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# PEST REPORT

Pacific Forest Research Centre • 506 West Burnside Rd. • Victoria, B.C. • V8Z 1M5

September 1984

## MOUNTAIN PINE BEETLE IN MANNING PARK

### A POST-CONTROL SURVEY

R.O. Wood

Forest Insect and Disease Survey

Mature lodgepole pine stands near the east gate in Manning Provincial Park, previously infested by mountain pine beetle, Dendroctonus ponderosae (Pest Reports, R.O. Wood, September 1982, 1983), were resurveyed by CFS-FIDS August 29-30 following the 1984 beetle flight.

A two-man day survey examined 477 mature pine: 245 on four 20 m wide strips 100 m apart, and 154 along the Bonnevier Trail, inside the Park boundary, and 78 along the gravel pit road, 1 km west of the Park headquarters. Three lodgepole pine lightly attacked in 1984 were located; two on the Bonnevier Trail, at 3700 and 3900 m elevation, and one in the gravel pit area. The trees were flagged with survey tape for removal before progeny dispersal in July, 1985.

Populations are at endemic levels with an average of five attacks (range 1 to 10) in 1000 cm<sup>2</sup> bark samples at breast height. Small larvae were evident in the three infested pine trees and precluding overwintering mortality, populations could emerge successfully in 1985 to attack adjacent healthy trees.

Aerial surveys of the Park and adjacent lodgepole pine stands by fixed wing aircraft during the first week of August, following foliage color change of 1983 attacked trees, indicated no 1983 attacked trees in the Park. The mountain pine beetle control program in the Park has reduced the beetle population from 5500 trees in 1981 to three in 1984; however, within 20 km east of the Park, about 30 groups of 5 to 10 recently killed lodgepole pine (Map 1) indicate a buildup which constitutes a threat of re-infestation, if not controlled.

Mountain Pine Beetle

East of Manning Park

August 1984

● 5-10 recently killed lodgepole pine

--- Park Boundary

0 1 2 3 4 5  
km

