

Pitcheating Weevil

Pachylobius picivorus (Germar)

Coleoptera: Curculionidae

Mangini, A.; Carlton, C.; Perry, R. W.; Hanula, J. L. 1994. Seed, cone, regeneration, and defoliating insects in forest ecosystem management. Gen. Tech. Report 50. *U. S. Department of Agriculture, Forest Service*; 154-161.

Objective: To determine if *P. picivorus* posed any significant threat to regeneration in Phase II treatment stands.

Abstract: The pitcheating weevil, *Pachylobius picivorus* (Germar), is a major regeneration pest of pine stands, *Pinus* spp., throughout the eastern USA. Adults feed nocturnally on the inner bark of seedlings and tree shoots, and oviposit in the roots and root collars of stressed or dying pine trees, as well as other coniferous hosts.

As part of the Phase II Ecosystem Management Research conducted in the Ouachita and Ozark National Forests, the Arthropod and Microbial Communities Study Group completed a survey of *P. picivorus*. Pitfall traps baited with 2 ml of turpentine (52.5% α -pinene, 41.4% β -pinene, 2% α -phellandrene and 1.1% limonene) and 2 ml of 95% ethanol caught *P. picivorus*. Adequate sampling accuracy was obtained by establishing three transects of 10 traps each per site. Traps were spaced on 12 m intervals.

Sampling Procedure: Use one 2-ml vial of turpentine and one 2-ml vial of 95% ethanol in each PVC pitfall trap (for a description of the trap see Hunt and Raffa 1989). Remove all trap contents, clean and re-bait each trap weekly.

References:

*Hunt, D. W. A.; Raffa, K. F. 1989. Attraction of *Hylobius radicis* and *Pachylobius picivorus* (Coleoptera: Curculionidae) to ethanol and turpentine in pitfall traps. *Environmental Entomology* 18: 351-355.