

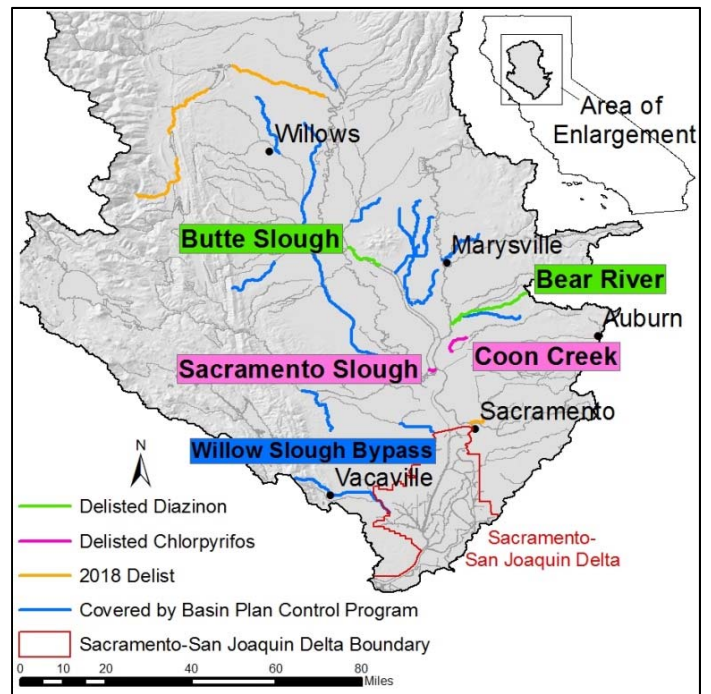
Water Quality Report Card	
Regional Water Board:	Central Valley, Region 5
Beneficial Uses Affected:	Warm and Cold Freshwater Habitat
Implemented Through:	Irrigated Lands Regulatory Program (ILRP)
Effective Date:	N/A
Attainment Date:	2007-2027

Pesticides (Diazinon and Chlorpyrifos) in Tributaries of the Sacramento River	
STATUS	<input checked="" type="checkbox"/> Conditions Improving
	<input type="checkbox"/> Data Inconclusive
	<input type="checkbox"/> Improvement Needed
	<input checked="" type="checkbox"/> Targets Achieved/Water Body Delisted
Pollutant Type:	<input type="checkbox"/> Point Source <input checked="" type="checkbox"/> Nonpoint Source <input type="checkbox"/> Legacy
Pollutant Source:	Irrigated Crop Production

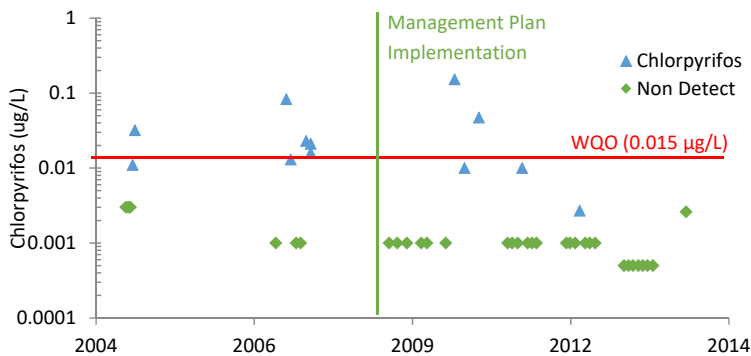
Water Quality Improvement Strategy

Diazinon and chlorpyrifos are organophosphate insecticides that are widely used by growers in the Sacramento River Basin. In the early 1990s, these pesticides were detected in many Sacramento Basin waterbodies at levels toxic to aquatic life. Subsequently, 16 waterbodies in the Sacramento Basin were listed on the 2012 U.S. EPA Clean Water Act Section 303(d) List as impaired by these pesticides. The main source of these pesticides is discharges from irrigated agriculture, as almost all non-agricultural, such as residential uses, were cancelled over 10 years ago. These pesticides have been a focus of the Irrigated Lands Regulatory Program (ILRP) as well as multiple TMDLs, including TMDLs for the [Sacramento & Feather Rivers](#), and the [Delta](#). The ILRP and TMDLs require growers to implement management practices to meet water quality objectives (WQOs). As a result of water quality improvements, four water bodies were proposed for delisting in the [2014 Integrated Report](#). The other 12 water bodies are proposed to be classified as being addressed by the ILRP and requirements of a 2014 [Basin Plan Amendment](#) that established numeric WQOs to be met by 2027.

Tributaries of the Sacramento River



Chlorpyrifos in Willow Slough Bypass

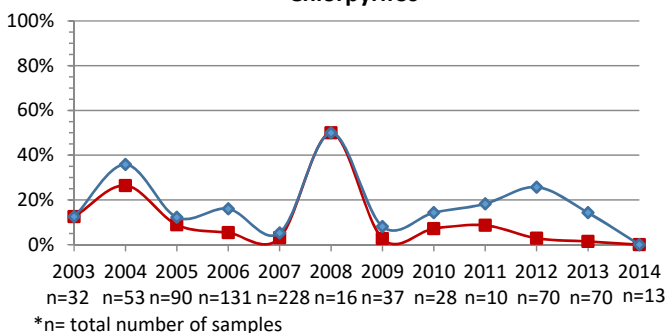


Water Quality Outcomes

- Chlorpyrifos and diazinon water quality objectives (WQOs) are almost continuously being achieved since implementation of management practices. The number of exceedances has decreased over time in all of these waterbodies.
- Four waterbodies were proposed for delisting in 2014 due to attainment of diazinon and chlorpyrifos WQOs.
- In the 2018 Integrated Report cycle, at least two additional delistings will be proposed due to attainment of the diazinon and chlorpyrifos WQOs.

Percent of Samples that Exceed WQOs for Chlorpyrifos and Diazinon within Tributaries of the Sacramento River

Chlorpyrifos



Diazinon

