CONDITION OF WORKINGMEN IN MICHIGAN.

Michigan has just completed a most interesting in- labor organization been of any financial benefit to vestigation. A personal canvass has been made of you?" and only 1,212 persons were willing to reply to 8,838 workmen in 201 shops and manufacturing institu- the question, 778, or 64 per cent, of these answering tions in 25 villages and cities. The industries covered yes, and 434, or 35 per cent, saying no. in the investigation were manufactories of agricultural implements and iron-working establishments, and the 27 per cent, work at hand work, and 5,816, or 65 per cal forests, where it travels for many miles merely by information was obtained. not by sending out blanks nor by special canvassers, but by the regular employes of the Bureau of Labor, who visited each workman in person and secured the facts desired. When it was necessary each question was fully explained to the person interrogated, in order to place him in a position to give an honest and intelligent answer.

In the industries canvassed the best of feeling is reported as existing between the workmen and proprie- the horse as a contemporary has been a disputed tors. With the exception of the carpenters' strike in point. This question may now be considered set at Detroit, there were no serious labor troubles in Michi- rest by the discovery of a skull of an extinct species of gan in 1890, and the good feeling now prevailing prom- horse in strata with human implements. This disises to continue.

United States and 43 per centin foreign countries. The ment of Science, held in Washington the past month total amount of earnings for the year was \$4,127,591.20, average per man \$467.02. The lowest annual wages was \$312.46, and the highest \$653.54. The average ters of the teeth and who stated it would be impossible weekly wages of married men is \$11.50, single men \$8.12, all employes in the canvass taken together, both the quagga and zebra if the three were all thrown tomarried and single, \$10.06 per week, or \$1.67% per day.

There is no "child" labor in the industries canvassed, but 235 boys are employed between 11 and 15 years of is no doubt the skull represents an animal different age. According to law, all boys under 14 years of age from any now living. That it was a horse, however, are prohibited from working more than 9 hours a day and must attend school 4 months in the year. The total The most curious thing about the skull was its confamily expenses for the year is given as \$2,550,521, dition. The frontal bone had been crushed in exactly making per capita \$122 48. Scotchmen, Englishmen, as we see in the case of animals slaughtered for food. and Americans in the order named are the best livers, The friable bones protecting the eye sockets! were inand have the highest per capita of family expenses. tact, as were also the long nasal bones. Found in the The Polanders and Germans spend the least money.

employes own homes, of which 2,242 are married men, hand of man. the percentage of married men owning their own homes being 46. The Germans are the home-owning nationality. The percentage of those who own their house able that early man on this continent had been conand lot is 37, Hollanders 35 per cent, Irishmen 33 per temporaneous with a horse, though not the present cent, Scotchmen 30 per cent, Polanders 28 per cent, living species, but no direct proof had hitherto been Englishmen 25 per cent, Americans 22 per cent, and found. When Europeans landed on the new contin-Canadians 18 per cent. The total value of homes is ent, the horse was an unknown animal to the natives. \$3,055,965—which gives an average value for each So it had evidently long been extinct. All the horses home of \$1,312.70.

are mortgaged, which is 58 per cent. The total value But here we had evidence in the association of a huof the mortgaged homes is \$1,630,360, amount of mortgages \$614,485, which is 37 per cent of the valuation. In the towns and cities outside of Detroit the average age of those who own homes and have them paid for is 41 years.

The average weekly wages of those employes outside of Detroit who own homes upon which there is no incumbrance is \$12.29.

and improvements upon homes amounting to \$175,470, Were they wild or domesticated? and 2,477 saved \$329,880 in money; 264 of the 1,390 who made payments and improvements on homes also saved other purpose than as food, and that they existed only money and are included in the 2,477 above stated. The in a wild state, for it is scarcely reasonable to suppose total number of persons who saved something during that having once been used by man and so domestithe year, including payments and improvements upon cated, their use would ever have been forgotten or the homes and money, is 3,603, which is 40 per cent of the total employes canvassed.

reporting) is \$3,461,164, average \$950 98. Eighty-eight use of the bison by the Indians of North America. employes are reported to be worth over \$5,000.

