

# **Pesticide Illness Surveillance Program (PISP) Data Dictionary**

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Worker Health and Safety Branch  
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## **Introduction**

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

## **Whom to Contact**

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## **About the Pesticide Illness Surveillance Program Data**

Pesticide illness is a reportable condition in California and DPR's PISP is tasked with collecting and evaluating reports of pesticide illness or injury. Under California Health and Safety Code section 105200, health care providers are required to report any suspected case of pesticide-related illness or injury to their local health officer (LHO) within 24 hours of examining the patient. In addition to the pesticide illness reports from the LHO, PISP also receives illness reports from the California Poison Control System's online morbidity reporting and review workers compensation reports forwarded by the Department of Industrial Relations. These illness reports are then forwarded to the local county agricultural commissioners to investigate the exposure circumstances. Findings from the investigation, and information on the illness report and medical records are recorded in the database. The database seeks to capture a description of the pesticide exposure, causal products, injury and treatment data, assessment of the relationship of exposure to illness, and role of personal protective equipment use among other variables. The data are used primarily to determine trends in illness and injury associated with a particular pesticide or activity. Additional information is available on the [departmental web site](#).

## REFERENCE TABLES

This documents contains references tables for most of the data fields within the PISP database. Each table lists the category name for each variable and the definition for each entry.

## GENERAL DEFINITIONS

<b>Variable</b>	<b>Definitions</b>
Year	Year injury reported.
Case_No	Program identification number assigned to the case.
Date Of Injury	Date of reported exposure.
Medical Description	List of symptoms and other medically related information.
Narrative Description	Brief descriptive narrative of the exposure incident.
Pesticide(s)	The active ingredient(s) or common name of the pesticide(s)
Registration Number(s)	California registration number(s) of the product(s).

## ACTIVITY

Activity of the individual at the time of exposure.

Category	Definition
Mixer/Loader	Mixes and/or loads pesticides. This includes: (1) removing a pesticide from its original container, except for direct application; (2) transferring the pesticide to a mixing or holding tank; (3) mixing pesticides prior to application; (4) driving a nurse rig to an application site (end-user); (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, calibrates equipment, retrieves or stores pesticides or application equipment). These people are exposed to a pesticide that they are applying. Connecting pressurized gas for immediate dispersal (e.g., chlorine, fumigant) to application equipment is an application activity. This includes people exposed while making an application who do not become aware of it until later (e.g., by rubbing their eyes with contaminated hands/gloves). It also includes people who mix/load as well as apply, and who know of no exposure.
Flagger	Flags for an aerial application, either fixed-winged or helicopter.
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 (classified as APPLICATOR and 'Clean/Repair' checked under 'Task'), 2) maintenance performed by mixer/loaders on their equipment incidental to mixing and loading (classified as MIXER/LOADER and 'Clean/Repair' checked under 'Task').
Pack/Proc	Handles (packs, processes or retails) agricultural commodities from the packinghouse to and including the final market place (farm stand or produce department). This includes handling plants on nursery docks only (i.e., workers who did not enter growing areas). Field packing of agricultural commodities is classified as FIELD WORKER. Cases that occur at a crop or livestock packaging/processing facility and involve a person with a heightened risk for exposure by virtue of working there, but do not handle agricultural commodities (such as mechanics, janitors, and office staff) are classified according to the activity at the time of exposure.

**ACTIVITY** (continued)

<b>Category</b>	<b>Definition</b>
Field Worker	Works in an agricultural setting performing tasks such as harvesting, thinning, irrigating, driving a tractor (except as part of an application, select TRACTOR DRIVER under TASK), field packing, conducting cultural practices in a greenhouse, livestock production etc. Includes advisors, scouts and researchers performing similar tasks in an agricultural field. Pesticide users may be classified as FIELD WORKERS if they are exposed to pesticide from a source other than the application they participate in. FIELD WORKERS may also include those who apply bleach solution to produce to prevent browning during field packing. Concentration of antimicrobials may determine if activity is FIELD WORKER or APPLICATOR.
Routine Indoor	Conducts activities in an indoor environment (i.e., in a location of restricted air movement) with minimal expectation for exposure to pesticides. These locations include offices, businesses, residential structures, and crawl spaces. These people are not handling pesticides during the time of exposure. Young children perform a routine activity when they expose themselves to pesticides (by ingestion, spill, squirt, etc.) in the course of exploring their environment. Recreational swimmers in an indoor pool are also engaged in routine activity. It also includes anyone unaware that a pesticide is included in the material they transport, store, or dispose of in an indoor environment.
Routine Outdoor	Conducts activities in an outdoor environment (i.e., in a location of unrestricted air circulation) with minimal expectation for exposure to pesticides. This excludes field workers in agricultural fields. This includes gardeners who are not handling pesticides. It also includes anyone unaware that pesticide is included in the material they handle, such as garbage collectors who encounter discarded pesticide in outdoor trash. Includes utility workers in agricultural areas, unless actually in crop areas or in vehicle, in which case the activity is classified as ROUTINE (OTHER/UNSPECIFIED).
Routine (Other or Unspecified)	Activity is conducted in an environment with minimal expectation for exposure to pesticides, but is not adequately defined as ROUTINE INDOOR or ROUTINE OUTDOOR. These people are not handling pesticides at the time of exposure. This includes exposure during routine activity while inside a vehicle.
Manuform	Manufactures, processes or packages pesticides.

## ACTIVITY (continued)

Category	Definition
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 (not ancillary to an application) is also included in this activity. This excludes driving a nurse rig to an application site (end-user), as well as a delivery driver who performs preparatory work such as calibration; these are classified as MIXER/LOADER. Persons unaware that pesticide is included in the material they transport, store or dispose of, such as garbage collectors who encounter discarded pesticide in trash, are classified as ROUTINE.
EmerResp	Emergency response personnel (police, fire, hospital staff, ambulance and HAZMAT personnel) responding to a fire, spill, accident or any pesticide incident in the line of duty.
Other	Activity is not adequately described by any specifically defined activity category. This includes: 1) exposure to pesticide in the course of two or more defined activities; 2) an activity causing increased risk of pesticide exposure in some way not expressed by any defined activity, (e.g., lifeguards, dog groomers who did not handle pesticides, individuals who work with preservative-treated wood). This includes people (such as utility workers) who enter crop areas for non-agricultural purposes.
Unknown	Activity is not known.

## AGE

Age in years of the affected individual at the time of the incident.

Age	Definition
Numeric	Specific age in years.
Unknown minor	Specific age is unknown; however, information provided indicate the individual is less than 18-years old.
Unknown adult	Specific age is unknown; however, information provided indicate the individual is 18-years old or older.
Unknown	Unable to determine the age of the affected person.



## AGRICULTURAL/NON-AGRICULTURAL

Indicates whether the suspected pesticide(s) is intended to contribute to the production of agricultural commodities.

