



Technical Bulletin for: **Six-Spined Engraver Beetle**

Ips sexdentatus (Boerner) • Coleoptera, Scolytidae • IPSSEX



DISTRIBUTION	Native to Asia and Europe
HOSTS	Calabrian, Heldreich, Radiata, Italian Stone, Austrian, Maritime, Scots, Armand, Bosnian, Siberian Stone, Khasya, Fruit, Chinese, Yunnan and Taiwan pine, Oriental and Dragon Spruce, Nordmann and Silver Fir, Douglas-fir, European and Russian Larch.
DESCRIPTION	
Adult	Adults are 5.5 to 8.2 mm in length, cylindrical, robust, shiny, brown or brownish-black beetles with erect yellow hairs protruding from the body.
Larvae	
Eggs	
LIFE HISTORY	There are typically two generations per year with adults flying from April to May and July to August. Sometimes there can be three generations in the Mediterranean regions of Europe. Males initiate attacks by constructing a nuptial chamber under the bark. Two to five females will join and mate with the male. After mating, the females will construct longitudinal egg galleries, depositing each egg into individual niches on both sides of the gallery. When larvae hatch, they will feed in galleries perpendicular to the egg gallery. Pupation occurs at the end of each larval gallery in round chambers. Maturation feeding is required for sexual maturity.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	2-methyl-3-buten-2-ol, (+/-)ipsdienol and (+/-)ipsenol in an amber bagged coaster lure. Lure longevity: 30 days.	
TRAP TO USE	Panel Trap	
MONITORING STRATEGY	Hang traps near stands of trees where infestation is possible. Hang trap at least 2-3 m off of the ground, perhaps within the potential host itself. Check with local Forestry Service for further information and recommendations.	
CULTURAL & PHYSICAL CONTROL	Debark or wholly remove infested trees to prevent the next generation from propagating as much as possible.	

Alpha Scents, Inc.
insect monitoring systems

Alpha Scents, Inc., 360 S. Sequoia Pkwy. Canby, OR 97013
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com