

# PIÑON PINE BARK BEETLE SIGNS & SYMPTOMS

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**Fading trees (above) attacked by Piñon Ips bark beetles.**



**Y shaped egg gallery of piñon ips (left). Feeding gallery of piñon ips (right).**

**A**



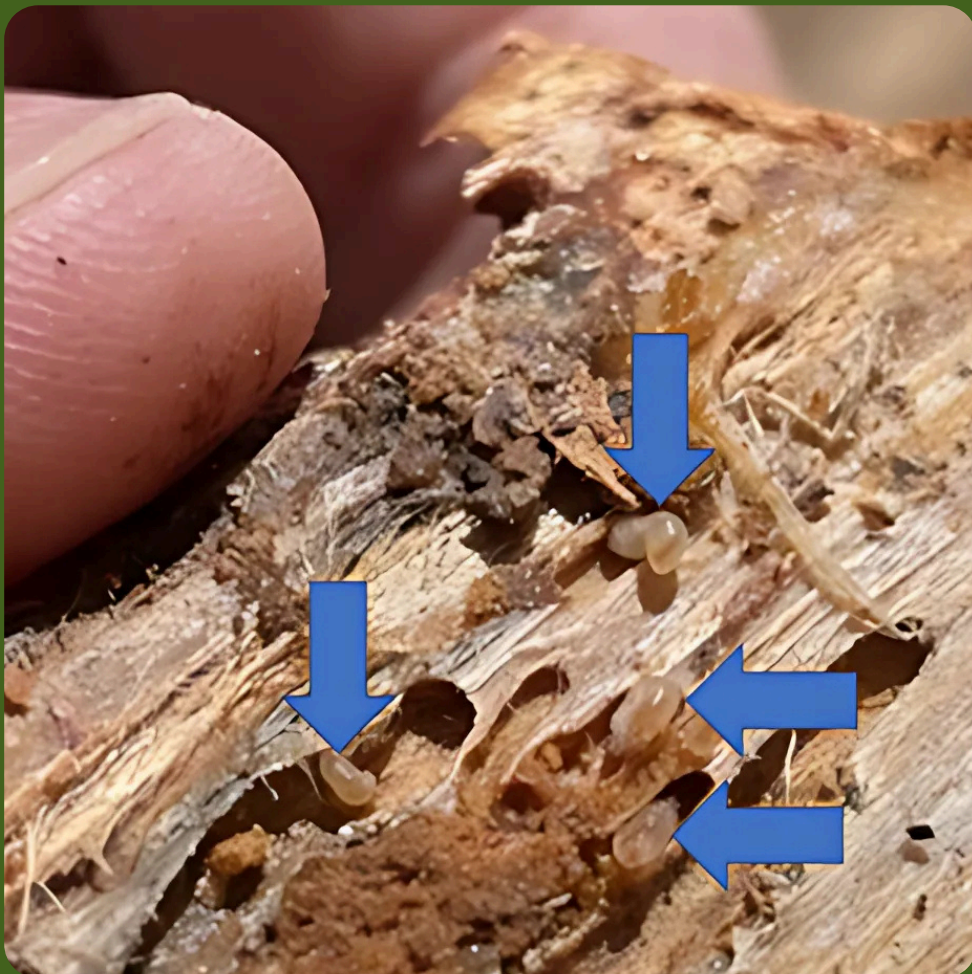
**Egg gallery (blue arrow) made by a female. Beetle grubs (red arrow).  
Photo courtesy of Steven Souder, USFS.**



**Piñon Ips pitch tubes (left) and boring dust (right).**



**Close up of  
eggs (orange  
arrows).  
Photo  
courtesy of  
Steven  
Souder,  
USFS.**



**Beetle grubs  
(blue  
arrows).  
Photo  
courtesy of  
Steven  
Souder,  
USFS.**



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

**Overwintering piñon Ips in tree bark (bottom left).**

**Piñon Ips confusus (bottom right) is 3-6 mm long and has 5 spines.**

**Photo courtesy of Bugwood.org**



# PIÑON PINE DECLINE

PROGRESSION OF DECLINE FROM PIÑON IPS (IPS CONFUSUS) ATTACK



Photos courtesy of Steven Souder, USFS