carry life insurance, which is 23 per cent of the total tive work that the bison began to disappear. employes. In Battle Creek 51 per cent of the lives of the workmen are insured, and the amount for which all the horse? The age of the beds in which the remains the workmen canvassed are insured is \$1,945,706; aver- are found is prior to the Ice Age that once prevailed in and that they all belonged originally to the same indiage \$1.488 80. Two thousand two hundred and forty- North America, and in this period of cold it is possible vidual—a question to be settled only by direct comthree, or 25 per cent of total employes, belong to benefit societies paying an average weekly sick benefit of \$6.41. horse. The intense cold coming on forced the animals

Among the questions asked the workmen by the rep-The Bureau of Labor and Statistics of the State of resentatives of the Labor Bureau was this: "Has your

Two thousand four hundred and twenty-one men, or

Prehistoric Man and the Horse in North America. The genealogy of the horse has been most admirably worked out in various publications, and the fact has long been established that the genus originated on the North American continent. The question, however, as to whether prehistoric man in America had covery was announced by Prof. E. D. Cope, at the Of the 8,838 employes, 57 per cent were born in the meeting of the American Association for the Advance-(August). A skull of a horse was exhibited to the members by Prof. Cope, who pointed out the characfor any one to separate the fossil teeth from those of gether. In minor characters, such as those of the size of the bones, the differences are perceptible. So there any one could see.

same bed with the skull was a stone hammer that Two thousand three hundred and twenty-eight bore evident marks of having been fashioned by the

What inference was to be drawn from this? In the first place it has been suspected and considered probnow found in either North or South America came One thousand three hundred and forty-two homes from stock originally brought over by Europeans. man implement and a horse's skull that man and horse had lived together : and the peculiar fracture of the skull of the latter leads to the belief that the animal had met its death at the hands of man.

This fact opens several questions. What became Were they exterminated by savage man as civilized man has exterminated the bison? Did they once serve During the year 1890, 1,390 employes made payments as beasts of burden or were they used only as food?

It seems probable that they were not used for any breed allowed to die out. Neither is it probable that they were exterminated solely by the agency of con-The total present worth of 7,474 employes (1,364 not temporaneous man, for we know that in spite of the their numbers did not decrease to any great extent. lot described by Dr. Leidy, in 1853, and now in a mu-Two thousand one hundred and sixteen workmen It was only when civilized (?) man began his destruc

What, then, was the cause of the disappearance of we have a factor to account for the extinction of the parison.

The Latest Facts about the Megalonyx. BY H. C. HOVEY.

Perhaps the most grotesque of all living animals is the sloth of South America. Buffon and Cuvier thought Nature must have made such an animal merely to "amuse herself." It can neither walk nor stand; but it is perfectly at home amid tangled tropicent, at machine work, and 601, or 6 per cent, at both. swinging from bough to bough, while feeding on the foliage. When weary, it curls up for sleep in the fork of a tree. Unless attacked, it is a harmless creature; but when put on the defensive, its great claws are dangerous weapons.

Extinct sloths have been found larger than the elephant, and so numerous that Darwin describes the whole area of the pampas of Uruguay as "one wide sepulcher of these gigantic quadrupeds." These are known to the maturalist by the names Megatherium. Mylodon, and Skelidotherium, of which there are several species, with whose habits and peculiarities we are not concerned in writing this article.

What we have now to deal with is the giant sloth of North America, first described by President Jefferson, and named by him the Megalonyx, on account of its enormous claws. The typical specimen was found in some one of the fifty caves in the Greenbrier valley of West Virginia, and its huge bones are now in the cabinet of the Academy of Natural Sciences at Philadelphia. Other specimens have since been found in the White Cave, half a mile from the Mammoth Cave, Ky., at Big Bone Lick, Ky., at the mouth of Canoe Creek, Ky., in the vicinity of Millersburg, O., in McPherson Co., Kansas, in a locality in Mississippi, and in Big Bone Cave, Tenn. These specimens have been very fully described by Dr. Harlan, Prof. Leidy, Prof. Cope, Prof. Claypole, Prof. Orton and others.

The latest contribution to Megalonyx literature is from Prof. J. M. Safford, of Vanderbilt University. Tenn., whose communication to the Geological Society of America, at its meeting in August, 1891, was especially interesting, because he exhibited what had never previously been found, namely, the pelvis of the Megalonyx Jeffersonii, along with other bones, from the Big Bone Cave, of Tennessee. These relics were purchased from the owner, Mr. A. J. Denton. and now belong to the Vanderbilt University.

