by using Latin quotations long forgotten by reason of disuse. One day the great cattle breeder got even with his pedantic guest. Pointing to an immense herd of fine young cattle in prime condition for the market, the visitor said, "You must have had good luck since you commenced this pursuit?" " Yes," replied the host. "It is due to my luck that I can say, 'Hinc illæ lachrymæ,' in looking at my herds." "What do you mean?" asked the astonished guest. "Why, don't you see? 'Hence these steers."

THE SOIL IS ONLY A MEDIUM ID which plant food is prepared and given out on demand. The more thoroughly soil is pulverized, the stronger is the capillary attraction within its pores. As a fine sponge will hold water longer than one of larger tubical structure; so fine soil holds water longer than coarse.

RASPBERRIES AND BLACKBERRIES FROM CUTTINGS .- Dig up the plants to be propagated, late in autumn, with Do. all the roots that can be secured. Cut the roots into pieces about two inches long, and place them in alternating layers with sand or fine moss in a box. Place the box in a cool cellar to prevent growth. Keep the sand or moss moderately damp, long, and place them in alternating layer. Early in spring the cutttings will have well developed buds. Plant them out in drills in rich ground, two inches deep. If well cultivated they will make good plants by autumn. The caps and purple canes do not propagate so well this way as others, and require some artificial heat.

MULCHING STRAWBERRIES .- A New Germany-Adam E. Durland. farmer, becoming tired of keeping his plantation clean, covered the whole surface with straw early in autumn, so as to hide all the plants. In spring, the plants grew up through the straw, sent up a dense profusion of fruit stems, which bore blossoms and fruit. The season was very dry from May to July, but he obtained a large crop of fine berries which sold at 25 cents per quart, yielding at the rate of 100 bushels per acre. Other plantations not mulched gave 20 or 25 bushels per acre.

DO BEES INJURE FRUIT.—There has been a lively war of wods in European papers of late as to whether or not bees A French machinest has discovered injure fruit, especially peaches and grapes, Even "the Thunderer" numerous squibs, more or less appropetroleum with one part of turpentine. gested is the rather expensive one of diverting their minds from the ripening A little alum, dissolved in stove fruit by placing pans of melted sugar

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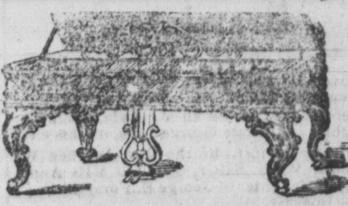
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