*2000 - 2001 Annual Report*

# Pesticide Incident Reporting and Tracking (PIRT) Review Panel

April 2002

(Includes Agency Data for 1995-1999)

Environmental Health Programs

*2000 - 2001 Annual Report*

# Pesticide Incident Reporting and Tracking (PIRT) Review Panel

A report to the legislature as required by
Chapter 380, Laws of 1989, and RCW 70.104

April 2002

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## Executive Summary

This is the tenth annual report of the Pesticide Incident Reporting and Tracking Review Panel (PIRT Review Panel). It describes the activities of the panel for the year 2000 and presents and evaluates pesticide incidents reported to four state agencies: Washington State Departments of Agriculture (WSDA), Ecology, Health (DOH), Labor and Industries (L&I), plus the Washington Poison Center (WPC) in 1999. At the request of the PIRT Review Panel this report includes data and inferences from a five-year analysis of pesticide incidents reported for the years 1995-1999.

In accordance with the PIRT Review Panel's legislative mission, response times were tracked for complaints filed with DOH, L&I and WSDA. The agencies are meeting their mandates by responding to most human health cases within 24 hours.

The following summarizes key points identified from the analysis of pesticide incident data.

### Washington State Department of Agriculture (WSDA)

For the years 1995-1999 WSDA investigated 1,110 pesticide-related complaints. Over the five years, the annual number of complaints reported and investigated decreased but the number of violations resulting from those complaints remained relatively constant. Approximately half of all complaints reported to WSDA resulted in one or more violations. The greatest number of cases with violations occurred in the agricultural environment and involved commercial applicators. Drift and human exposure continue to be the primary reasons for pesticide-related complaints. Eighty percent of WSDA complaints investigated since 1996 were rated as two or less on a severity scale of zero to six. In 1999 WSDA investigated 192 complaints. The most serious complaints involved bee kills, animal poisoning, plant damage and human exposure.

### Washington State Department of Ecology

For the years 1995-1999 Ecology investigated 170 incidents involving pesticides. Counties reporting the most complaints were Yakima and King. The majority of these complaints involved spills or other accidental releases to the environment.

### Washington State Department of Health (DOH)

From 1995 through 1999, DOH investigated 1,818 pesticide incidents involving 2,246 individuals. Approximately half of the individuals were classified as having pesticide-related symptoms. These cases were determined to be definitely, probably or possibly related to the pesticide exposure. Ninety-seven percent were classified as having a medical outcome of mild or moderate severity. Approximately half of the cases occurred in the agricultural environment. The majority of agricultural cases occurred in the production of tree fruit. Eye irritation was the most frequently (55%) reported health complaint. Most occupational incidents resulted from applicator exposure or pesticide drift. Occupational non-agricultural cases occurred primarily in office buildings and were of mild severity with eye irritation the most prevalent symptom reported. Non-occupational cases occurred most frequently in and around the home. The number of incidents reported to DOH since 1995 decreased. However, the number of individual cases determined to be pesticide related remained approximately the same, except for a decrease in 1999. In 1999, DOH investigated 271 incidents involving 332 individuals, and 140 of these were pesticide related.

## Washington State Department of Labor and Industries (L&I)

From 1995 through 1999, L&I conducted 156 pesticide-related safety and health investigations and 1,154 worker claims involving pesticides were referred to DOH for investigation. While the number of health and safety investigations remained approximately the same over the five-year period, the number of pesticide-related claims decreased by 25 percent. The greatest number (70%) of agricultural pesticide-related claims result from work in the tree fruit industry. In the non-agricultural environment the greatest number of pesticide-related claims came from the office environment.

From 1995 through 1999, fifty-four percent of the pesticide-related claims were confirmed by a health care provider. Since 1996, there has been an increase in the percentage of accepted pesticide-related claims. L&I pays the initial diagnostic and evaluation costs of worker compensation claims regardless of the final decision. In 1999, L&I conducted 37 pesticide-related investigations and 12 of these had serious violations.

## Washington Poison Center (WPC)

In 1999, the WPC responded to 2,523 calls involving pesticide exposures. This reflects approximately 2 percent of the total number of calls received by WPC. Since 1995, there has been a 25 percent reduction in the number of pesticide-related calls and a 54 percent decrease in the number of calls with moderate or major health effects. Insecticides continue to be the type of pesticide most frequently involved (64%).

## Introduction

The PIRT Review Panel was created by RCW 70.104.090 (Appendix A). Its membership consists of representatives of six state agencies, the University of Washington, Washington State University, the Washington Poison Center (WPC), a practicing toxicologist and a member of the public.

By statute, the PIRT Review Panel is mandated to perform the following activities with regard to pesticide-related incidents that have suspected health or environmental effects:

- Centralize the receipt of information regarding pesticide complaints and their investigations and monitor timeliness of agencies' response to complainants.
- Identify inadequacies in pesticide regulations that result in insufficient protection of public health.
- Submit an annual report summarizing pesticide incidents to the legislature.

Each agency conducts pesticide incident investigations in accordance with its specific statutory responsibilities (Appendix A) and reports findings to the PIRT Review Panel for evaluation and inclusion in the annual report. The PIRT Review Panel has no regulatory authority but acts in an oversight capacity to the six agencies and makes recommendations to the agencies, to the legislature or to the federal Environmental Protection Agency.

This report describes activities of the PIRT Review Panel and its recommendations for 2002. It also contains a review of the WSDA, DOH, Ecology, and L&I pesticide-related complaints and the WPC calls for 1999, and provides analyses of each agency's incident data from 1995 through 1999. Each agency review describes the most frequent causes of reported pesticide exposure and identifies risk factors for consideration by training and education programs.

### Activities of the Pesticide Incident Reporting and Tracking Review Panel

The PIRT Review Panel met seven times in 2000 and 10 times in 2001. The panel monitored each agency's response time to calls on complaints, monitored actions stemming from recommendations made in the prior PIRT Review Panel Annual Report, analyzed incident data to identify trends and patterns of problems related to pesticides, and responded to requests for special activities from the members.

**Response Times**

RCW 70.104.080 specifically directs the PIRT Review Panel to monitor agency response time to pesticide-related complaints. Response time is defined as the interval between initial receipt of a complaint and an agency's first response to the complainant. The first notification is usually by telephone, followed by a personal contact. In 1999, WSDA responded to 94 percent of all complaints within 24 hours; DOH responded to 95 percent of complaints within 48 hours; and, L&I responded to the majority of complaints within 30 days. The three agencies have different mandates for response times (Appendix A).

## Actions on 2000 Recommendations of the PIRT Review Panel:

- Prepare a five-year analysis of incident data.
  **Action**: The five-year (1995-1999) data analysis of reported pesticide incidents is included in this report. The number of reported pesticide incidents appears to be declining, however the number of incidents resulting in a WSDA "violation" and the number of incidents determined to be actually pesticide related by DOH has remained relatively constant over the five years. Overall, the severity of clinical symptoms remained of mild to moderate severity.

- Identify risk factors for the agencies to incorporate into their training and education programs.
  **Action**: The PIRT Review Panel identified risk factors from the five-year incident data analysis. The factor "off target drift" continues to be a primary source of exposure. Eye irritation from occupational exposure is the most commonly reported health complaint.

- Review agency data for active ingredients involved in pesticide incidents.
  **Action**: The panel reviewed data for active ingredients involved in incidents. No clear pattern could be established from incidents resulting in the more severe human incidents. Over the 5 years, the pesticides most frequently involved in incidents investigated by WSDA were: 2,4-D, Dicamba, Glyphosate, Azinphos-methyl, and Diazinon.

- Review a sample of pesticide labels involved in incidents to determine if instructions were adequate to have prevented the accident had they been used according to the label.
  **Action**: The PIRT Review Panel reviewed WSDA and DOH cases occurring in commercial establishments. A review of seven WSDA cases found that adverse outcomes generally occurred for applications made when people were present. Label messages were ambiguous and did not clearly advise that persons other than the applicator were to 'vacate the premise'. DOH had reports of 88 incidents that occurred in commercial establishments. The DOH review of the product labels was inconclusive because the incidents involved many different products, exposure scenarios were diverse, and the data system could not provide the specificity needed to address if directions on the label were followed correctly. The panel continues to address the issue.

- Prepare revisions to RCW 70.104.070-090 to more accurately address pesticide issues of concern to the public, and to reflect activities of the PIRT Review Panel.
  **Action:** The panel reviewed the PIRT Panel statute, RCW 70.104.070-090 and noted where revisions were needed. The panel will draft proposed revisions for introduction to a future legislative session.

- Identify agency activities regarding urban pesticide use.
  **Action:** This was an agenda item at several PIRT meetings in 2000 and 2001. Information was shared and communication increased between the agencies. The panel will carry this recommendation into next year's work plan.

**Recommendations to the PIRT Review Panel and the involved Agencies' staff:**

- Further assess the 5-year incident data and identify possible prevention measures.
- Each agency improve its process and timeline for submitting analyses of incident data for the PIRT Review Panel annual report.
- Each agency continue its appraisal of pesticide use outcomes in urban areas.
- The PIRT Review Panel and the agencies seek how to capture better information about why the incident actually occurred.
- Both PIRT Review Panel and the agencies direct additional attention to the adequacy of the product label wording.
- Prepare draft legislation to modify RCW 70.104

**Other Activities of the PIRT Review Panel**

***Pesticide Use Reporting-Other States' Experiences***
On October 20, 2000 the PIRT Review Panel held a joint meeting with the WSDA Pesticide Advisory Board in Lacey, WA. At that meeting representatives from Oregon and California briefed the attendees on the status of pesticide use reporting for their states. California has had an extensive use reporting system since 1990. Information collected includes: location, date, crop, pesticide, strength and application rate, and applicator. The data are used widely to estimate exposure rates. Oregon's program is being developed with the goal of implementation by 2002.

***Gypsy Moth Eradication-Use of Btk***
In May 2000, WSDA contracted for the aerial application of Foray 48B to 725 acres of residential Seattle to prevent infestation of the Asian gypsy moth (AGM). Foray 48B, which contains *Bacillus thuringiensis kurstaki* (Btk), a naturally occurring agent of disease in caterpillars, was applied in the neighborhoods of Ballard and Magnolia. Simultaneously, DOH surveillance yielded reports of 59 persons in 50 households with at least one health "symptom" occurring after aerial spraying. Fourteen individuals from eight households sought some type of health care. The most frequent health complaints were: cough, headache, trouble breathing, sore throat, nasal congestion, and irritated eyes. The estimated population in the spray area was 6,600. Foray 48B was also used in ground applications to control European gypsy moth in Covington and Marysville. In May 2001, ground applications were made to a 29-acre site in Vader, WA for European Gypsy moth. No complaints were reported. It was recommended that future WSDA programs continue wide and early notification and provide public access to scientific documentation.

***National Evaluation of the Worker Protection Standard (WPS) Worker Training***
Alice Larson briefed the Panel on the EPA evaluation of the effectiveness of the WPS as a means to reduce the risk of pesticide poisoning and injury among workers and pesticide handlers. The process involves representatives from farmworkers, growers, state agencies and federal representatives, etc. Preliminary findings cover whether training is happening, barriers to the training, how to make the training more effective, and effective training verification systems.

Table 1 summarizes 1999 pesticide-related incidents for each agency submitting data, and data from the Washington Poison Center. The incident data from each agency are described and evaluated in the following sections. Individual incident descriptions are found in Appendix D. Because of specific statutory responsibilities, incidents may be reported and investigated by more than one agency.

## Table 1 1999 Agency Summaries of Pesticide Incidents

**Department of Agriculture: 192 complaints.**

| | | | |
|---|---|---|---|
| Complaints | **192** | **Violations by Type of Activity** | **101** |
| Violations | 101 | ▪ Agriculture | 50 |
| | | ▪ Commercial/industrial | 19 |
| **Location of complaint**: | **192** | ▪ PCO/WDO | 11 |
| Eastern Washington | 151 | ▪ Residential (homeowner) | 10 |
| Western Washington | 41 | ▪ ROW | 1 |
| | | ▪ Other (license/records) | 10 |
| **Enforcement Actions** | **192** | **License Involved with Violations** | **101** |
| ▪ No Action Indicated | 91 | ▪ Commercial | 50 |
| ▪ Notice of correction | 64 | ▪ Private Applicator | 25 |
| ▪ Notice of Intent/Admin action | 20 | ▪ Unlicensed | 13 |
| ▪ Technical assistance/verbal warning | 5 | ▪ Public operator | 6 |
| ▪ Advisory letter/Warning letter | 10 | ▪ Commercial Consultant | 6 |
| ▪ Referred | 2 | ▪ Other | 1 |

**Department of Health: 271 incidents involving 332 individual cases.**

| | | | | | |
|---|---|---|---|---|---|
| **Type of Incident** | **271** | **Relationship to Exposure for cases** | | | **332** |
| ▪ Agriculture | 155 | ▪ Definite | 26 | ▪ Unrelated | 35 |
| ▪ Residential | 57 | ▪ Probable | 53 | ▪ Asymptomatic | 27 |
| ▪ Commercial/industrial | 25 | ▪ Possible | 61 | ▪ Unknown | 64 |
| ▪ Other | 34 | ▪ Unlikely | 66 | | |
| Childhood Cases ≤ 18 years old | **44** | **Definite, Probable, or Possible Cases** | | | **140** |
| ▪ Definite, probable, or possible | 14 | ▪ Non agricultural | | | 72 |
| | | ▪ Agriculture | | | 68 |

**Department of Labor & Industries: 37 Industrial Safety and Health Act (WISHA) complaints**

| | |
|---|---|
| **Pesticide Related Inspections** | **37** |
| ▪ Citations | 30 |
| Type of Business | |
| ▪ Orchard | 16 |
| ▪ Vegetable crops/berries | 7 |
| ▪ Other (e.g., bulb warehouse, hops, golf courses) | 5 |
| ▪ Greenhouses/nurseries | 5 |
| Hay fumigation | 2 |
| Structural pest | 2 |

**Department of Labor & Industries: 183 worker compensation claims.**

| | |
|---|---|
| **Worker Compensation Claims** | **183** |
| Agriculture | 130 |
| Non Agriculture | 53 |
| **Benefits** | |
| ▪ Accepted | 118 |
| ▪ Rejected | 63 |
| ▪ Claim pending | 1 |
| ▪ Kept on Salary | 1 |

**Washington Poison Center: 2,523 calls**

## Washington State Department of Agriculture

1995-1999 Summary

From 1995 though 1999, the Washington State Department of Agriculture (WSDA) investigated 1,110 reported complaints involving pesticide use, sales, distribution, applicator licensing, and building structure inspections for Wood Destroying Organisms (WDO). Forty-seven percent (518) resulted in violations of WSDA rules and regulations (Table 2). During this time period WSDA saw a 26 percent reduction in the number of complaints reported.

1999 WSDA Complaint Investigations

In 1999, WSDA investigated 192 complaints (6 percent reduction from 1998) and 101 (53%) resulted in one or more violations. After investigation, it was found that 162 (84%) involved pesticide applications and 83 (51%) of these resulted in violation, and 30 (16%) were complaints such as licensing that were unrelated to actual pesticide applications with 18 (60%) of these resulting in violation.

WSDA is required to respond to cases of human exposure within 24 hours of receipt. Investigation begins on non-human exposure cases as soon as resources allow, generally within 2-3 days. In 1999, WSDA responded to 94 percent of all complaints within 24 hours. All human exposure responses were made within 24 hours except for one case where the wrong contact information was provided.

**Location**

One hundred fifty-one (79%) of the 1999 complaints occurred in eastern Washington; 41 (21%) were from western Washington. The ten counties reporting the most complaints were: Grant (29), Yakima (26), Spokane (18), Benton (17), King (14), Chelan (9), Pierce (8), Walla Walla (8), Franklin (7) and Okanogan (7).

**Table 2 WSDA Complaints and Violations**

| Year | Total Complaints | Violations Found |
|---|---|---|
| 1995 | 259 | 87 (34%) |
| 1996 | 251 | 104 (41%) |
| 1997 | 204 | 110 (54%) |
| 1998 | 204 | 116 (57%) |
| 1999 | 192 | 101 (53%) |

**1999 WSDA Complaints by County**

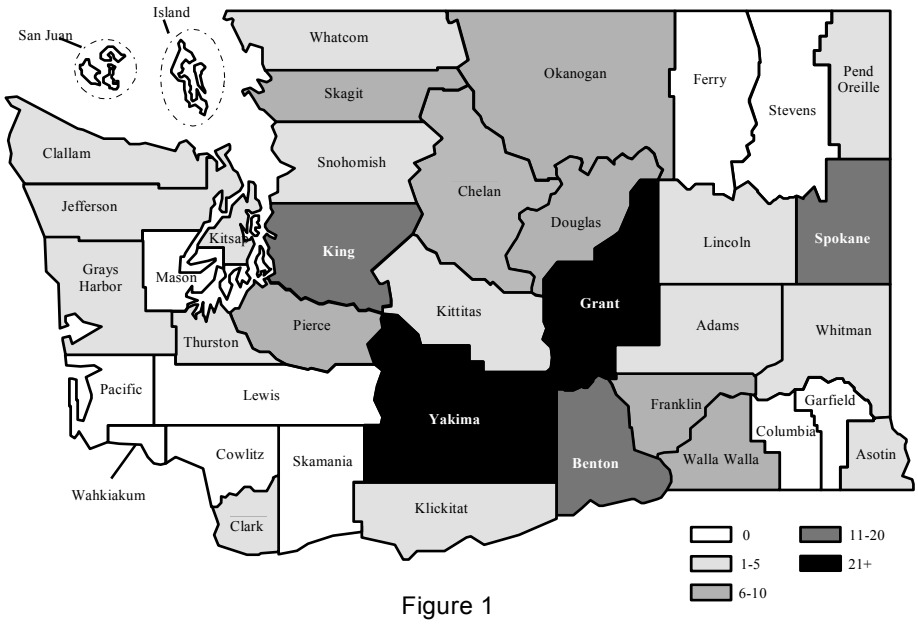



Figure 1

From 1995-1999, the counties with the most complaint investigations were Yakima (128), Spokane (119), Grant (111), King (92), Benton (50), Pierce (50), Skagit (39), Snohomish (21), and Chelan (19.)

**Table 3 WSDA Counties with the most complaint investigations 1995 – 1999**

| 1995 | | 1996 | | 1997 | | 1998 | | 1999 | |
|---|---|---|---|---|---|---|---|---|---|
| Spokane | 37 | Spokane | 26 | Grant | 24 | Yakima | 28 | Grant | 29 |
| Yakima | 27 | King | 25 | Yakima | 22 | Grant | 26 | Yakima | 26 |
| King | 19 | Yakima | 25 | King | 20 | Spokane | 20 | Spokane | 18 |
| Skagit | 17 | Grant | 16 | Spokane | 18 | King | 14 | Benton | 17 |
| Grant | 16 | Whatcom | 14 | Pierce | 13 | Benton | 13 | King | 14 |
| Pierce | 16 | Pierce | 13 | Benton | 10 | Chelan | 10 | Chelan | 9 |
| Benton | 14 | Skagit | 13 | Skagit | 9 | Okanogan | 10 | Pierce | 8 |
| Snohomish | 12 | Clark | 11 | Snohomish | 9 | Whitman | 10 | Walla Walla | 8 |
| Walla Walla | 12 | Benton | 10 | Okanogan | 8 | | | | |

**Type of Activity Involved in Complaints**

Table 4 below shows the type of activities involved in the complaints that resulted in violations from 1995 to 1999. The following WSDA definitions apply to type of complaint.

- **Agricultural:** Incidents occur in an agricultural environment such as farming, forestry, greenhouses, or Christmas tree farming.
- **Commercial/industrial:** Incidents by licensed operators to offices, restaurants, homes, and landscapes.
- **Pest Control Operator (PCO):** Incidents involving a subset of commercial/industrial operators licensed to make applications to control structural pests.
- **Wood Destroying Organism (WDO):** Incidents involving inspections on structures for fungi, insects, and conditions that lead to pest conditions. No pesticide applications are made.
- **Residential:** Includes any application of a pesticide in a residential environment by the homeowner, resident, or neighbor.
- **Right-of-ways:** Applications made on public land such as roadways, electric lines and irrigation canal banks.
- **Other:** WSDA code for undefined use and includes licensing, storage, registration, records, and similar actions.

