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## Online tools for identification of wood boring insects

Most online identification tools for wood-boring insects apply to adult insects, and mostly to beetles. However 1.a. provides a pictorial key to identification of beetle larvae to the family level.

1. This website is an excellent resource for wood boring beetles from many parts of the world. It provides links to many identification keys and other information:  
<http://wbbresource.org/default.asp?action=tool&id=all>.

Particularly useful for identifying intercepted LARVAE in ISPM 15 materials is an existing key to wood-boring beetle families (a), and a key to adult Cerambycidae (b) that will soon add a key to larvae:

- a. Pictorial key to larvae and adults of wood-boring beetle families:  
<http://idtools.org/id/wbb/families/index.htm>.
  - b. This pictorial key to adult Cerambycidae and relatives,  
<http://cerambycids.com/longicornid/>, will soon add a larval key to subfamilies and some genera. The target date to launch the larval key is November 2016, but it will likely be delayed by a few months.
2. This website has images of many forest pests, including insects, fungi, and weeds:  
<http://www.forestryimages.org/pests.cfm>.
    - a. The wood-boring insects are at this link:  
<http://www.forestryimages.org/browse/catsubject.cfm?cat=7> .
  3. This pdf has useful information and images of wood-boring insect pests (beetles and wood-wasps) from the Programa de Sanidad Forestal: Area Entomología técnicos en Viveros y Plantaciones, by Dra. Liliana Diodato of the Facultad de Ciencias Forestales - fcf.unse.edu.ar:  
<http://ecaths1.s3.amazonaws.com/sanidadforestal/1734272700.Sanidad%20TEMA%206xilofagos.pdf> .
  4. The Invasive.org website has excellent images of
    - a. Adult Siricidae <http://www.invasive.org/browse/taxthumb.cfm?fam=455>
    - b. Adult and larval Cossidae <http://www.invasive.org/search/action.cfm?q=Cossidae>
    - c. Adults and some larvae of Sesiidae  
<http://www.invasive.org/search/action.cfm?q=Sesiidae>
    - d. Bark beetles <http://www.invasive.org/browse/catsubject.cfm?cat=4>

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