Ag/Non-Ag Category	Definition
Agricultural	The pesticide(s) is intended to directly contribute to the production of agricultural commodities, including livestock. This includes: 1) agricultural research facilities, 2) handling of raw agricultural commodities in packing houses (Exposure to pesticides used at facilities where produce is further processed, such as freezing, canning, dicing, etc., or pesticides applied to processing equipment/room at food/crop processing facilities, should be entered as non-agricultural.), 3) drift from agricultural applications into non-agricultural areas, 4) transportation and storage of pesticides on farm lands, 5) mosquito abatement in rice field, 6) fly suppression in livestock production, 7) applications to uncultivated agricultural land, and 8) suppression of vermin by growers. It excludes manufacture, transportation, and storage of pesticides prior to arrival at the site of agricultural production.
Non-Agricultural	The pesticide(s) is not intended to contribute to the production of agricultural commodities. This includes: 1) residential pesticide uses, 2) structural pest control, 3) rights-of-way, 4) parks, 5) landscaped urban areas, 6) manufacture, transportation and storage of pesticides except on farm lands, and 7) forestry operations for conservancy.
Unknown	It is not known whether or not the suspected pesticide(s) is intended to contribute to the production of agricultural commodities.

## **APPLICATION SITE OR COMMODITY**

Site of the pesticide application or commodity being protected. For incidents involving off-site movement, the intended application site is listed. For crops, this includes applications at the growing site and to the commodity while being packed for sale.

### **CROP: FRUITS**

#### **Berries**

<b>Application Site Category</b>	<b>Definition</b>
Small Fruits (Other Or Unspecified)	Other berries, not listed elsewhere.
Blackberries	Blackberries
Loganberries	Loganberries
Raspberries	Raspberries
Blueberries	Blueberries
Strawberries	Strawberries

#### **Citrus**

<b>Application Site Category</b>	<b>Definition</b>
Citrus (Other Or Unspecified)	Citrus, unknown type or not listed elsewhere.
Grapefruit	Grapefruit
Lemons	Lemons
Limes	Limes
Oranges	Oranges
Citron	Citron

**CROP: FRUITS** (continued)

**Grapes**

<b>Application Site Category</b>	<b>Definition</b>
Grapes	Grapes – table, wine or raisin (on the vine).
Raisins (Dried Grapes)	Raisins – After grapes are picked and drying has begun.

**Pome Fruit**

<b>Application Site Category</b>	<b>Definition</b>
Pome Fruit (Other or Unspecified)	Pome fruit, unknown type or not listed elsewhere.
Apples	Apples
Pears	Pears
Pome Fruit Hybrids	Pome fruit hybrids

**Stone Fruit**

<b>Application Site Category</b>	<b>Definition</b>
Stone Fruit (Other or Unspecified)	Stone fruit, unknown type or not listed elsewhere.
Apricots	Apricots
Cherries	Cherries
Nectarines	Nectarines
Peaches	Peaches
Plums	Plums
Prunes	Prunes – After plums are picked and drying has begun.

## **CROP FRUITS** (continued)

### **Other Fruit**

<b>Application Site Category</b>	<b>Definition</b>
Subtropical and Tropical Fruit, (Other or Unspecified)	Subtropical and tropical fruit, unknown type or not listed elsewhere.
Bananas	Bananas
Dates	Dates
Figs	Figs
Kiwi Fruit	Kiwis
Carambola (Jalea, Starfruit)	Carambola
Avocados	Avocados
Olives	Olives
Fruit (Other or Unspecified)	Other fruit, unknown or not listed elsewhere. This excludes all other specified fruit crop categories.

## **CROP: NUT TREES**

<b>Application Site Category</b>	<b>Definition</b>
Nut Crops, Nut Trees (Other or Unspecified)	Nut crops, unknown type or not listed elsewhere.
Almonds	Almonds
Walnuts	Walnuts
Pistachios	Pistachios

## **CROP: CUCURBITS**

<b>Application Site Category</b>	<b>Definition</b>
Cucurbits (Other or Unspecified)	Cucurbits, unknown or not listed elsewhere. This excludes all melons.
Melons (Other or Unspecified)	Melons, unknown type or not listed elsewhere.
Cantaloupes	Cantaloupes
Watermelons	Watermelons
Cucumbers	Cucumbers
Squash	Squash

## **CROP: VEGETABLES**

### **Fruiting Vegetables**

<b>Application Site Category</b>	<b>Definition</b>
Fruiting Vegetables (Other or Unspecified)	Fruiting vegetables, unknown or not listed elsewhere.
Tomatoes	Tomatoes
Peppers	Bell and chili peppers

**CROP: VEGETABLES** (continued)

**Leafy/Stem Vegetables**

<b>Application Site Category</b>	<b>Definition</b>
Leafy/Stem Vegetables (Other or Unspecified)	Leafy and stem vegetables, unknown or not listed elsewhere.
Broccoli	Broccoli
Brussels Sprouts	Brussels sprouts
Cabbage	Cabbage
Cauliflower	Cauliflower
Artichokes (Globe)	Artichokes, excluding Jerusalem Artichokes (sunroot).
Lettuce	Lettuce
Spinach	Spinach
Celery	Celery

**Root Crop Vegetables**

<b>Application Site Category</b>	<b>Definition</b>
Garlic	Garlic
Onions (Dry)	Onions, excluding green onions (scallions).
Potatoes	Potatoes
Root Crops (Other or Unspecified)	Root crops, unknown or not listed elsewhere.
Carrots	Carrots
Beets	Beets, excluding sugar beets.

## **CROP: VEGETABLES** (continued)

### **Seed and Pod Vegetables**

<b>Application Site Category</b>	<b>Definition</b>
Seed and Pod Vegetables (Other or Unspecified)	Seed and pod vegetables, unknown or not listed elsewhere.
Garbanzos (Including Chick Peas)	Garbanzo beans including chickpeas.
Beans (Other or Unspecified)	Beans, unknown or not listed elsewhere.
Peas	Peas
Sunflowers	Sunflowers
Soybeans	Soybeans

### **Other Vegetables**

<b>Application Site Category</b>	<b>Definition</b>
Asparagus (Spears, Ferns, Etc.)	Asparagus
Mushrooms	Mushrooms
Onions (Green)	Green onions (scallions)
Vegetables (Other or Unspecified)	Other vegetables, unknown or not listed elsewhere. This excludes all other specified vegetable crop categories.

## **CROP: OTHER CROPS**

### **Fiber Crop**

<b>Application Site Category</b>	<b>Definition</b>
Cotton	Cotton

**CROP: OTHER CROPS** (continued)

**Forage Crops**

<b>Application Site Category</b>	<b>Definition</b>
Forage - Fodder Grasses (Other or Unspecified Hay)	Forage and fodder grasses, excluding alfalfa.
Alfalfa	Alfalfa including hay, green chop for feed, and unspecified uses.

