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## ***Rhagoletis* (Diptera: Tephritidae) fruit flies in Latvia**

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Several species of flies from genus *Rhagoletis* are serious and economically important pests of some fruit crops. In Europe this fruit fly genus is represented by seven native (*Rhagoletis alternata*, *Rhagoletis batava*, *Rhagoletis berberidis*, *Rhagoletis cerasi*, *Rhagoletis flavicincta*, *Rhagoletis meigenii* and *Rhagoletis zernyi*) and two introduced (*Rhagoletis cingulata* and *Rhagoletis completa*) species. Native European cherry fruit-fly (*Rhagoletis cerasi*) and invasive eastern cherry fruit-fly (*Rhagoletis cingulata*) are important pests of sweet cherries. Other non-European invasive species – *Rhagoletis completa* is serious pest of walnuts.

Until 2008 in scientific literature three *Rhagoletis* species are mentioned for Latvia territory. The first information (since the 19<sup>th</sup> century) is about *Rhagoletis alternata*. Other species – *Rhagoletis meigenii* as a new species for Latvia is reported in 1930. Only since 2005 published data about *Rhagoletis cerasi* are available although from scientific collections first findings of *Rhagoletis cerasi* are dated back to 1970.

Review of genus *Rhagoletis* in Latvia

***Rhagoletis alternata*** (Fallen, 1814), host plants: *Rosa*. In Latvia this species is very common pest of roses where larvae feed in rose hips. During this research flies also are reared from larvae collected from rose hips (Dobele municipality). Potential economical significance in Latvia is not studied.

***Rhagoletis batava*** Hering, 1938, host plants: common sea-buckthorn (*Hippophae rhamnoides*). In Latvia for the first time one adult fly is captured in 2011 (Salaspils municipality, on common sea-buckthorn). This is not native fly species for Latvia territory and as common sea-buckthorn is important fruit crop, *Rhagoletis batava* can be serious pest in future.

***Rhagoletis cerasi*** (Linnaeus, 1758), host plants: sweet cherry (*Prunus avium*), sour cherry (*Prunus cerasus*), *Lonicera*. Total distribution of this species in Latvia until the end of the 20<sup>th</sup> century is unknown and during this period species was without economical significance. Since the beginning of the 21<sup>st</sup> century *Rhagoletis cerasi* become serious pest in sweet cherry plantations, especially in Kurzeme and Zemgale regions.

***Rhagoletis meigenii*** (Loew, 1844), host plants: *Berberis*. For Latvia insufficiently known species and probably all later literature data based on work published in 1930 by O. John.

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