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PEST REPORT

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

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Western Spruce Budworm Infestations Kamloops and Neskainlith Indian Reserves, 1987

R.D. Erickson
Forest Insect and Disease Survey

Kamloops I.R. #1

Mature and immature Douglas-fir over 3 200 ha in Kamloops I.R. #1 were lightly* (1 050 ha) and moderately* (2 150 ha) defoliated in 1987 (Maps 1-4), some for the fourth consecutive year. Where defoliation has been severe* for up to three years near Louis Lake, immature trees have been killed and leader and branch dieback is common. Further severe defoliation in this area could result in additional tree mortality and dieback.

The major part of the budworm infestation, however, is on Mt. Paul and in the Dome Hills. Defoliation in those areas has been light or moderate for up to four years and damage has been limited to some leader and branch dieback. With further defoliation some understory regeneration may be killed and leader and branch dieback may occur on older trees.

Egg mass collections from above the microwave station and northwest of Schneidam Lake forecast severe defoliation in 1988. This is similar to predictions for the surrounding stands, however, generally moderate to severe defoliation is forecast over the area infested this year.

Neskainlith I.R. #1 and #4

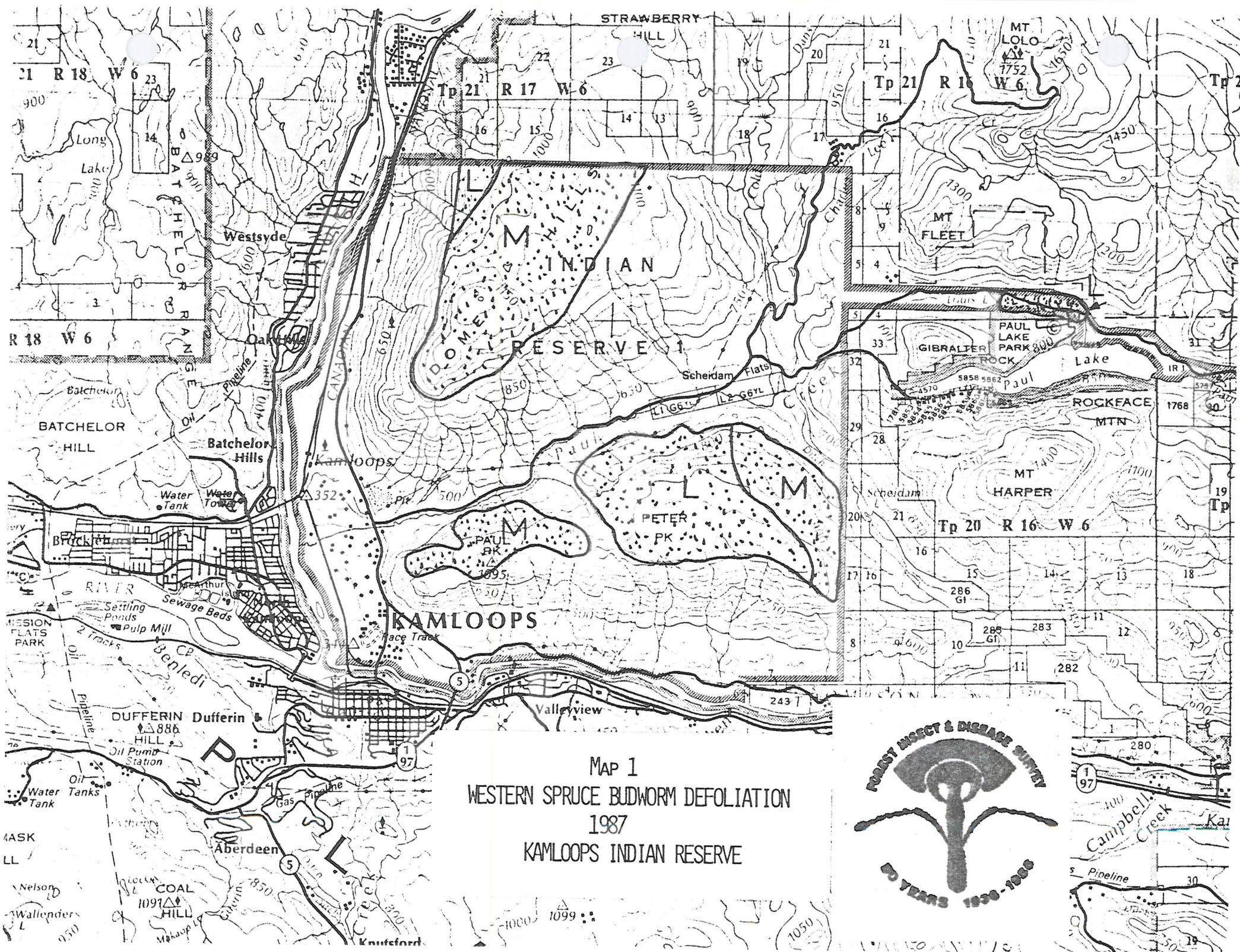
In Neskainlith IR #1, light defoliation of Douglas-fir by budworm increased to 400 ha from 250 ha last year (Map 5, 6). In Neskainlith IR #4 (Map 6), defoliation intensified and increased to 200 ha light and 440 ha moderate from 270 ha light in 1986, the first year of defoliation.

