The Messenger Almanac.

February.			
First Quarter, Feb. 2, 9h. 39m. afternoon. Full Moon, "9, 1h. 32m. Last Quarter, "17, 0h. 41m. morning. New Moon, "25, 2h, 6m.			
DIN- I SUN.	MOON. Rises. South. Sets.	righ Tide	
1 Tu. 7 23 5 5 2 W. 7 22 5 6 3 Th. 7 21 5 8 4 F. 7 19 5 9 5 Sa. 7 18 5 11 6 SU. 7 17 5 12 7 M. 7 16 5 13 8 Tu. 7 14 5 15 9 W. 7 13 5 16 10 Th. 7 11 5 18 11 F. 7 10 5 19 12 Sa. 7 9 5 20 13 SU. 7 7 5 22 14 M. 7 6 5 23 15 Tu. 7 4 5 25 16 W. 7 3 5 26 17 Th. 7 1 5 27 18 F. 7 0 5 29 19 Sa. 6 58 5 30 20 SU. 6 56 5 32 21 M. 6 55 5 33	10 1 4 51 11 14 10 25 5 41 M. 10 55 6 35 0 57 11 41 7 34 2 15 A. 30 8 38 3 27 1 37 9 43 4 46 2 58 10 48 5 49 4 19 11 47 6 38 5 31 M. 7 15 6 55 0 41 7 51 8 9 1 30 8 5 9 21 2 17 8 25 10 28 3 2 8 43 11 38 3 45 9 2 M. 4 29 9 20 0 43 5 14 9 45 1 50 6 2 10 14 2 52 6 51 10 50 3 50 7 42 11 34 4 41 8 33 A. 25 5 20 9 25 1 30 5 56 10 15 2 34 6 26 11 3 3 40 6 48 11 49 4 50 7 11 A. 34 5 5 7 7 27 1 18 7 9 7 46 2 3 8 20 8 6 2 49 9 32	11 27 M. 0 7 0 53 1 47 3 5 4 45 6 5 7 8 8 0 8 44 9 25 10 3 10 39 11 12 11 45 A. 21 1 5 2 5 3 34 5 12 6 20 7 8 7 46 8 19 8 49 9 19 9 52	

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 minutes

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 12 hours and to the remainder add the time of rising next morning.

BETCHER'S

FOR COUGHS, COLDS, WHOOPING COUGH, ASTHMA, &c.

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 Manfacturer J. W. BETCHER,

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CERTIFICATES.

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 pulmonary weakness which had been preying upon my system for ever 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. W. 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.

JOHN N. DEARBORN. Aug. 12. 1 yr.

CONSUMPTION CURED.

To the Editor of "Christian Messenger," ESTEEMED FRIEND:-Will you please fnform 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.

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AGRICULTURE.

QUICK Soils .- Very sandy and gravelly soils do not hold manure for a succession of crops. They admit of free circulation of warm air through them, which hastens decomposition of organic ma'erial, and will mature plant growth in less time than more retentive soils. They are better adapted to tap- aster at Bremerhaven. It is commonrooted grain and grass than to those of ly called "giant powder," and was infibrous roots growing near the surface. invented by M. Noble, a Swedish chem-Peas, beans and rye are appropriate. ist, in 1866-'67. It consists of nitro-Red clover with a liberal application of glycerine alsorbed by some porus inert gypsum, often does well. Top dress- solid The best material for an abing with straw or other undecomposed sorbent is a silicious infusorial earth manures answers well on such soils, found in Hanover, Germany, and known beause it wards off the direct influence as kiessel guhr. It will absorb and of the sun to dry the surface, holds retain about three times its weight of moisture, and renders its substance slow- nitro-glyceine, and has the appearance ly, and is more lasting than decomposed of damp Graham flour. This form premanure. The finer soil is, the more | vents the transmission of ordinary sudretentive and the longer it will show an den shocks, except under pressure in a application of manure.

VALUES OF MANURES FROM DIFFER-ENT ANIMALS .- We find the following in the Vermont Farmer:

The excrements of the different kinds of farm stock vary widely in value, as the manure from neat stock contains the least nitrogen and more water than that of any other stock. The more nitrogen contained in manure the more rapid its decomposition; hence it is sooner absorbed as plant food. Horse manure is richer in nitrogen than that of neat cattle and contains less water, consequently it decomposes more rapid ly, and its fertilizing elements are sooner taken up by vegetation. It acts immediately, hence its great value for all quick-growing crop-.

The value of manure made from swine varies more than that of any other stock If swine are fed on slops, and potatoes, and apples, the manure is of little value compared with that of those fed on grain, or from the offal from slaughter-houses.

