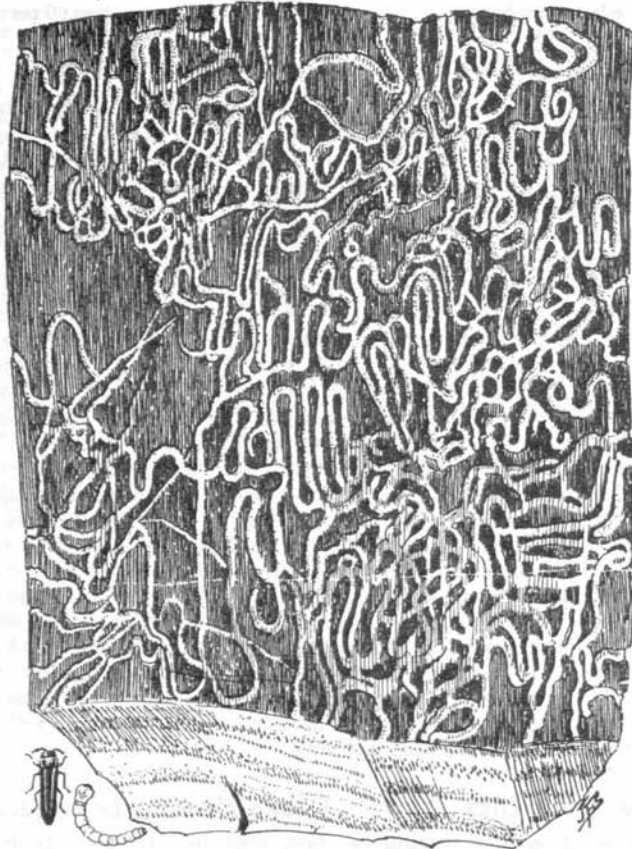


Hickories and Oaks on Golf Courses Killed by Insects

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During past years a great many hickory and oak trees in the north-eastern and eastern United States have died from attack by insects. Doubtless, many trees have died on certain golf courses. Wherever the trees



Work of the two-lined chestnut-borer, an enemy of oak and chestnut trees. Section of wood from main trunk of a dead chestnut, showing the larval mines of the outer surface.

begin to die they should be examined for evidence of the presence of the destructive insects.

The following, from a folder issued in 1918 for information of property owners on Long Island, New York, will give some of the essential information:

THE DYING HICKORIES

Cause

The hickory barkbeetle is the most destructive insect enemy of the hickory trees in the eastern United States. It has killed tens of thousands of trees. Its destructive work is plainly indicated by the fading and dying foliage in August and September. Its presence is positively identified by the peculiar centipede-like galleries in the inner bark and grooved on the surface of the wood.

Remedy

Look for and mark the hickory trees that die during the summer and fall. Cut the marked trees during the fall and winter and utilize them for fuel or otherwise, or pile and burn them. Do this work between November 1 and June 1, and cooperate with your neighbors in making a good job of it. If this is done it will save the hickories. If this is not done, practically all of the hickory trees may die within a few years.

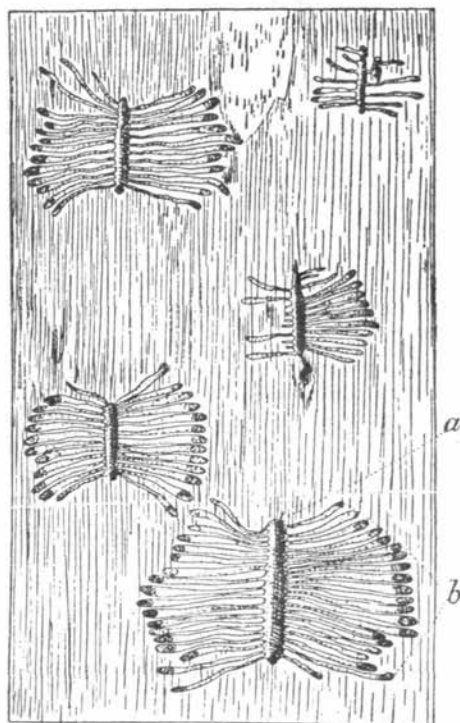
THE DYING OAKS

Cause

The two-lined chestnut borer is the most destructive insect enemy of the oak trees of the eastern United States. It has killed tens of thousands of oak trees after they were defoliated by the canker-worm, forest tent-caterpillar, gipsy-moth, etc. Its destructive work is plainly indicated by the failure of defoliated trees to put out new foliage in August and September. Its presence is positively identified by the peculiar small winding mines through the inner bark and grooving the outer wood.

Remedy

Look for and mark the oak trees that die during the summer and fall. Cut the marked trees during the fall and winter and utilize them for fuel or otherwise, or pile and burn them. This work must be completed by the time the new leaves begin to unfold on the white oak, or by the 10th of May. Cooperate with your neighbors in making a good job of it. If this is done it will save the oaks. If this is not done, practically all of the oak trees may die within a few years.



Work of the hickory bark beetle on surface of wood beneath bark. a, Primary gallery; b, larval mines.

The Green Committee of the United States Golf Association is always glad to publish items showing how work around courses can best be done.