

***Hylurgus Ligniperda* (Scolytidae): A New Exotic Bark Beetle in New York State**

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Abstract

An established population of the red-haired pine bark beetle, *Hylurgus ligniperda* (F.) (Coleoptera: Scolytidae), was found in the United States in November 2000 near Rochester, NY (Hoebeke 2001). During surveys in 2001, *H. ligniperda* was detected in three counties in New York.

Our objectives in 2001 were to determine: (1) which trap design is most efficient at capturing *H. ligniperda* adults, (2) which lure is the most attractive to *H. ligniperda* adults, and (3) what is the pattern of seasonal flight and seasonal development in New York?

Traps. We tested three trap designs [12-unit funnel traps (PheroTech), panel traps (IPM Technology), and Theysohn traps (El-Tech)], using standard ethanol and alpha-pinene lures. Overall, during the first 6 weeks of adult flight, funnel traps captured about twice as many adults than did the other two trap types.

Lures. Using standard 12-unit funnel traps, we tested five lures that consisted of various combinations of alpha-pinene, beta-pinene, ethanol, and the “exotic ips lure” (PheroTech). Overall, during the first 6 weeks of adult flight, traps baited with high-release ethanol (1000 mg/d) and high-release alpha-pinene (750 mg/d) captured the most adults. Traps baited with other combinations of alpha-pinene, beta-pinene, and ethanol captured intermediate numbers. The exotic ips lure captured very few adults.

Seasonal flight and seasonal development. Using funnel traps baited with ethanol and alpha-pinene, we trapped for *H. ligniperda* during the period 5 April to 16 November 2001. During that period, adults were collected from 18 April through 16 November 2001. Trap catches were highest during late summer and fall. We also dissected pine stumps at 2-week intervals from April through September 2001. New adults were first found in July. *Hylurgus ligniperda* completed at least two generations during 2001 under New York conditions.

Literature Cited

Hoebeke, E.R. 2001. *Hylurgus ligniperda*: a new exotic pine bark beetle in the United States. Newsletter of the Michigan Entomological Society. 46(1-2): 1-2.