





Technical Bulletin for: Western Spruce Budworm

Choristoneura occidentalis (Freeman) • Lepidoptera, Tortricidae • CHOCC



DISTRIBUTION	Found throughout much of the United States and Canada.
HOSTS	Douglas fir, white fir, grand fir, white spruce, Engelmann spruce, ponderosa pine, Norway spruce, Scotch pine, lodgepole pine, western hemlock and others.
DESCRIPTION	
ADULT	Adults are approximately 12.7mm in length and have gray or orange-brown forewings with a wingspan of 22 -28mm.
LARVAE	Yellow-green with brown heads, later turning orange or cinnamon-brown with black heads.
EGGS	Light green, oval and about 1.2mm in length. Mature larvae are 25-32mm in length.
LIFE HISTORY	Generally, one generation per year throughout most of its range, although there me

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Z11-14Ac, E11-14OH, E11-14Ald and E11-14Ac on grey rubber septum. Field life: thirty (30) days.	
TRAP TO USE	White Delta Trap	
MONITORING STRATEGY	Use 10 traps for 500 acres or smaller, 10-20 traps for 500-10,000 acres, 20-30 traps for 10,000 – 25,000 acres and up to 50 traps for up to 100,000 acres. Traps should be spaced a minimum of 20m apart and hung in the lower crown of open-grown Douglas firs. Check with local forester for recommendations suitable for your location.	
CULTURAL & PHYSICAL CONTROL	It may help to reduce the prevalence of host species by increasing the number of pine or larch trees. Keep larch to below 30% of tree stand. Check with local forester for further information.	

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