



GROWER RESOURCE GUIDE: PESTICIDE RESISTANCE MANAGEMENT

The San Joaquin Sustainable Farming Project has created a grower resource guide to help growers navigate useful topics and ideas and sustainable practices from on-line resources. Each topic contains general information and where to find current and pertinent materials and web links to that information. We hope you will find these documents worthwhile and convenient to use.

Pesticide resistance management is an effort to slow or prevent the development of resistance. It relies on pest management and pesticide-use strategies to prolong the effective life of pesticides.

Resistance IRM = (Insecticide Resistance Management)

Resistance may be defined as 'a heritable change in the sensitivity of a pest population that is reflected in the repeated failure of a product to achieve the expected level of control when used according to the label recommendation for that pest species'. Cross-resistance occurs when resistance to one insecticide confers resistance to another insecticide, even where the insect has not been exposed to the latter product. Clearly, because pest insect populations are usually large in size and they breed quickly, there is always a risk that insecticide resistance may evolve, especially when insecticides are misused or over-used.

Check out the [Insecticide Action Resistance Committee \(IRAC\) website](#) for volumes of useful information about Pesticide Resistance Management. IRAC has published a wide range of communication and educational material, all of which are available free to download from the website.

The [IRAC Insecticide Resistance Management \(IRM\) video](#) is a grower-focused, animated, and diagrammatic explanation of Insecticide Resistance and its management from CropLife International and the Insecticide Resistance Action Committee. It is available in English, Chinese Mandarin, or Latin America Spanish or Portuguese.

Find Pesticide Resistance Training Online at the [University of California Ag and Natural Resources website](#). Designed primarily for Pest Control Advisers and other licensed pesticide applicators to teach about fungicide resistance, insecticide resistance, and herbicide resistance. It provides information on the mechanisms of pesticide resistance and how it has developed as well as information on managing or delaying resistance.

Funding for this project has been provided through an agreement with the State Water Resources Control Board and the U.S. Environmental Protection Agency - Clean Water Act Section 319