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Quarantine insect and nematode species: recent results obtained by Lithuanian State Plant Protection Service

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The following quarantine insect species were discovered in import production during the period 1997-2002: *Frankliniella occidentalis* Pergande (*Thripidae: Thysanoptera*), *Bemisia (tabaci)* Gennadius (*Aleyrodidae: Homoptera*), *Ceratitis capitata* Wiedemann (*Tephritidae: Diptera*), *Liriomyza trifolii* Burgess (*Agromyzidae: Diptera*), *Heliothis armigera* Hubner (*Noctuidae: Lepidoptera*). The search (mainly by means of traps) was carried out in different habitats of Lithuania: warehouses, greenhouses, fields, gardens, nurseries, parks, forests. The following quarantine species were covered by this search: 12 *Lepidoptera* (*Gelechiidae, Tortricidae, Lasiocampidae, Arctiidae, Noctuidae*), 5 *Diptera* (*Agromyzidae*), 2 *Coleoptera* (*Dermestidae, Scolytidae*), 1 *Thysanoptera* (*Thripidae*), 1 *Homoptera* (*Aleyrodidae*). Non-target species were also detected, including new to the insect's list of Lithuania.

The search for quarantine nematodes in soil, plants and plant production was carried out. The list of nematodes in the country is harmonized according to EU quarantine pest list and in Lithuania more attention is given to the nematodes of economic importance for the country. Lithuanian list of nematodes includes 400 species of 10 families. The identification of species by genus *Aphelenchoides*, *Ditylenchus*, *Hirschmanniella*, *Meloidogyne*, *Longidorus*, *Xiphinema* is complicated and modern equipment and methods are needed, including PCR. During the last 3 years 44 754 nematological expertises were made and the following species were established: *Globodera rostochiensis*, *Heterodera schachtii*, *H. trifolii*, *H. betae* (new species for Lithuania), *Punctodera punctata*, *Meloidogyne incognita*, *M. hapla* (race A), *Longidorus elongates*, *L. euonymus* (new species for Lithuania), *Ditylenchus dipsaci*, *D. destructor*, *D. myceliophagus*, *Xiphinema* sp. (in imported production only).