

3. Title:

Flight range, dispersal and population dynamics of *Culex tarsalis* in the San Joaquin delta

4. Authors:

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5. Who will present the paper?

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Abstract

A mark-release-recapture study was conducted in August 1999 to investigate dispersal, population density, reproductive status and survivorship of *Culex tarsalis* on islands in the San Joaquin delta. Marked mosquitoes dispersed readily between islands, traveling predominantly upwind as far as 3.5 km per night. The results demonstrate the potential for larval sources to impact populated areas several miles away and also demonstrates the importance of cooperation and data exchange among neighboring mosquito abatement districts in preventing disease and nuisance problems associated with this species.