

Section I  
Invasive & Emerging Pests

**SPOTTED WING DROSOPHILA: POTENTIAL THREAT TO OREGON'S  
AGRICULTURE**

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The spotted wing Drosophila (SWD), *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae), has its origin in Asia (China, Japan, Korea, and Thailand) and is established in Hawaii and Spain. SWD is a temperate species, and it may be able to survive in much of Oregon. It was detected in California during 2008 and in Washington and Florida in 2009. Surveys conducted in Oregon after the California detections found SWD in at least 15 Oregon counties, from Portland south into Jackson County. This fly is of concern because, unlike most members of its family, which only attack overripe or decaying fruit, it attacks ripe, healthy fruit. In Oregon, fruits attacked include apple, pear, blueberry, cane berries, cherry, grape (wine and table grapes), peach, persimmon, plum, raspberries, and strawberries. Damage to cherries can be severe, and infestations of up to 80% of the cherries in a locality have been reported. They have also been found to attack tomatoes in Salem. Because female SWD can lay many eggs and there can be many generations of SWD per year, populations could rapidly build to damaging levels. Infested fruit has already been found at an Oregon “u-pick” site and in a market featuring local produce. Not only local sales of fruit could be affected. This fly’s presence in Oregon could lead to restrictions on shipping fresh fruit to the eastern U.S. and possibly other uninfested countries.