**Grain**

<b>Application Site Category</b>	<b>Definition</b>
Grain Crops (Other or Unspecified)	Grain crops, unknown or not listed elsewhere. This excludes hay crops.
Corn	Corn
Sorghum	Sorghum
Wheat	Wheat
Rice	Rice

**Herbs/Spice**

<b>Application Site Category</b>	<b>Definition</b>
Flavoring and Spice Crops (Other or Unspecified)	Flavoring and spice crops, unknown or not listed elsewhere.
Parsley	Parsley



**CROPS: OTHER CROPS** (continued)

**Oil Crops**

<b>Application Site Category</b>	<b>Definition</b>
Crops Grown For Oil (Other or Unspecified)	Crops grown for oil, unknown or not listed elsewhere.

**Seeds**

<b>Application Site Category</b>	<b>Definition</b>
Seeds (Agricultural & Ornamental)	Seeds for the growing of agricultural commodities or ornamental plants.

**Sugar Crops**

<b>Application Site Category</b>	<b>Definition</b>
Sugar Crops (Other or Unspecified)	Sugar crops, excluding sugar beets.
Sugar Beets	Sugar beets

**Trees**

<b>Application Site Category</b>	<b>Definition</b>
Forest Trees, Forest Land (Other Or Unspecified)	Forest trees
Christmas Tree Plantations	Christmas trees

## **CROP: CROP**

<b>Application Site Category</b>	<b>Definition</b>
Research Commodity	Commodities grown or maintained for research purposes.

## **FLORA**

### **Ornamental**

<b>Application Site Category</b>	<b>Definition</b>
Ornamental Bulb, Corm, Rhizome Plants	Ornamental bulb, corm and rhizome plants.
Carnations	Carnations
Chrysanthemums	Chrysanthemums
Orchids	Orchids
Poinsettias	Poinsettias
Alstroemeria (Peruvian Lily, Lily-Of-The-Incas)	Alstroemeria
Ornamental Plants (Other or Unspecified)	Ornamental plants, unknown or not listed elsewhere.
House Plants	Tender plants grown for ornamental use and located inside a structure.
Roses	Roses

### **Trees**

<b>Application Site Category</b>	<b>Definition</b>
Ornamental and/or Shade Trees	Ornamental and/or shade trees.

**FLORA** (continued)

**Turf**

<b>Application Site Category</b>	<b>Definition</b>
Ornamental Sod Farm (Turf)	Turf growing on a farm.
Turf, Golf Course (Fairways, Greens, Rough)	Turf on a golf course.
Ornamental Lawns	Turf including landscaped lawns in residential yards, median strips and around business establishments. This excludes turf on a golf course and turf growing on a farm.

**Non-Crop**

<b>Application Site Category</b>	<b>Definition</b>
Pastures, Rangeland	A tract of land for the grazing of animals.
Soil	Soil being prepared for planting purposes. This includes potting soil as well as fields where the pesticide is injected or incorporated into the soil.
Irrigation Systems (Ditches, Canal Banks, Etc.)	Irrigation canals and ditches outside of agricultural fields. This includes the adjacent ditch banks.
Agricultural Drainage Systems	Ditches designed to carry excess water away from agricultural fields.
Uncultivated Agricultural Areas (Other or Unspecified)	Agricultural areas, unknown or not listed elsewhere, not having been tilled or prepared for planting. This includes fallow fields.
Uncultivated Non-Agricultural Areas	Non-agricultural areas not having been tilled or prepared to planting. This includes areas along the freeways that are not landscaped but may be maintained for weed control.

## **OTHER**

### **Other/Misc**

<b>Application Site Category</b>	<b>Definition</b>
Cannabis (All or Unspecified)	Any part of the flowering plant <i>Cannabis</i> (also known as marijuana).
Industrial Hemp	A variety of the <i>Cannabis sativa</i> plant grown specifically for industrial uses, e.g., paper, biodegradable plastics, textiles.

## **FAUNA**

### **Pets**

<b>Application Site Category</b>	<b>Definition</b>
Pets (Other or Unspecified)	Pets including rabbits, rodents, birds, amphibians and reptiles. This excludes dogs and cats.
Cats	Cats
Dogs	Dogs

## **FAUNA** (continued)

### **Livestock**

<b>Application Site Category</b>	<b>Definition</b>
Dairy Animals	Dairy animals. This includes cows, goats and other mammals kept for milk production.
Farm Animals – Livestock (Other or Unspecified)	Livestock, unknown or not listed elsewhere. This includes horses and unknown animals at a petting zoo.
Cattle	Cattle raised for beef.
Goats	Goats, except for dairy.
Sheep	Sheep
Swine (Hogs, Pigs)	Hogs and pigs
Poultry (Other or Unspecified)	Poultry, unknown or not listed elsewhere
Chickens	Chickens
Turkeys	Turkeys
Eggs (Poultry)	Poultry eggs
Non-Farm/Non-Pet Animals	Undomesticated non-farm and non-pet animals living in the wild, e.g., coyotes, sea otters.
Animals (Other or Unspecified)	Animals, unknown or not listed elsewhere.
Laboratory Research Animals	Animals being used in laboratory research.
Zoo Animals	Wild animals living in a zoo.

### **Other Fauna**

<b>Application Site Category</b>	<b>Definition</b>
Human Sites (Other or Unspecified)	Human beings

## **FAUNA** (continued)

### **Non-Crop**

<b>Application Site Category</b>	<b>Definition</b>
Animal Burrows (Vertebrate & Insect Pests)	Animal burrows
Ant Dens/Hills/Mounds	Ant colony dens. This excludes all ant activities away from the den.

## **FOOD**

### **Processed Foods**

<b>Application Site Category</b>	<b>Definition</b>
Cereals, Processed	Processed cereal
Herbs And Spices, Condiments, Etc. (Processed)	Processed herbs and spices
Processed Foods (Other or Unspecified)	Processed foods, unknown type or not listed elsewhere.
Cheese, Cheese Byproducts	Cheese and cheese byproducts

### **Other Foods**

<b>Application Site Category</b>	<b>Definition</b>
Animal Feed	Animal feed

## **EQUIPMENT**

### **Fixtures**

<b>Application Site Category</b>	<b>Definition</b>
Milking Equipment (Milking Machine, Etc.)	Automatic milking equipment within the dairy barns.
Agricultural and Farm Equipment (Other Or Unspecified)	Agricultural equipment, unknown or not listed elsewhere. This includes nursery and greenhouse equipment.
Food Dispensing Equipment	Food dispensing equipment including soft serve ice cream machines and beverage dispensing machines.
Laundry	Laundering of clothing, bedding, diapers, etc.
Toilets	Toilet bowls and urinals
Air Filters, Air Conditioner & Furnace Filters	Heating and air conditioning system filters and intake areas.
Irrigation Line (Maintenance)	Irrigation line equipment.

### **Implements**

<b>Application Site Category</b>	<b>Definition</b>
Eating Establishments (Equipment & Utensils)	Establishment: food preparation equipment, dishes and utensils.
Hospital Instruments, Machines, Implements, Etc.	Used medical instruments, machines and implements.
Barber Shop/Beauty Shop Equipment/Instruments	Barber shop and beauty shop equipment.
Diaper Pails	Diaper pails
Inanimate Objects	Inanimate objects, not listed elsewhere.

