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D3154: Occurrence of forest pests in *Eucalyptus* plantations in Brazil during 2010-2015

Monday, September 26, 2016

09:00 AM - 05:00 PM

📍 *Convention Center - West Hall C*

The introduction of exotic pests, including forest pests, has increased significantly due to growth of international trade. As an essential part of integrated pest management (IPM), the knowledge of occurrence and spreading of pests over time is required. Thus, the Cooperative Program for Forest Protection (PROTEF), from IPEF (Forestry Science and Research Institute) held a survey of the occurrence of pests in *Eucalyptus* plantations in Brazil from 2010 to 2015. To do so, specific forms were sent to more than 24 forestry companies and farmers. An area was considered as infested if it had occurrences of outbreaks or presence of pest injuries and symptoms. The sampled *Eucalyptus* plantation area changed annually due to variability in answers among these 6 years. The most representative area was in 2012, with over 2.3 million hectares (ha) of plantations. During the study period the main pest considering infested area was *Thaumastocoris peregrinus* (Hemiptera: Thaumastocoridae) with peak infestation in 2012, infesting 245,000 ha (20% of the sampled area). The second pest in importance was *Glycaspis brimblecombei* (Hemiptera: Aphalaridae) with peak infestation in 2011, attacking almost 51,000 ha. For *Leptocybe invasa* (Hymenoptera: Eulophidae) the infested area increased until 2013, with almost 7,000 ha infested in this year. Also, it was found the occurrence of the *Gonipterus* spp. (Coleoptera: Curculionidae) from 2012 reaching 11,000 ha in 2014. The gathered information has been useful to guide IPM actions, focusing for the biological control of the main pests of *Eucalyptus* in Brazil.

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