The Messenger Almanac.

	August.	•
Last Quarter, Aug. 2nd 2h. 7m. morning. New Moon, "9th, 1h. 3m. First Quarter, "15th, 6h. 14m. afternoon. Full Moon, "2rd, 6h. 56m. Last Quarter, "31st, 5h. 1m.		
Last Quarter, "31st, 5n. 1m. Day SUN. MOON. High Tide		
Ula I SUN.	MOON.	High Tide
W . Rise Sets.	Rises. South. Sets.	at mamax
1 W 4 51 7 21	10 17 4 52 11 51 10 47 5 38 A. 59	11 41
2 Th. 4 52 6 20	10 47 5 55 A. 59	A.17
3 Fr 4 53 7 19 4 Sa 4 54 7 18	11 28 6 29 2 11 M 7 25 3 22	1 57
5 SU. 4 55 7 16	0 20 8 26 4 32	3 12
5 SU. 4 55 7 16 6 M. 4 56 7 15 7 Tu. 4 57 7 14 8 W. 4 58 7 13 9 Th. 5 0 7 11 10 Fr. 5 1 7 10 11 Sa. 5 2 7 8 12 SU. 5 3 7 6 13 M. 5 4 7 5 14 Tu. 5 5 7 4 15 W. 5 6 7 2 16 Th. 5 8 7 1 17 Fr. 5 9 6 59 18 Sa. 5 10 6 57	1 27 9 30 5 33	4 38
7 Tu. 4 57 7 14	2 44 10 33 6 22	5 58
8 W. 4 58 7 13	5 29 4 99 7 31	7 51
9 In. 5 0 7 11	6 55 1 25 7 55	8.38
11 Sa. 5 2 7 8	8 16 2 16 8 16	9 23
12 SU. 5 3 7 6	934 3 6 8 38	10 8
13 M. 5 4 7 5	10 50 3 35 9 0	10 49
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	5 43 10 0 1 14	4 46
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24 Fr. 5 17 6 48	7 8 0 10 5 29	8 12
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26 SU. 5 19 6 44	7 40 1 29 7 34	9 9
27 M. 5 20 6 42	8 0 2 8 8 20	9 38
28 Tu. 5 21 6 41	8 21 2 51 9 42 8 49 3 34 10 47	10.36
29 W. 5 25 6 57	9 23 4 24 11 59	11 6
31 Fr., 5 25 6 35	10 10 5 15 A1	11 41
A STATE OF THE PARTY OF THE PAR		

THE TIDES.—The column of the Moon 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

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.-Subtract the time of the sun's setting, from 12 hours and to the remainder add the time of rising next morning.

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Jan. 10.

AGRICULTURE.

Now for BEDDING .- It is to be taken for granted that every farmer, or one of his sons, or even daughtersfor we have known daughters to graft -knows how to graft, and large numbers employ that knowledge in springtime to put a good head on a wild tree, or to change the character of one to something more desirable. But the spring is generally crowded with work. Few get done what they desired and intended to do; and among the put-off things very likely of all others will be the grafting. Something of this can be made up at this season by budding, or inoculation, as it is sometimes called. It does not find the same favour with farmers as with nurserymen, because no time seems to be gained over grafting the following spring, for the buds put in now do not push into growth till the next spring season. If grafts are put in next year they grow immediately, and make stronger growths and form a good head much sooner than buds put in at this season will. But then there is the question of time. If one waits for spring it may never be done. This is comparatively a season of more leisure, and a tree budded now is done with. It will keep on growing, and certainly will beat the tree that never is done!

Budding is so simple an operation, and has been over and over again described in our columns, that most persons | improbable that the fluid hydrocarbon who are likely to be benefitted by this should be the result of the decomposiarticle know how it is done or ought to | tion of organic remains, for but little orknow. A piece of bark containing a ganic life could have existed in these LATER. A Westport, 2 hours 54 minutes leaf-stalk and the eye at its base is ages. His theory, starting with La-LATER. A Yarmouth, 2 hours 20 minutes simply put under the bark of the stalk place's hypothesis of the formation of our simply put under the bark of the stalk place's hypothesis of the formation of our to be improved, and which has been slit globe, assumes the existence of great and "lifted" or loosened by the back of masses of iron, and, along with it, of a knife for the purpose. After inser- inorganic carbon, in the inner parts of tion the bud is tied firmly in. Anyone can understand this, and only experiment will teach more. But there is one thing which all budders do not understand, and we will explain why even some good hands fail in their work. The branch on which the bud is to go the varieties of hydrocarbons which must be thrifty, vigorous, and in every way healthy, or the buds will not "take." Failure in most cases comes from this. It does not make much difference whether the branch to be operated on is more than one year old, so that the bark separates freely from the wood-as the budders say, "runs freely"-but it is essential that it should be in perfect health. The bark generally loosens freely during the latter half of summer, if in the condition we have described. In regard to the bud it must not be too young. Failure. generally comes from this. There is far less chance of failure with very old buds than with young eyes. All the buds must be of this season's growth .-Germantown Telegraph.

