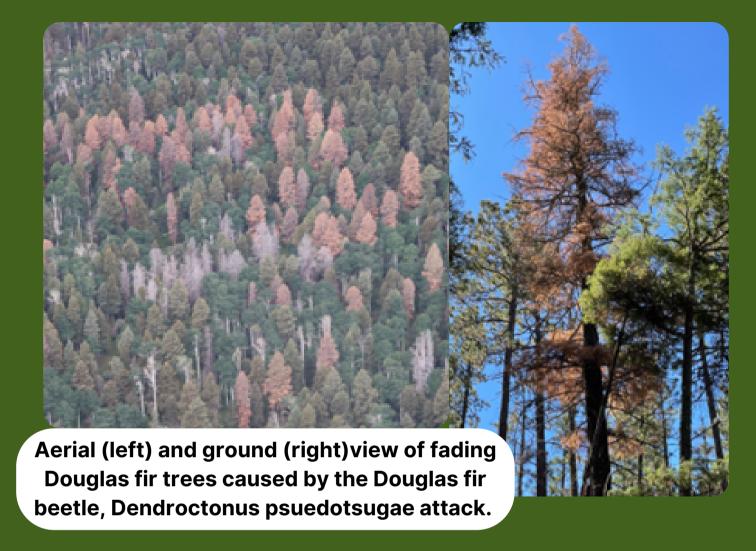
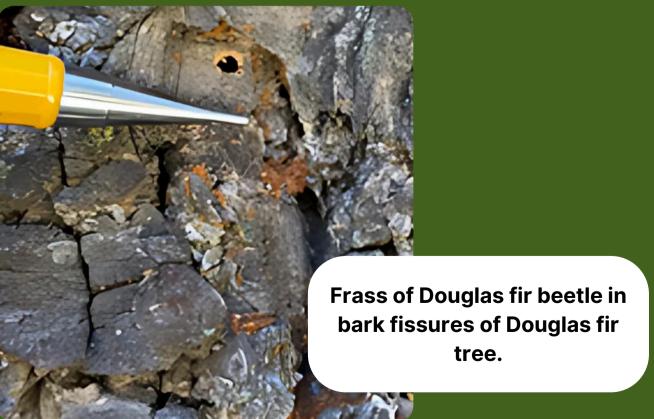


Victor Lucero
NM Forestry Division
Forest Health Program Coordinator
Victor.Lucero@emnrd.nm.gov

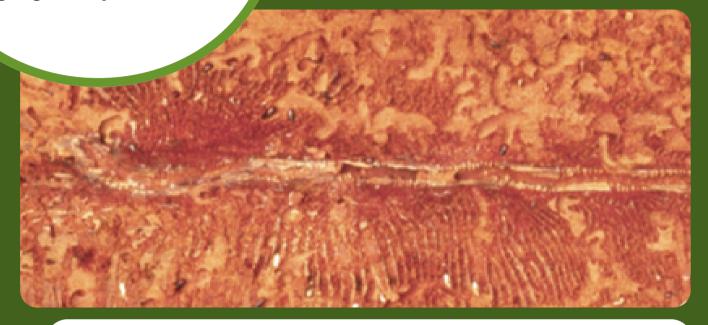






DID YOU KNOW?

Douglas fir trees protect
from beetle attacks by
using an antiaggregation pheromone.



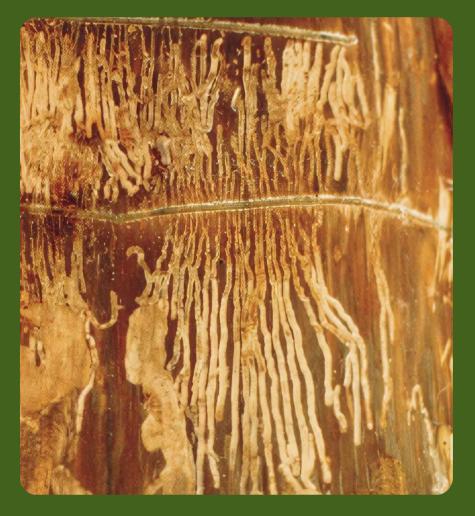
Douglas fir beetle gallery showing alternating arrangement.







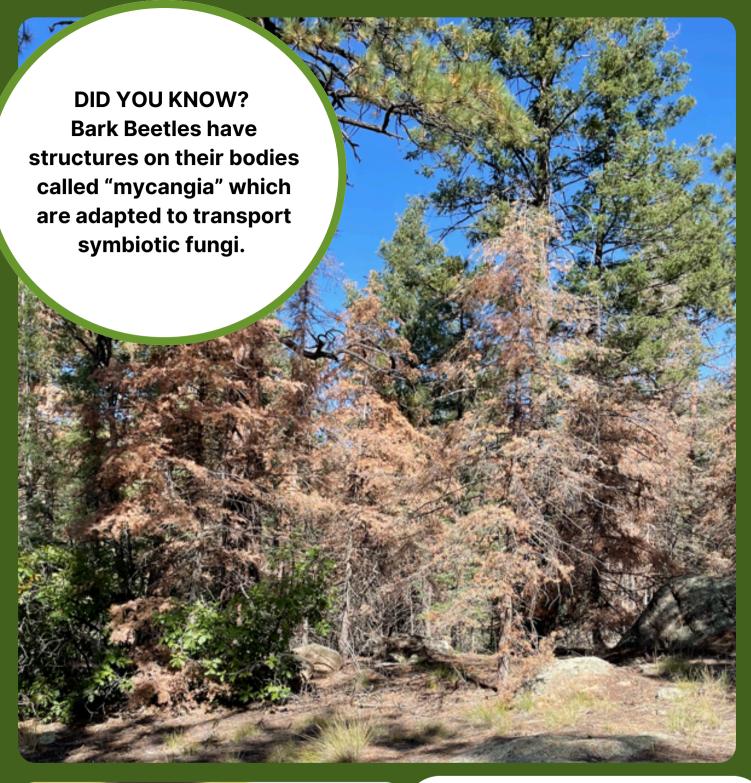
Life stages of the Douglas fir beetle. Adult beetles (4-6mm) and egg (left), larvae (center), and pupae (right). Photos courtesy of Malcolm Furniss & Sandra Kegley, USFS.

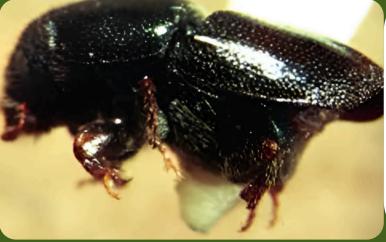






Fir engraver beetle egg
galleries run
perpendicular to the wood
grains and larval galleries
run parallel to the wood
grain (top). Fir engraver
beetles introduce a
pathogenic pouch fungus
to the host tree (left
bottom).





White fir understory attacked by fir engraver beetle, Scolytus ventralis. The blue-green trees fade to a light orange when attacked by the fir engraver (top). Fir engraver beetle, 2.5 mm (bottom). Beetle photo courtesy of Don Owen, Bugwood.com.