**Table 4 1995 – 1999 WSDA Violations by Type of Activity**

| Activity | 1995 | 1996 | 1997 | 1998 | 1999 | Total |
|---|---|---|---|---|---|---|
| Agricultural | 26 | 29 | 40 | 54 | 50 | 199 (38%) |
| Commercial/Industrial | 24 | 27 | 22 | 22 | 19 | 114 (22%) |
| PCO/WDO* | 28 | 20 | 24 | 8 | 11 | 91 (18%) |
| Residential (non commercial) | 3 | 9 | 8 | 7 | 10 | 37 (7%) |
| Right-of Way** | ** | 3 | 10 | 12 | 1 | 26 (5%) |
| Other (licenses, records, etc.) | 6 | 16 | 6 | 13 | 10 | 51 (10%) |
| **Total Violations** | **87** | **104** | **110** | **116** | **101** | **518** |

**In 1996, Wood Destroying Organisms were included with Pest Control Operators.*
*** Prior to 1996, right-of-ways were included with commercial/industrial.*

When violations are evaluated by type of license involved for the five-year period, commercial applicators accounted for 270 (52%) of the violations, private applicators accounted for 94 (18%), public operators accounted for 33 (6%), commercial consultant accounted for 17 (3%), unlicensed accounted for 92 (18%), and other accounted for 12 (2%) (Table 5). (See Appendix E for definition of license types).

**Table 5 Type of License Involved in Cases with Violations**

| | 1995 | 1996 | 1997 | 1998 | 1999 | Total |
|---|---|---|---|---|---|---|
| Commercial (application for fee) | 51 | 61 | 57 | 51 | 50 | 270 (52%) |
| Private applicator (application to own property) | 12 | 12 | 15 | 30 | 25 | 94 (18%) |
| Public operator (application to public property) | 4 | 2 | 10 | 11 | 6 | 33 (6%) |
| Unlicensed (general use, homeowner) | 16 | 25 | 22 | 16 | 13 | 92 (18%) |
| Commercial Consultant | 4 | 4 | 3 | - | 6 | 17 (3%) |
| Other | - | - | 3 | 8 | 1 | 12 (2%) |
| Total complaints with violations | **87** | **104** | **110** | **116** | **101** | **518** |

The 1999 data are consistent with prior years and reflect a continued increase in violations by commercial applicators and a decrease in violations by individual users holding private applicator licenses. It may indicate that more applications are being made by commercial applicators and fewer by non-commercial individuals as equipment and application techniques become increasingly more sophisticated and expensive and active ingredients more restricted in use.

In 1999, WSDA issued a total of 22,546 licenses. Over 50 percent of these were Private Applicator licenses (11,853) followed by Commercial and Public Operator licenses.

**Nature of Pesticide Complaint**

Table 6 shows the type of complaints for 1995-1999. Drift exposure continues to be an area of concern with complaints resulting from pesticides allegedly moving off target. In 1999, 64 complaints involved drift, followed by human exposure (31), misuse (20), direct exposure (19), bee kills (14), Pest Control Operator/ Wood Destroying Organism (PCO/WDO) (11), records/license (5), disposal (5) and other (23).

**Table 6 Type of Complaint 1995 – 1999**

| Type of Complaint | 1995 | 1996 | 1997 | 1998 | 1999 | Total |
|---|---|---|---|---|---|---|
| Drift | 64 | 75 | 50 | 62 | 64 | **315** |
| Human exposure* | | | 42 | 52 | 31 | **125** |
| WDO Inspection | 30 | 32 | 23 | 10 | 11 | **106** |
| Direct | 115 | 90 | 21 | 13 | 19 | **258** |
| License | 21 | 19 | 14 | 12 | 5 | **71** |
| Misuse* | | | 16 | 19 | 20 | **55** |
| Animal/bird kill* | | | 10 | 7 | 0 | **17** |
| Bee kill* | | | 8 | 12 | 14 | **34** |
| Water contamination* | | | 6 | 4 | 0 | **10** |
| Disposal | 6 | 6 | 3 | 2 | 5 | **22** |
| Other | 23 | 29 | 11 | 11 | 23 | **97** |
| **Total** | **259** | **251** | **204** | **204** | **192** | **1,110** |

**Categories not specified prior to 1997*

Drift and human exposure were the primary reasons for pesticide related complaints and illustrate the need for applicators to be consistently aware of the importance of not letting an application drift. Bee kills also generate a significant number of complaint investigations. Both drift and bee kill complaints may not be resolved, as the responsible applicator can be difficult to identify.

In agriculture, pesticides applied to orchards, particularly apples, were most frequently involved in incidents that resulted in violation. A rising number of investigations concern drift to organic crops, with two cases in 1999 resulting in violation. This presents an interesting regulatory question as both the target crop and the organic crop may be on the label as approved for the type of produce, but the organic crop loses certification and therefore market value as organic if pesticide residues are present.

For non-agricultural applications, drift from lawn care companies and complaints about Wood Destroying Organism inspections generated the most complaints resulting in violations. For these cases, the complaints were about drift on the same type of site or about fraudulent inspections. Human exposure for non-agricultural applications was not as big an issue as for agricultural applications although they were still among the more frequent complaints.

Table 7 summarizes the cases WSDA cited for violation. Human exposure, animal exposure, bee kills and plant damage continue to generate complaints to the department. Many of these complaints remain unresolved, as the source of the pesticide application is unknown.

In 1999, WSDA was involved in ten cases concerning children. These were jointly investigated by DOH.

**Table 7 WSDA Comparison of the Most Frequent Target and Complaint Sites 1999**

| Agriculture | | Non Agriculture | |
|---|---|---|---|
| **Target Site** | | | |
| Apples | 12 | Trees/Lawns/Ornamentals | 16 |
| Cherries | 5 | Wood Destroying Organisms | 11 |
| Wheat | 4 | Mosquitoes | 4 |
| Seed Alfalfa | 4 | | |
| Unspecified orchard | 3 | | |
| Pears | 3 | | |
| Potatoes | 3 | | |
| **Complaint Site** | | | |
| Human Exposure | 14 | Trees/Lawns/Ornamentals | 12 |
| Bees | 6 | Wood Destroying Organisms | 10 |
| Vehicles | 4 | Property | 4 |
| Grapes | 4 | Human Exposure | 3 |
| Organic Crops | 2 | Vehicles | 2 |
| Seed Alfalfa | 2 | Vegetable Gardens | 2 |

**Severity of Reported Complaints**
WSDA began rating severity of complaints in 1996. In 1999, the majority (78%) of complaints investigated by WSDA had a severity rating scale of two or less (Table 8). From 1996, the number of complaints rated between 1 and 6 remained relatively constant, however, the number of complaints rated "0" decreased over the four years. This indicates that the recently reported complaints were more likely to result in findings of violation.

**Table 8 Severity Rating of WSDA Complaint Cases 1996 – 1999**

| Rating | 1996 | 1997 | 1998 | 1999 | Criteria |
|---|---|---|---|---|---|
| 0 | 64 | 28 | 31 | 13 | Problem not due to pesticides and/or no cause determined; PCO/WDO inspection with no violations. |
| 1 | 71 | 67 | 62 | 65 | Pesticides involved, no residue, no symptoms occurred; possible pesticide problem, not substantiated; issues involving records, registration, posting, notification (multiple chemical sensitivity) or licensing; DOH classified "unlikely" or "unknown." |
| 2 | 79 | 64 | 70 | 72 | Residue found, no health symptoms (human, animal); health symptoms not verified; multiple minor violations; off label use; worker protection violations; PPE violations with no health symptoms; plants with temporary or superficial damage only; PCO/WDO faulty inspections; DOH classified "possible." |
| 3 | 22 | 30 | 31 | 24 | Minor short-term health symptoms (rash, eye irritation, shortness of breath, dizzy, nausea, vomiting); bee kills less than 25 hives; minor fish kills; economic plant damage under $1000; evidence of deliberate economic fraud; DOH classified "probable." |
| 4 | 11 | 8 | 9 | 15 | Short-term veterinary or hospital care; bee kills over 25 hives; significant fish kills; significant economic plant damage over $1000; environmental damage; illness involving children; DOH classified "probable." |
| 5 | 4 | 7 | 1 | 3 | Veterinary or hospital care, overnight or longer; physician diagnosed children's illness as caused by pesticides; animal death due to pesticides; significant environmental damage; DOH classified "definite." |
| 6 | 0 | 0 | 0 | 0 | Human death due to pesticides. |
| Total | 251 | 204 | 204 | 192 | |

**WSDA 1999 Cases With Severity Rating of 4 or 5**
In 1999, 15 cases investigated by WSDA were classified with a severity rate of '4'. One involved animals, nine involved bee kills, four were for plant injury and one was for a human exposure that resulted in hospitalization. Three WSDA investigations of animal deaths were classified with the severity rating of '5'.

**Animal Deaths or Poisonings**
Three cases involving animals (two dogs died and one recovered) were due to poisoning with strychnine. The dogs were poisoned while on their owner's property. No source for the strychnine was determined for any of the cases. WSDA made a Stop/Sale order of strychnine at a local feed store where the store was unaware that strychnine even in Home & Garden packages is a restricted-use pesticide.

The third animal death was a hunting dog that died after coming in contact with phorate, a highly toxic insecticide, apparently in water from an irrigation ditch overflow-pond. The dog went into the water to retrieve ducks that had been shot. The dog's owners also reported feeling ill that evening. They had contact with the dog while trying to revive it and later in moving the animal. The incident was reported to WSDA approximately one month after it occurred and no source for the phorate could be determined. Phorate could have been used on sugar beets in the area but a records check could not determine a source and an analysis of the pond water after one month was negative. Analysis of the contents of the dog's stomach was positive for phorate.

WSDA could not take enforcement action on these four cases, as no responsible party could be determined.

**Bee Kills**

In 1999, WSDA responded to nine cases of bee kills rated “4” for more than 25 hives lost. No action was taken on four of these cases, as no source for the insecticide residues could be determined; four cases were given a Notice of Correction (NOC), and one a Notice of Intent (NOI). The NOCs were issued for: failure to keep complete records; drift off site during application; and application made when bees were foraging (label violation). A NOI was issued for applying pesticide after 8 A.M. (WSDA rule - bees are foraging). The pesticides involved were primarily carbaryl and azinphos methyl.

**Plant Injury**

Four cases involved injury to plants valued in excess of $1000 and were rated "4". WSDA issued a NOC, two NOIs and no action was taken on one. The NOC was issued when Timothy hay was damaged after a dealer and consultant gave a wrong recommendation. The two cases given NOIs resulted in fines and license suspensions. One involved a lawn application of diazinon that drifted to a neighbor's organic garden. Diazinon residue was detected on the vegetables in the garden. The other case involved use of MCPA and glyphosate around ornamental plantings. MCPA was used over the recommended application rate and, contrary to label recommendations, was used within the drip line of the trees.

The Department took no action on one case involving contamination of sulfur with paraquat. Approximately six acres of grapes were sprayed with a sulfur/paraquat mixture. The sulfur source did not contain paraquat and deliberate contamination was suspected. Both products were available at the site, but it was unlikely that the applicator confused the containers when mixing. The case was referred to the police.

**Human Exposure**

One case was rated "4" for a human exposure. The applicator was given a Notice of Intent with a subsequent $900 fine and a ten-day license suspension. This action was taken for making numerous applications without a pesticide applicator's license and for improper records. The applicator sprayed baythroid and acephate (insecticides) on the exterior and interior of a building used as a health care facility. The building was sprayed in the evening. Thirteen employees reported feeling ill when they came to work in the morning. One was hospitalized.

**Type of Pesticide Involved**

In 1999, herbicides were involved in 69 complaints and insecticides in 67 complaints. Other products such as fungicides, disinfectants and rodenticides were involved less frequently. Many cases involved tank mixes of several products. The pesticides most frequently reported in complaints were 2,4-D, Glyphosate, Azinphos-methyl and Chlorpyrifos. These are commonly used products.

**Enforcement actions**
In 1999, the following corrective actions were taken: Notice of Correction (64), Notice of Intent/Fines/License Suspensions (20), Advisory Letter (10), Warning Letter (5), Referred to Other Agency (2), and No Action Indicated (91). On November 19, 2001, WSDA announced that it had issued civil penalties totaling $6,050 against eight pesticide applicators and suspended seven pesticide applicator licenses for a total of 105 days.

**Table 9 1995 – 1999 WSDA Agency Actions**

| | 1995* | 1996 | 1997 | 1998 | 1999 |
|---|---|---|---|---|---|
| No Action Indicated | 128 | 150 | 93 | 87 | 91 |
| Technical Assistance | | 1 | 1 | 1 | |
| Verbal Warning | | 14 | 11 | 5 | 5 |
| Advisory letter/Warning letter | | 2 | 16 | 12 | 10 |
| Notice of Correction | | 67 | 63 | 68 | 64 |
| Notice of Intent /Administrative Action | 131 | 15 | 18 | 30 | 20 |
| Referred | | 2 | 2 | 1 | 2 |
| Total Investigations | **259** | **251** | **204** | **204** | **192** |

**Complete corrective action information for 1995 was not available. Warning letters and Notice of Intent were counted together prior to Revised Notice of Compliance Rules in 1995.*

**Other Agencies Involved**
In 1999, WSDA consulted with other state, federal and local agencies, WSU and local authorities on 93 occasions. These included DOH (39), Ecology (18) and the EPA (7).

## Department of Ecology Five-Year Summary (1995-1999)

The Department of Ecology (Ecology) investigates complaints involving pesticide-related threats to air, water or soil. Other pesticide-related activities at Ecology focus on the prevention of releases, such as supporting the reduction of household pesticide use, improved storage and waste management of pesticides, environmental monitoring for pesticides in fish, sediments, soils, and ground water, and helping schools consider integrated pest management (IPM) strategies.

From 1995 through1999, Ecology investigated 170 incidents involving pesticide releases. Ecology's Regional offices documented the following incidents: Eastern (50), Central (38), Southwest (54) and Northwest (28). Eastern Washington counties had the most incidents. Yakima reported 30 incidents, King (16), Spokane (14), Clark (13), Garfield (13), Grant (12), Pierce (11), and Thurston (11). Okanogan, Grays Harbor and Mason Counties each reported eight incidents. Snohomish and Franklin Counties had seven incidents, while the rest of the counties had four or less documented incidents. Examples of complaints reported to and investigated by Ecology include: spills or accidents occurring during transportation of product or waste, complaints about roadside herbicide spray applications and applications of pesticides at or near schools. Approximately 65 percent of the incidents were referred to the WSDA and less than 10 percent were referred to DOH.

## Department of Fish and Wildlife

The Department of Fish and Wildlife is mandated to preserve, protect and perpetuate fish and wildlife. Complaints involving kills of fish or wildlife are received primarily by the agency's Oil Spill Response Team (Spill Team). These reports usually come through Department of Community, Trade and Economic Development, Emergency Management Division (EMD), but can also be from private citizens. Overwhelmingly, the reports involve contaminants other than pesticides, or are brought about by natural die-offs or low dissolved oxygen levels in marine or fresh water. The EMD reports are given to Ecology.

## Department of Health

For more than a decade the Department of Health (DOH) has investigated suspected pesticide-related illnesses. Health care providers are required to report incidents of illness associated with pesticide exposure. This report provides an analysis of the circumstances surrounding the exposure and resulting health effects of pesticide-related illnesses investigated by DOH from January 1, 1995 through December 31, 1999. During this time, DOH investigated 1,818 incidents involving 2,246 individuals for pesticide illness (Table 10). After investigation, 1,011 (45%) of individual cases were found to be related to the pesticide exposure and were classified as definite, probable, or possible (DPP). See Appendix C for Classification definitions.

**Table 10 Annual number of pesticide incidents investigated by DOH 1995 – 1999**

| Year | Number of Incidents | Number of individuals involved | Number of definite, probable or possible Cases |
|---|---|---|---|
| **1995** | 396 | 500 | 213 |
| **1996** | 398 | 500 | 233 |
| **1997** | 363 | 439 | 212 |
| **1998** | 390 | 475 | 213 |
| **1999** | 271 | 332 | 140 |
| **Total** | **1,818** | **2,246** | **1,011** |

Table 11 shows the number of definite, probable or possible cases investigated in agricultural and non-agricultural settings from 1995 through 1999.

**Table 11 Annual Number Agricultural and Non-Agricultural definite, probable, or possible cases 1995 – 1999**

| Year | Agricultural | Non-Agricultural | Total Cases* |
|---|---|---|---|
| **1995** | 90 | 123 | **213** |
| **1996** | 97 | 136 | **233** |
| **1997** | 92 | 120 | **212** |
| **1998** | 102 | 111 | **213** |
| **1999** | 68 | 72 | **140** |
| **Total** | **449** | **562** | **1,011** |

** Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

## Agricultural Pesticide Incidents 1995-1999

### Overview

From 1995 through 1999, DOH received reports of 1,162 individuals with suspected pesticide-related illness occurring in the agricultural environment (992 occupational and 170 non-occupational). These incidents occurred when the pesticide application was intended for an agricultural commodity including fruit, field crops, greenhouse, nursery, bulb farms, shellfish, and forest operations. DOH classified 449 as definite (98), probable (98) and possible (242).

DOH received the 449 agricultural pesticide-related cases from L&I (211), WPC (119), WSDA (70) from other sources (49). In addition:

- Seventy-eight percent of cases were male.
- Most (82%) received medical care for their illness: 204 at emergency rooms, 54 at physicians' offices, and 110 at walk-in clinics. Two were hospitalized. Eighty did not seek medical care.
- Eighty-four percent resulted from occupational exposure.
- Ninety percent of the workers were ages 18 to 49.

**Table 12 Agricultural Occupational and Non-occupational cases* by age and sex**

| Age | Occupational | | Non-occupational | | Total |
|---|---|---|---|---|---|
| | Female | Male | Female | Male | |
| **0 - 5** | 0 | 0 | 1 | 4 | 5 |
| **6 -11** | 0 | 0 | 2 | 6 | 8 |
| **12-17** | 0 | 1 | 1 | 2 | 4 |
| **18-29** | 27 | 132 | 3 | 1 | 163 |
| **30-49** | 33 | 146 | 13 | 12 | 204 |
| **50+** | 7 | 30 | 10 | 18 | 65 |
| **Total** | **67** | **309** | **30** | **43** | **449** |

** Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

The cases occurred in 28 of the 39 counties of Washington. The majority (88%) occurred in eastern Washington (Table 13). Most were from Yakima County (132), followed by Grant (62), Chelan (34), Franklin (34) and Okanogan (30).

**Table 13 Agricultural Occupational and Non-occupational cases* by Location, Eastern or Western Washington 1995 – 1999**

| | Occupational | Non-occupational | Total |
|---|---|---|---|
| **East** | 334 | 59 | 393 |
| **West** | 42 | 14 | 56 |
| | **376** | **73** | **449** |

** Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure*

The three principal types of exposure were:

- applicator/mixer/loader exposure,
- exposure to off target drift of pesticides, and
- exposure to pesticide residues.

## Pesticide exposure to applicator/mixer/loader

The largest number of pesticide-related cases occurred among individuals applying, mixing or loading pesticides (Table 14). DOH received 319 reports of suspected, pesticide-related illness involving applicators, mixers and loaders and 173 (54%) of these were considered definite, probable or possible cases. They included ground applications (122), miscellaneous uses (26), and mixing or loading (25). Of these cases, 103 (60%), occurred in the tree fruit industry, 46 (27%) occurred in field crops, and 24 (14%) occurred in other agricultural commodity groups.

**Table 14 Agricultural Occupational and Non-occupational Cases by Source/Activity 1995 – 1999**

| Source/Activity | Occupational | Non-occupational | Total |
|---|---|---|---|
| Applicator/mixer/loader | 173 | 0 | **173** |
| Drift | 95 | 56 | **151** |
| Residues | 74 | 7 | **81** |
| Clean/fixing | 10 | 0 | **10** |
| Fumigation field | 4 | 1 | **5** |
| Accident | 14 | 3 | **17** |
| Other | 6 | 6 | **12** |
| | **376** | **73** | **449** |

* *Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

The following examples illustrate the pathways of exposure among pesticide applicators, mixers and loaders:

- Pesticide drifted under shirt collar onto neck during application.
- Applicator did not wear Personal Protective Equipment (PPE) when spraying.
- Applicator took off his PPE after spraying and had an asthma attack.
- Safety goggles were in poor condition.
- Applicator Wore PPE but removed goggles and rubbed eyes.
- Pesticide splashed in eye while spraying.
- Case used work shirt to wipe sweat from head causing skin irritation.
- Unlicensed applicator not wearing PPE developed conjunctivitis.
- Applicator developed severe skin burn to his foot by not wearing rubber boots.
- Applicator wore respirator but no goggles when applying to a grain bin. Developed severe eye irritation.

