

CHALLENGES FACING RESISTANCE MANAGEMENT OF CALIFORNIA MOSQUITOES

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Mosquitoes have been the targets of chemical control in California for well over half a century because of their medical importance and nuisance status. During this period, mosquito abatement has remained successful due to availability of new chemicals just before widespread resistance developed to the previously used chemicals. However, in the past 12 years there has been a lack of new "mosquitocides" registered, and several populations of mosquitoes have developed either resistance to or low level tolerance to many of the currently used chemicals. This situation calls for serious consideration and implementation of comprehensive mosquito insecticide resistance monitoring and management strategies in California. Implementation of these strategies is unfortunately hampered by lack of data of insecticide resistance mechanisms in our local mosquito populations.