

Other Strawberry Pest Management Projects Sponsored by the Department of Pesticide Regulation

Research Grants (2012)

The Department of Pesticide Regulation's (DPR's) Pest Management Research Grants Program was established to prevent unanticipated impacts of pesticide use on public health and the environment by funding development of integrated pest management (IPM) systems. Voluntary adoption of IPM reduces potential impacts without the need for regulation by reducing use of high-risk pesticides.

Project Title	Organization and PI	Grant Summary	Award Amount	Final report
Methyl Bromide Alternatives for Strawberry Nurseries	UC Davis Lynn Epstein	2013-2016	\$153,289	Pending
<p>This research, conducted by University of California, Davis, examines the efficacy of alternatives to methyl bromide and chloropicrin fumigation, including a number of pesticide and non-pesticide options, for a commercial high elevation strawberry nursery. Performance measures include nematode and weed control, yield and quality of nursery plants, and marketable and total fruit yield of the transplants. In addition, the project will examine the impact of these treatments on soil quality through nitrogen-cycling and soil microbial community analyses. The goal is to provide a path away from methyl bromide and chloropicrin using alternative chemical and disinfection practices and developing an understanding of soil microbial and nutrient cycling, which will ultimately allow sustainable strawberry production.</p> <p>Principal investigator: Lynn Epstein, (530) 754-7916, lepstein@ucdavis.edu Media contact: University Communications, (530) 752-1930, manauer@ucdavis.edu</p>				

Alliance Grants (1997-2002)

DPR's Pest Management Alliance Grant Program was established in 1997. The program has provided support for agricultural, nonagricultural, and urban groups to develop and demonstrate pest management systems that reduce risks associated with pesticide use. The goal is to increase adoption of reduced-risk pest management practices. Due to budget constraints, funding for pest management alliance grants was not available beginning in fiscal year 2002/2003. Funding resumed in fiscal year 2007/2008.

Project Title	Organization and PI	Grant Summary	Award Amount	Final report
Soil-borne Pest Management for Strawberries in California in the Absence of Methyl Bromide	California Strawberry Commission Christopher Winterbottom	2000 1998	\$93,300 \$93,458	99-0256 97-0278

Research and Demonstration Grants (1995-2002)

DPR's Pest Management Grants program was established in 1995. The program focused on one-year projects that addressed local or regional pest management challenges and offered promising reduced-risk alternatives to conventional pest management practices. The program ended in 2002 when budgetary constraints resulted in the elimination of DPR grant funding.

Project Title	Organization and PI	Grant Summary	Award Amount	Final report
Rotations with Broccoli for Soilborne Disease Management in Conventional & Organic Strawberry Production Systems	UC Davis K.V. Subbarao, F.N. Martin (2000) & K.G. Shetty (2000)	2001 2000	\$30,000 \$30,000	00-0217S 99-0226
Field Trials for Combined Use of Ozone Gas & Beneficial Microorganisms as a Preplant Soil Treatment for Tomatoes & Strawberries in Pathogen-infested Soils	Soilzone, Inc. Alan Prior	2000	\$22,000	99-0220
Evaluation of Cultivars for Yield in Organic Strawberry Production in the Presence or Absence of Mycorrhizal Inoculum	USDA Ag. Research Service, Salinas Carolee Bull	2000 1999	\$30,000 \$30,000	99-0216 98-0261
Plug Plant & Soil Amendment Technology as an Alternative to Methyl Bromide Fumigation on California Strawberries	Alliance for Alternative Agriculture Frank Sances	1999	\$29,867	98-0283
Rotations with Broccoli—A Sustainable Alternative to Soil Chemical Fumigants	UC Davis K.V. Subbarao & F.N. Martin	1999	\$28,425	98-0276
Alternatives to Methyl Bromide in Strawberry Production	Pacific Ag Research Corp. Frank Sances & Elaine Ingham	1998	\$29,957	97-0231
Impacts of Non-crop Farmscape Vegetation on Strawberry Pest Dynamics in the Monterey Bay Area	UC Santa Cruz Sean Swezey	1998	\$30,000	97-0234
Biologically Integrated Strawberry Systems (BISS)	Larry Whitted & Associates Larry Whitted	1998 1997	\$29,160 \$17,290	97-0222 96-0263
Postharvest Disinfestation of Horticultural Commodities: Controlled Atmosphere as an Alternative to Methyl Bromide	UC Davis Elizabeth Mitcham	1996	\$30,000	Not available

Other projects that address crops in addition to strawberries:

Project Title	Organization and PI	Grant Summary	Award Amount	Final report
Impact of soil fumigant use in California and efficacy of non-chemical alternatives to soil fumigation in key California crops	UC Davis Michael Lee Grieneisen	2013-2015	\$185,000	Pending
<p>This project aims to provide a formal meta-analysis of published literature (both peer-reviewed and gray literature) regarding the efficacy of non-fumigant pre-plant alternatives for a variety of California crops. This project will attempt to identify the best practice alternatives to soil fumigation, potentially setting the stage for future outreach efforts to encourage their adoption by growers. This project will specifically 1) assess the efficacy (based on crop yields) and cost-effectiveness of IPM methods that are alternatives to pre-plant fumigant treatment of soil based on the results of published studies and 2) produce an annotated directory of these IPM methods. That directory will provide DPR with ready-access to the most up-to-date research on those IPM methods.</p>				