## Exposure to off target pesticide drift

From 1995 through 1999, 151 definite, probable or possible cases of agricultural pesticide illness were due to exposure to pesticide drift. Of these, 95 were occupational with 49 in fruit production, 40 in field crops, 4 in nursery and greenhouses, and 2 in livestock. Of the 56 non-occupational drift cases, 32 resulted from applications made to fruit, 14 to row crops, 7 to berries, and 3 to forests. The 95 occupational drift cases were classified as definite (14), probable (25), and possible (56).

The severity of symptoms reported by the 95 occupational drift cases was mild (39 (41%)), moderate (49 (52%)), and severe (7 (7%)). This compares to mild (63%), moderate (33%), and severe (4%) for all occupational agricultural cases. Descriptions of the seven severe drift cases follow:

- An aerial application to a potato field drifted onto three farmworkers who were tying apple trees. All three became ill.
- Two of seven apple orchard thinners developed severe symptoms following exposure to pesticide drift from an application to another orchard.
- An irrigation technician was exposed to pesticide drift from an aerial application. He was treated for organophosphate poisoning.
- Two field workers inadvertently walked into a field during an application. They were not wearing PPE. One became ill.

## Exposure to pesticide residues

From 1995 through 1999, there were 81 agricultural cases (classified definite, probable or possible) resulting from exposure to pesticide residues; 74 of the 81 were work-related. These occurred in the production of fruit (56), field crops (5), vegetables (4), nursery or greenhouses (11) and other (5).

Occupational exposure to pesticide residues was the most (394) frequently reported cause of agricultural pesticide illness, but only 19 percent of these illnesses were classified as definite, probable or possible. Ninety-eight percent of all occupational residue-caused cases sought medical attention and 61 percent of these were classified by DOH as unlikely or unknown. Although pesticide residue may be present hours to days after an application and can be in the air, soil, dust, or on vegetation, it may also be that the illness resulted from irritation by the foliage or branches, or was not work-related. The most common complaint of individuals exposed to residues is of a dermal and respiratory nature with the majority (78%) classified as mild to moderate severity. It is difficult for the health care provider to associate these mild to moderate symptoms with pesticide residues. For most cases prescriptive or over-the-counter medications will alleviate symptoms, but it often remains unclear as to whether the reported illness was pesticide-related or due to something else.

The following are examples of illnesses reported from exposure to pesticide residues *(examples are from all reported cases, not just definite, probable or possible cases):*

- Farmworker thinning pear trees developed a rash and itching.
- Farmworker thinning apple trees developed shortness of breath and wheezing. Spray records showed last application was four days before symptoms.
- Farmworker covering apples with paper bags developed extensive hives.
- Nursery worker mowed lawn 24 hours after herbicide application. The re-entry interval (REI) was 48 hours.
- Farmworker drove through an apple orchard within the REI.
- Apple thinner became ill and saw a doctor eight days after symptoms began. Spray records showed a pesticide application was made 48 hours earlier.
- Farmworker working on a tractor reported symptoms possibly related to exposure from entering a hop field sprayed two hours before with a miticide. He was not wearing PPE, the REI had not expired, and he did not see the warning signs.

## Symptoms and Severity Associated with Agricultural Pesticide Cases

Table 15 shows the health complaints reported by type of exposure or activity and whether the incident occurred occupationally. Individuals often report more than one health complaint and all are included in this table. The most frequently (55%) reported health complaint among occupational definite, probable or possible cases was eye irritation. Eye irritation was reported in 64 percent of the applicator/mixer/loader cases and 80 percent of the cases involving cleaning or fixing equipment.

Systemic effects (headache, nausea, dizziness, etc.) was the second most frequently reported category of illness. Systemic effects were reported in 52 percent of the occupational cases and 68 percent of non-occupational cases. Respiratory effects were reported in 46 percent of drift cases and skin problems were associated with 51 percent of residue cases.

**Table 15 Symptoms* by Exposure Activity/Source for Agricultural Occupational and Non-occupational Cases 1995 – 1999****

| | Eye | | Systemic | | Skin | | Respiratory | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|
| Exposure Activity/Source*** | Occ | Non-occ | Occ | Non-occ | Occ | Non-occ | Occ | Non-occ | Occ | Non-occ |
| Applicator/Mixer/loader | 110 | 0 | 74 | 0 | 77 | 1 | 39 | 0 | 34 | 0 |
| Drift | 43 | 33 | 78 | 41 | 25 | 9 | 44 | 29 | 8 | 7 |
| Residue | 33 | 0 | 34 | 4 | 38 | 3 | 27 | 2 | 10 | 4 |
| Clean/fix | 8 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| Other/unknown | 11 | 4 | 7 | 5 | 2 | 6 | 6 | 0 | 1 | 3 |
| | **205** | **37** | **196** | **50** | **144** | **19** | **117** | **31** | **53** | **14** |

* *Individuals frequently report more than one symptom.*

** *Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

*** *Refer to Table 14 for total number of cases by exposure activity/source.*

The majority of agricultural cases (67%) had mild medical outcomes (Table 16). Thirty percent (133) experienced moderate symptoms and three percent had severe symptoms. All agricultural cases classified as severe were occupational: orchard workers (6), field workers (6), ornamental tree applicator (1), and irrigation technician (1). Seven exposures resulted from drift, five from inadequate personal protection during application, mixing or loading, one from residue exposure while thinning, and one from walking into a field during an application.

**Table 16 Agricultural Case Severity Classification 1995 – 1999***

| | 02 Mild | 03 Moderate | 04 Severe | Total |
|---|---|---|---|---|
| **1995** | 32 | 54 | 4 | 90 |
| **1996** | 68 | 28 | 1 | 97 |
| **1997** | 72 | 18 | 2 | 92 |
| **1998** | 71 | 25 | 6 | 102 |
| **1999** | 59 | 8 | 1 | 68 |
| | **302** | **133** | **14** | **449** |

* *Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

## Agricultural Crops Involved

The 450 agricultural definite, probable or possible cases resulted from pesticide applications to fruit (263), field crops (108), nursery/greenhouses (29), berries (10), vegetables (8), livestock (6), forest (6), fire/flood/disaster (5), tree farms (2), and unknown (13).

## Cases resulting from applications to fruit

The greatest number (263) of pesticide illnesses in agriculture occurred in the production of tree fruit with the majority (221) occurring occupationally. Pesticide activities of these cases were:

- 104 were applications (primarily ground applications), mixing and loading,
- 80 cases were attributed to drift,
- 56 field residues,
- 23 other.

The majority of cases occurred in the production of apples. Other tree fruits included pears, cherries, and apricots. Cases were classified mild (64%), moderate (34%) and severe (2%). Three of the severe cases related to drift, two to ground applications and one to residues.

**Table 17 Agricultural Occupational and Non-occupational severity by Activity/Source associated with Fruit Production 1995 – 1999***

| Activity/ Source | Occupational - Severity | | | Non-occupational - Severity | | | Total |
|---|---|---|---|---|---|---|---|
| | 02 mild | 03 moderate | 04 severe | 02 mild | 03 moderate | 04 severe | |
| Applicator/ mixer/loader | 71 | 29 | 2 | 1 | 1 | 0 | **104** |
| Drift | 23 | 22 | 3 | 28 | 4 | 0 | **80** |
| Residue | 37 | 15 | 1 | 2 | 1 | 0 | **56** |
| Accident | 4 | 2 | 0 | 3 | 0 | 0 | **9** |
| Other | 6 | 6 | 0 | 1 | 1 | 0 | **14** |
| | **141** | **74** | **6** | **35** | **7** | **0** | **263** |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

## Cases resulting from applications to field crops

One hundred and eight cases were due to pesticide application to field crops and 94 of the 108 were occupational. Field crops include wheat, barley, potatoes, beans, hops, hay, lentils, sugar beets, etc. Pesticide drift was the activity most frequently associated with pesticide illness, followed by the activities of applicators/mixer/loaders, residues, and accidents. Most (94%) of the cases occurring among field crop workers had mild or moderate symptoms. Six reported symptoms of greater severity. All 14 of the non-occupational cases related to field crops resulted from drift and most (13) had mild symptoms. The most frequently (81%) reported routes of exposure for occupational field crop cases were dermal and inhalation. Sixteen individuals reported eye exposure.

**Table 18 Agricultural Occupational and Non-occupational Field Crop cases by Severity 1995 – 1999***

| Activity/ Source | Occupational Severity | | | Non-occupational Severity | | | Total |
|---|---|---|---|---|---|---|---|
| | 02 Mild | 03 Moderate | 04 Severe | 02 Mild | 03 Moderate | 04 Severe | |
| Drift | 13 | 23 | 4 | 13 | 1 | 0 | **54** |
| Applicator/ mixer/loader | 34 | 10 | 2 | 0 | 0 | 0 | **46** |
| Residue | 3 | 2 | 0 | 0 | 0 | 0 | **5** |
| Accident | 2 | 1 | 0 | 0 | 0 | 0 | **3** |
| | **52** | **36** | **6** | **13** | **1** | **0** | **108** |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

## Cases occurring in nurseries or greenhouses

From 1995 through 1999, 25 occupational incidents involving 29 cases (16 male and 13 female) occurred in nurseries or greenhouses. The majority (80%) occurred in Western Washington, with Skagit (5) and Snohomish (5) counties having the most cases.

Cases occurring in greenhouses and nurseries were due to exposure to residues (11), applications (7), drift (4), mixing or loading (3), cleaning or fixing equipment (2) and other (2). The majority of cases reported mild (79%) symptoms, 17 percent reported moderate symptoms, and one case reported severe symptoms. Like other agricultural cases, the routes of exposure were eye (9), inhalation (7), dermal (1), and ingestion (1). The remaining cases were combinations of exposure routes.

## Non-Agricultural Pesticide Incidents 1995 – 1999

## Overview

From 1995 through 1999, DOH received reports of 1080 individuals with suspected pesticide-related illness occurring in the non-agricultural environment (482 occupational and 598 non-occupational). Examples of non-agricultural reports are illnesses resulting from pesticide applications in office buildings, homes, industrial site, parks and landscaping. DOH classified 561 cases as definite (78), probable (213) and possible (270).

## Occupational

Approximately half (482) of the non-agricultural pesticide-related reports occurred on-the-job. DOH classified 291cases as pesticide-related, definite (40), probable (129) or possible (122). The following further describes these pesticide-related cases:

- 150 males and 141 females.
- One was 17 years old at the time of the incident.
- Sources of reports were: L&I (138), WPC (79), local health departments (28), health care provider (8), and others (38).
- 251(86%) individuals obtained medical care for their pesticide illness; 141 (56%) went to emergency rooms, 72 (29%) to physicians' offices, and 38 (15%) went to walk-in clinics. Two received advice from WPC and 37 did not seek medical care.
- The 291 cases occurred in 30 of the 39 counties of Washington State.

- Twice as many cases occurred in western Washington (198 (68%)) as in eastern Washington (93 (32%)).
- Forty- four percent occurred in the three counties of the Puget Sound region, King (69), Pierce (33), and Snohomish (25).
- In eastern Washington, the counties with the most cases were Yakima (24), Spokane (20), Grant (14) and Benton (13).

The most common sites for non-agricultural occupational pesticide illness were office buildings (132 (45%)), with approximately half resulting from commercial (69) applications and half non-commercial (63) applications (Table 19). Homes were the second-most frequently reported site. Cases in the home resulted from both commercial (39) and non-commercial (19) applications.

**Table 19 Site of Non-Agricultural Occupational Cases***
**by Commercial or Non-Commercial application**

| Site | Commercial application | Non Commercial Application | No application –indirect exposure | Total |
|---|---|---|---|---|
| Office buildings | 69 | 63 | | **132** |
| Home/apartments | 39 | 19 | | **58** |
| Industrial sites | | 20 | | **20** |
| Park/golf courses | | 7 | | **7** |
| Veterinary | | 4 | | **4** |
| Other | | | 70 | **70** |
| | **108** | **113** | **70** | **291** |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

Examples of "no application indirect exposure" include: waste collection worker exposed to a spill, thrift shop worker exposed to a spill, and a pesticide spill in a freight carrier. Of the 132 cases occurring in offices, 78 (59%) involved exposure to pesticide residues (Table 20). These cases resulted from indirect exposure to residues from pesticide applications made hours before the workspace was re-entered. Thirty-one (23%) cases in offices involved direct applications.

Fifty-eight occupational cases occurred in homes or apartments with 35 of these occurring during applications. Sixteen cases involved residue or drift exposure. Occupational cases (19) also occurred in the home when the application was made by a non-licensed individual (homeowner) and a worker such as a plumber or builder was exposed to pesticides at the residence.

**Table 20 Location of Occupational Cases***
**by Type of Pesticide Application and Exposure**

| | Office | | Home | | Other | Total |
|---|---|---|---|---|---|---|
| | Commercial | Non-Commercial | Commercial | Non-Commercial | | |
| Residue | 46 | 32 | 5 | 4 | 45 | 132 |
| Application | 9 | 22 | 24 | 11 | 23 | 89 |
| Drift | 11 | 5 | 6 | 1 | 5 | 28 |
| Other | 3 | 4 | 4 | 3 | 28 | 42 |
| Total | 69 | 63 | 39 | 19 | 101 | 291 |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

Occupationally, males (60) were more likely to be involved in incidents from pesticide applications and females (66) from pesticide residue or drift. Inhalation was the most frequently reported route of exposure and occurred in 216 cases (74%). Other routes of exposure in pesticide illnesses were dermal, ocular and ingestion; 207 (71%) had one route of exposure and 83 (29%) had multiple routes of exposure.

**Severity and Symptoms**

The majority of cases, 235 (81%) was considered to have a mild medical outcome (Table 21). These cases frequently presented with eye irritation, headache, shortness of breath, cough and nausea. Fifty-five (19%) had moderate symptoms and one was severe. The pesticide exposure activities related to these cases were applications (22), cleaning/fixing (3), drift (6), residue (14), accident (8) and other (3). The severe case involved a licensed applicator that inadvertently allowed his gloves to become saturated with insecticide.

**Table 21 Non-Agricultural Occupational Case Classification by Severity**

| Severity | Definite | Probable | Possible | Total |
|---|---|---|---|---|
| Mild | 31 | 104 | 100 | 235 |
| Moderate | 9 | 24 | 22 | 55 |
| Severe | 0 | 1 | 0 | 1 |
| | 40 | 129 | 122 | 291 |

## Non-Occupational

From 1995 through 1999, 598 individuals were involved in pesticide-related non-agricultural and non-occupational incidents. Of these, 270 cases were classified definite (38), probable (84) or possible (148). In addition:

- More women 132 (65%) than men 71 (35%) over the age of 17 were involved in pesticide illness.
- Sixty-seven (25%) cases involved children less than 18 years of age.
- Among childhood cases aged 11 through 17, twice as many were males (9) as females (5), but in the younger ages (less than age 11) gender was not a factor.
- Most of these cases came from King (54), Pierce (31), and Snohomish (22) counties in western Washington, and Spokane (25), Yakima (20) and Benton (15) counties in eastern Washington.
- The majority of non-occupational cases (223 (83%)) occurred in homes or apartments (Table 22).

**Table 22 Source of pesticide exposure by location of non-agricultural and non-occupational cases***

| Location | Residue | Drift | Applications | Other | Total |
|---|---|---|---|---|---|
| Home | | | | | |
| Commercial | 38 | 8 | 2 | 3 | 51 |
| Non-Commercial | 20 | 11 | 101 | 40 | 172 |
| Office | | | | | |
| Commercial | 2 | 1 | 2 | 0 | 5 |
| Non-Commercial | 1 | 0 | 0 | 1 | 2 |
| Industrial Site | 0 | 7 | 2 | 0 | 9 |
| Unknown/Other | 6 | 1 | 0 | 24 | 31 |
| Total | 67 | 28 | 107 | 68 | 270 |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

**Route of Exposure**

Most of the non-agricultural and non-occupational pesticide cases involved the individual making the application, either through exposure to the application (109 (40%)), or to residues (67 (25%)). Inhalation exposure was most frequently reported (173 (64%)).

**Severity and Symptoms**

Most (210 or 78%) of the cases were considered to have a mild medical outcome (Table 23). The five definite-severe and probable-severe cases occurred at home and involved three children and two adults. The activities associated with these exposures were two applications, a spill, an accident and ingestion of pesticide by a toddler.

**Table 23 Non-Agricultural and Non-Occupational cases* by severity of symptoms**

| Severity | Definite | Probable | Possible | Total |
|---|---|---|---|---|
| Mild | 27 | 64 | 119 | 210 |
| Moderate | 7 | 19 | 25 | 51 |
| Severe | 4 | 1 | 4 | 9 |
| | 38 | 84 | 148 | 270 |

**Limited to cases with illness classified by DOH as definitely, probably, or possibly due to pesticide exposure.*

## SUMMARY OF 1995-1999 FINDINGS:

From 1995 through 1999, the Washington State Department of Health investigated 1,163 cases of pesticide illness in the **agricultural** environment. The following were found:

- 450 cases were classified as definite, probable or possible.
- 84% of cases were occupational.
- 97% reported mild or moderate symptoms (most frequently reported health complaints were eye irritation and systemic effects).
- Most incidents resulted from exposure during applications, pesticide drift or exposure to residues.
- The three most common locations of incidents were production of tree fruit (263), field crops (108) and nursery/greenhouses (29).

From 1995 through 1999, the Washington State Department of Health investigated 1,080 cases of pesticide illness in the **non-agricultural** environment. The following were found:

- 561 cases were classified as definite, probable or possible.
- 52% of cases were **occupational.**
- The three most common locations of non-agricultural and occupational cases were office buildings (132), homes (58) and industrial sites (20).
- 99% of individuals were found to have mild or moderate symptoms.
- The most frequently reported health complaints were eye irritation and systemic effects.
- Most cases resulted from exposure to pesticide residues, applications or drift.
- Inhalation was the most frequent route of exposure.
- 48% of cases were **non-occupational**.
- 83% occurred in and around the home.
- 97% reported mild or moderate symptoms (9 severe).

## Department of Labor and Industries (L&I)

L&I responds to concerns from workers about pesticide exposure through two divisions: the Washington Industrial Safety and Health Act (WISHA) Services Division, and the Insurance Services Division, (Claims Administration). From 1995 through 1999, L&I WISHA conducted 156 pesticide-related health and safety workplace inspections, and Claims Administration received 1,154 claims relating to pesticide illness. In 1999, WISHA conducted 37 pesticide-related health and safety workplace inspections. Claims Administration received 183 claims relating to pesticide exposure. All of these were forwarded to DOH for investigation.

