

**Table D9: Agricultural Drift Cases<sup>1</sup> Reported in California as Associated With<sup>2</sup>  
Pesticide Exposure, Summarized by the Activity of the Exposed Person  
and by the Type of Application Equipment Used  
2016**

Type of Application Equipment Used <sup>3</sup>	Type of Activity <sup>4</sup>		
	Routine	Field Worker	Total
Fixed Wing Aircraft	2	1	3
Helicopter	5	6	11
Ground, Other or Unspecified	2	16	18
Over-the-vine Boom	0	1	1
Electrostatic Sprayer	12	0	12
Airblast Sprayers	2	32	34
Shank Injection without Tarps	0	27	27
Pressurized Hose-line Sprayers	0	3	3
<b>TOTAL</b>	<b>23</b>	<b>86</b>	<b>109</b>

**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. Type of Equipment Used:** Defines the type of application equipment regardless of who performed the application. If the type of equipment is not represented on the table, there were no cases involving that type of equipment for the year of the report.

Fixed Wing Aircraft: Fixed wing aircraft.

Helicopter:	Helicopter.
Ground, Other Or Unspecified:	Ground application equipment, unknown or unspecified. This includes two or more types of ground application.
Over-the-Vine Boom	Ground operated equipment with the arms of the spray boom extending over the tops of grapevines.
Electrostatic Sprayer	Ground operated equipment designed to impart an electrical charge to the pesticide particles. The electrostatic designation for ground application equipment overrides any other type of equipment it is used with.
Airblast Sprayers:	Ground application equipment with a pump that delivers spray into an air stream created by a large fan at the back of the spray equipment.
Shank Injection Without Tarps:	Ground application equipment that uses a shank or other piece of equipment to directly apply a pesticide into the soil except when a tarp is placed over the soil, which is classified under shank injection with tarps. This also excludes surface applied pesticides that are subsequently incorporated into the soil by a cultivator.
Pressurized Hose-Line Sprayers	Hand-held spray equipment attached by a long hose to a power-pressurized tank.

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

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:	Combination of 3 Routine Activities: <ul style="list-style-type: none"> <li>a. 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.</li> <li>b. Routine Outdoor: Conducts activities in an outdoor environment with minimal expectation for exposure to pesticides. This excludes field workers in agricultural fields. This includes gardeners who are not handling pesticides.</li> <li>c. Routine (Other/Unspecified): Conducts activities in an environment with minimal expectation for exposure to pesticides but is not adequately defined as indoor or outdoor. This includes individuals exposed to pesticides while inside a vehicle.</li> </ul>

**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.