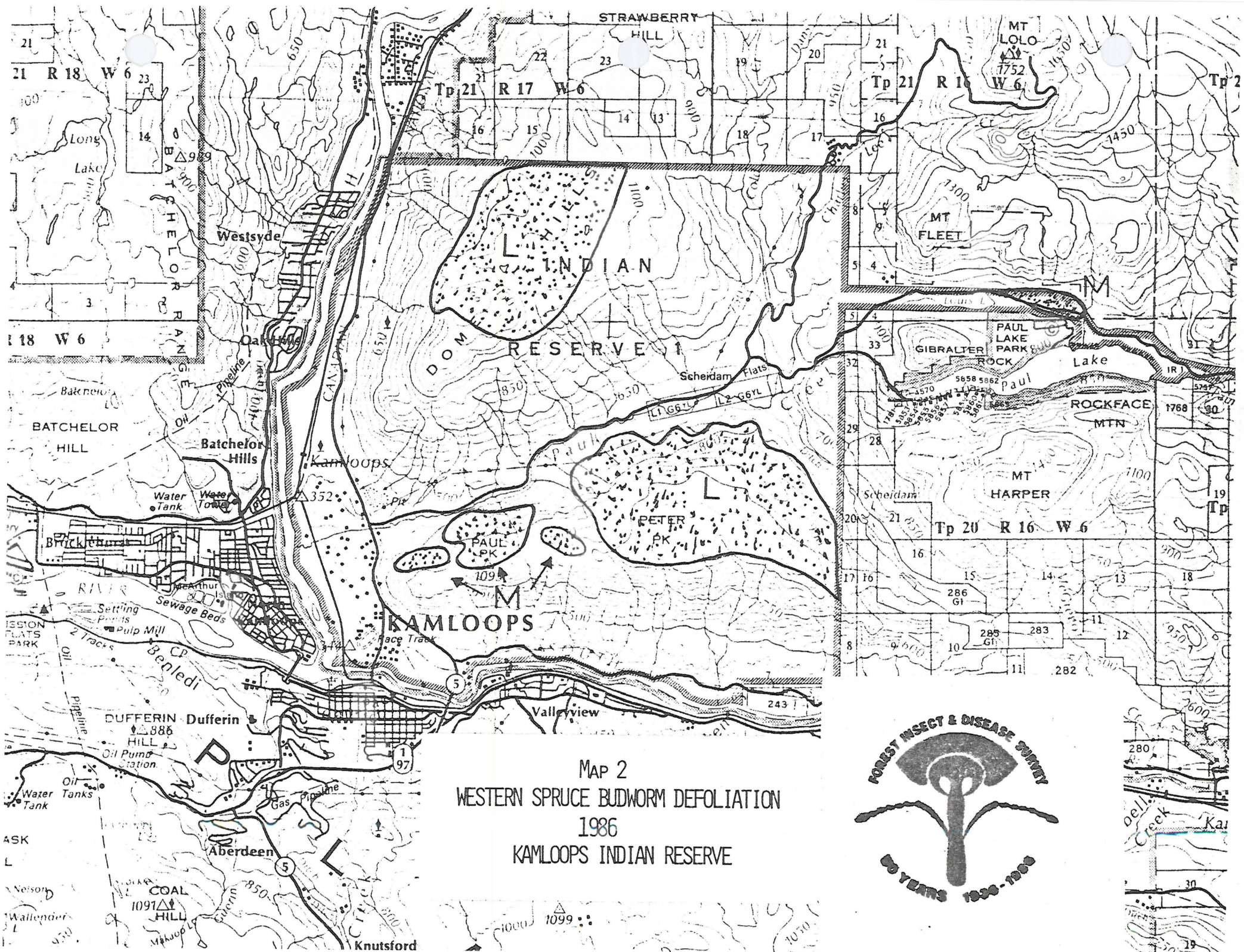
On average, defoliated trees on both reserves still retain about 60% of their usual foliage and are expected to survive additional severe defoliation. However, the damage to Douglas-fir varies with the intensity of the defoliation and the number of successive years the stands are defoliated. Understory regeneration is most severely affected and often killed. Growth reduction and top and branch dieback also occur.