**Health and Safety Investigations**

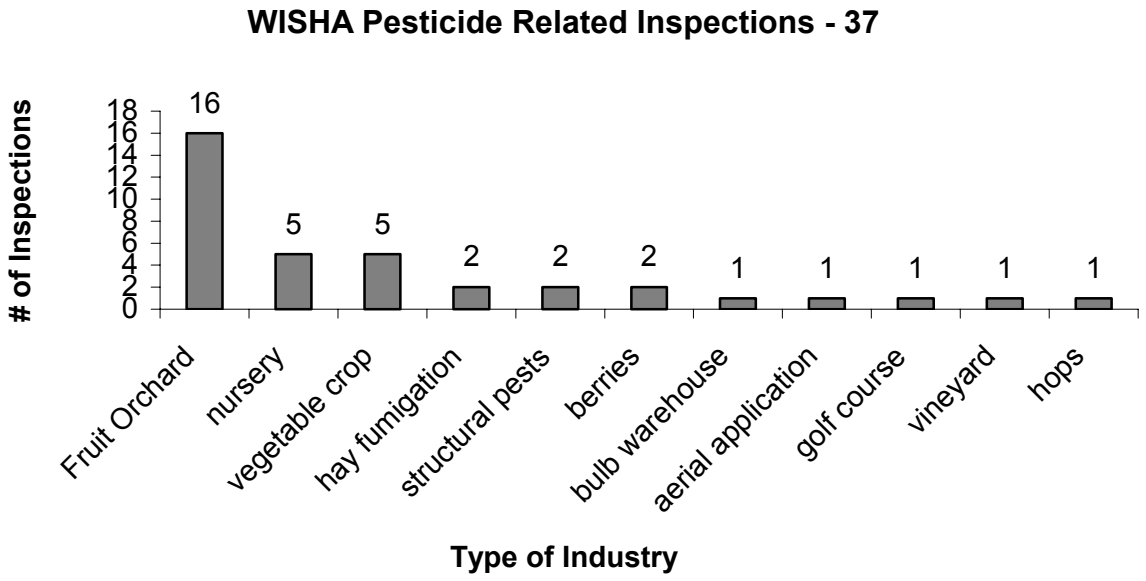
Table 24 shows inspection location (Eastern vs. Western Washington), the number of inspections conducted and the total number and percent resulting in violation citations for the five-year period 1995-1999.

**Table 24 1995 – 1999 Pesticide-related WISHA inspections**

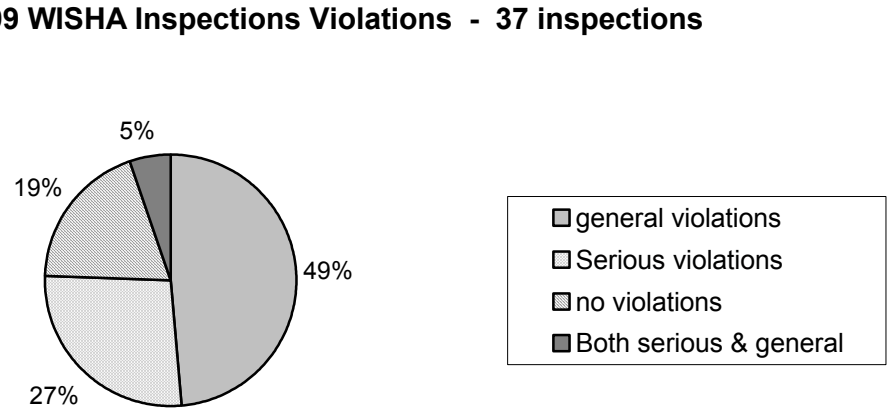
| | Eastern Washington | Western Washington | Total Inspections | Inspections Resulting in Violations | % Inspections Resulting in Violations |
|---|---|---|---|---|---|
| 1995 | 12 | 12 | 24 | 21 | 88% |
| 1996 | 15 | 24 | 39 | 30 | 77% |
| 1997 | 11 | 9 | 20 | 18 | 90% |
| 1998 | 25 | 11 | 36 | 30 | 83% |
| 1999 | 27 | 10 | 37 | 30 | 81% |
| **Total** | **90** | **66** | **156** | **129** | **83%** |

WISHA Services Division inspections are initiated several ways: a scheduling system, complaints, referrals or observations as inspectors travel through their area. In 1999, twenty-seven pesticide-related inspections were conducted in Eastern Washington and 10 in Western Washington. The inspections were conducted in both agricultural and non-agricultural settings.

In 1999, sixteen inspections were initiated through the scheduling method. The remaining inspections were responses to complaints (11), referrals from other agencies (9) and inspector observation (1). Fruit orchards were the most frequent type of business inspected with sixteen inspections, followed by five inspections each for nurseries and vegetable crops, two for berries and one vineyard. Two inspections involved hay fumigation. Structural pesticide businesses were involved in two inspections. The rest had a single inspection for business type (bulb warehouse, hops, golf course, and an aerial applicator).

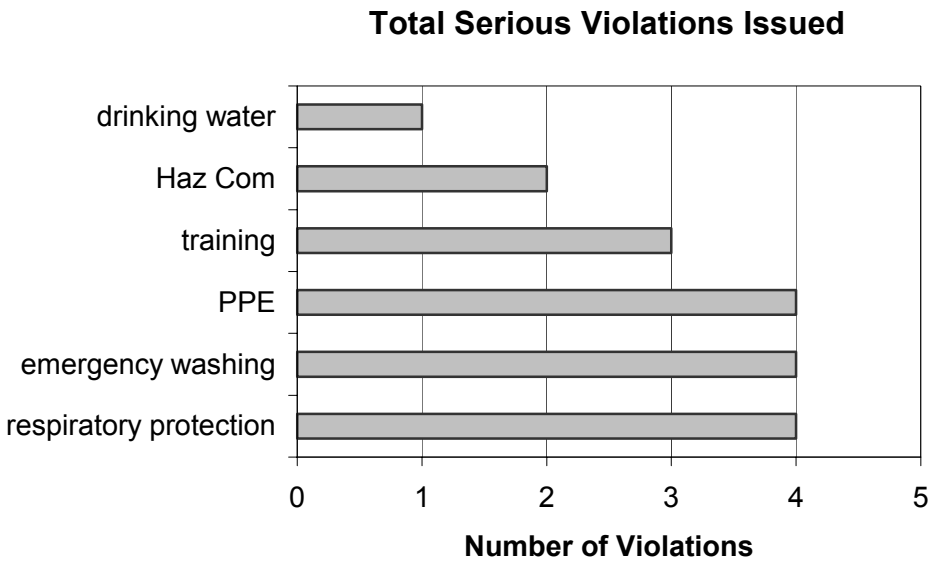



A WISHA inspection may result in violations. Violations fall into two categories: serious or general. Serious implies a potential for death or serious physical harm from illness or a major injury and will have a monetary penalty. General violations are cited when a hazardous condition cannot reasonably be predicted to cause death or serious physical harm but has a direct relationship to employee safety and health. There is no monetary penalty for general violations. General violations are often used for written program deficiencies that could potentially lead to an injury or illness.




Twelve serious violations were identified in 37 pesticide-related inspections. Of these, six inspections had multiple serious violations and six had one serious violation. Penalties ranged from $160 - $4,000 per violation and totaled $17,560. One inspection had a repeat serious violation resulting in a fine of $4,000.

Circumstances that resulted in serious violations were deficiencies in respiratory protection (4 violations), personal protective equipment (4 violations), emergency eyewash and washing capabilities (4 violations), training (3 violations), hazard communication and labeling (2 violations), and lack of drinking water (1 violation).




The following general violations were issued:

- Inaccurate spray records (5 sites)
- No posting of information (3 sites)
- Respiratory protection deficiencies (2 sites)
- Hazard communication deficiencies (2 sites)
- Failure to make notification of an illness incident (2 sites)
- Inappropriate or lack of personal protective equipment (1 site)
- Deficiencies related to re-entry intervals (1 site)
- Lack of eyewash (1site)
- Failure to remove signs (1 site)
- No first aid card (1 site)

**Claims Administration**
The Claims Administration program processes worker claims initiated for on-the-job injuries and illnesses. Pesticide claims are referred to DOH for further investigation.

In 1999, DOH investigated 183 claims from L&I because of alleged pesticide exposures. DOH classified 130 (71%) of these claimants as working in agriculture and 53 (29%) in a non-agricultural setting. Forty-eight percent (88) of the claims involved workers in the fruit industry; 14 percent (25) in field crops. Table 25 lists claims by business type. DOH classified the severity of the claims: no symptoms (18), mild (139), moderate (25) and severe (1).

**Table 25 1999 L&I Pesticide-Related Claimants by Business Type***

| ***Agricultural*** | **1996** | **1997** | **1998** | **1999** |
|---|---|---|---|---|
| Fruit | 116 | 129 | 134 | 88 |
| Field crops | 20 | 23 | 44 | 25 |
| Vegetables | 11 | - | 3 | 4 |
| Nursery/greenhouse | 8 | 6 | 16 | 7 |
| Berries | 4 | - | 2 | 2 |
| Christmas trees/Forest | 4 | 2 | - | 1 |
| Other/Unknown | 4 | 6 | 4 | 3 |
| *Total Agricultural* | 167 (75%) | 166 (71%) | 203 (75%) | 130 (71%) |
| ***Non Agricultural*** | | | | |
| Landscape/PCO | 4 | 5 | 8 | 5 |
| Maintenance/mgrs | 7 | 9 | 7 | 3 |
| Food service | 4 | 3 | - | 4 |
| Laboratory/Health Care | - | - | 4 | 2 |
| Office | 6 | 23 | 5 | 8 |
| Laborer | - | - | - | 8 |
| Landscape/groundskeeper | 6 | 6 | - | 8 |
| Security Guard | - | 3 | - | - |
| Re-packaging pesticides | 8 | - | - | - |
| Retail Store | 4 | 6 | 15 | 2 |
| Forklift operator | - | - | 2 | 1 |
| Sanitation/Road crew | - | - | 4 | 2 |
| Other | 16 | 14 | 21 | 10 |
| *Total Non-Agricultural* | 55 (25%) | 69 (29%) | 66 (25%) | 53 (29%) |
| **Total L&I Claims Investigated by DOH** | **222** | **235** | **269** | **183** |

**Claims status:**
Table 26 shows the numbers of pesticide-related claims for 1995-1999 adjudicated in accordance with the following definitions:

- **Allowed:** A worker experienced symptoms that he/she believes occurred from exposure on-the-job and seeks medical evaluation. The physician finds the symptoms related to the exposure and there is objective evidence of injury. The claim is allowed and medical evaluation and any follow-up medical care/treatment is paid. The employee misses less than three days of work. These lost workdays are not reimbursed to the employee.

- **Rejected:** Initial diagnostic and evaluation medical costs are covered but the claim is rejected because objective evidence is lacking to relate the symptoms to the workplace exposure. Claims can be rejected because: the worker reports no symptoms; the symptoms have resolved by the time the evaluation is obtained; there is no objective evidence of injury; or, exposure cannot be confirmed or documented. A rejected status prevents the worker from re-opening a claim based on original symptoms. Initial medical visits are usually paid.

- **Compensable/Time Loss:** A worker has an allowable claim and misses more than three days of work immediately following an injury on the job. The worker is paid a portion of salary while unable to work. All related medical costs are covered. In 1999 11 workers received time loss compensation; 7 were employed in agriculture.

- **Kept On Salary:** The employer elects to pay the claimant's salary instead of L&I paying time loss payments while the employee is recovering from an injury or illness. In 1999 one non-agricultural worker was kept on salary.

**Table 26 Pesticide-Related Claim Status 1995 – 1999**

| Claim Type | 1995 | | 1996 | | 1997 | | 1998 | | 1999 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Allowed | 134 | 55% | 97 | 44% | 108 | 46% | 155 | 58% | 107 | 59% |
| Compensable/Time loss | 9 | 4% | 8 | 4% | 14 | 6% | 11 | 4% | 11 | 6% |
| Kept of Salary | 1 | - | 1 | - | - | - | 1 | - | 1 | - |
| Rejected | 98 | 40% | 111 | 50% | 101 | 43% | 100 | 37% | 63 | 34% |
| Pending/Unknown | 3 | 1% | 5 | 2% | 12 | 5% | 2 | 1% | 1 | - |
| **Total** | **245** | | **222** | | **235** | | **269** | | **183** | |

In 1999, L&I paid out a total of $48,935.01 for pesticide-related claims.

**L&I Observations**

Over the last five years, the number of WISHA safety and health inspections have varied. For 1998 and 1999, inspections were similar (36 & 37 respectively) and resulted in the same percent of inspections with violations. In 1999, insecticides were the pesticides most frequently identified during the inspections conducted. Over two-thirds of the 37 inspections documented one or more violations. The violations cited continue to occur in similar areas: hazard communication, respiratory protection, PPE, eyewash, etc.

The Environmental Protection Agency (EPA) has begun a national assessment of the Worker Protection Standard (WPS) in an attempt to address trends nationwide. WISHA is participating in the discussion along with grower organizations and employee advocates. A final meeting on the subject is scheduled to occur in Washington DC, 2002.

In 1999, there was a 32 percent reduction in pesticide-related workers' compensation claims. Since 1996, there has been a steady increase in the percentage of pesticide-related claims allowed. In 1996, there was an all-time high rejection rate of 50 percent; in 1999 34 percent were rejected. A very small percent of pesticide-related claims result in time loss.

## Washington Poison Center

In 1999, the Washington Poison Center (WPC) received 133,240 calls. Of these, 2,523 were calls related to human pesticide exposure and accounted for two percent of the total calls received statewide by WPC (Table 27). As in previous years, the vast majority (93%) of pesticide-related calls to WPC involved accidental exposure. Informational calls are not tallied as part of the human exposure calls.

From 1990 to 1999 there was a 50 percent reduction in calls related to pesticide exposure to the Poison Center (5,231 pesticide-related calls in 1990 to 2,523 in 1999). Many factors including increased education, growth of information available on the internet, awareness of risks, and elimination of more toxic pesticides appear to explain this decrease. Table 27 shows the number of pesticide-related calls to WPC from 1995-1999 by pesticide type.

**Table 27 WPC Human Pesticide Exposure Calls 1995 – 1999**

| Pesticide | 1995 | 1996 | 1997 | 1998 | 1999 |
|---|---|---|---|---|---|
| Fungicide | 104 | 120 | 88 | 72 | 61 |
| Herbicide | 531 | 441 | 482 | 485 | 425 |
| Insecticide | 2,173 | 1,992 | 2,103 | 1,886 | 1,562 |
| Moth Repellent | 89 | 66 | 77 | 65 | 76 |
| Rodenticide | 478 | 473 | 477 | 478 | 399 |
| **Total Pesticide** | **3,375** | **3,092** | **3,227** | **3,002** | **2,523** |
| **% of Total WPC Calls** | **2%** | **2%** | **2%** | **2%** | **2%** |
| **Total WPC Calls*** | **135,621** | **132,649** | **134,213** | **134,60** | **133,240** |

**Includes human and animal exposures, confirmed non-exposures, and informational calls.*

Insecticides are the type of pesticide most frequently involved in calls. Table 28 lists the types of insecticides involved in calls to WPC, 1995 - 1999.

**Table 28 1995 – 1999 WPC Type of Insecticide involved in Poisoning Call**

| Insecticides Generic Code/Description | Number of Calls | | | | |
|---|---|---|---|---|---|
| | 1995 | 1996 | 1997 | 1998 | 1999 |
| Arsenic | 5 | 7 | 5 | 5 | 10 |
| Borates/Boric Acid | 38 | 27 | 32 | 32 | 20 |
| Carbamate Only | 104 | 61 | 91 | 64 | 65 |
| Carbamate with other pesticides | 51 | 24 | 15 | 8 | 18 |
| Chlorinated Hydrocarbon only | 125 | 125 | 130 | 104 | 72 |
| Chlorinated Hydrocarbon with other | 3 | 8 | 3 | 6 | 3 |
| Metaldehyde | 67 | 76 | 80 | 48 | 36 |
| Organophosphate only | 450 | 360 | 395 | 372 | 267 |
| Organophosphate with carbamate | 29 | 15 | 17 | 14 | 11 |
| Organophosphate with chlorinated hydrocarbons | 16 | 9 | 4 | 12 | 3 |
| Organophosphate with other pesticide | 46 | 44 | 32 | 35 | 33 |
| Organophosphate/carbamate/chlorinated hydrocarbons | 0 | 0 | 1 | 2 | 0 |
| Piperonyl butoxide only | 3 | 5 | 3 | 1 | 2 |
| Piperonyl butoxide/pyrethrins | 282 | 323 | 306 | 266 | 239 |
| Pyrethrins only | 249 | 253 | 267 | 262 | 235 |
| Repellants (insect) | 169 | 144 | 154 | 130 | 107 |
| Rotenone | 6 | 3 | 5 | 2 | 3 |
| Veterinary insecticide | 200 | 179 | 277 | 215 | 194 |
| Other | 112 | 128 | 89 | 92 | 69 |
| Unknown | 217 | 200 | 197 | 216 | 174 |
| **Total** | **2,173** | **1,992** | **2,103** | **1,886** | **1,562** |

In Washington State pesticide poisonings are a reportable condition (WAC 246-100-217). Health care providers can report to DOH or through the WPC. WPC forwards to DOH all calls regarding patients exposed to pesticides seen by any health care provider. Also, if WPC refers a caller to a health care provider that call is forwarded to DOH.

In 1999, DOH received 149 referrals from WPC where there were reported signs and/or symptoms of pesticide illness, or cases of probable pesticide exposure that were followed for development of symptoms. Of these, 78 did not meet the DOH criteria for investigation in that exposure occurred more than 3 months ago, no exposure-health effect relationship was present, or there was insufficient information to substantiate the pesticide exposure. DOH classified the remaining 71 incidents involving 83 individuals: definite (12), probable (12), possible (13), unlikely (23), unrelated (2), unknown (15), and asymptomatic (6) (pesticide exposure was confirmed but the individual exhibited no symptoms). The majority of these cases had mild or no symptoms (69 (83%)), 10 had moderate symptoms (12%), and 4 had severe symptoms (3%).

Forty-one percent of the WPC pesticide calls in 1999 involved children less than six years of age. Table 29 illustrates WPC calls by pesticide type for the different age groups. Insecticides continued to be the type of pesticide most frequently involved (62%). This distribution is consistent with prior years.

**Table 29 1999 WPC Human Pesticide Exposure Calls by Age**

| Pesticide Type | Less than 6 years old | 6-19 years old | Total Human Exposure Calls |
|---|---|---|---|
| Fungicides | 16 | 9 | **61** |
| Herbicides | 122 | 65 | **425** |
| Insecticides | 566 | 266 | **1,562** |
| Moth Repellents | 33 | 11 | **76** |
| Rodenticides | 304 | 33 | **399** |
| **Total** | **1,041** | **384** | **2,523** |

In 1999, three percent of the WPC pesticide calls involved intentional exposures. Fourteen percent of all calls resulted in some form of management in a health care facility and two percent of all calls reported a moderate or more severe illness from the event. Table 30 shows the decrease in numbers and severity of pesticide exposure calls to WPC for advice and management from 1995 through 1999.

**Table 30 WPC Human Pesticide Exposure Calls 1995-1999 by Types of Exposure and Health Outcome**

| | 1995 | 1996 | 1997 | 1998 | 1999 | Change 1995-1999 |
|---|---|---|---|---|---|---|
| **Type of exposure** | | | | | | |
| Accidental | 3122 | 2866 | 2969 | 2813 | 2346 | -25% |
| Intentional | 106 | 89 | 109 | 79 | 73 | **-31%** |
| Managed in Health Care Facility* | 582 | 522 | 549 | 542 | 350 | **-40%** |
| **Health Effect*** | | | | | | |
| - Minor Effect | 343 | 345 | 279 | 242 | 171 | **-50%** |
| - Moderate Effect | 104 | 86 | 84 | 54 | 40 | |
| - Major Effect | 5 | 0 | 2 | 3 | 10 | **54%** |
| - Death | 0 | 1 | 0 | 0 | 0 | |
| **Total Pesticide Calls** | **3,375** | **3,092** | **3,227** | **3,002** | **2,523** | **-25%** |

** Cases classified as "Managed in Health Care Facility" and "Health Effect" may include intentional cases.*

# Appendix A

**Pesticide Incident Reporting and Tracking (PIRT) Review Panel:**

- **RCW 70.104.070-090**
- **List of PIRT Panel Members**
- **Pesticide Incident Definition**
- **Agency Roles and Responsibilities**
- **Agency Response Time Mandates**

**RCW 70.104.070 Pesticide incident reporting and tracking review panel -- Intent.** The legislature finds that heightened concern regarding health and environmental impacts from pesticide use and misuse has resulted in an increased demand for full-scale health investigations, assessment of resource damages, and health effects information. Increased reporting, comprehensive unbiased investigation capability, and enhanced community education efforts are required to maintain this state's responsibilities to provide for public health and safety.

It is the intent of the legislature that the various state agencies responsible for pesticide regulation coordinate their activities in a timely manner to ensure adequate monitoring of pesticide use and protection of workers and the public from the effects of pesticide misuse.

[1989 c 380 § 67.]

