

Pesticide Illness Surveillance Program (PISP)



California Department of Pesticide Regulation
Worker Health and Safety Branch

DECEMBER 2016

DPR's Mission



Our mission is **to protect human health** and the **environment** by regulating pesticide sale and use, and by fostering reduced-risk pest management.

Authority



- California Health and Safety Code §105200 & Title 17 California Code of Regulations §2500
 - California physicians are required to report any suspected case of pesticide-related illness or injury to the local health officer within 24 hours of examining the patient.
- Title 3 California Code of Regulations §6720-6746
 - Employer emergency medical care requirements
 - Medical Supervision Program

What is the Pesticide Illness Surveillance Program?



- A passive surveillance program
 - Receive reports -> investigate -> extract -> analyze
- Unique – a model for US pesticide programs
 - Oldest and largest program
 - Only program housed in a regulatory agency
- A team of research scientists

Sources of Illness Reports

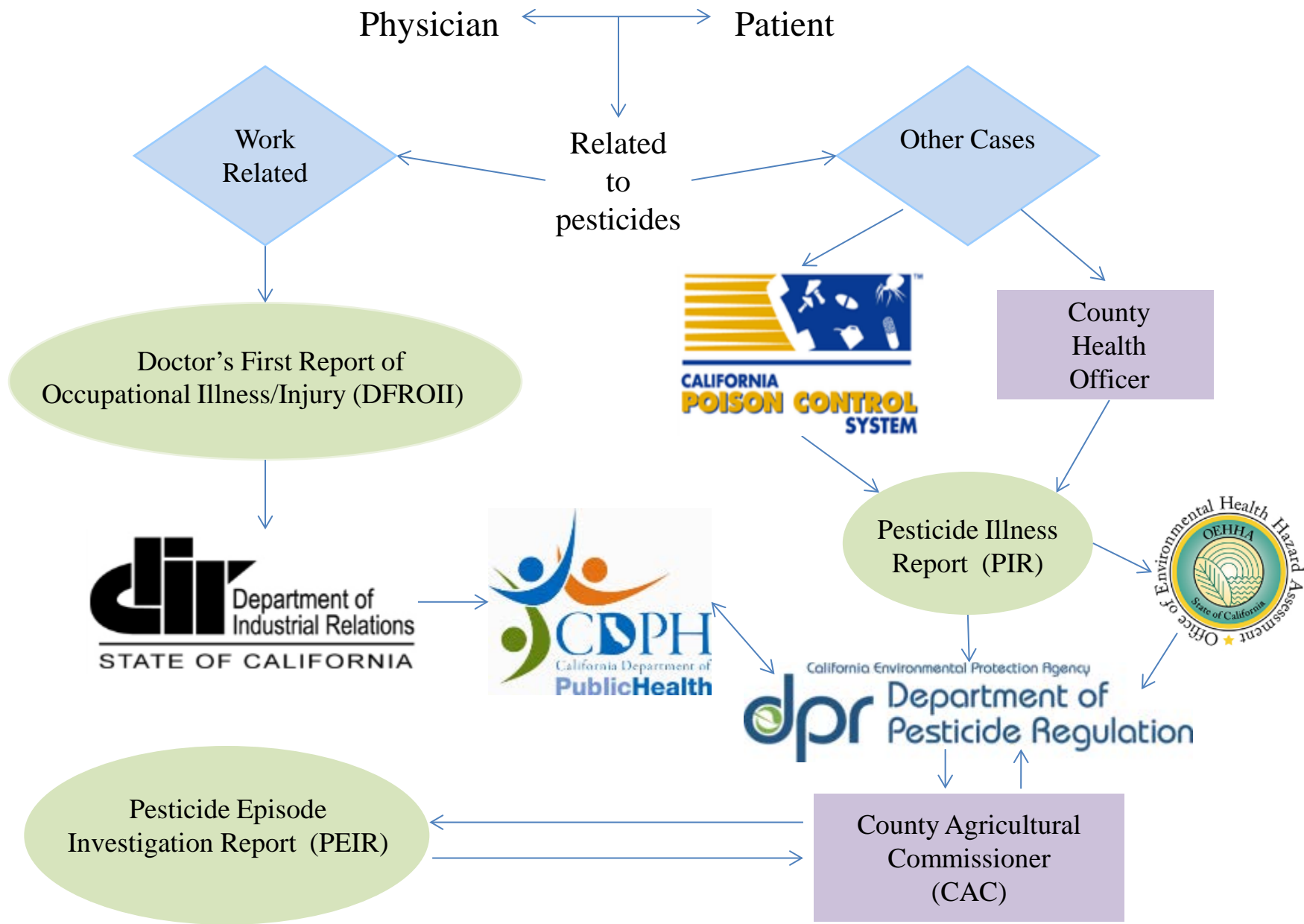


- Pesticide Incident Report
 - Local Health Officer/California Reportable Disease Information Exchange (CalREDIE)
 - California Poison Control System (CPCS)
- Doctor's First Report of Occupational Illness or Injury (DFROII)
- Complaints received by the County Agricultural Commissioners (CAC)

