





Technical Bulletin for: Engraver Beetle (*perturbatus*)

Ips perturbatus (Gyllenhal) • Coleoptera, Scolytidae • IPSPER



DISTRIBUTION	North America, mainly in Canada, Montana and Alaska.
HOSTS	Mainly White Spruce, but may also infest Engelmann, Lutz, or rarely Black or Sitka Spruce.
DESCRIPTION	
ADULT MOTH	About 4-5 mm long, cylindrical, and reddish-brown to black in color, with four spines along the fringes of the elytra.
LARVAE	Legless, cylindrical, stout, and about 3.3 mm at maturity. Larvae are white in color with red head capsules.
EGGS	Oblong, pearly white, and less than 1.5 mm in length.
LIFE HISTORY	Adults overwinter in forest litter, taking flight as early as late April, depending on geographical region, and continuing through mid-July with peak flight in mid-June. Males construct galleries in the phloem of living trees, mating with up to 4 females in a central nuptial chamber. Mated females then extend the egg chambers, depositing ~50 eggs in individual niches in the gallery walls. Larvae hatch in 7-10 days and feed on phloem tissue, passing through 4 instars before pupation (after about 4-5 weeks). After 10 days, adults reemerge before the onset of winter. Usually one, rarely two, generations are completed per year.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Cis-verbenol, (+/-)ipsdienonl (2-component) and (+/-)ipsenol (3-component) in an Amber Bag. Lure Longevity: 30 days.	
TRAP TO USE	Panel Trap	
MONITORING STRATEGY	Hang traps in stands of pines where woodcutting occurs. Contact your local forester for more information on forest management practices.	
CULTURAL & PHYSICAL CONTROLS	Inspect for frass and/or egg galleries under the bark of host trees, as well as fresh cut wood or trimmed branches. Cut out infested portions from living trees and repair subsequent wound to the best of ability. Incinerate infested excised portions, firewood, and clipped branches as soon as possible to prevent further infestation.	

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