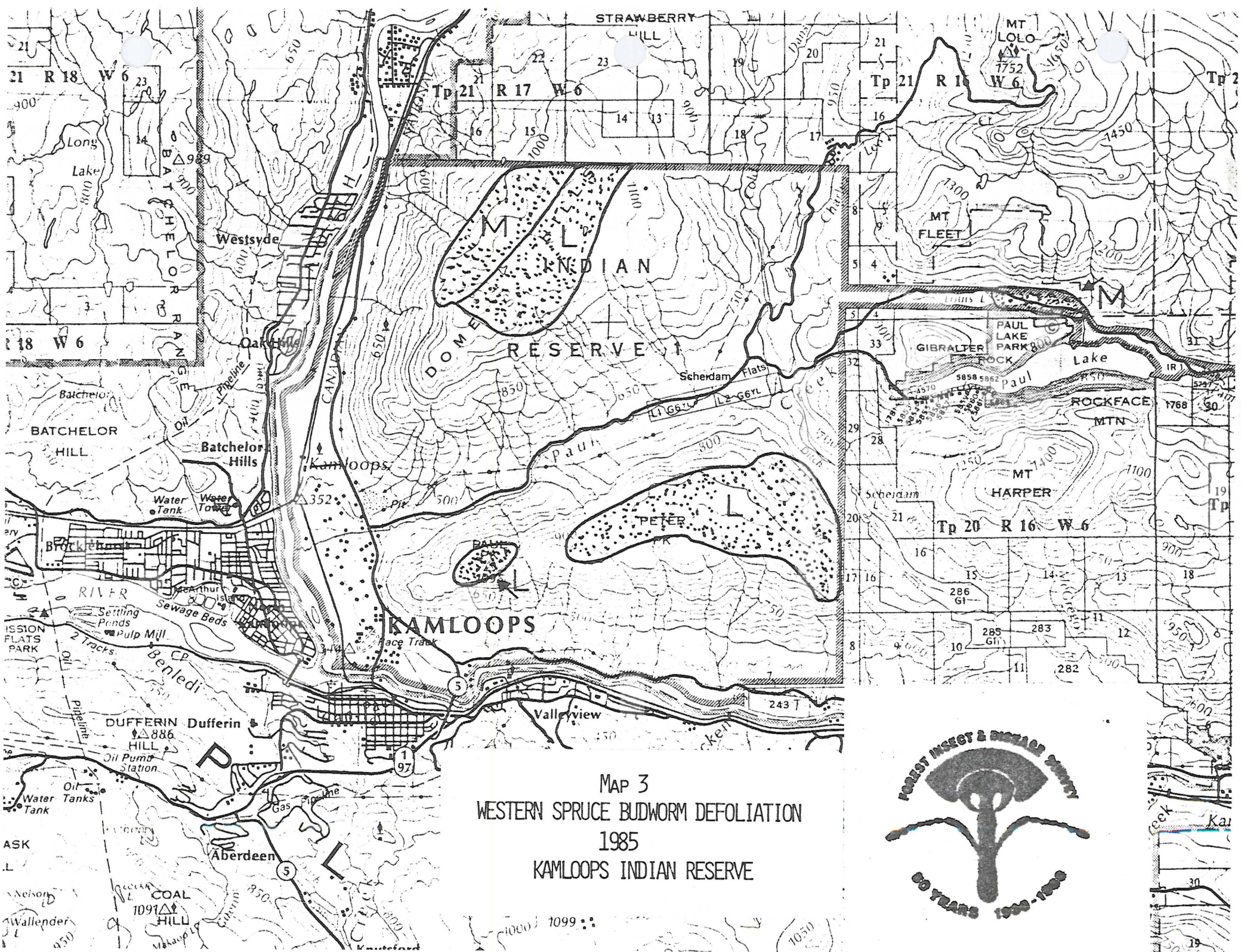
Egg samples indicate defoliation area and intensity will increase in both reserves. Additionally, samples from nearby Little Shuswap Lake and Adams River predict severe and moderate defoliation respectively in 1988.

