

Invasive Species

Spotted Wing Drosophila in the Southern Interior Valleys of British Columbia, 2010 - 2011

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Keywords: Spotted wing drosophila, monitoring, apple cider vinegar traps, new hosts

Abstract: Spotted wing drosophila, *Drosophila suzukii*, was first detected in the interior of British Columbia in September 2009. Adults were monitored in numerous traps baited with apple cider vinegar during 2010 and 2011. In 2010, *D. suzukii* was widespread in the Okanagan and Similkameen valleys, found in the Creston Valley, and damage was recorded near harvest or post-harvest from cherry, peach, nectarine, apricot, and some berries, in commercial and domestic sites. In 2011, significantly fewer *D. suzukii* were found in the Okanagan and Similkameen valleys than in 2010. Also, no *D. suzukii* were trapped in the Creston region, and there were no reports of economic damage in commercial fruits. Fruit was collected season-long and flies were reared each year from important non-commercial plants in the southern interior valleys of B.C. Known hosts to date are *Mahonia* sp., *Sambucus cerulea*, *Sambucus* sp., *Ribes hudsonianum*, *Lonicera* sp., and *Prunus mahaleb*.