The excrements from sheep contain the most nitrogen, I think manure made from this stock worth nearly twice as much per cord as that made from cows.

with different kinds of manure made from cows, horses, sheep, and swine, applied them on equal plots of land of nearly the same state of fertility, and sowed the field with barley, sowing also one plot of some size without any fertilizer, with the following results:

	Ibs.
Plot without fertilizer	.150
Plot with manure from cows	.167
Plot with manure from horses	220
Plot with manure from swine	200
Plot with manure from sheep	.244

He also had analyzed the excrement of the above-named stock produced from winter feed; 100 pounds of the droppings of cows contained 3 pounds of nitrogen; the same amount from horses, 5 pounds; swine, 6 pounds; sheep, pounds. Of mineral substance, cows, $24\frac{1}{4}$; horses, 30 pounds; swine, 30 pounds; sheep, 60 ponnds. Of potash and soda, cows, 1 pound; horses, 3 pounds; swine, 5 pounds; sheep, 3 pounds. Soluble phosphoric acid, cows, $2\frac{1}{4}$ pounds; horses, $3\frac{1}{2}$; swine, $4\frac{1}{2}$ pounds; sheep, 3 pounds. Would advise to mix the different kinds of mar.ure, forking them over occasionally to prevent them from burning.

HARVESTING OATS .- I have found out accidentally that the best way to save oats is to cut them while the sap is in the straw, (grain in the dough or some in milk) bind, shock (about twelve bundles) and cap by breaking the bundles and laying on top. The past season thoroughly tested it, and saved a few capped as above without mould, when nearly every bundle was mouldy when capped by tying two bundles together and setting buts up, which leads the water through the shock. The reason I assign is, the oats being bound green, the shrinkage of the straw leaves the band loose, so that if they get wet, the strawswells and makes the band so tight that mould is the inevitable consequence, unless opened and spread. I have noticed a few bundles at different times cut when so green that in curing, in the centre of the shock they bleached nearly as white as paper .-Cor. Country Gentlemen.

TREES .- An extensive inquiry has the shaft, have had the epizootic, albeen made in Prussia into the effect though none of them have been above upon the durability of woods of the ground for months. season at which the trees are cut down, In general, the wood felled when the zooty, sap is not running has decided preeminence as to its durability, strength To do business a man must have and density. The heat given out in dollars and sense.

burning word felled in December and January is also, according to these experiments, greater than for woods cut in February and March.

SCIENCE.

DYNAMITE. - Public attention has been called new to this powerful exsoils. Hence they are called quick plosive compound since the recent dis- walist and Evangelist is one of the princiconfined space. The presence of the inert mineral constituents serves also to absorb heat, so that a high temperature cauno be easily imparted to the whole; but when imparted this temperature effects a great expansion of the gases, and increased effectiveness of the explosion. Ignited in the open air dynamite burns quietly with nitrous flames. Exploded (usually by means of fulminating fuse or cap), it gives carbonic acid, nitrogen and hydrogen, and leaves a white ash, with little or no smoke. It has been regarded as the safest of all explosives, not being affected by a prolonged temperature of 100 degrees centigrade. Neither light nor electricity shocks cause it to decompose or explode. The principal dangers connected with its use are those of the strong fulminating powders used in the percussion fuses to explode it. Dynamite, if carelessly made, containing an excess of nitro-glycerine, may, by the latter overcoming the capillary force of comprises selections from the works pubthe mineral particles, collect in dross and settle from the mass, and become a sourse of serious accidents. Moreover, it may be that freezing, or thawing after freezing, has a tendency to segregate the oil: Prof. Draper, in one of his works on popular science, has it, that Noble was led to the experiments An English farmer experimenting from which resulted dynamite by the fearful explosions of nitro-glycerine at Aspinwal, San Francisco, Sydney and elsewhere years ago. After referring to the usual means of exploding, Prof. Draper adds that M. Guyot, a French chemist, has shown that the nitro-glycerine may soak out from the mixture with sand, and saturating the paper of the cartridges and boxes, re-assume the state in which it is readily exploded by a slight blow .- Watchman.

> STOVE FOR BURNING HAY.—Invention has been exercised of late in producing a stove for use in the treeless regions of the North-west, Iowa, and Dakota, in which prairie grass may be used as fuel. At the Dubuque Exposition, held in September, a stove was exhibited which from fourteen pounds of pressed hay made abundant heat, baking and cooking being for thoroughly done in that time.

A CONVENIENT GLUE. - Mouth glue is made by dissolving, with the aid of heat, pure glue, as parchment, glue, or gelatine, with a quarter or one-third its weight of coarse brown sugar, in as small quantity of boiling water as posible. This, when perfectly liquid, should be cast into thin cakes on a flat surface, very slightly oiled, and, as it cools, cut up into peices of a convenient size. When required for use, moisten one end. A piece kept in the desk or workbox is exceedingly convenient.

The original hemlock log foundations of Long Wharf at Boston were unearthed a few days ago, and found to be as solid as when at first put down, 164 years ago.

The citizens of Stockholm, Sweden, appear to be great readers, judging from the large circulation claimed by the ten papers published there. One of them claims a circulation of 75,000, another 65,000, and from these figures down to 20,000, which is the lowest. One of them is 229 years old.

It is said that the mules in the Pennsylvania coal mines, hundreds of feet THE PROPER TIME FOR CUTTING | below the surface and half a mile from

The circus giraffes also got the epi-

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For Consumption

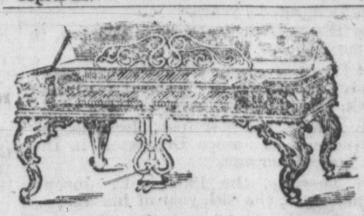
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