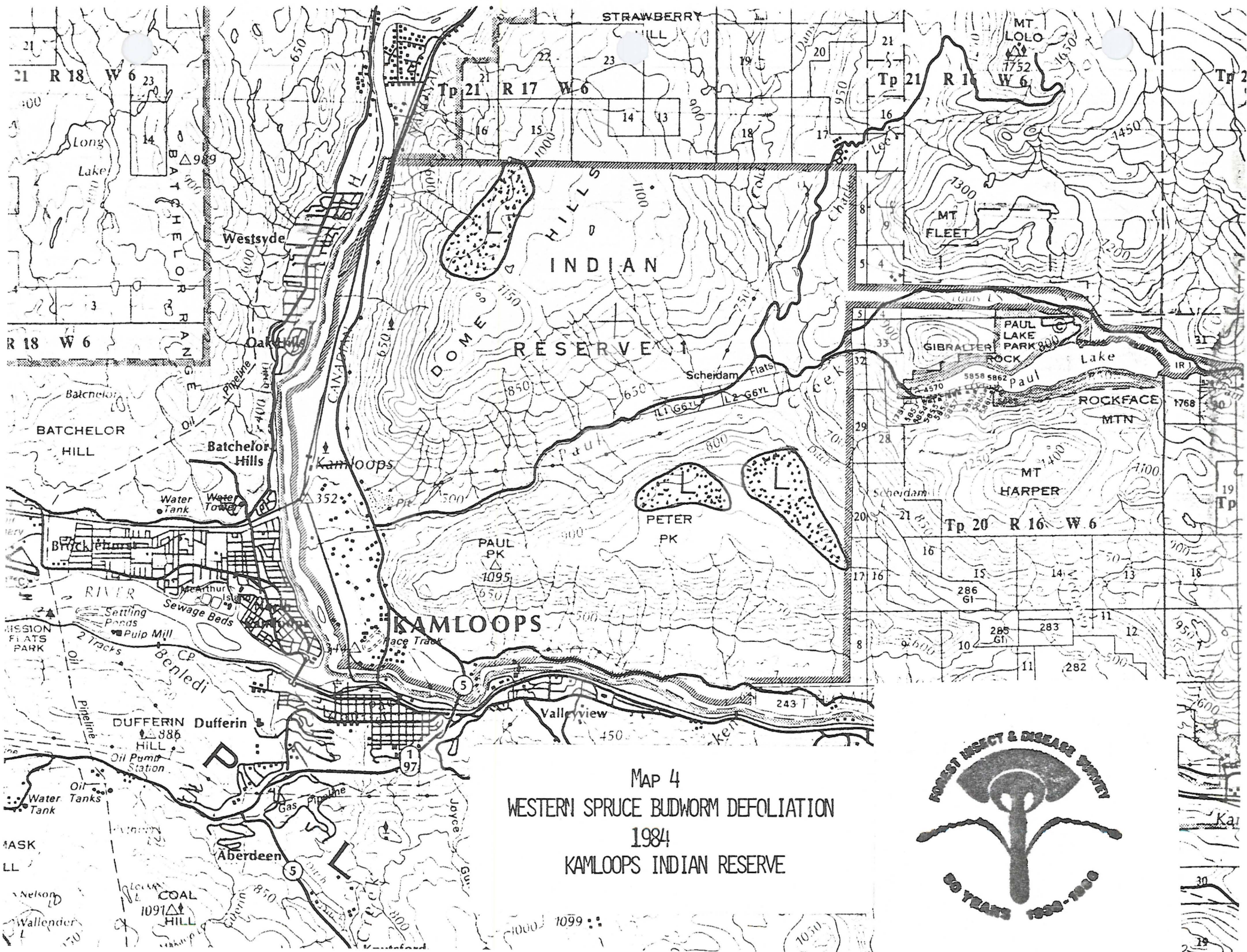
*Light : 0-25% defoliated
Moderate: 26-65% "
Severe : 66% "