> How RIGHTLY TO APPLY HELEBORE. —The destruction of currant bushes for years past by worms has been the means of enhancing the price of that valuable fruit in most markets, while with a little care it can be cheaply protected. It is a well-known fact that white hellebore is sure death to the currant-worm, but at the same time many will not try it, while others apply it in such a way that it is soon washed off by rains, or only life, and it is the most important questouches the tops and outside leaves, tion in the immediate future. Coal leaving the inside of the bunch of bushes has been tried and has been found for the worm to feed upon. The whole secret is to apply it on the under side cheap fuel is one essential factor in our of the leaves, where the worm fastens to them. To do this I take a piece of gas, cheap non-luminous, heating gas, cotton cloth that the powder will shake through sparingly, about 10 inches square; put in about 4 ounces of the powder, and gather it up around the end of a stick about 3 feet long, and tie on, making a sort of bag at the end. I then make the application in the morning before the dew is off by opening the bunch of bushes and putting the bag end down nearly to the bottom and shake it, the current of air is then upward, and the leaves being damp, the powder sticks on the under side. If the current of air is a little sideways, shake low on the wind side, on the outside of the bunch of bushes. It is not best to wait the appearance of the worm, but doctor the bushes as soon as the blossoms are well developed and the leaves are half or two-thirds grown, and again after the fruit has fairly set. This will of flour allow from two to four ounces usually do the work for the season. The main point is to rightly apply the helebore, and with those hints and a careful attention, with the use of a little judgement, the currant bush can be preserved. We have a row about six rods long that we have preserved for over 12 years, in fine, healthy condition producing from \$15 to \$20 yearly besides what we use, at a cost not to ex-

SCIENCE.

NOVEL JOINT STOCK COMPANY .--Signor Parnetti has been engaged for the last four years in analyzing the dust and debris of the streets of Florence and Paris. His investigations of the debris of the horse-paths proves that the dust contains 35 per cent of iron given by the shoes of the horses to the stones. In the dust from the causeways this eminent chemist finds from 30 to 40 per cent of good glue. Signor Parnetti selected and tested separately the dust from the causeways of the Boulevard des Italiens over a period of two months, which uniformly gave 30 per cent of good transparent glue, it is said, quite equal to Belfast glue. He contemplates placing his discoveries at the disposal of a limited company, with the view of establishing blast furnaces on the banks of the Thames, to recover the iron thus lost, and a large glue works, which, it is thought, will produce more glue from the wasted material than will supply all London for every purpose.—Iron Trade Ex

ORIGIN OF PETROLEUM.—A new theory, based chiefly on chemical considerations, is propounded by Prof. Mendelejeff regarding the formation of petroleum in the interior of the earth. From the fact that in Pennsylvania petroleum occurs in the Devonian and Silurian rocks, it appears to him highly the earth. The water which, from the more exterior regions, penetrates to the molten metal, is decomposed; its oxygen goes to the iron, while its hydrogen unites under the influence of great heat and pressure, with the carbon, to form make up petroleums.

PROPAGATION OF HEAT.—We learn from the Repertoire de Pharmacie that Do., M. Oliver has found that under certain circumstances heat is not propagated by direct proximity. His experiment was thus conducted: A bar of steel of certain dimensions being selected, the operator places one hand over the center of the bar and the other over one of the extremities. The other extremity is then heated by rapid friction with energy. At the end of a few minutes the further extremity of the bar becomes so hot as to compel the operator to remove his hand, while his other hand, which had been placed over the middle of the bar (and consequently, nearer to the extremity warmed by friction,) perceives no heat whatever.

THE FUEL OF THE FUTURE.-The abundance of coal is questionable. Its cheapness is only apparent and not real, sible for any remedy to attain. A few years since it was known only to the friends and neighbors and patients of the and the question now raised is weather coal is either scientifically or commercially the best fuel. The question involves matters of the widest interest both in trade, manufacture and domestic wanting. It is not a cheap fuel, and a civilization. The fuel of the future is delivered in pipes at every shop and house - Charles Bernard in Scribner's.

The inhabitants of the droughty regions of California are reported to be leaving, with whatever they can take with them. This hegira to other parts at once what the best medical practitionof the state has caused a great depression in the price of labor, as hundreds of half-starved laborers are only too glad to work for their board. A few more such droughts in California and tor's bills; we carry contentment and grasshoppers raids on this side of the mountains, ought to be sufficient to convince people that there are desert places on this continent, as well as else-

HIGHLAND Scones.—To one pound of butter or lard, as much hot milk as will make dough of the flour, and two beaten eggs, if the cakes are wished to rise. Handle quickly, and roll out and cut in any shape or size wanted. Bake on the griddle or in a thick bottomed frying-pan. Must be served hot and eaten while fresh.

A horse who lays back his ears and ceed \$1 per rod .- Cor. New York Tri- looks lightning when any one approaches him is vicious. Don't buy him.

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The proprietor of this medicine has walked the aisles of the Hospitals of London, Eng., for the past twenty years, making rheumatism a speciality, and the prescription from which this remedy is all he ever used in the treatment of this June 15, 1876.

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