

# **Observations on damage of *Hylobius abietis* L. species in O.S. Toplița, D.S. Harghita, plantations.**

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## **SUMMARY**

Young spruce crops, usually up to 5 years, from crop plantations or natural regeneration, may be damaged by *Hylobius abietis* L. seedlings shows fray of crust which may extend to their peak. Survey of this pest was done from April to September. All surfaces under 4 years, from instalation, created in newly deforested areas were controlled. In these places, with increasing air temperature and its stabilization over 10<sup>0</sup>C, when bugs have left the wintering sites, were installed 20-30 toxic spruce bark-traps/ha, fresh with slime, size: 30x30 cm, tratated with sinoratox 5G, on the slime side and placed with this side down, above them is placing a stone or turf to keep them stretched - uniformly distributed on the surface, beetles found at each 20-30 traps, as well as each 50 seedling, were counted, calculating the average number of bugs per 100 seedlings. Table 1 shows surfaces attacked by Hylobius in period 2004-2008. Note that the largest area was infected in 2008. Number of spruce bark-traps/ha, varies depending of attack intensity: 75-100 pieces/ha for weak infestation, 150-200 pieces/ha for medium infestation, 300 pieces/ha for high infestation, 400 pieces/ha for very high infestation, according to this scale results that in Toplița forest district will be used: 2200 toxic spruce bark-traps for 11 ha with medium degree of infestation, 2400 toxic spruce bark-traps for 24 ha, with weak degree of infestation, so total of 4600 toxic spruce bark-traps. Seedlings are sprayed with synthetic pyrethroids, when beetles appear, or when the first fray occur. Before planting, the aerian part of seedlings, will be bathed in a solution of synthetic pyrethroid preferably: Ambusch 0,5 % or Decis 2,5 CE 1 %, mixed with an adhesive, to increase insecticide remanence.

Tab. 1

Degree of infestation and surface with *Hylobius abietis* L.

Degree of infestation	Year				
	2004	2005	2006	2007	2008
very weak	-	-	-	-	-
weak	9	8	10	10	24
medium	17	15	16	20	11
high	-	-	-	-	-
very high	-	-	-	-	-
Total	26	23	26	30	35

**Keywords:** survey, toxic spruce bark-traps, slime, synthetic pyrethroids