



Some other common names for the mountain oak longhorned beetle include the deep mountain longhorn beetle and the oak longhorned beetle. This pest is a polyphagous pest of forests and deciduous trees in central Asia.

Information sources: 3, 4, 5, 6



The mountain oak longhorned beetle only occurs in Asia including China, Japan, Korea, Taiwan, Vietnam, and Russia. It has recently received attention due to the risk that it will spread to other parts of the globe. *Massicus raddei* has not yet been detected in the United States. Furthermore, no species of the genus *Massicus* is known to occur in the United State.

Information sources: 3, 4



The mountain oak longhorned beetle is a major pest of oaks and chestnuts in Asia but it has been noted on some other hosts. The beetle larvae were most often found in trees with trunks larger than 9cm in diameter. Most literature suggests that's the larvae target mature hosts and rarely attack younger trees.

Primary hosts: oaks (Quercus), chestnuts (Castanea)

Other Hosts: Castanopsis cuspidata, Castanopsis cuspidata var. sieboldii, Morus sp., Paulownia sp.

Information sources: 4



The major damage to the tree results from larvae feeding on the phloem. The mountain oak longhorned beetle larva create galleries in plant tissues. Adults will also feed on the sap flowing from the wounds they inflict on the branches. As a result, the trees can experience crown dieback. According to the literature, it is unsure whether or not this will cause eventual tree death. Nonetheless, it will make the host more susceptible to secondary pests. Furthermore, the pest is not known to transmit diseases between hosts.

Information Sources: 3, 4



Adults are 3-5cm in length which is larger on average than most other longhorned beetles. The antennae are much longer than the body.

Larvae are whitish in color and can grow up to 8cm in length.

Information sources: 3, 4, 5



Studies in China have concluded that the mountain oak longhorned beetle completes one generation every three years. Adults will emerge in mid-July to late August and can live up to 20 days. In September, the larvae will complete 6 instars in a period of no more that 1021 days. Larvae will overwinter during the first year as 2<sup>nd</sup> or 3<sup>rd</sup> instars, the second year as 4<sup>th</sup> and 5<sup>th</sup> instars, and the third year as 6<sup>th</sup> instars.

Information sources: 3, 5



Most controls is cultural involve phytosanitary measures. This includes monitoring nurseries and trees frequently and cutting and burning extremely infected trees. Any wood from an infected host should be burned. If wood is to be moved, it should be inspected by debarking ahead of time. International movement of untreated wood could lead to he spread of the pest to more areas of the world.

As far as biological control, *Dastarcus helophoroides* is a known parasitoid of the mountain oak longhorned beetle later instar larvae in China. Also, *Sclerodermus pupariae* was also noted in several studies as a parasitoid for the younger larvae of this pest.

Information Sources: 1, 2, 5

Name 1 is in the second seco	Suspect Sample Submissions
	<ul> <li>Contact your State Department of Agriculture or University Cooperative Extension laboratory         <ul> <li>http://www.npdn.org/home</li> </ul> </li> <li>PPQ form 391, Specimens for Determination         <ul> <li>https://www.aphis.usda.gov/library/form s/pdf/PPQ_Form_391.pdf</li> </ul> </li> </ul>
An example of a PPQ form for sample submissions Image credits: https://www.aphis.usda.gov/library/forms/pdf/PPQ_Form_391.pd	er protect u.s.

If a suspect pest has been located in the United States, a sample should be submitted for proper identification. Contact your local diagnostic lab to ship in a sample for identification. Information regarding your local diagnostic lab is available at National Plant Diagnostic Network (NPDN) website. The diagnostic lab information and available contacts are divided by state.

http://www.npdn.org/home

The sample specimen should be submitted along with accompanying documentation using the PPQ form 391.

## https://www.aphis.usda.gov/library/forms/pdf/PPQ Form 391. pdf

Your local diagnostic lab is part of your local cooperative extension service or your state department of agriculture. Your local lab will also have a specific form. All local labs may not be a member of NPDN. However, all labs should report new pest and pathogen detections to local regulatory officials.



Remember that new pest and pathogen records must be reported to your State Plant Health Director (SPHD) and your State Plant Regulatory Official (SPRO). The SPRO is a State Department of Agriculture Employee and the SPHD is a USDA-APHIS-PPQ employee.

The link to your SPRO is on the National Plant Board (NPB) website. It has an interactive map and when you click on your state it will take you to another page with contact information. The NPB is a cooperative organization that includes membership from all State Departments of Agriculture.











