

Invasive Species

***Drosophila suzukii* Degree-Day Modeling and Field Validation in the Willamette Valley**

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Keywords: *Drosophila suzukii*, spotted wing drosophila, phenology, blueberry, trapping, Willamette Valley

Abstract: *Drosophila suzukii* was initially detected in the Willamette Valley during late summer 2009. Field monitoring of *Drosophila suzukii* in blueberries, using apple cider vinegar traps, has been on going since March 2010. Findings reflect the number of *D. suzukii* trapped in an organic and a conventional blueberry field in addition to growers' response to presence of *D. suzukii* and management thereof. Conjunctionally, *D. suzukii* was reared in a controlled setting to determine developmental parameters. From data recorded, degree-days are determined and extrapolated to field conditions in order to predict number of generations. Field data is used to corroborate these predictions.