SAPSUCKERS AND FOMES
IGNIARIUS VAR. POPULINUS

Abstract. In aspen trees infected by Fomes igniarius var. populinus, the thin shell of sound wood enclosing the central column of decayed wood offers an ideal place for sapsuckers to peck out nests.

Yellow-bellied sapsuckers (Sphyrapicus varius) usually select for nesting places aspen trees (populus tremuloides and P. grandidentata) that have been infected with the fungus Fomes igniarius var. populinus. By dissecting nest trees after the nesting season (fig. 1), we can suggest why woodpeckers select these trees, and what implications this has for silviculture.

The two aspen species pioneer in areas cleared by fire or logging operations. The trees require full sunlight for optimum growth. As other more tolerant tree species begin to compete with and shade the aspens, the latter lose vigor and are weakened further by insects and diseases. The species are very susceptible to decay (1).

The principal decay fungus that infects the aspen species is Fomes igniarius var. populinus (5) and the principal infection courts are branch stubs (2). When many branches die at approximately the same time, the processes that lead to discoloration and decay begin simultaneously in the stem from many points. The discoloration and decay processes proceed centripetally, and the wood that forms after the branches die is seldom infected (7). The result is an extensive decay column of large diameter surrounded by a thin cylinder of sound wood. Such long columns of decay are rare in other species of trees in the Northeast.

The thin cylinder of sound wood surrounding the large central column of firm decay presents what seems to be an ideal situation for pecking out nests. The sapsuckers need only to penetrate the narrow
band of fairly soft sound wood, then the remainder of their task is easy.

Sapsuckers winter in the South and summer in the North, where they nest (3). They drill holes in living trees and drink the sap. These wounds initiate processes that result in discolorations or in ring shakes, a condition where cracks form between annual rings of wood (6). Sapsucker damage is concentrated near nesting areas where the birds first tap trees wounded or weakened by other agents (4), and then they attack other more vigorous trees. Forest managers should consider sapsucker nesting sites in their forest-management plans.

**Literature Cited**


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Figure 1. — A quaking aspen (*Populus tremuloides*) tree dissected to reveal a sapsucker nest in the decayed center of the tree.