They were found in the cave already named, at the foot of the western slope of the Cumberland mountain. at a point midway between the towns of Sparta and McMinnville. They were discovered in 1884 by a laborer who was digging for bat guano, covered to the depth of three feet, and lying in such a position as to show that they had never been disturbed. The head, vertebrae, and hip bones were lying as would have been necessary after the decay of the animal, and showed it to have been eight or nine feet long. The general form of the pelvis of Megalonyx strongly recalls the broad of the race of horses that once lived on the continent? hip bones of the Megatherium; which is what we should expect, considering the affinity of the genera.

> These bones are in various degrees of preservation. Some have lost one or more epiphyses. On some, portions of cartilage and tendons yet remain. The latter is a feature of great interest, agreeing with the similar condition of the bones found in the White Cave of Kentucky, and proving that the animal existed in very recent geological times, and was probably contemporaneous with the primitive men of this continent. Many of the bones have been more or less gnawed by rodents.

> It is a curious fact that, in their condition and state of preservation, these bones resemble those of another seum at Philadelphia; being also from the same cave. In enumerating the bones of the two lots it seems probable that those described by Dr. Safford really supplement those described and figured by Dr. Leidy,

It may be added that Big Bone Cave is of large size, One thousand and forty-six foreigners brought money to migrate from their homes in the northwest of the and once contained much saltpeter earth. In 1811-12 with them when they came to the United States United States, and retreating southward, they prob- much of the most accessible of this material was dug The out and leached to make the salt peter It was at the a village grew around the mouth of the cave. It was during this early period that the large bones were found that suggested the name by which the cave has been known ever since.

amounting to \$176,354 : average \$168.57. Total present ably found many competitors for existence. worth of foreigners, 3,293 reporting, \$2,693,610; average scanty vegetation of New Mexico, Arizona, and time an important industry, in pursuit of which quite \$817.98. Total increase over the entire amount brought Northern Mexico probably did not suffice for the supto this country, 1527 per cent.

Three thousand six hundred and twenty-seven per- north. New conditions of existence may have weakened sons own sewing machines, which is 69 per cent of those the vitality of the species; starvation may have deciwho support families. One thousand eight hundred mated their numbers; competition with other races and seventy-five own musical instruments, which is 21 per cent of total employes. Number of musical instru- of man may have hastened the struggle to its inevitments owned, 2,046, of which 709 are organs, 314 pianos, able end. All we know, however, is that the race construction, exclusive of armament and of torpedoes and 299 violins.

There were found to be 5,949 persons who took newspapers and magazines, which is 67 per cent of all the That he lived at the same time with a species of horse employes canvassed. In the city of Tecumseh 87 per is made known by the discovery of Prof. Cope. His take newspapers and magazines. The number of newspapers and magazines taken among the 8,838 workmen is 9,924, as follows: Dailies 5,103, or 51 per cent; story papers 443, or 4 per cent; magazines 343, or 3 per cent. Only about 5 per cent of the workmen cannot read or write.

port of the great herds of animals coming from the

must have cut off a large supply of food, and the hand became extinct. That man lived previous to and of course during the Ice Age is now well established.

mammals at one time inhabiting North America is as JOSEPH F. JAMES. yet undetermined.

Washington, D. C.

FOR a good stove polish in the form of a powder, use good quality plumbago, applied with a stiff brush.

A New Twenty-Four Knot Torpedo Boat,

Bids were opened at Washington, August 26, for the and their appendages, of a steel twin screw sea-going torpedo boat of not less than 120 tons displacement. The vesssel is, in all its parts, including shafting, to be of material of a domestic manufacture. It is also cent of the employes covered by the investigation influence in the extermination of many of the large provided that the speed developed by the vessel shall be not less than an average of twenty-four knots per hour, maintained successfully for two consecutive hours. There were but two bids submitted, and they were for department plans. They were: The Cowles Engineering Company, of Brooklyn, N. Y., \$117,490, and the Iowa Iron Works, of Dubuque, Iowa, \$113,500.