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## THE NATURAL HISTORY OF *COSSUS CENTERENSIS*.

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Although *Cossus centerensis* has only recently been discovered, it must have existed for many years in the vicinity of Center, N. Y., its present home. More than twelve years ago, while riding in a Central R. R. coach, I noticed certain species of Poplar, the central shoot of which had perished from causes then unknown; later, while on an Entomological tour near the same place, I found a group of the *Populus tremuloides* which were similarly affected, as were also many other trees of the same species in the vicinity.

On closer inspection many perforations were found in the trunks of these trees, some of which were of recent origin, but nothing then was discovered to explain the cause and consequent unhealthy condition of this species of timber; several times each year afterwards this group of Poplars was examined, but nothing definite was learned until during the month of July, 1876, when a brittle pupa-case was found protruding from one of these openings. This gave a clue which revealed the true nature of the destroyer of this woody growth. On the 10th of June, 1877, a fresh pupa-case was discovered, removed and examined, but the *Cossus* could not be found, although probably resting upon the tree at that time.

It now remained for the youthful and keen eyesight of my son, Theodore P. Bailey, to discover the imago. The facts as related were communicated to stimulate him to vigilance, and the trees were examined daily, every foot of them being closely scrutinized. June 14th of the same year he found a fresh pupa-case, and but a short distance from it a male *Cossus*, which had apparently just emerged. This insect was given to Mr. Lintner, who subsequently described it in the CANADIAN ENTOMOLOGIST. I am now enabled to add a few facts in reference to the natural history of this borer, to give a description of its earlier stages