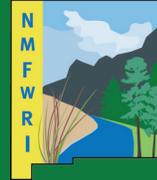


Piñon Pine Bark Beetle Signs & Symptoms



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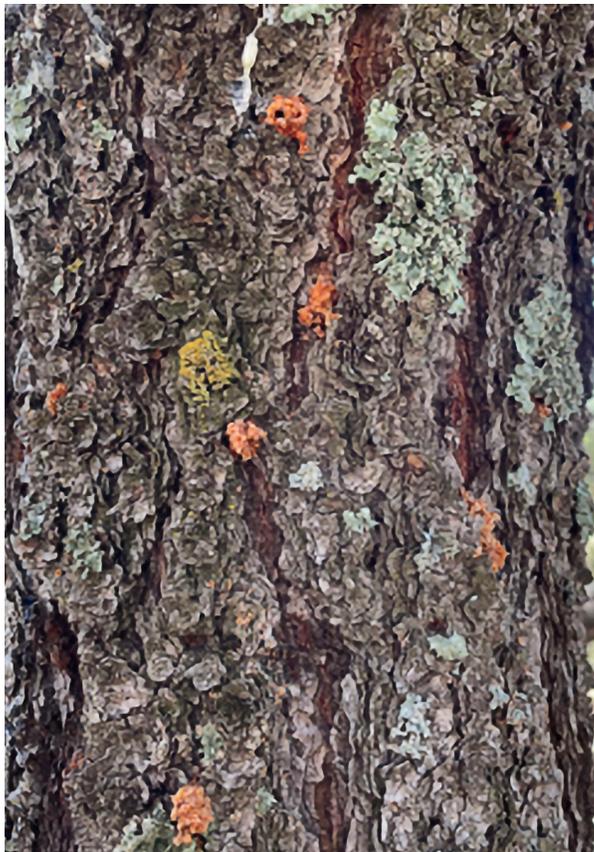
Above: Fading trees attacked by Piñon *Ips* bark beetles. Below left: Feeding gallery of Piñon *Ips* and Y shaped egg gallery of Piñon *Ips* (below right). Photos this page courtesy of Victor Lucero.



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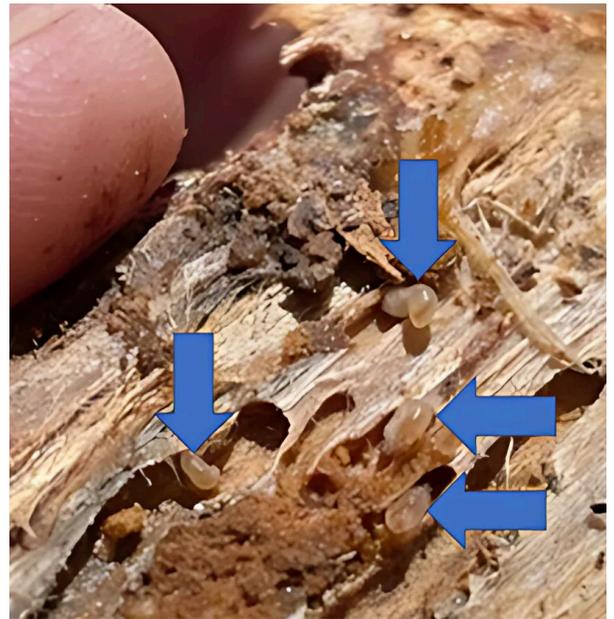


Above: Egg gallery (blue arrow) made by a female. Beetle grubs (red arrow). Photo courtesy of Steven Souder, USFS.



Above left: Piñon *Ips* pitch tubes and boring dust (right). Photos courtesy of Victor Lucero.

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Left: Close up of eggs (orange arrows). Above: Beetle grubs (blue arrows). Photos courtesy of Steven Souder, USFS.

Right: Callow adult *Ips* beetles (orange arrows) within inner bark of infested piñon pine. Photo courtesy of Steven Souder, USFS.

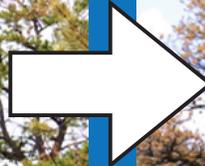
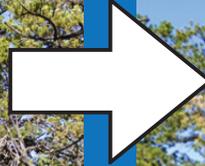
Below: Overwintering piñon *Ips* in tree bark. Photos courtesy of Victor Lucero

Bottom right: Piñon *Ips confusus* is 3-6 mm long and has 5 spines. Photos courtesy of Pest and Diseases Image Library, Bugwood.org



PIÑON PINE DECLINE

progression of decline from Piñon *Ips* (*ips confusus*) attack



Photos courtesy of Steven Souder, USFS

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