## **STRUCTURAL**

### **Premises**

<b>Application Site Category</b>	<b>Definition</b>
Feed/Food Storage Areas (Unspecified)	Feed and food storage areas, unknown or not elsewhere listed.
Egg Handling Areas/Equipment	Facilities and equipment that handle poultry eggs.
Dairy Farm Milk Handling Facilities & Equipment	Facilities and equipment that handle milk. This includes: 1) milk storage facilities and equipment at the dairy, 2) milk storage rooms, 3) milking stalls and parlors, and 4) milk processing and packaging plants.
Dairy Barns	Dairy barns where dairy animals are fed and kept.
Animal Husbandry Premises	Animal husbandry premises excluding dairy farms. This includes, but is not limited to: 1) barns for horses and other animals, and 2) kennels for companion animals.
Beehives	A bee colony's nest.
Silos	Empty silos and elevators. Silos containing a crop are classified under the type of crop held in the silo.
Greenhouses (Environs, Benches, Etc.)	Structures and components of greenhouses and mushroom houses including benches, walkways and other areas distinct from crop production.
Household or Domestic Dwelling (Other or Unspecified)	Domestic dwellings, unknown site or not listed elsewhere.
Cracks & Crevices	Spot treatment of cracks and crevices inside structures including small spaces between equipment and building surfaces. This excludes wall voids.
Baseboards	Baseboards and adjacent wall and floor areas inside structures.
Food Processing/Handling Plant/Area (Other or Unspecified)	Food processing plants and equipment, unknown or not listed elsewhere. This includes wholesale and retail establishments (e.g., take-and-bake pizza businesses and grocery store delicatessens).



**Premises** (continued)

<b>Application Site Category</b>	<b>Definition</b>
Eating Establishment (Other or Unspecified)	Eating establishments, unknown site or not listed elsewhere. This excludes the following application sites: crack and crevice, baseboards, wall voids and carpets.
Eating Establishments (Non-Food Areas)	Eating establishment: non-food areas. This excludes the following application sites: crack and crevice, baseboards, wall voids and carpets.
Eating Establishments (Food Handling/Serving Area)	Eating establishment: food handling and serving areas. This excludes the following application sites: crack and crevice, baseboards, wall voids and carpets.
Hospitals and Related Institutions (All or Unspecified)	Establishments that provide medical, surgical and other health services. This includes hospital lobbies and waiting areas.
Carpets	Installed carpets except the edge of carpets that are treated as part of an application to the baseboards.
Bathroom Premises (Lavatories, Restrooms, Etc.)	Bathroom premises including showers, bathtubs, sinks, mirrors, walls and floors, but excluding toilets and urinals.
Surfaces (Other or Unspecified)	Surfaces, unknown type or not listed elsewhere. This includes walls, floors, and ceilings, except when the specific premise such as bathrooms, residential kitchens, eating establishments and food processing plants is listed.

## **STRUCTURAL** (continued)

### **Structure**

<b>Application Site Category</b>	<b>Definition</b>
Structural Pest Control	Structural pest control designed to protect the integrity of an existing structure by protecting it from damage by pests such as termites and fungi. This excludes treatment of surfaces and spaces for the control of pests such as ants, roaches, and mold that do not damage the structure.
Wall Voids	Space within the walls of existing structures.
Wood	Treatment of wood with a preservative to protect it from damage by insects, fungus or other wood destroying organisms. Treatment can be by pressure treatment, spraying or painting. This excludes treatment of wood in existing structures.
Commercial Transport Facilities	Loading docks and adjacent warehouse areas.

### **VEHICLE**

<b>Application Site Category</b>	<b>Definition</b>
Trucks	Empty or loaded trucks.
Automobiles, Taxis, Limos, RVs	Automobiles and recreational vehicles. This includes private and business vehicles and vehicles for hire.
Buses	Interior and exterior of buses for private or public use.

## **WASTE**

<b>Application Site Category</b>	<b>Definition</b>
Refuse And Solid Waste Sites (Other or Unspecified)	Refuse and solid waste sites, unknown or not listed elsewhere.
Refuse And Solid Waste Containers	Garbage cans and dumpsters.
Garbage Dumps	Landfills, garbage dumps, garbage reclamation centers and garbage transfer stations.

## **WATER**

<b>Application Site Category</b>	<b>Definition</b>
Ornamental Ponds, Fountains	Ornamental ponds and fountains located at private residences, commercial property or public property.
Aquatic Areas, Water Areas (Other or Unspecified)	Aquatic sites, unknown or not listed elsewhere. This includes lakes, rivers, streams and other natural bodies of water.
Swimming Pool Water Systems (Pools, Spas, Etc.)	Swimming pools and spas including the water chlorinating systems.
Animal Drinking Water (Livestock, Pet, Etc.)	Water set aside specifically for animals to drink.
Human Drinking Water Systems (Potable)	Human drinking water systems. This includes wells, and other equipment used to pump water from the water source, water treatment plants, and pipes.
Commercial & Industrial Water Cooling Tower Systems	Commercial and industrial water-cooling tower systems.
Industrial Processing Water	Treated water used by industry to contribute to the production of saleable goods.
Waste Water	Sewers and waste water treatment plants.

## UNKNOWN/NOT APPLICABLE

<b>Application Site Category</b>	<b>Definition</b>
Not Applicable	No application involved in the incident.
Unknown	Application site is not known.

## **CONTRIBUTORY FACTORS**

Factors that contributed to the incident.

<b>Contributory Factor Category</b>	<b>Definition</b>
Deliberate Poisoning	Intentionally using a pesticide to adversely affect any human bodily functions. This includes suicides, attempted suicides and criminal behavior.
Equipment Failure	Exposure resulted from the breakage or malfunction of equipment. This includes: 1) mix/load equipment; 2) application equipment; and 3) personal protective clothing or equipment.
Substantial Contact with Chemical	Direct contact with a chemical that would likely produce expected health effects. This includes, but is not limited to: 1) expected direct contact during use (e.g., washing dishes in a disinfectant solution); 2) spills and splashes on the skin or eyes; and 3) ingestion.
Odor Recorded	The affected individual reported smelling an odor at the time of the incident.
Other Accident	Unanticipated event resulting in exposure. This excludes: 1) equipment failures; 2) deliberate poisonings; and 3) spills and splashes caused by inattentive or careless behavior by the affected individual.
Not Applicable	No listed contributory factors apply.
Unknown	Contributing factors, if any, are not known.

## DATA QUALITY

Evaluation of the completeness of the provided information.

<b>Data Quality Category</b>	<b>Definition</b>
Adequate	Sufficient information is available to make an informed judgment on the relationship between pesticide exposure and the reported symptomatology (i.e., symptomatology and pesticide exposure information are available).
Complete	All of the information is included in the investigation: all medical evidence, physical evidence and a complete description of the incident. This description should include an adequate work history, adequate application history (when appropriate), interviews of all significant people, etc.

