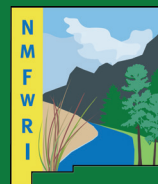


Ponderosa Pine Bark Beetle Signs & Symptoms



New Mexico
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Above: *Ips pini* (left) actual size 3-5mm, *Ips calligraphus* (right) actual size 5mm. Photo courtesy of Victor Lucero.

Right: Fading Ponderosa pines. Photo courtesy of A. Steven Munson, USDA Forest Service, Bugwood.org.

Below: *Ips pini* adults and larvae under ponderosa pine bark. Note engraving of sapwood. Photos courtesy of Victor Lucero.



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**DID YOU KNOW?
BARK
BEETLES
ARE PHLOEM
FEEDING
INSECTS.**



Above: *Ips* larva, pupa, and adult. Left: Boring dust on ponderosa pine bark. All photos this page courtesy of Victor Lucero.



Above left: Pitch tubes on ponderosa pine (*Ips* spp.). Above right: *Dendroctonus barberi*.

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DID YOU KNOW?
THE RED TURPENTINE BEETLE IS THE LARGEST (D. VALENS) (6-10MM) AND MOST WIDELY DISTRIBUTED BARK BEETLE IN NORTH AMERICA.

Above: Photo courtesy Donald Owen, California Department of Forestry and Fire Protection, Bugwood.org.



Above: Red turpentine beetle pitch tube. Above right: Red turpentine beetle larvae. All photos this page except very top photo courtesy of Victor Lucero.

Right: *Ips* spp. and *D. barberi* (below) galleries on ponderosa pine.



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Above: Blue stain fungi. Right: *Ips pini* brood (eggs, larvae, adult) collected from felled PIPO logs (top right). Photos courtesy of Victor Lucero.



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Above: Fading ponderosa pine trees due to bark beetle attack. Photo left courtesy USDA Forest Service - Coeur d'Alene Field Office. Photo right courtesy of William M. Ciesla, Forest Health Management International, Bugwood.org

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