

Fifth meeting:

IOBC/WPRS working group

"Entomopathogens and entomoparasitic nematodes":
sub-group "Soil Insect Pests" (previously sub-group "Melolontha")

16-18 October 2006

Auer/Ora (Province of Bolzano/Bozen), ITALY

Convenor: Dr. Jurg Enkerli, ART Reckenholz, CH

Local organizer: Dr. Wolfgang Schweigkofler, Research Centre Laimburg



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Melolontha, other Scarabaeidae, and nematodes in Lithuania



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The variability of the damaged area in Lithuanian state forests by *Melolontha* sp. was 123-198 ha during the last four years (fig. 1; LVMSBA, 2002-2005). Up to 80% of the first and second year pine sets perished in Druskininkai and Valkininkai forestry (Southeast Lithuania). *Phyllopertha horticola* L., *Anomala dubia* Scop., *Rhizotrogus solstitialis* L., *Serica brunnea* L., *Polyphylla fullo* L. species could damage sets (Žiogas, 1997), but concrete data were not pointed out during the last years (ed. Šurkus, Gaurilčikienė, 2002; LVMSBA, 2002-2005). The aim of present investigation was to test *Melolontha melolontha* L. for nematodes.

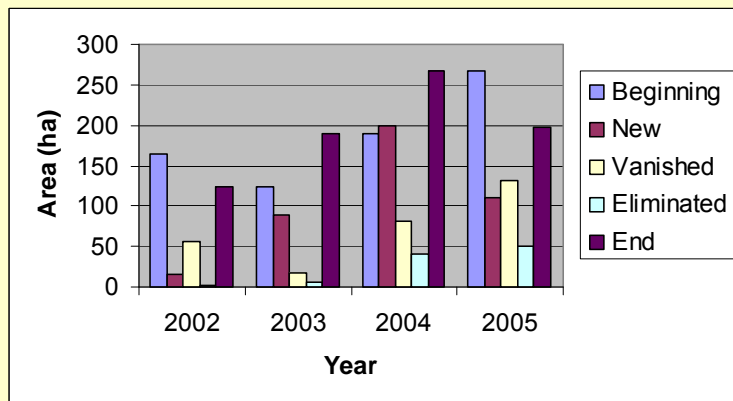


Fig. 1 The variability of the damaged area in Lithuanian state forests by *Melolontha* sp. (LVMSBA, 2002-2005)



Fig. 2 Jalas model automatic light trap

Melolontha melolontha L. 85 adults, caught by Jalas model automatic light traps (fig. 2) in Vilnius during May-June, and 6 larvae (II immature 2 specimen, III immature 4 specimen), collected in Arvydai forestry (East Lithuania) during May, were tested for nematodes (Högger, 1985). Baermann funnel method was applied (ed. Southey, 1986).

Only *Rhabditis* sp. nematodes were detected in *Melolontha melolontha* L. adults, and 2 % infestation discovered.

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Lietuvos valstybinių miškų 2005 m. sanitarinės būklės apžvalga. Miško sanitarinės apsaugos tarnyba. Girionys, 2005: 56 (in Lithuanian).

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Šurkus J., Gaurilčikienė I. (ed.) 2002. Žemės ūkio augalų kenkėjai, ligos ir jų apskaita. Kaunas: Lietuvos žemdirbystės institutas, 1-345 (in Lithuanian).

Žiogas A. 1997. Miško entomologija. Kaunas: LŽŪU leidybinis centras, 112-117 (in Lithuanian).