**Severability -- 1989 c 380:** See RCW 15.58.942.

**RCW 70.104.080 Pesticide panel -- Generally.**

(1) There is hereby created a pesticide incident reporting and tracking review panel consisting of the following members:

(a) The directors, secretaries, or designees of the departments of labor and industries, agriculture, natural resources, fish and wildlife, and ecology;

(b) The secretary of the department of health or his or her designee, who shall serve as the coordinating agency for the review panel;

(c) The chair of the department of environmental health of the University of Washington, or his or her designee;

(d) The pesticide coordinator and specialist of the cooperative extension at Washington State University or his or her designee;

(e) A representative of the Washington poison control center network;

(f) A practicing toxicologist and a member of the general public, who shall each be appointed by the governor for terms of two years and may be appointed for a maximum of four terms at the discretion of the governor. The governor may remove either member prior to the expiration of his or her term of appointment for cause. Upon the death, resignation, or removal for cause of a member of the review panel, the governor shall fill such vacancy, within thirty days of its creation, for the remainder of the term in the manner herein prescribed for appointment to the review panel.

(2) The review panel shall be chaired by the secretary of the department of health, or the secretary's designee. The members of the review panel shall meet at least monthly at a time and place specified by the chair, or at the call of a majority of the review panel.

[1994 c 264 § 41; 1991 c 3 § 363; 1989 c 380 § 68.]

**Severability -- 1989 c 380:** See RCW 15.58.942.

**RCW 70.104.090 Pesticide panel -- Responsibilities.** The responsibilities of the review panel shall include, but not be limited to:

(1) Establishing guidelines for centralizing the receipt of information relating to actual or alleged health and environmental incidents involving pesticides;

(2) Reviewing and making recommendations for procedures for investigation of pesticide incidents, which shall be implemented by the appropriate agency unless a written statement providing the reasons for not adopting the recommendations is provided to the review panel;

(3) Monitoring the time periods required for response to reports of pesticide incidents by the departments of agriculture, health, and labor and industries;

(4) At the request of the chair or any panel member, reviewing pesticide incidents of unusual complexity or those that cannot be resolved;

(5) Identifying inadequacies in state and/or federal law that result in insufficient protection of public health and safety, with specific attention to advising the appropriate agencies on the adequacy of pesticide reentry intervals established by the federal environmental protection agency and registered pesticide labels to protect the health and safety of farmworkers. The panel shall establish a priority list for reviewing reentry intervals, which considers the following criteria:

(a) Whether the pesticide is being widely used in labor-intensive agriculture in Washington;

(b) Whether another state has established a reentry interval for the pesticide that is longer than the existing federal reentry interval;

(c) The toxicity category of the pesticide under federal law;

(d) Whether the pesticide has been identified by a federal or state agency or through a scientific review as presenting a risk of cancer, birth defects, genetic damage, neurological effects, blood disorders, sterility, menstrual dysfunction, organ damage, or other chronic or subchronic effects; and

(e) Whether reports or complaints of ill effects from the pesticide have been filed following worker entry into fields to which the pesticide has been applied; and

(6) Reviewing and approving an annual report prepared by the department of health to the governor, agency heads, and members of the legislature, with the same available to the public. The report shall include, at a minimum:

(a) A summary of the year's activities;

(b) A synopsis of the cases reviewed;

(c) A separate descriptive listing of each case in which adverse health or environmental effects due to pesticides were found to occur;

(d) A tabulation of the data from each case;

(e) An assessment of the effects of pesticide exposure in the workplace;

(f) The identification of trends, issues, and needs; and

(g) Any recommendations for improved pesticide use practices.

[1991 c 3 § 364; 1989 c 380 § 69.]

**Effective date -- 1989 c 380 §§ 69, 71-73:** "Sections 69 and 71 through 73 of this act shall take effect on January 1, 1990." [1989 c 380 § 90.]

**Severability -- 1989 c 380:** See RCW 15.58.942.

# Pesticide Incident Reporting and Tracking (PIRT) Review Panel Members

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**Vacant**-Department of Natural Resources

9/28/2001

# PESTICIDE INCIDENT REPORTING AND TRACKING (PIRT) REVIEW PANEL

## PESTICIDE INCIDENT DEFINITION

A pesticide incident includes:

- Documented or suspected human cases of pesticide poisoning reported by health care providers as stated in WAC 246-100.
- Suspected pesticide poisoning of animals that may relate to human illness.
- Cases of human exposure where there is concern, but no medical evidence to substantiate a pesticide poisoning.
- Emergencies relating to pesticides that represent an imminent and/or future hazard to the public and/or labor force due to the toxicity of the material, the quantities involved, or the environment in which the incident occurs.
- Documented impacts to the environment including ground, surface water or soil contamination, crop or other resource damage due to the use or misuse of pesticides.
- Violations of worker protection-related to pesticide use.
- Property loss or damage from the use or application of any pesticide.

A pesticide incident appropriate for review by the PIRT Panel includes a case or situation where information received by Departments such as Agriculture, Health, or Labor and Industries indicates that the use of a pesticide may be related to a current or future threat to the public health and welfare.

A pesticide incident appropriate for resolution by the PIRT Panel is any case described above for which unresolved issues remain after agencies have conducted investigations. Incidents concerning human health are given top priority.

Adopted April 19, 1990

Contact: Lynden Baum, Manager
Pesticide and Surveillance Section
(360) 236-3361

# Primary Agency Responsibilities Related to Pesticide Exposure

## Washington State Department of Agriculture

The Washington State Department of Agriculture (WSDA) is responsible for protection of health, welfare, and the environment under authority of the Pesticide Control Act and the Pesticide Application Act. These laws give the department the authority to regulate the handling, transportation, storage, distribution, use, and disposal of pesticides and their containers. WSDA administers the Federal Insecticide, Fungicide, and Rodenticide Act and the state pesticide laws. In administering these programs, WSDA:

- adopts and administers pesticide regulations including state pesticide registration;
- tests and certifies pesticide applicators;
- administers continuing education requirements for pesticide applicators; and,
- investigates complaints of pesticide misuse or misapplication.

## Department of Health

The Department of Health (DOH) is responsible for carrying out rules and regulations adopted by the State Board of Health for the purposes of protecting and enhancing public health and welfare. This includes the determination and documentation of health effects resulting from pesticide poisonings and exposures, and delineation of public health risks. The major elements of DOH's Pesticide and Surveillance Section set forth in RCW 70.104.030 include:

- Conduct medical investigations of suspected human pesticide poisonings and those animal poisonings that may relate to human illness.
- Provide technical assistance regarding health effects and risks of pesticides to health care providers, other agencies, and individuals.
- Provide community information regarding health effects of pesticide exposure.
- Secure and provide for analysis of environmental samples or human and animal tissues to determine the nature and cause of any suspect case of pesticide poisoning.
- Establish, chair, and staff the multi-agency Pesticide Incident Reporting and Tracking review Panel (PIRT).
- Establish pesticide illness/exposure reporting mechanisms to be used by health care providers.
- Develop a program of medical education for physicians and other health care providers regarding pesticide poisonings.

## Department of Ecology

The Department of Ecology (Ecology) is responsible for protection of public health and the environment, particularly under these jurisdictions: Chapter 90.48 RCW, Water Pollution Control; Chapter 70.105D RCW, Hazardous Management Act; Chapter 70.105D RCW, Model Toxics Control; and, Chapter 70.94 RCW, Washington Clean Air Act. The following elements apply to pesticide incidents.

- Protect wetlands, shorelands, and water including control and prevention of pollution from pesticide activities.
- Implement an aquatic pesticide application permit system.
- Administer a regulatory and education program directed at proper management and disposal of pesticide wastes.
- Investigate and enforce remediation of incidents involving spills or environmental contamination by pesticides.
- Provide educational and technical assistance to make voluntary compliance with environmental laws easier.

## Department of Labor and Industries

The Department of Labor and Industries (L&I), the Division of Industrial Safety and Health, administers the Washington Industrial Safety and Health Act of 1973, Chapter 49.17 RCW. L&I has primary responsibility for ensuring that employers provide safe and healthful working conditions for every worker in Washington State at a level which is at least as effective as the Federal Occupational Safety and Health Act of 1970. In administering Chapter 49.17 RCW, L&I:

- conducts safety and health workplace inspections in agriculture and industry;
- promulgates workplace safety and health standards;
- investigates employee complaints;
- provides employers information and consultation; and,
- conducts training and education programs.

L&I also focuses on hazardous chemicals through administration of the Worker Right to Know Law, Chapter 49.70 RCW, and administers the Workers Compensation Program, Title 51 RCW, through the Division of Industrial Insurance.

## Department of Natural Resources

The Department of Natural Resources administers the Forest Practices Rules and Regulations, WAC 222. Section 38 of WAC 222 pertains to forest chemicals including pesticides and fertilizers. These regulations are written to protect timber resources, fish, and wildlife from the misuse or misapplication of forest chemicals. The elements of the program that apply to pesticides involve issuing permits for pesticide applications in forests and monitoring permit restrictions.

# Agency Response Time Mandates

## Washington State Department of Agriculture

WAC 16-228-233 directs the Washington State Department of Agriculture to respond to complaints involving humans or animals immediately. All other complaint investigations must be initiated within 48 hours.

## Department of Health

WAC 246-100-217 directs the Department of Health (DOH) to respond to incidents within time periods based on severity. In the event of a pesticide-related hospital admission, death, or a threat to public health, DOH must respond within 24 hours. For all other cases, DOH must respond within 48 hours after notification.

## Labor and Industries

The Department of Labor and Industries (L&I) response times are mandated in the Federal Occupational Safety and Health Act operations manual. Serious complaints require response within 30 days; all others within 120 days. The goal of the L&I Consultation and Compliance Services Division is to respond to serious complaints within 15 days; all others within 30 days. Response is defined as a site visit, not a telephone call.

April 6, 1998

# Appendix B

## PIRT Agendas

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday February 17, 2000
Room S-4

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review November and December 1999 Meeting Overview | M. Guichard |
| 10:05 | Legislative Update | M. Guichard |
| 10:20 | **PIRT Panel Activities**<br>Report on action items<br>• 2000 Panel Work Plan<br>• Legislative motion made by Bill Robertson<br>• Update on 5 Year data analysis<br>• Update of 1999 Annual Report | M. Guichard<br><br><br><br>Jane Lee |
| 10:45 | Present data on incidents occurring in commercial establishments, the products involved and whether the label instructions were adequate. (#3 of the 2000 Recommendations) | Ann Wick<br>Lynden Baum |
| 11:20 | Identify specific pesticide products and their active ingredients involved in incidents for further evaluation. (#2 of the 2000 Recommendations) | All |
| 11:40 | Public Comment | |
| 11:50 | Other Business<br>• Next meeting agenda items | |
| 12:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday April 20, 2000
Room S-4

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review February Meeting Summary | M. Guichard |
| 10:10 | Idaho applicator fatality – case study | Jim Baker<br>(by phone) |
| 10:30 | **PIRT Panel Activities**<br>Report on action items<br>• Legislative Update<br>• 1999 Draft Annual Report | M. Guichard<br><br><br>Jane Lee |
| 11:00 | Discussion of additional PIRT Tasks – Pesticide Use Reporting | M. Guichard |
| 11:15 | Follow-up – DOH review of incidents occurring in commercial establishments | Lynden Baum |
| 11:30 | RCW 70.104.070-090 revisions | M. Guichard |
| 11:40 | Other Business<br>• Next meeting agenda items<br>• DOH Grant proposal to NIOSH | <br><br>Lynden Baum |
| 11:45 | Public Comment | |
| 12:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday May 18, 2000
Room Q-20

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review April Meeting Summary | M. Guichard |
| 10:10 | **PIRT Panel Activities**<br>Report on action items<br>• Legislative Update<br>• 1999 Draft Annual Report<br>• Review PIRT's workplan | M. Guichard<br><br><br>Jane Lee |
| 10:30 | Pesticide Use Reporting<br>• Outline of issues<br>• What's happening in California and Oregon<br>• What role does PIRT want? | M. Guichard<br><br>Allan Felsot |
| 11:40 | Other Business<br>• Next meeting agenda items<br>• EPA Press release 60 day comment period on indoor residential insecticide product labeling<br>• Update on Asian Gypsy Moth control | <br>Lynden Baum |
| 11:45 | Public Comment | |
| 12:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday June 15, 2000
Room S-4

## 1:00 pm to 3:00 pm (Please note new time)

## AGENDA

| | | |
|---|---|---|
| 1:00 | Welcome<br>Agenda Overview<br>Review May Meeting Summary | Maryanne Guichard |
| 1:10 | **PIRT Panel Activities**<br>Report on action items<br>• 1999 Draft Annual Report | Maryanne Guichard |
| 1:35 | Pesticide Use Reporting<br>Plan joint meeting with the Pesticide Advisory Board November 2000 | Maryanne Guichard |
| 2:35 | Other Business<br>• Next meeting agenda items<br>• Summary of Asian Gypsy Moth control 2000 | <br>Lynden Baum |
| 2:50 | Public Comment: | |
| 3:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday July 20, 2000
Room S-4

## 1:00 pm to 3:00 pm

## AGENDA

| | | |
|---|---|---|
| 1:00 | Welcome<br>Agenda Overview<br>Review June Meeting Summary | Maryanne Guichard |
| 1:10 | **PIRT Panel Activities**<br>Report on action items<br>• Update on 1999 Report<br>• 2000 Legislative Summary | Jane Lee |
| 1:20 | Pesticide Use Reporting - Joint meeting with the Pesticide Advisory Board , October 20, 0000<br>• Location<br>• Speakers<br>• Format | Maryanne Guichard |
| 2:00 | Review a sample of 1999 incidents<br>WSDA<br>Ecology<br>L&I<br>DOH | <br>Ann Wick<br>John Ridgway<br>Arlene Stebbins<br>Lynden Baum |
| 2:40 | Other Business<br>• Next meeting agenda items | Lynden Baum |
| 2:50 | Public Comment | |
| 3:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday November 16, 2000
Room S-4

## 1:30 pm to 3:30 pm

## AGENDA

| | | |
|---|---|---|
| 1:30 | Welcome<br>Agenda Overview<br>Review October Joint Meeting Summary | Maryanne Guichard |
| 1:45 | **PIRT Panel Activities**<br>Report on action items<br>• 2000 Draft Legislative Summary | |
| 2:20 | Pesticide Use Reporting<br>Wrap-up discussion of the October 20th joint meeting with the Pesticide Advisory Board | Maryanne Guichard |
| 3:00 | Other Business<br>• Next meeting agenda items<br>• IPM in School, draft legislation<br>• AGM follow up | <br><br>Ann Wick<br>Lynden Baum |
| 3:20 | Public Comment: | |
| 3:30 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday January 18, 2001
Room S-4

## 1:30 pm to 3:30 pm

## AGENDA

| | | |
|---|---|---|
| 1:30 | Welcome<br>Agenda Overview<br>Review November Meeting Summary | Maryanne Guichard |
| 1:45 | **PIRT Panel Activities**<br>Report on action items<br>• 2000 PIRT Legislative Summary | Lynden Baum |
| 2:00 | Update on Worker Protection Standards (WPS) Assessment | Alice Larson |
| 2:15 | 2001 Annual PIRT Report and Five Year Data Analysis | Jane Lee |
| 2:45 | National Evaluation of WPS Training | Alice Larson |
| 3:10 | Other Business<br>• Next meeting agenda items | |
| 3:20 | Public Comment: | |
| 3:30 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday, April 19, 2001
Room S 4

## 9:30 am to 11:30 pm

## AGENDA

| | | |
|---|---|---|
| 9:30 | Welcome<br>Agenda Overview<br>Review February Meeting Summary | Maryanne Guichard |
| 9:40 | **PIRT Panel Activities**<br>Report on action items<br>• Legislative Update | |
| 9:50 | Update from the "Pacific Northwest Agricultural Safety and Health Center", UW | Matt Keifer |
| | Update from the "Center for Child Environmental Health Risks Research", UW | Rich Fenske |
| 10:50 | Other Business<br>• Recent Oregon Court Decision | |
| 11:10 | Public Comment: | |
| 11:30 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday May 17, 2001
Room S-4

## 1:30 pm to 3:00 pm

## AGENDA

| | | |
|---|---|---|
| 1:30 | Welcome<br>Agenda Overview<br>Review February Meeting Summary | Jane Lee |
| 1:40 | **PIRT Panel Activities**<br>Report on action items<br>• Legislative Update<br>Substitute Senate Bill 5533 "Schools Posting Bill" | Ann Wick |
| 2:00 | Recent 9th Circuit Court decision regarding aquatic pesticide use | Ann Wick |
| 2:15 | WSDA Program Proposal "Aquatic pesticides and salmon" | Ann Wick |
| 2:30 | Other Business | |
| 2:45 | Public Comment | |
| 3:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday June 21, 2001
Room Q-20

## 10:00 am to 12:00 pm (Please note new time)

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review May Meeting Summary | Maryanne Guichard |
| 10:15 | **PIRT Panel Activities**<br>Report on action items | |
| 10:30 | Update from the "Pacific Northwest Agricultural Safety and Health Center", UW | Matt Keifer |
| | Update from the "Center for Child Environmental Health Risks Research", UW | Rich Fenske |
| 11:30 | Other Business<br>♦ Next meeting Wednesday July 18, 2001 in Yakima with the Pesticide Advisory Board | |
| 11:45 | Public Comment: | |
| 12:00 | Adjourn | |

# WASHINGTON STATE DEPARTMENT OF AGRICULTURE

**Pesticide Advisory Board Meeting**
**July 18, 2001, 10:00 a.m.**
**Yakima, WA**

## AGENDA

- Opening Comments — Chairman Goodwin
- PIRT Panel Update — Maryanne Guichard
- NPDES Permits — Kathleen Emmett
- Pesticide Advisory Board Charter — Chairman Goodwin
- Two-Year Pesticide Registration Ad Hoc Committee — Ted Maxwell
- Direct Supervision Proposal/Status — Cliff Weed
- Monitoring Cholinesterase Baseline for Farm Workers — Dan Ford
- Program Updates
    - Compliance — Cliff Weed
    - Program Development — Ann Wick
    - Registration — Ted Maxwell
- Other Business/Adjourn — Chairman Goodwin

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday September 20, 2001
Room S-4

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review June Meeting Summary | Maryanne Guichard |
| 10:15 | **PIRT Panel Activities**<br>Report on action items<br>Renew membership<br>5 Year Data Review WSU Articles<br>2000 Annual Report<br>1999 Report Recommendations | Jane Lee |
| 10:30 | • Pesticide Advisory Board Meetings Update<br>• Migrant Farmworker Forum August 8, 2001 Yakima<br>• WSDA Participation in an EPA Pilot Program to Track Cases | Ann Wick |
| | • DOH-NIOSH Project<br>• DOH - New Data System<br>• West Nile Virus-Update | Lynden Baum |
| | • Citrus Longhorn Beetle - Update<br>• Gypsy Moth - Update<br>• Assessment of WPS | Alice Larson |
| 11:15 | Agency Updates | |
| 11:30 | Other Business | |
| 11:45 | Public Comment | |
| 12:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday October 18, 2001
Room S-4

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review September Meeting Summary | Maryanne Guichard |
| 10:15 | Agenda items held over from the September 20, 2001 PIRT meeting<br>• WSDA Participation in an EPA Pilot Program to Track Cases<br>• DOH-NIOSH Project/DOH - New Data System<br>• Assessment of WPS | Ann Wick<br>Lynden Baum<br>Alice Larson |
| 11:15 | **PIRT Panel Activities**<br>Report on action items<br>Draft 2000 Annual Report | |
| 11:30 | Agency updates | |
| 11:40 | Other Business | |
| 11:45 | Public Comment: | |
| 12:00 | Adjourn | |

# PIRT MEETING

## PESTICIDE INCIDENT REPORTING AND TRACKING REVIEW PANEL

STATE PUBLIC HEALTH LAB
1610 NE 150TH STREET
SEATTLE, WASHINGTON

Thursday December 20, 2001
Room S-4

## 10:00 am to 12:00 pm

## AGENDA

| | | |
|---|---|---|
| 10:00 | Welcome<br>Agenda Overview<br>Review October and November Meeting Summaries | Maryanne Guichard |
| 10:15 | **PIRT Panel Activities**<br>Draft 2000-2001 Annual Report | |
| 11:00 | Update on the EPA Assessment of the Worker Protection Standards | Alice Larson |
| 11:35 | Agency updates | |
| 11:45 | Other Business | |
| 11:50 | Public Comment: | |
| 12:00 | Adjourn | |

# Appendix C

- **DOH Relationship Classifications**
- **DOH Severity Index**

STATE OF WASHINGTON
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH AND SAFETY
*7171 Cleanwater Lane, Building 4 • PO Box 47825 • Olympia, Washington 98504-7825*
*TDD Relay Service: 1-800-833-6388*

# PESTICIDE INCIDENT SUMMARY REPORT

## RELATIONSHIP CLASSIFICATIONS

**DEFINITE:** High degree of correlation between pattern of exposure and resulting symptomology. Requires in most cases both medical evidence (Cholinesterase, serum or urinary metabolites, allergy tests, etc.) and physical evidence (foliar samples, work history, spill noticeable on clothing, etc.) to support the conclusions.