## DISABILITY DAYS

Number of full days (24-hour periods) an individual missed physical, social or work activities, such as school, due to the pesticide exposure.

<b>Disability Days</b>	<b>Definition</b>
Numeric	Specific number of missed days, including days hospitalized.
Indefinite	Disability occurred, but the extent is not known.
Unknown	Unable to determine if the affected person missed any days of work or normal activity.

## EMPLOYMENT CIRCUMSTANCES

Employment circumstances of individuals involved in the exposure.

<b>Employment Circumstances Category</b>	<b>Definition</b>
Self Employed	Affected individuals were working for themselves at the time of the incident.
Structural Pest Control Operator	The incident involved a licensed pest control operator working for a Structural Pest Control Business for hire. This includes individuals exposed to a pesticide by direct spray, off-site movement or residue related to an application made by a pest control operator.
Agricultural Pest Control Business	The incident involved a company engaged in the business of agricultural pest control for hire. This includes individuals exposed to a pesticide by direct spray, off-site movement or residue related to an application made by an agricultural pest control business.
Not Applicable	No listed employment circumstances apply.
Unknown	Employment circumstances are not known.

## ENGINEERING CONTROLS

Type of engineering controls used by the affected individual or other involved individuals at the time of the exposure.

<b>Engineering Controls Category</b>	<b>Definition</b>
Closed Mixing/Loading System	A procedure for removing a pesticide from its original container, rinsing the emptied container, and transferring the pesticide product, mixtures and dilutions and rinse solution through connecting hoses, pipes and couplings that are sufficiently tight to prevent exposure of any person to the pesticide or rinse solution. Rinsing of the original container is not required when the pesticide is used without dilution.
Water Soluble Bags	Pesticide containers that dissolve when added to water.
Enclosed Cab	A chemical resistant barrier that completely surrounds the occupant(s) of the cab and prevents contact with pesticides outside of the cab.
Air Purification System	An enclosed cab that incorporates a dust/mist filtering and/or a vapor or gas removing air purification system, as appropriate for the exposure situation.
Other	Other engineering controls not specifically described above.
None	No engineering controls involved.
Unknown	The type of engineering controls, if any, is not known.

## EQUIPMENT

Type of application or mix/load equipment, or method of application used which contributed to the exposure.

Equipment Category	Definition
Air, Other or Unspecified	Aerial application equipment, other or unspecified. This includes two or more types of aerial application equipment. The following equipment is excluded: 1) FIXED WING AIRCRAFT, and HELICOPTERS.
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 equipment. The following equipment is excluded: 1) GROUND BOOM, OTHER OR UNSPECIFIED, 2) GROUND BOOM BELOW/BEHIND, 3) OVER-THE-VINE BOOM, 4) ELECTROSTATIC SPRAYER, 5) AIRBLAST SPRAYERS, 6) POWER DUSTERS, 7) SHANK INJECTION WITHOUT TARPS, and 8) SHANK INJECTION WITH TARPS.
Ground Boom, Other or Unspecified	Ground application equipment with a spray boom. The following spray booms are excluded: 1) GROUND BOOM BELOW/BEHIND, 2) OVER-THE-VINE BOOM, and 3) ELECTROSTATIC SPRAYER.
Ground Boom Below/Behind	Ground application equipment with a spray boom located below and behind the equipment operator with the spray nozzles pointed downward.
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 the spray into an air stream created by a large fan at the back of the spray equipment.
Power Dusters	Ground application equipment used to apply dust formulated pesticides.
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.



**EQUIPMENT** (continued)

<b>Equipment Category</b>	<b>Definition</b>
Shank Injection With Tarps	Ground application equipment that uses a shank or other piece of equipment to directly apply a pesticide into the soil and a tarp is placed over the soil to restrict the pesticide to the application site.
Hand, Other or Unspecified	Hand-held application equipment, other or unspecified. The equipment must propel the pesticide from a reservoir. This includes 1) hose-end sprayers, 2) tree hole/vertebrate burrow injection rods, and 3) two or more types of hand-held application equipment. This excludes: 1) PRESSURIZED HOSE-LINE SPRAYERS, 2) HAND PUMP SPRAYER, 3) HAND-HELD DUSTERS, 4) BACK PACK SPRAYER, 5) UNPRESSURIZED HAND-HELD SPRAY EQUIPMENT, 6) AEROSOL CAN, 7) FOGGERS, and 8) AEROSOL/FOG GENERATING EQUIPMENT.
Pressurized Hose-Line Sprayers	Hand-held spray equipment attached by a long hose to a power-pressurized tank. This excludes hose-end sprayers which are classified under HAND, OTHER OR UNSPECIFIED.
Hand Pump Sprayer	Hand-held compressed air sprayer with small volume tanks (1 to 5 gallons). This excludes BACK PACK SPRAYERS.
Hand-Held Dusters	Hand-held application equipment for granules or dust. This includes belly grinders, bellows, squeeze bulbs, etc.
Back Pack Sprayer	Sprayer where the tank is worn on the back of the applicator. This may include compressed, motorized, liquid or dust.
Unpressurized Hand-Held Spray Equipment	Hand-held spray bottles (usually plastic) with built-in finger triggers. This includes battery powered continuous spray products and application syringes.
Aerosol Can	Disposable pressurized cans designed for intermittent use. The pesticide is propelled out of the can by an inert compressed gas propellant. This excludes FOGGERS.
Foggers	Disposable pressurized cans designed for the total release of the contents in a single use. The pesticide is propelled out of the can by an inert compressed gas propellant.
Aerosol/Fog Generating Equipment	Refillable application equipment designed to disperse pesticide as a small airborne droplet, either in confined spaces or outdoor areas. These include truck-mounted equipment for outdoor use, hand-carried portable units and wall mounted electric units that are found in dairies, restaurants, etc.

**EQUIPMENT** (continued)

<b>Equipment Category</b>	<b>Definition</b>
Chamber	A sealed enclosure used for treating its contents. This includes shipping containers, truck trailers and railroad cars; and fumigation of commodities, pressure treatment of wood, and sterilization of medical/dental instruments and equipment.
Tarp	Tarp placed over a commodity or structure and designed to restrict a fumigant to the application site. This includes tarped structures where fumigant is introduced by other equipment, and tarped agricultural commodities such as nuts where fumigant pellets are manually placed. This excludes tarps used in conjunction with drip irrigation equipment, which is entered as DRIP IRRIGATION EQUIPMENT.
Automatic Equipment, Other or Unspecified	Equipment that automatically injects the pesticide to the target area. This includes equipment attached to milking machinery, dishwashers, ozone generators, etc. This excludes enclosed and sealed CHAMBERS, AUTOMATIC EQUIPMENT, CHLORINATORS, DRIP IRRIGATION EQUIPMENT, and SPRINKLER IRRIGATION EQUIPMENT.
Automatic Equipment, Chlorinators	Chlorination units that automatically inject chlorine into water for disinfection purposes. This includes chlorinators for swimming pools, packing houses and food processing plants.
Drip Irrigation Equipment	Chemigation through drip irrigation equipment.
Sprinkler Irrigation Equipment	Chemigation through sprinkler irrigation equipment.
Manual Application Methods, Other or Unspecified	Manual application methods, other or unspecified. The pesticide is not propelled by any type of equipment. This includes two or more types of manual application methods. This excludes: 1) IMMERSION EQUIPMENT, 2) IMPLEMENTS WITH HANDLES, 3) IMPLEMENTS WITHOUT HANDLES, and 4) MANUAL PLACEMENT.
Immersion Equipment	Tanks, trays, sinks, etc. used for the dipping of animals, produce, bulbs, medical equipment, dishes, pots and pans, etc.
Implements with Handles	Mops, brushes, and other implements with handles.
Implements without Handles	Cloths, towels, rags, sponges, wipes and other implements without handles.

