

**Hospitalization and Disability Associated with Illnesses/Injuries
Possibly Related to Pesticide Exposure in California^{1,2},
Summarized by Occupational Status and Activity
2004**

Occupational³

Activity ⁴	Total Cases	Hospitalization			Disability		
		No. Cases	%	Unknown ⁵	No. Cases	%	Unknown ⁶
Mixer/Loader	8	0	0	0	3	37.5	0
Applicator	56	0	0	0	8	14.3	2
Mechanical	6	0	0	0	0	0	0
Packaging/Processing	3	0	0	0	0	0	0
Field Worker	131	0	0	0	9	6.9	3
Routine Indoor	22	0	0	0	4	18.2	1
Routine Outdoor	12	0	0	0	0	0	5
Manufacturing/Formulation	1	0	0	0	0	0	0
Transport/Storage/Disposal	2	0	0	0	0	0	0
Other	21	1	4.8	1	4	19	2
<i>All Occupational</i>	262	1	0.4	1	28	10.7	13

Non-Occupational³

Activity	Total Cases	Hospitalization			Disability		
		No. Cases	%	Unknown ⁵	No. Cases	%	Unknown ⁶
Applicator	1	0	0	0	1	100	0
Routine Indoor	7	0	0	0	0	0	2
Routine Outdoor	3	0	0	0	0	0	2
Other	3	1	33.3	0	0	0	1
<i>All Non-Occupational</i>	14	1	7.1	0	1	7.1	5
<i>All Cases</i>	276	2	0.7	1	29	10.5	18

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

² **Relationship:** Degree of correlation between pesticide exposure and resulting symptomatology.

Possible : Some degree of correlation evident. Medical and physical evidence are inconclusive or unavailable.

³ **Occupational Status:** Occupational or Non-Occupational

- 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 (before the start or after the end of their workday).

⁴ **Type of Activity:** Activity of the individual at the time of exposure.

- Mixer/Loader : Mixes and/or loads pesticides. This includes: (1) removing a pesticide from its original container, (2) transferring the pesticide to a mixing or holding tank, (3) mixing pesticides prior to application, (4) driving a nurse rig, or (5) transferring the pesticide from a mix/holding tank or nurse rig to an application tank.
- Applicator : Applies pesticides by any method or conducts activities considered ancillary to the application (e.g., cleans spray nozzles in the field).
- Mechanical : Maintains (e.g. cleans, repairs or conducts maintenance) pesticide contaminated equipment used to mix, load or apply pesticides as well as the protective equipment used by individuals involved in such activities. This excludes the following: 1) maintenance performed by applicators on their equipment incidental to the application; 2) maintenance performed by mixer/loaders on their equipment incidental to mixing and loading; 3) decontamination by HAZMAT teams.
- Packaging and Processing : Handles (packs, processes or retails agricultural commodities from the packing house to the final market place. Field packing of agricultural commodities is classified as field worker.
- Field Worker : Works in an agricultural field performing tasks such as advising, scouting, harvesting, thinning, irrigating, driving tractor (except as part of an application), field packing, conducting cultural work in a greenhouse, etc. Researchers performing similar tasks in an agricultural field are also included.
- Routine Indoor : Conducts activities in an indoor environment with minimal expectation for exposure to pesticides. This includes people in offices and businesses, residential structures, etc. who are not handling pesticides.
- Routine Outdoor Manufacturing and Formulation : Manufactures, processes or packages pesticides. This includes “mixing” if it is done in a plant for application elsewhere.
- Transport/ Storage/ Disposal : Transports or stores pesticides between packaging and preparation for use. This includes shipping, warehousing and retailing as well as storage by the end-user prior to preparation for use. Disposal of unused pesticides is also included in this activity. This excludes driving a nurse rig to an application site.
- Other : Activity is not adequately described by any other activity category. This includes but is not limited to: 1) being inside a vehicle; 2) dog groomers not handling pesticides; 3) individuals handling pesticide treated wood; 4) two or more activities with potential for pesticide exposure.

⁵ **Hospitalization Unknown:** Investigation did not specify whether hospitalization occurred or not.

⁶ **Disability Unknown:** Investigation did not specify whether disability occurred or not.

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(s) the effectiveness of the DPR pesticide safety programs and recommend changes when appropriate.