United States Department of Agriculture

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FORESTRY/WOODLAND TECHNICAL NOTE NO. NM-47

SUBJECT: ECS – Integrated Pest Management Guide for Ponderosa Pine

Purpose: To provide information on two common *Ips* bark beetle species that are destructive to pole-size ponderosa pines in Arizona and New Mexico.

Effective Date: Effective when received.

Filing Instructions: Forestry/Woodland Technical Notes are accessible online at the NRCS New Mexico Technical Resources website: http://www.nm.nrcs.usda.gov/technical/tech-notes/forestry_wood.html

Background: This guide summarizes technical information in publications, observations of pest management specialists, and unpublished tree loss data on the Arizona five-spined ips, *Ips lecontei* and the pine engraver, *Ips pini*. This guide presents the most important facts about these beetles and their management, and serves as a reference tool to forest managers. The guide discusses prevention and suppression measures to control or manage an outbreak through utilization, timing of management activities, slash disposal, removal, solarization, insecticides, and other methods.

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