

**Status of Spotted Wing *Drosophila* as a Pest in Hot Inland Valleys of California**

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Abstract: Spotted wing drosophila (SWD), *Drosophila suzukii*, was found for the first time in the lower San Joaquin Valley of California in late February 2010, approximately six weeks prior to cherry harvest. Since that time traps placed in citrus, cherries and blueberries have been used to monitor the establishment of SWD and prevalence within these three crops. Trap data have also been used to answer questions regarding the general phenology of SWD, particularly related to the effects of the hot, dry climate on fly populations. Data have shown significant increases in fly populations in the spring and fall with a significant decline during the summer. The presentation associated with this abstract will focus on SWD phenology and regressions documenting the influence of temperature on in-field fly populations under natural ambient conditions.