Criteria for Case Assignment



1. A pesticide is (or is suspected to be) involved
2. There is evidence of medical consultation or that the injured sought care
3. The exposed person has/had symptoms



How We Collect the Information



- PISP Scientists extract relevant information from investigative reports
 - PISP database has over 120 variables
- Weigh both physical and medical evidence to determine causal relationship
 - Circumstances of exposure
 - Symptoms/Medical information
 - Pesticide involved
 - Application Equipment/ PPE
 - Enforcement Information (e.g. violations)



Online Resources for Illness Data



- Past reports summarizing data starting in 1996 are available online:
 - <http://www.cdpr.ca.gov/docs/whs/pisp.htm>
- California Pesticide Illness Query (CalPIQ)
 - http://apps.cdpr.ca.gov/calpiq/calpiq_input.cfm

The PISP Annual Report Online, 1996 - 2013



<http://www.cdpr.ca.gov/docs/whs/pisp.htm>

The screenshot shows the website for the California Department of Pesticide Regulation. The header includes the CA.GOV logo, the text "California Department of Pesticide Regulation", and navigation links: "About DPR", "Join E-Lists", "A-Z Index", and "Contact Us". A search bar is present with "DPR" and "California" filters. A main navigation bar contains "HOME", "PROGRAMS", "DATABASES", "NEWS/PUBLICATIONS", and "QUICK LINKS".

The main content area is titled "Pesticide Illness Surveillance Program". It includes a left sidebar with a "HEALTH & SAFETY" menu containing links like "Pesticide Safety Information", "Consumer Fact Sheets", "Pesticide Questions?", "Worker Safety Regulations", "Worker Protection", "Mitigating Exposure", "Workplace Safety", "Community Guide", "Pesticide Illness Surveillance", and "Worker Health & Safety Programs".

The main text describes the program: "Since 1971, California law requires physicians to report any known or suspected illness caused by a pesticide exposure. The Pesticide Illness Surveillance Program (PISP) is tasked with collecting and evaluating these reports before they are assigned to county agricultural commissioners to investigate the exposure circumstances. Scientists then review the collected information and enter it in a database. This data not only reflects the effectiveness of the California's pesticide regulatory program but also identifies areas for improvement. PISP data is also used by the Exposure Monitoring and Health Investigation Program, Industrial Hygiene Program, Human Health Assessment and Human Health Mitigation Program. A handout, PDF (124 kb) describes the PISP program in more detail."

Below the text is a section titled "California PISP Annual Reports" with a dropdown menu currently set to "2013". A red arrow points from the text "Select Year" to this dropdown menu.

At the bottom of the main content area is a section titled "California Pesticide Illness Query (CalPIQ)" with two links: "California Pesticide Illness Query - Generate customized information from the Pesticide Illness Surveillance Program database." and "Data dictionary, PDF (344 kb) for the CalPIQ and PISP Annual Reports".

The DPR logo is visible in the bottom left corner of the page.

Select Year

California Online Pesticide Illness Query



California Pesticide Illness Query (CalPIQ)

Search Tips:

- Hold the CTRL key down to select multiple options within a category.
- Hold the CTRL key down to de-select a selected option within a category.
- Click on any criterion name to get more information about it.

- A complete list of definitions for the terms used in CalPIQ is available in the [PISP Data Dictionary](#).
- A list of commonly used acronyms and abbreviations is available in the [PISP Acronyms & Abbreviations List](#).

Here is what you have selected so far:

- **Start Year:** 2013
- **End Year:** 2013
- **Agricultural Use:** Both

Run Report

Clear

Year of Incident

From (select start year)

2013

To (select end year)

2013

Definitions

Agricultural (Ag) or non-agricultural (Non-ag) sources of exposure?

Both

County:

(Defaults to all)

Alameda
Alpine
Amador
Butte
Calaveras

Pesticide Criteria:

Pesticide Category Pesticide Active Ingredient Intended Use
(Defaults to all)

Insecticides/Acaricides/Termiticides/Insect Growth Regulators
Herbicides/Defoliants
Fungicides
Fumigants
Antimicrobials/Slimicides

Search for pesticide illnesses by:

- Year of Incident
- Agricultural or Non-Agricultural pesticide use
- County of occurrence
- Pesticide Category
 - insecticide, herbicide, fumigants, antimicrobial, etc.
- Incident Setting
- Application Site
- Exposure Site
- Activity at time of Exposure

Questions?



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For more information on the Pesticide Illness Surveillance Program:

- <http://www.cdpr.ca.gov/docs/whs/pisp.htm>