

**Summary of Cases Reported by California¹ as Associated With² Pesticide Exposure
Summarized by Occupational Status and by Location of the Incident
2012**

Incident Setting ³	Occupational Exposures ⁴		Non-Occupational Exposures ⁴		TOTAL	
	Definite/ Probable	Possible	Definite/ Probable	Possible	Definite/ Probable	Possible
Farm	145	39	1	0	146	39
Nursery	2	9	1	2	3	11
Livestock Production Facility	3	1	0	0	3	1
Crop/Livestock Processing Facility	16	4	0	0	16	4
Animal Premise (Veterinary Hospital, Kennels, not Livestock)	4	0	0	0	4	0
Single Family Home	2	2	133	55	135	58
Multi-unit Housing	5	0	47	36	52	36
Residence (Other or Unspecified)	2	3	129	61	132	64
Residential Institution	11	1	1	1	12	2
School	15	3	1	1	16	4
Prison	5	1	2	0	7	1
Hospital/Medical	40	3	0	0	40	3
Pesticide Manufacturing Facility	3	0	0	0	3	0
Industrial or Other Manufacturing Facility	10	1	0	0	10	1
Wood Treatment	1	0	0	0	1	0
Office/Business	7	1	2	0	9	1
Retail Establishment	12	1	0	0	13	1
Service Establishment	41	18	2	1	43	19
Wholesale Establishment	2	1	0	0	2	1
Road/Rail Or Utility Right Of Way	9	1	3	15	12	16
Park	4	0	0	0	4	0
Golf Course	2	0	0	0	2	0
Landscape, Lawn	1	0	1	4	3	4
Landscape, Other	2	1	3	3	5	4
Other (Telephone Poles, Fences, Etc)	6	1	0	0	6	1
Unknown	9	3	14	5	31	11
TOTAL⁵	359	94	340	184	710	282

1. Source: California Department of Pesticide Regulation, Pesticide Illness Surveillance Program.

2. Associated With: Includes cases classified as definitely, probably or possibly related to pesticide exposure.

Definite: High degree of correlation between pattern of exposure and resulting symptomatology. Requires both medical evidence (e.g., measured cholinesterase inhibition, positive allergy tests, characteristic signs observed by medical professional) and physical evidence of exposure (e.g., environmental and/or biological samples, exposure history) to support the conclusions.

Probable: Relatively high degree of correlation exists between the pattern of exposure and the resulting symptomatology. Either medical or physical evidence is inconclusive or unavailable.

Possible: Health effects correspond generally to the reported exposure, but evidence is not available to support a relationship.

3. Incident Setting: Location where the incident occurred. The location may not coincide with the application site.

Farm: Areas where agricultural crops are grown. This excludes the following: 1) nurseries and greenhouses which are classified under Nursery; 2) livestock and poultry farms; and 3) forestry operations.

Nursery: Facilities (including greenhouses) growing and selling plants, bulbs, seeds, etc. This includes the production of seedlings for transplanting into agricultural fields or forests.

Livestock Production Facility: Ranches, dairies, feedlots, egg production facilities, hatcheries and other establishments involved in keeping, grazing or feeding livestock or poultry for the sale of them or their products. This includes veterinary services provided for livestock.

Crop/Livestock Processing Facility: Facilities involved in packing, manufacturing or processing foods or beverages for human consumption and feed. products for animals and fowl. This includes facilities that sort, grade and pack fresh fruits and vegetables.

Animal Premise (Veterinary Hospital, Kennels, Not Livestock): Veterinary services, animal kennels, animal control facilities, dog grooming facilities and other services provided for companion animals. This excludes livestock.

Single Family Home: The house and other structures on property intended for use by a single family. This includes swimming pools, but excludes landscaped areas on the property.

Multi-Unit Housing: Apartments and multi-plexes and other buildings on property. This includes swimming pools, but excludes landscaped areas on the property.

Labor Housing: Lodging facility or residence provided for the labor force.

Residential Institution: Dormitories, nursing homes, homeless shelters and similar facilities.

School: Establishments that provide academic or technical instruction. This includes daycare centers.

Prison: Establishments for the confinement and correction of offenders as ordered by courts of law. This includes California youth authority facilities.

Hospital / Medical: Establishments that provide medical, surgical and other health services to people. This includes offices and clinics of doctors and dentists, hospitals, medical and dental laboratories, kidney dialysis centers and other health related facilities.

Pesticide Manufacturing: Facilities engaged in manufacture and/or formulation of pesticides.

Facility:

Industrial Or Other Manufacturing Facility: Facilities involved in the mechanical or chemical transformations of materials or substances into new products. This excludes: 1) facilities engaged in manufacture or formulation of pesticides; and 2) facilities engaged in treatment of wood to protect against pest damage.

Wood Treatment: Establishments involved in the treatment of wood with preservatives to protect against pest damage.

Office/Business: Commercial establishments including public and private business offices. This excludes retail establishments and service establishments.

Retail Establishment: Businesses engaged in selling merchandise for personal or household consumption and providing services related to the products. This excludes restaurants which are classified under service establishment.

Service Establishment: Establishments engaged in providing services to individuals, businesses and government. This includes restaurants, laundries, etc. This excludes medical service establishments.

Wholesale Establishment: Establishments involved in the distribution of merchandise to retail establishments or other wholesale establishments. This excludes "wholesalers" who sell directly to the public.

Road/Rail Or Utility Right Of Way: Roads, rails or utilities and adjacent right-of-way areas. This includes aqueducts, manholes, landscaped median strips and vehicles moving along roadways.

Park: An area of public land set aside for recreation. This includes public swimming pool facilities. This excludes private recreational facilities such as amusement parks, physical fitness facilities, etc. which are classified under Service Establishment.

Golf Course: Land used for playing or practicing golf, including putting greens and driving ranges. This excludes miniature golf courses.

Landscape, Lawn: Landscaped lawns. This excludes lawn areas in the following locations: 1) road/rail or utility right-of-ways; 2) parks; and 3) golf courses.

Landscape, Other: Landscaped ornamental shrub and tree areas. This excludes ornamental shrub and tree areas in the following locations: 1) road/rail or utility right-of-ways; 2) parks; and 3) golf courses.

Other: Location of exposure occurred at a site not adequately described in any other incident setting category. This includes, but is not limited to, telephone poles, fences, water supply systems and wastewater treatment plants.

Unknown: The location of the incident is unknown.

4. Occupational or Non-Occupational: The relationship between the illness/injury and the individual's work.

Occupational: Work related. The individual was on the job at the time of the incident. This includes both paid employees and volunteers working in similar capacity to paid employees.

Non-Occupational: Not work related. The individual was not on the job at the time of the incident. This category includes individuals on the way to or from work (e.g., before the start or after the end of their workday).

5. Totals include 15 cases in which the activity could not be determined as occupational or non-occupational.

Whom to Contact:

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About the Pesticide Illness Surveillance Program Data

Pesticide-related illnesses have been tracked within the state of California for more than 50 years. The California Environmental Protection Agency, Department of Pesticide Regulation (DPR) maintains a surveillance program which records human health effects of pesticide exposure. The Pesticide Illness Surveillance Program (PISP) documents information on adverse effects from pesticide products, whether elicited by the active ingredients, inert ingredients, impurities, or breakdown products. This program maintains a database, which is utilized for evaluating the circumstances of pesticide exposures resulting in illness. This database is consulted regularly by staff who evaluate the effectiveness of the DPR pesticide safety programs and recommend changes when appropriate.