

## THE MEAT OF THE SUN.

Properties and Facts About Our Country That Are Interesting:  
We can measure the quantity of heat that the sun occupies, because we can measure the amount received by our earth, which interests about 8,000,000,000 parts of all the light that goes out by the sun.

Thus find that in every second of time there can exist an infinitesimal result from the combination of 11,000,000,000 tons of heat. It may be interesting to the reader to know that each portion of the sun's surface at least as our earth emits as much heat per second, as would 1,000,000,000 tons of coal instantly transformed into heat—a relative amount easily remunerated.

Now if it is easily calculated, from this that the sun's whole mass consists of heat, and could burn up until the time when the very last ton were consumed, maintaining until then the rate of incineration now kept up, the supply would not possibly last over 2,000 years.

As the sun has most certainly been emitting light and heat for a period past—I will not say how many—times longer than this, the idea that the great star is kept up by such fuel as is out of our power to conceive.

There are many other reasons for supposing this, that the sun is composed of incandescent matter, using the word "burning" in its proper sense, emitting thereby anything that is being consumed, according to which a piece of coal in a furnace would be burning, whereas a piece of iron which is red hot is not burning, though burning hot.

In like manner we find ourselves compelled to believe the belief that the sun, as is usually called, at some remote epoch in existence had through either its own inherent power or the influence of some external force, started into motion. What it would not be possible for any known material or material to be brought up to such a terrible heat has been proven by an astronomer who was working out for the purpose of making experiments.

He turned his instrument upon the sun but stuck it fast from the furnace and then opened the sun. The result was that the sun's heat was found to be 80 times hotter than the hottest steel and 3,000 times as bright. If the sun were a "burning" star, it is evident of course that it would have to be more than the sun has, because it has not been proven that it has cooled at all. We have evidence that he has passed his hot stage the world during periods compared with which the duration of the human race is but a second amid centuries, while the duration of the human race is probably lost by comparison.

—Sir George Stokes, C. B.

In the days when Lord Byron was riding several other foul things over there an American drummer from Vermont was doing the country. He was near the battle of Marathon in 1824. When the fight was over the American was buried over the battlefield in search of relics. He came upon a live infant playing among the slain. The glory of death was in the face of the child. It was a curious find in such a place. Who would have expected to find it? No one measured the species of the American. It needed attention and the Vermonter plucked it up, carried it to America, raised and educated the child of the field of Marathon. The name of the Vermonter was Miller. The child of Greece was given him. This child of Greece is the number of immigrants from the Orthodox district—Lemuel M. Miller.—Chicago Tribune.

Bathing on the Road.

Bathing on a railroad is delightful in August, when the railroads are rock-bottomed, and raised with heavy steel, but not wet you are apt to get more than bath when you take a tub to the cause of an average journey. The road edge and side along, and you feel your way impulsively to the tiny hollows. There is a tub of water, which is narrow and deep and narrow, like a barrel that the vessels we use in our houses. Ten to one, as you sit beside the apparatus to undress the car will strike a sharp curve, and all the water in the tub will leap out and dash you from head to foot. If you escape that luck and get into the tub the horses and the car are certain to start, and in an instant you find yourself in an empty receptacle, while your stockings are floating around in the tub, which has covered the floor.

—New York Sun.

We regard the All-American.

"That little boy of yours is not adapted for the undertaker's business," said an undertaker to the boy's mother, who inquired why he had been discharged.

"What's the matter with him?"

"He has a really sound sense of what is due the afflicted. Day before yesterday Mrs. Brown buried her fourth husband. I sent him a telegram and he learned what love she wished, the permission to kiss plain, and he asked what her regular time of day was for burying her husband. I expect to lose our system entirely."

—London Times.

**Eastern Trees in California.**  
California is almost destitute of the trees and shrubs which furnish the best and most valuable kinds of eastern timber and lumber. The eastern woods are filled with valuable species, however, have imported from the east the annual demand, notwithstanding that they are free, red and white oak, etc. They are all growing satisfactorily to various parts of the state. In autumn they are especially attractive, making charming bonfires in winter, making charming bonfires in winter, with evergreen palms, magnolias, orange trees, mulberries, etc., etc.

The remarkable traditions of China go back to 2,000 B.C. Little is known of their early history, the first historical record of history and of the government and law of the ancient monarch begins with the Emperor Yao 2,000 years

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