**PROBABLE:** Relatively high degree of correlation exists between the pattern of exposure and the illness/injury experienced. Medical and/or physical evidence unavailable or inconclusive.

**POSSIBLE:** Some degree of correlation evident. Work history and/or application history ambiguous.

**UNLIKELY:** A correlation cannot be ruled out absolutely. Work history and/or application history ambiguous.

**UNRELATED:** Definite evidence of cause other than pesticide exposure.

**ASYMPTOMATIC:** Exposure occurred, but did not result in illness/injury.

**INDIRECT:** Pesticide exposure is not responsible, but pesticide regulation contributed in some way, (e.g., heat stress while wearing chemical resistant clothing).

**UNKNOWN:** There is insufficient information available to be able to classify in one of the above categories.

STATE OF WASHINGTON
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH AND SAFETY
*7171 Cleanwater Lane, Building 4 • PO Box 47825 • Olympia, Washington 98504-7825*
*TDD Relay Service: 1-800-833-6388*

# SEVERITY INDEX FOR PESTICIDE-RELATED CASES

**01** No symptoms developed or if they did, a cause other than pesticides was identified.

**02** **(mild)** Patient experienced mild, temporary symptoms. If medical care was sought, treatment was limited to decontamination and minor pain relief.

Patient experienced temporary or mild topical irritation.

**03** **(moderate)** Patient suffered moderate systemic symptoms. Patient may have been seen in an Emergency Room, admitted for observation, or not admitted.

Patient suffered moderately painful, itchy, or otherwise irritating topical symptoms.

**04** **(severe)** Patient suffered systemic symptoms and received aggressive treatment procedures or hospitalization. All symptoms resolved.

Patient suffered severe topical (eye and/or skin) burn, ulceration, or irritation that resulted in medical treatment.

**05** **(severe)** Patient suffered systemic symptoms and received aggressive treatment procedures or hospitalization for 24 hours or more. At the time case was closed, symptoms had not resolved completely.

Patient suffered severe topical (eye and/or skin) burn, ulceration, or irritation that resulted in medical treatment. Permanent damage resulted.

**06** Death occurred.

Revised April 6, 1998
Contact: Lynden Baum (360) 236-3360

# Appendix D

**Agency Data Summaries:**

- **Washington State Department of Agriculture**
- **Department of Health**
- **Department of Labor and Industries**

# Washington State Department of Agriculture

# WSDA 1999 Case Data

**CASE #** 1C 1999
**County** OKANOGAN

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Dogs poisoned

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| RODENTICIDE | | |
| Strychnine | | |

**Date of Incident** 1/20/1999
**Response Time** 7 days

**Severity** 4
**Children Involved?** No

**Application Method** Ground
**Application Type** Unknown

**Other Agencies Involved:** Police

**Final Action** NAI

**Target/Complaint Area** Dogs

**Summary / Findings**

Referring party discovered two dogs over the January 16-17 weekend that exhibited symptoms of strychnine poisoning. He checked with local feed and supply to see if they were aware of the new law restricting strychnine sales only to those who have RUP licenses. The feed store was unaware of the law.

University of Idaho lab assessed dogs' stomach contents positive for strychnine. The source of the poisoning could not be determined. A local dealer had restricted use pesticides on sale and no one in the store had a dealers license.

**CASE #** 2C 1999
**County** DOUGLAS

**Designation** Violation **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | INSECTICIDE | |
| Malathion | Horticultural Oil | |

**Date of Incident** 3/5/1999
**Response Time** same day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** NOC

**Target/Complaint Area** Ornamentals/Property, dog

**Summary / Findings**

Ornamental application allegedly drifted onto complainant's yard and dog.

Alleged infractor applied oil and malathion with equipment that was not licensed with the WSDA. The sprayer was not equipped with any pressure gages. The WSDA lab found malathion residues on the dog blanket and on the vegetation surrounding the blanket. The alleged infractor indicated on the application record that he stopped spraying because the wind was too gusty.

**CASE #** 3C 1999
**County** CHELAN

**Designation** Violation **License** private applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | FUNGICIDE | INSECTICIDE |
| Endosulfan | Sulfur | Chlorpyrifos |

**Date of Incident** 3/19/1999
**Response Time** same day

**Severity** 2
**Children Involved?** Yes

**Application Method** Ground
**Application Type** Ag

**Other Agencies Involved:** DOH

**Final Action** NOI

**Target/Complaint Area** Pears/Car

**Summary / Findings**

Human health. Complainant alleges that the alleged infractor sprayed her car with an air-blast sprayer. Upon nearing the sprayer, she thought the applicator saw her, yet deliberately kept his sprayer on. She said the spray drifted on her car & she smelled it while she rolled up the car window s. Her daughter (2yrs) & nephew (3yrs) were with her. Her daughter has a heart condition and she is worried about the effects to her health.

Lab samples from vehicle are positive; other evidence suggest that the complainant's claim of drift onto her vehicle are valid. Alleged infractor was also working with an expired license.

**CASE #** 4C 1999
**County** GRANT

**Designation** Pesticide Involved **License** unlicensed
**Nature of Case** License

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| HERBICIDE | HERBICIDE | |
| 2,4-D | Dicamba | |

**Date of Incident** 3/24/1999
**Response Time** same day

**Severity** 2
**Children Involved?** No

**Application Method** Air
**Application Type** Ag

**Other Agencies Involved:** EPA

**Final Action** NAI

**Target/Complaint Area** Spill

**Summary / Findings**

Suspected use of pesticides by an unlicensed aerial applicator. During routine surveillance for aerial applications, a potential spill of a phenoxy-type herbicide was observed in the immediate vicinity of an unlicensed, aerial applicator's equipment.

The alleged infractor stated that he would not be spraying pesticides in Washington in 1999. The WSDA lab detected herbicide residues in the spray tank of alleged infractor's aircraft; herbicide residues in a soil sample collected from the mixing/loading area where aircraft is parked. He and another person failed to submit records.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 5C 1999 | Violation | private applicator | 3/31/1999 | 2 | Ground |
| County: DOUGLAS | Nature of Case: Drift | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| FUNGICIDE<br>Sulfur | | | None | NOC | Apples/House |

**Summary / Findings**

Alleged drift from an orchard on west side of house. Airblast sprayer using oil & sulfur.

Alleged infractor applied lime and sulfur to orchard adjacent to complainant's residence. WSDA lab found sulfur in every sample taken from complainant's residence. Alleged infractor did not provide all of the required information concerning pesticide applications on the application record.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 6C 1999 | Violation | private applicator | 4/1/1999 | 2 | Ground |
| County: DOUGLAS | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | INSECTICIDE<br>Fenarimol | INSECTICIDE<br>Oil | DOH | NOI | Apples/People |

**Summary / Findings**

Complainant states that an air blast sprayer, while spraying the block of trees behind their subdivision, sprayed him and his wife in his back yard. Complainant said it might have also sprayed two neighbor children who were walking across the street from their home who had to cover their heads.

The WSDA laboratory found detectable quantities of chlorpyrifos on all nine samples submitted. The lab also found detectable quantities of fenarimol in two samples. The alleged infractor said that they had applied pesticide to the orchard bordering the complainant's property on that day.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 7C 1999 | Incident | n/a | 12/31/1996 | 1 | NA |
| County: ADAMS | Nature of Case: Employer Retaliation | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | EPA, DOH, L&I, DOE | Referred | Fired by employer |

**Summary / Findings**

Referring party was fired from alleged infractor's firm. Complainant said the firing was because he had refused to spray during windy conditions.

Investigator spoke with complainant about allegations that he made and referred information to appropriate agencies. The complainant claimed he was fired because he had refused to spray during windy conditions.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 8C 1999 | Violation | private applicator | 4/24/1999 | 2 | Ground |
| County: CHELAN | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| BACTERICIDE<br>Oxytetracycline | | | DOH | NOC | Pears/People |

**Summary / Findings**

An applicator allegedly drifted a pesticide from an adjoining pear orchard onto complainant and his son while they were sitting in their back yard. When complainant asked the applicator what he was spraying, he was mistakenly told it was a fungicide. it was later found the applicator was spraying a bactericide.

WSDA lab found detectable quantities of oxytetracycline on the north side of complainant's back yard, on his patio table, and in the alcove in the backyard where complainant said he was standing during the episode. Lab samples were "none detected" on complainant's socks, sliding glass doors and SE corner of backyard alcove. Alleged infractor was spraying near the property line.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

**CASE #** 9C 1999
**County** OKANOGAN

**Designation** Violation **License** private applicator
**Nature of Case** Human Exposure

**Date of Incident** 5/1/1999
**Response Time** same day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**
GROWTH REG
gibberillins

**Other Agencies Involved:** DOH

**Final Action** NAI

**Target/Complaint Area** Apples/people

**Summary / Findings**

An applicator allegedly drifted from an apple orchard onto the damaged parties sometime before noon on 5/1/99 while they were working outside around complainant's pigpen. He said that the wind was gusting at 50 mph with sustained winds of 10-20 mph, and thought that the applicator shouldn't be spraying in such strong wind. He said he felt "hyper," the feeling hit fast like when you have too much caffeine. He did not feel mist or smell odor outside.

Lab unable to analyze for material sprayed by alleged infractor on his orchard at the time of complaint. Insufficient evidence to take an action.

**CASE #** 10C 1999
**County** GRANT

**Designation** Violation **License** commercial applicator
**Nature of Case** Human Exposure

**Date of Incident** 5/5/1999
**Response Time** same day

**Severity** 2
**Children Involved?** Yes

**Application Method** Air
**Application Type** Ag

**Chemicals or other Materials Involved:**
HERBICIDE
MCPA
HERBICIDE
2,4-D

**Other Agencies Involved:** EPA, DOH

**Final Action** NAI

**Target/Complaint Area** Wheat/people

**Summary / Findings**

Complaint of aerial applicator drifting onto complainant, his wife, daughter, niece and 19 other children and adults and while they were picking camas roots near Almira. Complainant's daughter & niece were taken to the doctor that evening with severe abdominal cramps. Complainant described the airplane that sprayed them.

The WSDA lab found pesticide residues in the wheat and vegetation samples collected from the approximate positions of the people in the sagebrush scrub. The lab also found residues in one item of clothing from a single person. One person failed to submit records in response to an official record request.

**CASE #** 11C 1999
**County** GRANT

**Designation** Violation **License** unknown
**Nature of Case** Bee Kill

**Date of Incident** 5/10/1999
**Response Time** same day

**Severity** 4
**Children Involved?** No

**Application Method** Unknown
**Application Type** Ag

**Chemicals or other Materials Involved:**
INSECTICIDE
Carbaryl
INSECTICIDE

**Other Agencies Involved:** None

**Final Action** NOC

**Target/Complaint Area** Bees/Unknown

**Summary / Findings**

Bee kill. An unknown applicator allegedly sprayed or drifted a pesticide onto an area where the complainants bees were foraging. The complainant had 46 hives affected with what he calls a moderate kill of about 80 percent. Complainant had 46 hives.

The bees were foraging in non-crop areas. WSDA found carbaryl in the bees. Three different orchards within 5 miles of the hives applied carbaryl at this time. Unable to determine source.

**CASE #** 12C 1999
**County** GRANT

**Designation** Incident **License** unknown
**Nature of Case** Bee Kill

**Date of Incident** 5/10/1999
**Response Time** same day

**Severity** 1
**Children Involved?** No

**Application Method** Unknown
**Application Type** Ag

**Chemicals or other Materials Involved:**
UNKNOWN
Unknown

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** Bees/Unknown

**Summary / Findings**

Bee kill. Unknown applicator allegedly sprayed or drifted onto an are where the damaged party's bees were foraging. Damaged party had 110-120 hives affected with what the referring party calls a moderate kill of about 80 percent.

No pesticide residues were detected in the bees. Carbaryl was detected in nearby orchards, no non-crop areas were sampled. Some submitted records were incomplete.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

**CASE #** 13C 1999
**County** GRANT
**Designation** Incident **License** unknown
**Nature of Case** Bee Kill
**Date of Incident** 5/10/1999
**Response Time** same day
**Severity** 1
**Children Involved?** No
**Application Method** Unknown
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | INSECTICIDE | |
| Carbaryl | | |

**Other Agencies Involved:** None
**Final Action** NOC
**Target/Complaint Area** Bees/Unknown

**Summary / Findings**

Bee kill. An unknown applicator allegedly sprayed or drifted onto an area where the damaged party's bees were foraging. The site is near the location where another incident was reported. The referring party said that there were more than 50 other hives affected with a moderate kill of about 80%.

A trace of carbaryl was detected in the bees. Carbaryl was applied in nearby orchards but no noncrop areas were sampled; complainant says bees were foraging in non-crop areas at time of incident.

**CASE #** 14C 1999
**County** DOUGLAS
**Designation** Pesticide Involved **License** private applicator
**Nature of Case** Human Exposure
**Date of Incident** 5/19/1999
**Response Time** same day
**Severity** 2
**Children Involved?** No
**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | | |
| Azinphos Methyl | | |

**Other Agencies Involved:** DOH, Food Safety
**Final Action** NAI
**Target/Complaint Area** Apples/Person

**Summary / Findings**

Alleged infractor sprayed or drifted a pesticide onto the complainant from an orchard on the west side of the road as the complainant was driving his motorcycle. The complainant suffered an irritation on his face that he believes is due to being drenched by the pesticide. The complainant went to a walk-in health clinic to have the irritation on his face treated.

The complainant could not pinpoint exactly where he was sprayed. Two potential sources for the overspray but could not determine which was the source.

**CASE #** 15C 1999
**County** GRANT
**Designation** Incident **License** n/a
**Nature of Case** Animal Exposure
**Date of Incident** 4/1/1999
**Response Time** One day
**Severity** 0
**Children Involved?** No
**Application Method** NA
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| NONE | | |
| None | | |

**Other Agencies Involved:** WSU
**Final Action** NAI
**Target/Complaint Area** Horses

**Summary / Findings**

Alleged exposure of horses to unknown substance (suspected pesticide) leading to blindness.

The WSDA lab found no pesticide residues in hay and water samples collected from the site. The vet told the complainant that something was wrong with the muscle around the horse's eye.

**CASE #** 16C 1999
**County** GRANT
**Designation** Violation **License** private applicator
**Nature of Case** Human Exposure
**Date of Incident** 5/24/1999
**Response Time** same day
**Severity** 1
**Children Involved?** No
**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | | |
| imidacloprid | | |

**Other Agencies Involved:** DOH
**Final Action** NOC
**Target/Complaint Area** Apples/Person

**Summary / Findings**

Alleged exposure to orchard spray while riding bicycle.

Complainant alleged that he and other employees and residents of two adjacent orchards (with one owner) were drifted on by an airblast sprayer operated by the alleged infractor. The WSDA laboratory did not detect the pesticide on vegetation downwind of the application. The records requested by WSDA were not provided by the alleged infractor.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 17C 1999 | Incident | unlicensed | 5/24/1999 | 1 | Ground |
| County: GRANT | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | DOH | NAI | Lawn/Person |

**Summary / Findings**

Alleged exposure to substance in lawn causing a burning sensation.

Complainant alleged that due to a neighbor's pesticide applications to his lawn around the end of may, he was getting a burning sensation on his hands and feet when he worked in his own yard. Alleged infractor claims that he did not make any pesticide applications in 1999. The WSDA lab did not detect any pesticides in the vegetation and soil samples collected from the complainant's yard.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 18C 1999 | Violation | private applicator | 6/3/1999 | 2 | Ground |
| County: OKANOGAN | Nature of Case: Drift to organics | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | INSECTICIDE<br>Imidicloprid | | None | NOC | Apples/Organic pears |

**Summary / Findings**

The complainant said the neighboring orchardist to the north drifted guthion onto his organic pear orchard. Complainant said alleged infractor had also drifted onto his orchard workers about two months ago. He confronted the alleged infractor about the most recent drift & was told that alleged infractor was not going to change his lifestyle and method of farming just because the complainant had gone organic.

Alleged infractor indicated in his records and statement that he was spraying azinphos methyl 50-W soluble and imidicloprid in the orchard bordering the complainant's on the north side. The WSDA lab found detectable quantities of azinphos methyl in samples extracted from complainant's property as far in as 120 feet south of alleged infractor's orchard.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 19C 1999 | Pesticide Involved | private applicator | 5/2/1999 | 2 | Ground |
| County: OKANOGAN | Nature of Case: Animal Death | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| RODENTICIDE<br>Unknown | | | None | NAI | Cherries/Dog |

**Summary / Findings**

The complainant claims numerous birds and her dog died following a pesticide application in an orchard. She was told that a "knock down" spray with some fertilizer added to it was used. Her dog died of severe internal bleeding. She said the orchard vegetation turned white and there was a white film on her grass after the application. She feels her pasture is still affected from it leeching.

Investigators looked at the site and could not see any plants that had any pesticide symptoms. After discussion with her and her husband we found that her husband had placed some rodent bait in the area (causes severe bleeding when ingested). The alleged infractor's records indicated that he had not applied any rodenticides. Unable to prove allegations.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 20C 1999 | Violation | private applicator | 6/9/1999 | 4 | Unknown |
| County: GRANT | Nature of Case: Bee Kill | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | None | NOC | Bees/Unknown |

**Summary / Findings**

Bee kill. An unknown applicator allegedly sprayed or drifted onto an area where the complainant's bees were foraging. According to the complainant he had 150 colonies at this site.

Complainant's bees were foraging in noncrop areas. Samples of bees contained residues of azinphos methyl. Three orchards in which azinphos methyl was applied were in range of the foraging bees. Two persons making applications allowed drift off-site and off-property to non-crop areas where bees were foraging. One person's records were incomplete.

# WSDA 1999 Case Data

**CASE #** 21C 1999
**County** GRANT

**Designation** Violation **License** commercial applicator
**Nature of Case** Direct
**Date of Incident** 4/27/1999
**Response Time** same day
**Severity** 4
**Children Involved?** No
**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| HERBICIDE | HERBICIDE | |
| MCPA | Dicamba | |

**Other Agencies Involved:** DOE
**Final Action** NOC
**Target/Complaint Area** Timothy hay

**Summary / Findings**

Complainant hired alleged infractor to spray his hay last fall & this spring with 2,4-D & Banvel. The stands have been in 3-4 yrs & averaged 4 ton/ac 1st cutting. After being sprayed the hay is twisted, yellow and may make 1 1/2 ton/ac. New seedlings where spray skipped, are normal. Approximately 1300 acres are affected.

Rhomene MCPA amine herbicide was used and is not labeled for use on Timothy. Opinions of experts and consultants differed on whether or not herbicides injured the Timothy. Opinions also differed on whether or not the crop was at the correct stage of growth for MCPA and Dicamba applications.

**CASE #** 22C 1999
**County** DOUGLAS

**Designation** Violation **License** private applicator
**Nature of Case** Human Exposure
**Date of Incident** 6/11/1999
**Response Time** same day
**Severity** 2
**Children Involved?** No
**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | INSECTICIDE | INSECTICIDE |
| Azinphos Methyl | Sulfur | Mycobutanil |

**Other Agencies Involved:** DOH
**Final Action** Administrative Action
**Target/Complaint Area** Cherries/Person

**Summary / Findings**

An applicator allegedly drifted a pesticide from a cherry orchard onto complainant while she was working in her front yard.

