

**A Study on the Local Populations of Pine Moth,
Dendrolimus spectabilis Butler
(Lepidoptera: Lasiocampidae)**

Choi Won Il, Ryoo Mun Il, Park Young-Kyu¹ and Lee Hai-Poong¹

Department of Agricultural Biology, College of Natural Resources,
Korea University,

¹Department of Applied Biology, College of Life Resource Science,
Dongguk University

Local populations of pine moth (*Dendrolimus spectabilis* Butler) were studied in Chungshando, Chollanamdo and Kyodong, Kunggido and other locations.

The moth population in Chungshanso was surveyed every moth from May 1998 to May 1999 except the winter season (November 1998 - February, 1999).

The life table statistics showed that the population was decreased. Finite rate of increase was estimated to be 0.74. Sensitivity analysis of the life table suggested that the mortality of eggs and young larvae (1st and 2nd instar) and survival during the winter season were key factors. But the cause of the population decrease has not been clear yet.

The moth in Chungshando, Kyodong has one generation per year whereas that in other locations (Ansong, Ipjang, Jeungpyung and Pyeongtaik) has two generations per year suggesting that there are some variations in the voltinism among local moth populations. Further studies should be necessary to elucidate the variations in the context of moth population dynamics and population genetics.