





Technical Bulletin for: European Spruce Bark Beetle

Ips typographus (Linnaeus) • Coleoptera: Scolytidae • IPSTYP



DISTRIBUTION	Europe, Asia Minor, now expanding into all northern spruce forests, including the United States and Canada.
HOSTS	Mostly damaged spruce trees, but can infest healthy trees as well.
DESCRIPTION	
ADULT MOTH	Reddish to dark brown to black 4.2-5.5mm in length head and sides of body covered with long yellowish hairs.
LARVAE	Legless, white and grub-like about 5mm long.
EGGS	Pearly white in color.
LIFE HISTORY	After mating, females gnaw a maternal gallery in which she deposits eggs. Development from egg to adult takes 7-11 weeks, with adults finishing maturation in the spring prior to their dispersal flight. In the northern part of its range, the pest will have one generation per year while in the southern regions, there may be two generation per year.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	2-Methyl-3-buten-2-ol and cis-4,6,6-Trimethylbicyclo[3.1.1]hept-3-en-2-ol on a paper coaster plus 2-Methyl-6-methylene-2,7-octadien-4-ol in a 0.25 PE vial. Field life: forty-five (45) days.	
TRAP TO USE	Panel Trap	
MONITORING STRATEGY	Recommendation is one trap per four hectares in lightly infested stands, one-two groups of two-three traps per hectare in moderately infested stands, and three-four groups of four-six traps per hectare in heavily infested stands. In healthy stands, a distance from the trap and the nearest trees should be a minimum of fifteen meters in lowlands and thirty meters in the mountains. Contact your local forester for more information on forest management practices.	
CULTURAL & PHYSICAL CONTROL	Planting mixed stands may help to prevent infestation. Prompt salvage or debarking of downed trees may help to reduce population but is not practical in large stands. It is critical to move infested trees out of the stands.	

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