DOH classified the relationship of the pesticide exposure to the symptoms expressed as "probable". The alleged infractor sprayed in his orchard about 85' west of the episode site from 9:00 am to 12:00 pm on 6-11-99. The WSDA lab found detectable quantities of azinphos methyl and sulfur at site of exposure.

**CASE #** 23C 1999
**County** OKANOGAN

**Designation** Pesticide Involved **License** public operator
**Nature of Case** Trees Dying
**Date of Incident** 6/14/1999
**Response Time** same day
**Severity** 2
**Children Involved?** No
**Application Method** Ground
**Application Type** ROW

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| HERBICIDE | HERBICIDE | HERBICIDE |
| 2,4-D | Diuron | bromacil |

**Other Agencies Involved:** DOT
**Final Action** NAI
**Target/Complaint Area** Trees

**Summary / Findings**

Alleged trees dying along highway. Several trees in front of complainant's motel. Several died last year and more are dying this year.

WSDA lab found detectable quantities of 2,4-D and MCPA. Alleged infractor records indicate that these items were sprayed in the area in question. The complainant claims that she witnessed the alleged infractors spraying the limbs of her pine trees in 1997, the trees had died by 1999. Could not prove cause

**CASE #** 24C 1999
**County** CHELAN

**Designation** Pesticide Involved **License** commercial applicator
**Nature of Case** Drift to organics
**Date of Incident** 6/22/1999
**Response Time** same day
**Severity** 1
**Children Involved?** No
**Application Method** Air
**Application Type** Ag

**Chemicals or other Materials Involved:**

| | | |
|---|---|---|
| INSECTICIDE | | |
| malathion | | |

**Other Agencies Involved:** None
**Final Action** NAI
**Target/Complaint Area** Cherries/Organic apples, nectarines

**Summary / Findings**

Complainant was working in his organic apple block when he noticed a helicopter spraying a cherry orchard to the west. He claims winds were gusting (15-mph) and sustained at over 5 mph. He believes that the application drifted onto his organic apples and nectarines.

WSDA lab found detectable quantities of Malathion in samples from organic apple orchard and neighboring targeted orchard. Complainant turned out not to have been the lessee of the orchard that the complaint involved. The lessee chose not to press the complaint. Case closed.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 25C 1999 | Violation | commercial applicator | 6/17/1999 | 2 | Ground |
| County: GRANT | Nature of Case: Direct | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE Glyphosate | HERBICIDE Diuron | | None | NOC | Parking lot/Car |

**Summary / Findings**

Vehicle owned by complainant and parked in the Fire District parking lot was allegedly sprayed by alleged infractor during an application to the parking lot of the fire district.

The WSDA lab found residues of glyphosate on complainant's truck. Alleged infractor claimed that sprayer equipment malfunctioned and sprayed complainant's truck. the application record from the alleged infractor was not on an official or approved WSDA form.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 26C 1999 | Violation | public operator | 6/1/1999 | 3 | Ground |
| County: OKANOGAN | Nature of Case: Direct | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE 2,4-D | HERBICIDE Dicamba | | None | NOC | ROW/Trees, water |

**Summary / Findings**

Complainant said there were three locations where he believed the alleged infractor was spraying illegally over water. He also believes they were killing pine trees along two state routes due to their spray program.

Alleged infractor was driving a truck mounted sprayer that applied 2,4-D and Dicamba near a culvert. WSDA lab found detectable quantities of 2,4-D and Dicamba in samples taken from shrubs that overhang the water on both banks of a creek. Records were submitted on a non-approved computer program.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 27C 1999 | Pesticide Involved | unknown | 6/10/1999 | 4 | Unknown |
| County: GRANT | Nature of Case: Bee Kill | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE Azinphos Methyl | | | None | NAI | Bees |

**Summary / Findings**

Bee kill. An unknown applicator allegedly sprayed or drifted a pesticide onto an area where the complainant's bees were foraging. The complainant said he had 42-44 colonies at the site.

The WSDA lab found azinphos methyl in the damaged party bees. No vegetation samples were obtained from non-crop areas adjacent to any of the several orchards near the bees. The source of the azinphos methyl cannot be determined. Incomplete records were provided to WSDA by one person.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 28C 1999 | Violation | private applicator | 7/2/1999 | 2 | Ground |
| County: CHELAN | Nature of Case: Drift | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE Azinphos Methyl | | | DOH | NOI | Cherries/Cherries |

**Summary / Findings**

Alleged drift from neighboring orchard spray application onto complainant's cherry trees. Possible contamination of fruit beyond residue tolerances.

WSDA lab found detectable quantities of azinphos methyl in the complainant's orchard, on the window of a newly constructed house east of alleged infractor's target, and on complainant's t-shirt and cherry fruit from complainant's orchard. The residue was 1.2 ppm on the cherry fruit. EPA allows 2 ppm.



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# WSDA 1999 Case Data

**CASE #** 29C 1999
**County** GRANT

**Designation** Pesticide Involved **License** commercial applicator
**Nature of Case** Water Contamination

**Chemicals or other Materials Involved:**
INSECTICIDE
Methoprene

**Date of Incident** 7/1/1999
**Response Time** same day
**Other Agencies Involved:** Food Safety, DOE, DOH

**Severity** 1
**Children Involved?** No
**Final Action** NAI

**Application Method** Ground
**Application Type** Non Ag
**Target/Complaint Area** Mosquitoes/Water

**Summary / Findings**

Alleged spraying of pesticide on organically certified fish hatchery. Alleges that the headwaters of a creek that feeds the hatchery was sprayed.

The alleged infractor stated that he applied pesticides to a pond and the tail waters of the hatchery. An oily sheen was seen on the fish-rearing ponds after the spraying and also fish mortality increased about one to two hours after the spraying. WSDA lab found no residues in the samples collected. The total solution volume applied was one gallon/acre.

**CASE #** 30C 1999
**County** GRANT

**Designation** Pesticide Involved **License** public operator
**Nature of Case** Direct

**Chemicals or other Materials Involved:**
INSECTICIDE
Methoprene

**Date of Incident** 7/15/1999
**Response Time** same day
**Other Agencies Involved:** Food Safety, DOE, DOH

**Severity** 2
**Children Involved?** No
**Final Action** NAI

**Application Method** Air
**Application Type** Non Ag
**Target/Complaint Area** Mosquitoes/property

**Summary / Findings**

Alleged aerial application directly onto property by alleged infractor.

Complainants stated that they saw the airplane spray the southern portion of their property and the "bureau pond" in the northwest corner of the property. Applicator said that he did not spray or fly over complainant's property on that date. He also said that he did spray the "bureau pond". Part of that pond is on the complainant's property.

**CASE #** 31C 1999
**County** GRANT

**Designation** Violation **License** commercial applicator
**Nature of Case** License

**Chemicals or other Materials Involved:**
INSECTICIDE
Primicarb
INSECTICIDE
Chlorothalonil

**Date of Incident** 7/18/1999
**Response Time** same day
**Other Agencies Involved:** None

**Severity** 1
**Children Involved?** No
**Final Action** NOC

**Application Method** Air
**Application Type** Ag
**Target/Complaint Area** Seed Alfalfa

**Summary / Findings**

Complaint that alleged infractor, who is an unlicensed employee of a company, made an aerial application of an insecticide onto seed alfalfa owned by another party.

One alleged infractor (boss) ordered unlicensed person to apply the pesticides. Records supplied by alleged infractors were incomplete.

**CASE #** 32C 1999
**County** CHELAN

**Designation** Pesticide Involved **License** private applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
INSECTICIDE
Azinphos Methyl

**Date of Incident** 7/19/1999
**Response Time** same day
**Other Agencies Involved:** None

**Severity** 1
**Children Involved?** No
**Final Action** NAI

**Application Method** Ground
**Application Type** Ag
**Target/Complaint Area** Apples/Yard

**Summary / Findings**

Alleged drift from neighboring orchard spray application onto complainant's back yard.

Complainant said that an unknown applicator drifted pesticides from the orchard behind her house onto her back yard on 7-19-99 at around 10:30 am. She did not have pesticide related symptoms. Complainant requested that the investigation not be pursued. WSDA closed the case.



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# WSDA 1999 Case Data

**CASE #** 33C 1999
**County** GRANT

**Designation** Violation **License** public operator
**Nature of Case** Direct

**Chemicals or other Materials Involved:**
INSECTICIDE Methoprene

**Date of Incident** 7/22/1999
**Response Time** same day
**Other Agencies Involved:** DOH, F&W, DOE

**Severity** 2
**Children Involved?** No
**Final Action** NOC

**Application Method** Air
**Application Type** Non Ag
**Target/Complaint Area** Mosquitoes/property

**Summary / Findings**

Alleged aerial application directly onto complainant's property by alleged infractor.

Alleged infractor said that he sprayed a pond on the complainant's property on a later date than claimed by the complainant. He said that he did not spray on the earlier date.

**CASE #** 34C 1999
**County** GRANT

**Designation** Violation **License** commercial applicator
**Nature of Case** Bee Kill

**Chemicals or other Materials Involved:**
INSECTICIDE Methamidophos
INSECTICIDE Chlorothalonil
INSECTICIDE Dimethoate

**Date of Incident** 7/14/1999
**Response Time** same day
**Other Agencies Involved:** None

**Severity** 4
**Children Involved?** No
**Final Action** NOC

**Application Method** Air
**Application Type** Ag
**Target/Complaint Area** Seed Alfalfa, Potatoes/Bees

**Summary / Findings**

Bee kill - an unknown applicator allegedly sprayed or drifted a pesticide onto an area where the complainant's bees were foraging. According to complainant, he had 150 colonies at this site.

The WSDA lab found some of the same pesticides that were applied to nearby fields by the alleged infractors in the bees and vegetation around the hives. All of the five carbaryl applications made by one alleged infractor began after sunrise when bees would be foraging in violation of label restrictions. Alleged infractor's records did not include the EPA product registration number.

**CASE #** 35C 1999
**County** ADAMS

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Deliberate Contamination

**Chemicals or other Materials Involved:**
HERBICIDE Glyphosate
HERBICIDE 2,4-D

**Date of Incident** 7/16/1999
**Response Time** same day
**Other Agencies Involved:** None

**Severity** 2
**Children Involved?** No
**Final Action** NAI

**Application Method** Air
**Application Type** Ag
**Target/Complaint Area** Potatoes

**Summary / Findings**

Complainant alleges that somebody put an herbicide in his spray tank that injured the damaged party's potatoes. Complainant was spraying damaged party's potatoes with monitor and foliar nutrients. He alleges that the herbicide was added while the plane & mixer were unattended at the warden airport during a break in spraying due to thunderstorms.

The WSDA lab found glyphosate and 2,4-D residues in potatoes foliage and tubers where the injury was observed and where the injury was not observed. The lab did not detect phenoxy acid herbicides in the Monitor 4 used by the complainant. It could not be determined if the injury symptoms were caused by pesticides.

**CASE #** 36C 1999
**County** CHELAN

**Designation** Violation **License** private applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
INSECTICIDE Azinphos Methyl

**Date of Incident** 7/30/1999
**Response Time** same day
**Other Agencies Involved:** None

**Severity** 2
**Children Involved?** No
**Final Action** NOC

**Application Method** Ground
**Application Type** Ag
**Target/Complaint Area** Apples/Yard

**Summary / Findings**

Alleged drift from neighboring orchard spray application onto complainant's back yard.

WSDA lab found detectable quantities of azinphos methyl in complainant's backyard and on his back windows and lawn. The alleged infractor indicated in his records that he was spraying in his orchard that borders the complainant's house on the west side.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 37C 1999 | Violation | private applicator | 8/10/1999 | 2 | Ground |
| County: CHELAN | Nature of Case: Drift | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | None | NOI | Pears/Dog |

**Summary / Findings**

Alleged drift onto property and complainant's dogs from application of pesticides onto neighbor's pear orchard.

WSDA lab found azinphos methyl on the complainant's car, dog kennel and vegetation in her garden, but did not find any on her house.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 38C 1999 | Violation | public operator | 8/16/1999 | 2 | Air |
| County: GRANT | Nature of Case: Drift | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Methoprene | | | None | NOC | Mosquitoes/Car |

**Summary / Findings**

Allegations that a plane from the alleged infractor sprayed the complainant's car as he was driving south on the highway.

The WSDA lab found a trace of Methoprene in swabs of the complainant's windshield. The alleged infractor was spraying the area during the time the complainant was driving through the area.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 39C 1999 | Violation | commercial applicator | 3/1/1999 | 1 | Ground |
| County: GRANT | Nature of Case: Misuse | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Diuron | HERBICIDE<br>Linuron | | None | NOC | Asparagus |

**Summary / Findings**

Alleged that 518 acres of asparagus, belonging to the complainant, were injured by herbicides applied by the alleged infractor. The herbicides were applied in a split application in the spring of 1999. The injury symptoms were first observed in mid-July.

All four herbicides were used in a manner inconsistent with label specifications by alleged infractors. Incomplete records were provided to WSDA, which were not on official WSDA forms, and one alleged infractor is not listed with WSDA as a commercial operator for the firm involved.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 40C 1999 | Violation | public operator | 8/5/1999 | 3 | Air |
| County: GRANT | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Methoprene | | | DOH, DOE | NOC | Mosquitoes/People |

**Summary / Findings**

Human exposure. Allegation that a plane from the alleged infractor firm sprayed 3 employees in the field working on a purple loosestrife control project.

Two of the three damaged parties report that they were being sickened by the spray. The alleged infractor said that he saw the vehicle belonging to the three damaged parties, but that he did not see the people.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 41C 1999 | Violation | commercial applicator | 8/20/1999 | 3 | Air |
| County: GRANT | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE Sulfur | INSECTICIDE Methamidophos | INSECTICIDE Chlorothalonil | DOH | NOC | Potatoes/People |

**Summary / Findings**

Aerial applicator spraying potatoes is alleged to have drifted onto property of complainant. "Fumes" are making complainant sick (he was not there during application). His sister and her baby as well as his mother were there during the application. Both the sister and mother complained of head aches and nausea.

The WSDA lab found sulfur, methamidophos, and chlorothalonil residues in samples collected from the complainant's residence. The alleged infractor applied these ingredients to the potato fields. The application records were not on official WSDA record forms. The application records were missing concentration and maps.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 42C 1999 | Pesticide Involved | commercial applicator | 8/20/1999 | 2 | Air |
| County: GRANT | Nature of Case: Bee Kill | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDES Carbofuran | | | None | NAI | Unknown/Bees |

**Summary / Findings**

Bee kill - complainant is claiming his bees are dying due to exposure to a pesticide from an unknown source. He claims moderate kill damage, and said he has about 200 colonies at this location.

No pesticides were detected in the bees or in foliage close to colonies. The alleged infractors made several different pesticide applications near the bees. The application records and residue analyses do not indicate that pesticides were responsible for the bee mortality. One alleged infractor applied carbaryl during a time when bees would be foraging. Records are missing EPA registration number.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 43C 1999 | Pesticide Involved | commercial applicator | 8/13/1999 | 1 | Air |
| County: GRANT | Nature of Case: Bee Kill | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDES Carbofuran | | | None | NAI | Unknown/Bees |

**Summary / Findings**

Bee kill - complainant claims that is bees are dying due to exposure to a pesticide from an unknown source. The complainant said he has about 30 colonies at this location.

No pesticides were detected in the bees or in foliage close to the colonies. Alleged infractors made several different pesticide applications near the bees. The application records and residue analysis do not indicate that pesticides were responsible for the bee mortality. One alleged infractor applied Carbaryl during a time when bees would be foraging. Some records missing EPA registration number.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 44C 1999 | Violation | commercial applicator | 8/26/1999 | 2 | Air |
| County: CHELAN | Nature of Case: Human Exposure | | Response Time: same day | Children Involved?: Yes | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE Malathion | | | DOH, DOE | NOC | Mosquitoes/Person |

**Summary / Findings**

Human exposure. Alleged drift from a helicopter onto 15 yr old complainant while he was outside. Helicopter made 4 - 5 passes over complainant's house & yard while spraying for mosquito abatement. Complainant said he saw the pesticide coming down on him while the helicopter flew directly over his head. He smelled a strong odor, but by the time the pesticide reached the ground he did not feel it.

Permission was not given to alleged infractors to spray complainant's property. Possible overspray onto streams in the area. Items are missing from application records. Licensing endorsements for this type of spray missing from applicator's licenses.

# WSDA 1999 Case Data

**CASE #** 45C 1999
**County** GRANT
**Summary / Findings**

**Designation** Violation **License** commercial applicator
**Nature of Case** Human Exposure
**Date of Incident** 9/1/1999
**Response Time** same day
**Severity** 2
**Children Involved?** No
**Application Method** Air
**Application Type** Ag

**Chemicals or other Materials Involved:**
HERBICIDE Paraquat
HERBICIDE Diquat

**Other Agencies Involved:** DOH
**Final Action** Administrative Action
**Target/Complaint Area** Seed alfalfa/Person

Complainant alleges he was sprayed by an airplane applying dessicant to a seed alfalfa field. He was setting irrigation tubes in his corn field across the road from the application.

Complainant and his corn were drifted on during an application of Paraquat and Diquat by alleged infractor to seed alfalfa. WSDA lab found diquat on complainant's hat and diquat and paraquat on his corn. Alleged infractor applied pesticide at a higher than label rate. Records have missing and incorrect information.

**CASE #** 46C 1999
**County** GRANT
**Summary / Findings**

**Designation** Pesticide Involved **License** commercial applicator
**Nature of Case** Drift
**Date of Incident** 7/9/1999
**Response Time** same day
**Severity** 2
**Children Involved?** No
**Application Method** Ground
**Application Type** ROW

**Chemicals or other Materials Involved:**
HERBICIDES Miscellaneous

**Other Agencies Involved:** None
**Final Action** NAI
**Target/Complaint Area** ROW/Potatoes

Referring party contacted WSDA on behalf of damaged party. Damaged party alleges that herbicides applied to roadside right-of-way by alleged infractor firm drifted onto his potatoes.

Damaged party's potatoes had symptoms of phenoxy herbicide injury. The WSDA lab found only Dichlorprop in samples from the field. Alleged infractor said they have never used Dichlorprop. Can't determine the source.

**CASE #** 47C 1999
**County** CHELAN
**Summary / Findings**

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Deliberate Misuse
**Date of Incident** 12/31/1998
**Response Time** same day
**Severity** 3
**Children Involved?** No
**Application Method** Unknown
**Application Type** Non Ag

**Chemicals or other Materials Involved:**
HERBICIDE Glyphosate

**Other Agencies Involved:** DOE
**Final Action** NAI
**Target/Complaint Area** Trees

Alleged intentional killing of complainant's poplar trees with a pesticide by neighbors. Complaint that the trees are dying abnormally and never reach a year of age without dying or yellowing. Workers had noticed a black substance on the ground & the trunks of many of the trees. He suspects they are killing trees because they told his worker not to plant the trees in that location, so their view wouldn't be obscured.

WSDA laboratory found detectable quantities of glyphosate residues in the soil and on the leaves of some of the poplar trees. Complainant withdrew his complaint on 11/12/99. WSDA stopped the investigation at that time. No further attempts were made to identify an infractor.

**CASE #** 48C 1999
**County** GRANT
**Summary / Findings**

**Designation** Violation **License** private applicator
**Nature of Case** Direct
**Date of Incident** 6/1/1999
**Response Time** same day
**Severity** 1
**Children Involved?** No
**Application Method** Ground
**Application Type** Ag

**Chemicals or other Materials Involved:**
HERBICIDE Miscellaneous

**Other Agencies Involved:** None
**Final Action** NOC
**Target/Complaint Area** Seed Alfalfa

Complainant alleges that 67 acres of his seed alfalfa were injured by herbicide applications made by alleged infractor.

Alleged infractor made off-label recommendations for three products applied to the complainant's seed alfalfa. Problems developed from the recommendations. Records were not on approved forms.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 49C 1999 | Violation | commercial applicator | 11/5/1999 | 3 | Air |
| County: GRANT | Nature of Case: Drift | | Response Time: one day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES | | | DOE, F&W | NOI | Weeds/Trees |
| Miscellaneous | | | | | |

**Summary / Findings**

Complainant alleges that the aerial applicator applied herbicides for purple loosestrife in a careless manner resulting in damage to trees and other non-target vegetation.