**EQUIPMENT** (continued)

<b>Equipment Category</b>	<b>Definition</b>
Manual Placement	Manual placement of a pesticide directly to a target site. This includes bait stations, hand tossed pellets, pool chlorine floating dispensers, and direct pouring of a pesticide onto a target surface from a container (such as pouring liquid chlorine directly into swimming pool water or squeezing flea treatment for household pets). This excludes the placement of fumigation pellet packs in CHAMBERS and under TARPS.
Other	Any equipment or mode of application not described above. This includes the use of two or more types of equipment or mode of application that are not covered by any of the preceding codes. The application methodology is typically described in the comments. This excludes two or more types of hand-held application equipment (HAND, OTHER OR UNSPECIFIED) and two or more types of manual application methods (MANUAL APPLICATION METHODS, OTHER OR UNSPECIFIED).
Not Applicable	No application equipment is involved or exposure from original container without known method of application.
Unknown	The type of application equipment or method of application is not known.

## TYPE OF EXPOSURE

Characterization of how an individual came in contact with a pesticide.

Exposure Category	Definition
Off-site Movement	Spray, mist, vapors, particulates, or odor carried from the target site by air during an application or mix/load activity.
Residue	The part of a pesticide that remains in the environment for a period of time following an application or off-site movement. This includes odor detected after the completion of an application (post-application volatilization).
Direct Spray/Squirt	Material propelled by the application or mix/load equipment. Contact with the material can be by direct projection or ricochet. This includes exposure of mechanics working on application or mix/load equipment when the material is forced out by pressure. Also includes initial exposure by DIRECT SPRAY/SQUIRT where pesticides move (roll or drip) to another body site where symptoms developed.
Spill/Other Direct	Any of the following: 1) direct contact where the material is not propelled by the application or mix/load equipment; (e.g., washing dishes in a disinfectant solution, 2) exposure of people who are in the target area during fumigation/fogging, since pesticide is at full effective concentration or continuous dispersion (e.g., automatic chlorinator), and 3) initial exposure by SPILL/OTHER DIRECT where pesticides move (roll or drip) to another body site where symptoms developed.
Ingestion	Intentional or unintentional oral ingestion. This includes ingestion of residue (on food, produce, toys).
Other	Other known type of exposure not included in other exposure categories. This includes, but not limited to: 1) vapors, odor or other indirect contact from pesticide(s) not related to an application, 2) exposure to smoke or pyrolytic products from a fire where pesticides are burning, 3) includes pesticide transfer (example, from contaminated hand/glove to eye), and 4) exposure to byproducts formed not during an application or mix/load activity.
Multiple	Contact with pesticides occurred through two or more distinct mechanisms regardless of the number of pesticides involved.
Unknown	Type of exposure is not known.

## EYE PROTECTION

Type of protective eyewear worn by the affected individual at the time of exposure.

<b>Eye Protection Category</b>	<b>Definition</b>
Eye/Sun Glasses	Eyeglasses or sunglasses.
Safety Glasses	Safety glasses that provide front, and supplemental brow and temple protection.
Goggles	A protective device intended to fit the face immediately surrounding the eyes in order to shield the eyes from a variety of hazards.
Face Shield	A protective device commonly intended to shield the wearer's face, or portions thereof, in addition to the eyes, from certain hazards.
Other	Other devices used to protect the eyes not specifically described above. This includes respiratory protection devices such as full-face respirators and self-contained breathing apparatus (SCBA) that also provide eye protection.
None	No eye protection worn.
Unknown	The type of protective eyewear worn, if any, is not known.

## FORMULATION

Formulation of the pesticide product according to CDPR's label database.

<b>Formulation Category</b>	<b>Definition</b>
A0	Dust/Powder
B0	Emulsifiable Concentrate
C0	Flowable Concentrate
D0	Gel, Paste, Cream
E0	Granular/Flake
F0	Impregnated Material
G0	Microencapsulated
H0	Oil
I0	Paint/Coatings
J0	Pellet/Tablet/Cake/Briquet
K0	Pressurized Dust
L0	Pressurized Gas
M0	Pressurized Liquid/Sprays/Foggers
N0	Soluble Powder
O0	Solution/Liquid (Ready-To-Use)
P0	Wettable Powder
Q0	Suspension
R0	Dry Flowable
S0	Aqueous Concentrate
T0	Other Liquid
U0	Other (dry)
998	Not Applicable
-9	Unknown

## GENDER

Gender of the exposed individual.

<b>Gender</b>	<b>Definition</b>
M	Male
F	Female
Unknown	Unknown Gender

## HAND PROTECTION

Type of hand protection worn by the affected individual at the time of exposure.

<b>Hand Protection Category</b>	<b>Definition</b>
Cloth/Leather Gloves	Gloves or glove linings made of leather, cotton, or other absorbent materials.
Disposable Gloves	Non-reusable disposable gloves.
Short Chemical Resistant Gloves	Wrist or mid-forearm length gloves made of material that allows no measurable movement of pesticide through it during use. Gloves made of rubber, neoprene or other equivalent material qualify as chemical resistant.
Chemical Resistant Gloves, Length Not Given	Gloves of unspecified length made of material that allows no measurable movement of pesticide through it during use. Gloves made of rubber, neoprene or other equivalent material qualify as chemical resistant.
Long Chemical Resistant Gloves	Elbow length gloves made of material that allows no measurable movement of pesticide through it during use. Gloves made of rubber, neoprene or other equivalent material qualify as chemical resistant.
Other	Other protective measures used for the hands not specifically described above.
None	No hand protection worn.
Unknown	The type of hand protection worn, if any, is not known.

## HOSPITALIZATION

Number of full days (24-hour periods) an individual was hospitalized due to pesticide exposure.

<b>Days Hospitalized</b>	<b>Definition</b>
Numeric	Specific number of hospitalization days. The length of stay in the hospital includes time spent in the emergency room prior to hospital admittance.
Indefinite	Hospitalization occurred, but the extent is not known.
Unknown	Unable to determine if hospitalization occurred.

## ILLNESS QUALITY

Characteristics of the symptoms.