* * * * *



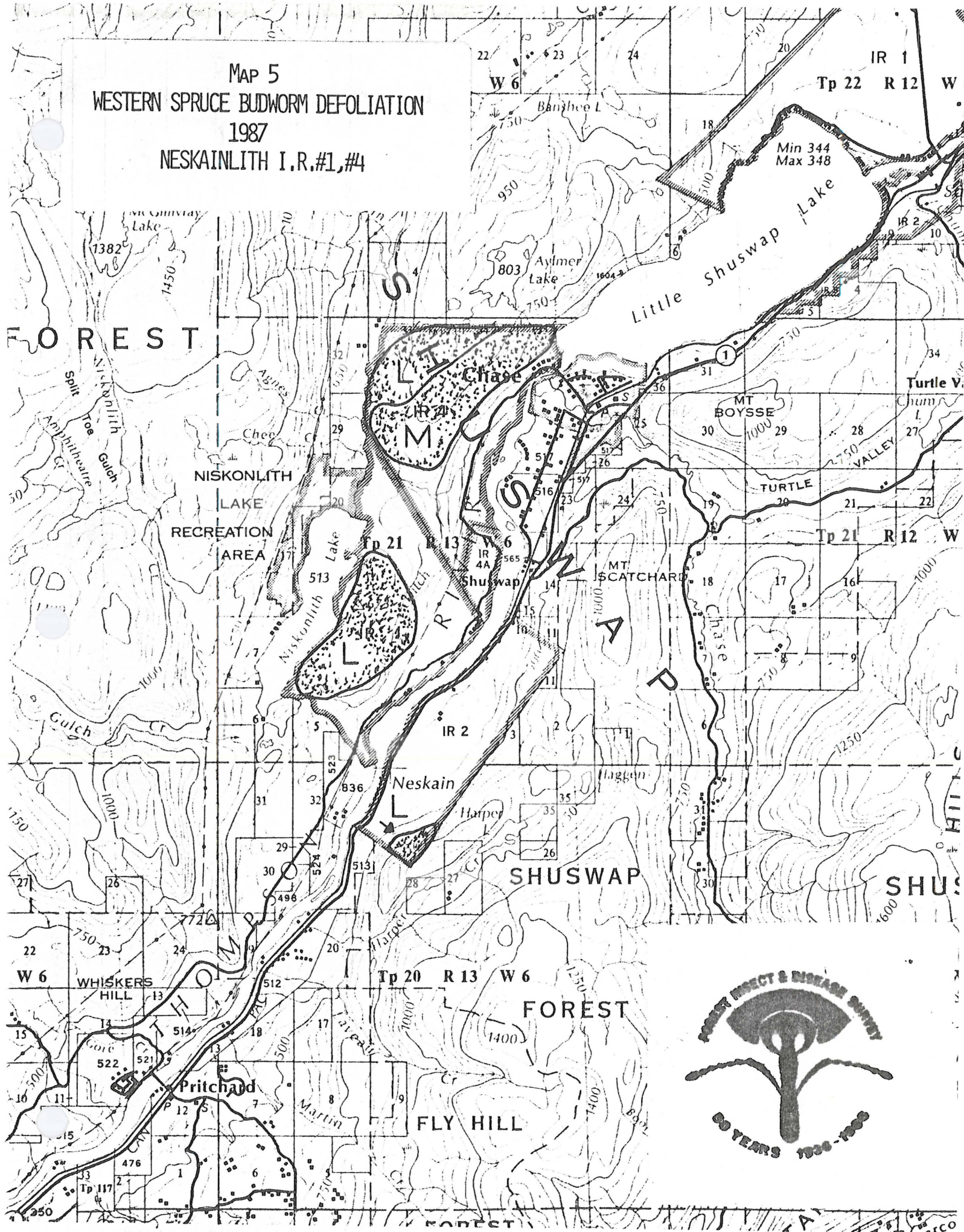






MAP 5
WESTERN SPRUCE BUDWORM DEFOLIATION
1987
NESKAINLITH I.R.#1,#4

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