<b>Illness Quality Category</b>	<b>Definition</b>
Allergic	Conditions of immune mediated heightened sensitivity related to the incident. This includes, but is not limited to diagnosis of: 1) allergic or atopic conditions including allergic asthma; 2) hives; and 3) sinusitis and conjunctivitis without irritant exposure.
Chronic	Continuous or frequently recurring symptoms present over a period of months. This includes resolved conditions of at least six months duration and conditions persisting for at least three months and continuing unabated at the time of interview.
Fatal	Death occurred.
Not Applicable	No characteristic applies.



## ILLNESS TYPE

Categorization of the type of symptoms experienced.

Illness Category	Definition
Skin	Health effects involving the skin.
Eye	Health effects involving the eyes. This excludes outward physical signs (miosis and lacrimation) related to effects on internal bodily systems. These signs are classified under SYSTEMIC.
Respiratory	Health effects involving any part of the respiratory tree.
Systemic	Any health effects not limited to the skin, eye and/or respiratory systems.
Unknown	Health effects are not known.

## INCIDENT SETTING

Location where the incident occurred. The location may not coincide with the application site.

Incident Setting Category	Definition
Farm	Areas where agricultural crops are grown. This includes Christmas tree farms and shops/work buildings located on the farm, but excludes the following: 1) nurseries and greenhouses which are classified under NURSERY; 2) livestock and poultry farms which are classified under LIVESTOCK PRODUCTION FACILITY; and 3) forestry operations which are classified under FORESTS.
Nursery	Facilities (including greenhouses) growing and selling plants, bulbs, seeds, etc. This includes the production of seedlings for transplanting into agricultural fields or forests. Also included are crops grown in greenhouses such as mushrooms, cut flowers, and hydroponically grown vegetables.
Forest	Establishments engaged in the operation of timber tracts, tree farms, reforestation projects and other forest related activities. This excludes forest nurseries growing seedlings for reforestation projects. Classify these under NURSERY.
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 on-site veterinary services provided for livestock.

**INCIDENT SETTING** (continued)

<b>Incident Setting Category</b>	<b>Definition</b>
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 (Vet Hospital, Kennels, Not Livestock)	Veterinary services, animal research laboratories, animal kennels, animal control facilities, dog grooming facilities and other services provided for companion animals. This excludes livestock, which is classified under LIVESTOCK PRODUCTION FACILITIES.
Single Family Home	The house and other structures on property intended for use by a single family. This includes swimming pools and landscaped areas on the property. Shared non-residential facilities (such as pools and laundry areas) at mobile home parks are classified as MULTI-UNIT HOUSING.
Multi-Unit Housing	Apartments, multi-plexes, and other buildings on the property. This includes swimming pools and landscaped areas on the property.
Residence (Other or Unspecified)	Human habitation of unknown type, or of a type not adequately described as single family home, multi-unit housing, labor housing, or residential institution.
Labor Housing	Lodging facility or residence provided for the labor force.
Residential Institution	Dormitories, nursing homes, assisted living facilities, 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 and county jails.
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 Facility	Facilities engaged in manufacture and/or formulation of pesticides. This also includes repackaging of pesticides (e.g., facilities bottling pool chemicals).

**INCIDENT SETTING** (continued)

<b>Incident Setting Category</b>	<b>Definition</b>
Industrial and Other Manufacturing Facility	Properties used for industrial purposes, or facilities involved in the mechanical or chemical transformations of materials or substances into new products. Industrial properties include ports, docks, freight/manufacturing distribution centers and warehouses, or any property that is zoned for industrial use. This excludes: 1) facilities engaged in manufacture or formulation of pesticides which are classified under PESTICIDE MANUFACTURING FACILITY; and 2) facilities engaged in treatment of wood to protect against pest damage which are classified under WOOD TREATMENT.
Wood Treatment Facility	Facilities 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 the consumption of the end-user and providing services related to the products. This excludes restaurants which are classified under SERVICE ESTABLISHMENT.
Service Establishment	Establishments primarily engaged in providing services to individuals, businesses and government. This includes restaurants, laundries, etc. This excludes medical service establishments, which are listed under HOSPITAL/MEDICAL.
Wholesale Establishment	Establishments primarily engaged in the warehousing and direct distribution of merchandise to retail establishments or other wholesale establishments. This includes warehousing operations that ship directly to the public. For example, distribution center.
Road/Rail or Utility Right Of Way	Roads, rails or utilities and adjacent right-of-way areas. This includes aqueducts, canals, levees, 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 recreational facilities such as amusement parks, private physical fitness facilities, etc. which are classified under SERVICE ESTABLISHMENT. This excludes public golf courses which are under GOLF COURSE.
Golf Course	Land used for playing or practicing golf, including putting greens and driving ranges. This includes public courses and excludes miniature golf courses which are classified under SERVICE ESTABLISHMENT.

## INCIDENT SETTING (continued)

<b>Incident Setting Category</b>	<b>Definition</b>
Landscape, Lawn	Landscaped lawns. This excludes lawn areas in any other incident setting.
Landscape, Other	Landscaped ornamental shrub, tree, and other areas. This excludes landscaped areas in any other incident setting.
Other	Location of exposure occurred at a site not adequately described by any other incident setting category. This includes: 1) locations, not expressed by any defined incident setting, where there is an increased risk of pesticide exposure (e.g., water supply systems, reservoirs and waste water treatment plants), 2) headquarters of pest control businesses or corporate yards where pesticides are mixed and loaded. This excludes facilities engaged in manufacture and/or formulation of pesticides which are classified as PESTICIDE MANUFACTURING FACILITY.
Unknown	The location of the incident is unknown.

## OCCUPATIONAL STATUS

The relationship between the illness/injury and the individual's work.

<b>Occupational Status Category</b>	<b>Definition</b>
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).
Unknown	The relationship between the illness/injury and the individual's work is unknown.

## OTHER PROTECTION

Type of clothing or other personal protective equipment worn by the affected individual at the time of exposure. This excludes equipment for the eyes, hands and respiratory tract.

Other Protection Category	Definitions
Work Clothes	Garments such as long or short sleeved shirts, long or short legged pants, shoes, and socks. This includes street clothes worn for non-occupational cases.
Head Covering	Headgear of any kind. This includes chemically resistant headgear, hoods, hats of any kind, and scarves or bandana covering all or part of the scalp.
Chemical Resistant Boots	Footwear designed to allow no measurable movement of the pesticide through it during use. This includes chemical resistant disposable booties.
Cloth Coveralls	A one- or two-piece garment of closely woven fabric or equivalent that covers the entire body except the head, hands, and feet. The coveralls are made of fabric such as cotton or a cotton-polyester blend, and are not chemically resistant.
Coveralls (Type Unspecified)	A one- or two-piece garment of closely woven fabric or equivalent that covers the entire body except the head, hands, and feet. Type of coveralls is not known.
Disposable Coveralls	A one- or two-piece garment of closely woven fabric or equivalent that covers the entire body except for the, hands. The coveralls are made to be used once, then disposed of.
Chemical Resistant Clothing	A one- or two-piece garment that allows no measurable movement of the pesticide through it during use. The garment covers the entire body except for the hands.
Other	Other personal protective clothing or equipment not described elsewhere. For example, apron, non-chemical resistant disposable booties, etc.
None	No clothing reported.
Unknown	The type of other personal protective equipment, if any, is not known.

## PREDISPOSITION CONDITION

A pre-existing condition that makes the affected individual unusually susceptible to adverse effects from exposure to pesticides.

<b>Predisposition Category</b>	<b>Definition</b>
Allergies	A history of immune mediated heightened sensitivity to specific substances.
Asthma	A chronic respiratory disorder characterized by recurrent attacks of paroxysmal dyspnea (difficulty breathing) and wheezing due to spasmodic contraction of the bronchi.
Concurrent Infection	Presence of infection by bacteria or other disease-producing organisms at the time of exposure.
Multiple Chemical Sensitivities	A history of sensitivity to multiple chemicals.
Pregnancy	Pregnant at the time of exposure.
Previous Episodes	Similar symptoms following similar exposures to the same active ingredient(s) or chemical class in the past.
Other Preexisting Condition	Any other preexisting condition not defined above.
Not Applicable	No pre-existing conditions.

## PURPOSE

Incidents involving specific pest control programs.

<b>Purpose Category</b>	<b>Definition</b>
California Food and Agriculture Eradication Program	The incident involved a California Department of Food and Agriculture pest eradication project. The affected person either worked on the pest eradication project or was exposed to a pesticide applied for an eradication project. Specific project name is listed in the case narrative field.
Public Health	Incident involved vector control activities such as mosquito abatement.
Not Applicable	The incident did not involve a California Department of Food and Agriculture pesticide eradication project or Public Health activity.

## RELATIONSHIP

Degree of correlation between pesticide exposure and resulting symptomatology.

<b>Relationship Category</b>	<b>Definition</b>
Definite	High degree of correlation between pattern of exposure and resulting symptomatology. Requires both medical evidence (such as measured cholinesterase inhibition, positive allergy tests, characteristic signs observed by medical professional) and physical evidence of exposure (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. Health effects correspond well to the reported exposure, and causality is supported by limited or circumstantial evidence. Either medical or physical evidence is inconclusive or unavailable.
Possible	Some degree of correlation is evident. Health effects correspond generally to the reported exposure, but evidence is not available to support a DEFINITE or PROBABLE relationship. Both medical and physical evidence are inconclusive or unavailable.

## RESPIRATORY PROTECTION

Type of respiratory tract protection worn by the affected individual at the time of exposure.

Respiratory Protection Category	Definition
Unapproved Dust Mask/Bandana	Disposable dust mask or a cloth bandana covering the nose and mouth.
Half Face Respirator, Other or Unspecified	A protective device with a facepiece covering the mouth and nose to prevent inhalation of harmful substances. The following respirators are excluded: 1) HALF FACE RESPIRATOR, PARTICULATE, and 2) HALF FACE RESPIRATOR, ORGANIC VAPOR.
Half Face Respirator, Particulate	A protective device with a facepiece covering the mouth and nose to prevent inhalation of harmful substances. The filter medium is designed to reduce inhaled particulates (dust, mist, fog, and smoke). This includes filtering facepieces with NIOSH certification numbers under TC-84A (N95, etc. – these certification numbers refer to the certification filter series and efficiency level).
Half Face Respirator, Organic Vapor	A protective device with a facepiece covering the mouth and nose to prevent inhalation of harmful substances. The filter medium is designed to remove gases and vapors. These protective devices have certification numbers under TC-23C.
Full Face Respirator	A protective device with a facepiece covering the mouth, nose and eyes to prevent inhalation of harmful substances. Since a full face respirator also provides eye protection, 'FULL FACE RESPIRATOR' is also listed in the field associated with 'OTHER' eye protection.
SCBA	<b>Self-Contained Breathing Apparatus.</b> Since SCBA also provides eye protection, 'SCBA is also listed under 'OTHER' eye protection.
Other	Other respiratory protection or equipment not specifically described above.
None	No respiratory protection.
Unknown	The type of respiratory protection, if any, is not known.



## TASK

Specific task performed by the affected individual at the time of the exposure.

Task Category	Definition
Clean Repair	Applicator or mixer/loader was exposed through cleaning, repairing or conducting maintenance on pesticide contaminated equipment and personal protective equipment. This task excludes individuals whose activity is classified as 'MECHANICAL'.
Tractor Driver	Persons driving a tractor or ATV in or around an agricultural field performing tasks <i>not</i> associated with a pesticide application.
Irrigator	Persons performing tasks associated with the irrigation of agricultural fields.
Not Applicable	No listed tasks apply.

## TOXICITY

The toxicity category of the product based on a set of hazard indicators used by the U.S. EPA. These indicators are:

1) oral LD<sub>50</sub>, 2) inhalation LD<sub>50</sub>, 3) dermal LD<sub>50</sub>, 4) eye effects, and 5) skin effects.

Toxicity Category	Definition
Toxicity Category I	High toxicity. The signal word "DANGER" must appear on the front of the label.
Toxicity Category II	Moderate toxicity. The signal word "WARNING" must appear on the front of the label.
Toxicity Category III/IV	Low toxicity. The signal word "CAUTION" must appear on the front of the label.
Not applicable	Does not apply. Products exempt from registration [40 CFR 152.25(f)(1)] that do not have a signal word.
Unknown	The toxicity category of the product is not known.

## VIOLATION TYPE\*

Type of documented violations, identified either by a statement within the pesticide episode incident investigation or the investigation documents a clear violation of an explicit label statement or regulatory requirement.

<b>Violation Category</b>	<b>Definition</b>
Early Reentry	Reentered a pesticide-treated area prior to the expiration of the restricted entry interval set by regulation or listed on the product label. This excludes early reentry that meets the requirements specified by the California Code of Regulations Title 3.
Failure To Use Required Equipment	Did not use the required personal protective equipment (PPE) specified by the label or regulations. This includes PPE not in good condition and applies whether or not the employer provided the PPE. Work clothes are not PPE. This only applies if the failure to wear the specified PPE contributed to the exposure.
Other Misuse	Any violation of pesticide safety requirements other than those defined above. This only applies if not following the label or regulations contributed to the exposure.
Non-Contributory	There is a violation(s), but it did not contribute to exposure.
None	Information provided in the investigation report shows no violation occurred. Specific statements reporting that "no violation was found" will be disregarded if the investigation report indicates otherwise.
Unknown	The type of violation that occurred, if any, is not known. This includes potential violations noted in the investigation, but not substantiated due to lack of evidence.

\*NOTE: Worker Health and Safety scientists enter violations based on their evaluation of the evidence provided in illness investigative reports. Enforcement actions often remain under consideration when DPR receives the reports, so later developments may alter the conclusion.