Alleged infractor failed to clean his tank between applications resulting in off-label applications of herbicides. The WSDA lab found residues in aquatic sites of herbicides not labeled for aquatic sites; it could not be determined whether herbicides were applied to surface water. The DOE/WSDA Water Quality Permit was violated by Dept. of Fish and Wildlife. Failure to provide records for all applications.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 50C 1999 | Violation | commercial applicator | 11/22/1999 | 2 | Disposal |
| County: DOUGLAS | Nature of Case: Disposal | | Response Time: same day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE | | | DOE | NOI | Disposal |
| Trifluralin | | | | | |

**Summary / Findings**

The alleged infractor was pressure washing a truck mounted pesticide tank in the front of his house & releasing it to the side of the road. Yellow water was going down the side of the road & he was trying to control the run off by damming it up. A call by DOE to the alleged infractor indicated this is how he normally cleans out his tank. Sometimes he drains it into his flower beds.

Alleged infractor stated that he normally drains his tanks into the ditch along the side of the street in front of his house and that on 11-22-99 he allowed wash material to run over the gravel area to the street where it created a puddle. The WSDA laboratory found detectable quantities of trifluralin in the samples.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 51C 1999 | Violation | commercial applicator | 8/31/1999 | 3 | Ground |
| County: OKANOGAN | Nature of Case: Misuse | | Response Time: same day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE | | | US Forest Service | NOC | Weeds |
| Glyphosate | | | | | |

**Summary / Findings**

Complainant called about an alleged label violation by the alleged infractor. He said the applicator was not required use a surfactant as the label required. The application killed 80% of the native plants, but eliminated only 50% of the Knapweed. He said the application left the riparian stream banks unvegetated and susceptible to re-infestation along with increasing erosion and stream sedimentation.

The label requires the use of a nonionic surfactant in hand held equipment. The alleged infractor used a hand-held pump sprayer to spray glyphosate on the majority of the riparian area application sites. He did not add a surfactant because it was not addressed in the project's environmental assessment.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 1G 1999 | Incident | n/a | 5/1/1999 | 0 | NA |
| County: GRANT | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE | | | None | NAI | Alfalfa hay |
| None | | | | | |

**Summary / Findings**

Somewhere in first week of May, something affected approximately 1/4 of the circle of 4 year old alfalfa hay. The complainant pulls water out of a drain ditch to irrigate. Also frost damage to area alfalfa fields may be the agent. Unknown source or product.

Problem was diagnosed as frost damage.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 1S 1999 | Incident | n/a | 3/2/1999 | 0 | NA |
| County: SPOKANE | Nature of Case: Animal poisoning | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | None | NAI | Attempt to poison animals |

**Summary / Findings**

Approximately six pounds of clams, sausage, & rotten hamburger were found on property. Complainant is concerned that it may be poisoned. He has a dog & cats.

WSDA Lab tested sample of meat for strychnine and organophosphate pesticides but neither were detected.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 2S 1999 | Incident | n/a | 3/18/1999 | 0 | NA |
| County: SPOKANE | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | None | NAI | Shrubs |

**Summary / Findings**

Complainant feels a neighbor damaged a shrub on her property with pesticides.

No pesticide damage symptoms were noted. Damage apparently caused by freezing-winter injury and fungal leaf-spot.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 3S 1999 | Pesticide Involved | unknown | 3/19/1999 | 5 | Unknown |
| County: SPOKANE | Nature of Case: Animal poisoning | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| RODENTICIDE<br>Strychnine | | | Animal Control | NAI | Dogs |

**Summary / Findings**

At least 5 dogs have died in airway heights since the weekend. The dogs all exhibited gagging and convulsions prior to death. Complainant obtained sample of stomach contents from one dog and put it in freezer.

WSDA lab detected strychnine in vomit sample from dog. Unable to locate source of poisoning.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 4S 1999 | Violation | commercial applicator | 3/21/1999 | 1 | Ground |
| County: WHITMAN | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Lindane | | | DOH | NOC | Ornamentals/Property |

**Summary / Findings**

Alleged drift of pesticide mixture onto complainants property. No notification provided to complainants as per WSDA Pesticide Sensitive Register. No posting. Complainant's daughter possibly affected.

Pesticide products did not drift off of target site. Alleged infractor did not provide prior notification of an application to a person on the pesticide sensitive registry. Alleged infractors did not place appropriate posting at the application site. An alleged infractor was not property attired with the necessary personal protective equipment.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 5S 1999 | Pesticide Involved | public operator | 3/2/1998 | 1 | Ground |
| County: ADAMS | Nature of Case: Direct | | Response Time: One Day | Children Involved?: No | Application Type: ROW |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Bromacil | HERBICIDE<br>Diuron | | None | NAI | ROW/Trees |

**Summary / Findings**

Residual applied on 3/2/98 ran off and damaged some crop. Alleged infractor resolved the issue. Now, in 1999, a row of evergreens along side damaged party's home are dying.

Observed several affected trees in damaged party's windbreak. Foliage samples found none detected for pesticides used. Trace of one pesticide found in right-of-way, No pesticides found outside right-of-way. Affected trees were located within 30' of right of way.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 6S 1999 | Pesticide Involved | commercial applicator | 4/14/1999 | 1 | Air |
| County: WHITMAN | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | DOH | NAI | Wheat/Person, horse |

**Summary / Findings**

Human exposure and drift. Alleged over- spray while riding horses.

Evidence obtained indicated no pesticide drift off of the target site and that the complainants were not affected by pesticide drift.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 7S 1999 | Pesticide Involved | unknown | 4/4/1999 | 5 | Unknown |
| County: SPOKANE | Nature of Case: Animal poisoning | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| RODENTICIDE<br>Strychnine | | | None | NAI | Dogs |

**Summary / Findings**

Pita bread filled with green grain was thrown into a fenced backyard. Two nine-month old Rottweiler pups ate it and died. Strychnine treated grain is suspected.

Complainant asked that WSDA run the bait for strychnine. WSDA lab detected strychnine in the bait. WSDA unable to determine source. Local authorities investigating.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 8S 1999 | Violation | unlicensed | 4/19/1999 | 3 | Ground |
| County: LINCOLN | Nature of Case: Drift | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Dichlorobenil | | | None | Advisory Letter | Gravel/Lawn, shrubs |

**Summary / Findings**

Neighbor's son may have made an herbicide application that has run off-site across the complainant's property affecting lawn and shrubs.

Casaron product used by alleged infractor was also found on adjacent property owned by the complainant. Alleged infractor replaced the complainant's affected soil and ornamental plants during 1999 after the detection was made.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 9S 1999 | Violation | unknown | 11/30/1998 | 1 | Unknown |
| County: LINCOLN | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Glyphosate | | | None | Verbal Warning | Pine trees |

**Summary / Findings**

Complainant concerned about damage exhibited by several Austrian pines located on his vacation property. Is concerned that neighbor might be responsible for it.

No detectable phenoxy or glyphosate reside found in soil or foliage samples. Trace of glyphosate in metabolite found in soil samples collected from right of way. Most affected trees found in right of way. A state RUP sale was made to an unlicensed individual.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 10S 1999 | Incident | n/a | 4/27/1999 | 0 | NA |
| County: SPOKANE | Nature of Case: Animal poisoning | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| UNKNOWN<br>Unknown | | | Animal Control | NAI | Cats and Dog |

**Summary / Findings**

They have lost 3 animals in the last 6 weeks; 2 cats and 1 dog. Complainant believes they were poisoned. Her husband got a sample of green pellets in meat substance from the neighbors yard and they would like it analyzed.

WSDA lab was unable to identify the bait after several analyses. WSDA is closing case and turning evidence over to County Animal Control for possible prosecution.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 11S 1999 | Violation | commercial applicator | 5/14/1999 | 1 | Unknown |
| County: SPOKANE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | WSU | Advisory Letter | Airstrip/Iris |

**Summary / Findings**

The landlord is concerned that the alleged infractor damaged a commercial planting of iris when they sprayed at the airstrip near the iris field. The tenant farmer and landlord have also used herbicides.

Iris symptoms were not indicative of herbicide injury. Weeds growing near iris were healthy and all applicators left a buffer around planting. WSDA lab did not detect pesticide residues in iris samples. Disease symptoms were noted. Alleged infractors had minor record keeping problems.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 12S 1999 | Violation | commercial applicator | 4/1/1999 | 0 | Ground |
| County: SPOKANE | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | None | Advisory Letter | Ornamentals/Ornamentals |

**Summary / Findings**

Approximately 400 shrubs at an apartment complex are dying. Damage has appeared since late April.

No pesticide connection to dying shrubs. Two applicators submitted incomplete records.

# WSDA 1999 Case Data

**CASE #** 13S 1999
**County** SPOKANE

**Designation** Incident **License** n/a
**Nature of Case** Direct

**Chemicals or other Materials Involved:**
NONE
None

**Date of Incident** 6/2/1999
**Response Time** Same Day

**Severity** 0
**Children Involved?** No

**Application Method** NA
**Application Type** Ag

**Other Agencies Involved:** WSU

**Final Action** NAI

**Target/Complaint Area** Tomatoes

**Summary / Findings**

Approximately 250 tomato plants curling and dying after being transplanted into purchased soil. County Extension agent feels damage may be from herbicide residue.

Site observations confirmed symptoms consistent with damage from a hormone type herbicide. Observations from surrounding area could not locate a source for possible drift. Lab did not detect pesticides in samples taken.

**CASE #** 14S 1999
**County** SPOKANE

**Designation** Violation **License** commercial applicator
**Nature of Case** Direct

**Chemicals or other Materials Involved:**
HERBICIDE Clopyralid
HERBICIDE Triclopyr

**Date of Incident** 5/11/1999
**Response Time** Same Day

**Severity** 3
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** Advisory Letter

**Target/Complaint Area** Ornamentals/Trees

**Summary / Findings**

Four trees allegedly damaged by ornamental herbicide application. Also possible lawn damage.

Symptoms on all four trees were consistent with damage caused by a hormone type herbicide such as confront. Evidence indicated root uptake rather than drift. The confront label had no warnings about root uptake unless roots were directly sprayed and no warnings of plant sensitivity. Alleged infractor applied confront slightly over label rate. Records were missing end time.

**CASE #** 15S 1999
**County** SPOKANE

**Designation** Incident **License** commercial applicator
**Nature of Case** License

**Chemicals or other Materials Involved:**
NA
NA

**Date of Incident** 5/1/1999
**Response Time** Same Day

**Severity** 1
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** Ornamentals

**Summary / Findings**

Alleged infractor allegedly operating without a valid commercial applicator for a period of time in May, 1999.

Alleged infractor did not have an officially designated commercial applicator license from May 1, 1999 to May 28, 1999.

**CASE #** 16S 1999
**County** SPOKANE

**Designation** Violation **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
INSECTICIDE Chloropyrifos

**Date of Incident** 6/9/1999
**Response Time** Same Day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** NOC

**Target/Complaint Area** Ornamentals/yard

**Summary / Findings**

Alleged infractor drifted onto complainant's property while making an application to an adjacent yard.

Treatment conducted in accordance with label requirements. Lab found chlorpyrifos in 3 of 3 samples on complainant's property. Pesticide application records were missing complete start and finish times.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

**CASE #** 17S 1999

**County** SPOKANE

**Designation** Incident **License** n/a
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
NONE
None

**Date of Incident** 12/31/1998
**Response Time** Same Day

**Severity** 0
**Children Involved?** No

**Application Method** NA
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** Shrubs

**Summary / Findings**

A hedge of 30 year old lilacs started dying in July, 1998 and have progressively gotten worse. There is a 1-1 1/2 foot dead area in neighbor's yard next to the lilacs. The complainant feels that the neighbor used an herbicide that is killing the plants.

While observations found a variety of symptomology, it was difficult to determine what specifically has impacted the lilac hedge due to it's age, maintenance, and number of lawn care companies conducting treatments with different products over the years. The laboratory did not detect prometon, imazapyr, phenoxy, or glyphosate in the submitted samples.

**CASE #** 18S 1999

**County** LINCOLN

**Designation** Violation **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
HERBICIDE
2,4-D

**Date of Incident** 6/13/1999
**Response Time** Same Day

**Severity** 3
**Children Involved?** No

**Application Method** Air
**Application Type** Ag

**Other Agencies Involved:** None

**Final Action** NOC

**Target/Complaint Area** Wheat/Organic alfalfa

**Summary / Findings**

Alleged pesticide application on wheat drifted onto organic alfalfa.

Pesticide residue was detected in both the target site and the adjacent portion of the affected alfalfa field.

**CASE #** 19S 1999

**County** ASOTIN

**Designation** Violation **License** n/a
**Nature of Case** Stolen exam

**Chemicals or other Materials Involved:**
NA
NA

**Date of Incident** 4/20/1999
**Response Time** 15 days

**Severity** 1
**Children Involved?** No

**Application Method** NA
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** Advisory Letter

**Target/Complaint Area** Exam material

**Summary / Findings**

Alleged improper possession of exam material.

Alleged infractor admitted having the study material, given to him by co-workers prior to taking the WSDA exams in Yakima. Alleged infractor said he didn't know that the study material was gleaned from old WSDA exams and that it had been brought to his office from Idaho by an ex-employee. An inspection of the company's study material collection did not reveal any additional suspect material.

**CASE #** 20S 1999

**County** ADAMS

**Designation** Pesticide Involved **License** public operator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
HERBICIDE
Sulfonylurea

**Date of Incident** 4/12/1999
**Response Time** Same Day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Ag

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** ROW/Canola

**Summary / Findings**

Alleged right-of-way application drifted onto Canola.

Affected winter canola damage symptomology indicates a possible exposure to a sulfonylurea herbicide. More than one application of the herbicide in the immediate vicinity of the affected winter canola in 1999 makes it impossible to determine fault. Lab results were inconclusive, (no detects).



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 21S 1999 | Violation | commercial applicator | 11/30/1998 | 1 | Ground |
| County: ASOTIN | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Triclopyr | | | None | NOC | Tree/Tree |

**Summary / Findings**

One approximately 80 ft. maple tree showing symptoms allegedly caused by tree removal and stump treatment.

No detectable triclopyr or phenoxy residue was detected in any soil or foliage samples. A trace of glyphosate and its metabolite were found in the soil sample collected from beneath the affected tree in an area where complainant treated his lawn. Neither the operator nor the worker was validly licensed in 1997.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 22S 1999 | Violation | private applicator | 7/1/1999 | 2 | Unknown |
| County: LINCOLN | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Unknown | | | None | NOC | Unknown/Grapes |

**Summary / Findings**

Alleged phenoxy symptoms on 24 acres of wine grapes.

No detectable residue, other than the oryzalin applied by complainant's son was found in foliage samples collected from within the vineyards. Symptoms could not be linked to any particular pesticide. Records for complainant's son (applicator) indicate that he applied Surflan A-S at an excessive rate on four separate dates.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 23S 1999 | Pesticide Involved | unknown | 3/31/1999 | 2 | Unknown |
| County: SPOKANE | Nature of Case: Drift | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES<br>Miscellaneous | | | EPA, DOH, DOE | NAI | Well water |

**Summary / Findings**

Alleged contaminated well water causing injury to plants.

Pesticide residues were found in the complainant's and two other families" well water. No definite source for these pesticide residues could be determined. Investigation referred DOH and EPA.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 24S 1999 | Violation | commercial applicator | 7/17/1999 | 2 | Air |
| County: SPOKANE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Dimethoate | | | None | NOC | Lentils/Pasture |

**Summary / Findings**

Alleged aerial application overspray onto nearby property, cattle, horses and pasture.

Label of Dimethoate 4 EC warns to not conduct aerial applications when weather conditions favor drift of spray from treated areas. WSDA laboratory detected Dimethoate in three of three submitted foliage samples (2 on complainant's property) and a trace of dimethoate was also detected in the sample collected from an abandoned car on complainant's property.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 25S 1999 | Pesticide Involved | unknown | 7/18/1999 | 2 | Ground |
| County: SPOKANE | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Glyphosate | | | Sheriff Dept. | NAI | Lawn |

**Summary / Findings**

Complainant contacted WSDA as someone vandalized her yard, possibly with pesticides. She was out of town for a few days and upon her return, discovered a 6" wide trail through her lawn that is dying. Two planters also have yellow plants that may have been damaged. Sheriff's office is investigating.

WSDA lab detected glyphoste in samples taken from the damaged area of the lawn and from damaged plants in planters. Lab sample results were sent to the complainant and to the sheriff's office as documentation for their case investigation

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 26S 1999 | Violation | public operator | 7/30/1999 | 2 | NA |
| County: PEND OREILLE | Nature of Case: Storage | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Picloram | | | None | Advisory Letter | Soil/Storage |

**Summary / Findings**

Improperly stored Tordon 22K may have leaked into soil. There are two 2.5 gallon containers which have been there for several years.

Observed two 2.5 gallon containers on their sides. One was cracked and empty, perhaps leaking product onto property. The other container was sound with 1/4 gallon of dried residue inside. Complainant evicted from property, owner will tend to affected site. Current owner of property does not know where product came from.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 27S 1999 | Pesticide Involved | commercial applicator | 7/13/1999 | 1 | Ground |
| County: PEND OREILLE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | DOH, DOE | NAI | Lake/Yard |

**Summary / Findings**

Neighboring lake treated for Millfoil. Complainant noticed symptoms on garden plants 9 days later. Their well is used for drinking and irrigation.

No detectable 2,4-D residue was found in tap water samples from the complainant's residence, garden foliage or garden soil. 2,4-D residue was detected in water collected from the lake. Garden foliage and soil show glyphosate residue. Complainants had used glyphosate in 1999.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 28S 1999 | Violation | commercial applicator | 8/3/1999 | 1 | Ground |
| County: SPOKANE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | Verbal | ROW/Unknown |

**Summary / Findings**

Operating without a valid commercial applicator license.

Alleged infractors operating without a valid commercial applicator license.

# WSDA 1999 Case Data

**CASE #** 29S 1999
**County** ADAMS

**Designation** Incident **License** none
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
NONE
None

**Date of Incident** 8/12/1999
**Response Time** Same Day

**Severity** 1
**Children Involved?** No

**Application Method** NA
**Application Type** Ag

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** Potatoes

**Summary / Findings**

Alleged herbicide (phenoxy) symptoms on two potato circles, 120 acres each (Russett Burbank).

No pesticide residues were found to affect the potato samples. Foliar symptoms were minor and inconclusive regarding a possible causal agent.

**CASE #** 30S 1999
**County** SPOKANE

**Designation** Pesticide Involved **License** commercial applicator
**Nature of Case** Direct

**Chemicals or other Materials Involved:**
HERBICIDE
Picloram

**Date of Incident** 6/21/1999
**Response Time** Same Day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** None

**Final Action** NAI

**Target/Complaint Area** Tree/Ornamentals

**Summary / Findings**

Alleged damage occurred to ornamental plants and trees after an insecticide application.

Complainant had applied picloram several years previous to control knapweed uphill from the site of the damaged plants. Independent lab samples showed picloram in soil from the site. Trees on site died from winter injury, annuals and perennials were exhibiting picloram symptoms. Damage most likely from picloram movement over time.

**CASE #** 31S 1999
**County** SPOKANE

**Designation** Violation **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
INSECTICIDE
Chlorpyrifos

**Date of Incident** 9/1/1999
**Response Time** Same Day

**Severity** 2
**Children Involved?** No

**Application Method** Ground
**Application Type** Non Ag

**Other Agencies Involved:** DOH

**Final Action** NOC

**Target/Complaint Area** Tree/Person, property

**Summary / Findings**

Alleged drift/overspray by alleged infractor while spraying a tall tree next to complainant's property. Complaint of drift onto complainants yard, rabbit hutch, organic garden and self. She felt a mist with no reaction.

Pesticide product did drift off of the application target site. Chlorpyrifos residues were found on all samples collected.

**CASE #** 32S 1999
**County** GRANT

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Animal Poisoning

**Chemicals or other Materials Involved:**
INSECTICIDE
Phorate

**Date of Incident** 10/10/1999
**Response Time** One Day

**Severity** 5
**Children Involved?** No

**Application Method** Unknown
**Application Type** Ag

**Other Agencies Involved:** EPA, DOH, DOE, F&W,

**Final Action** NAI

**Target/Complaint Area** Dog

**Summary / Findings**

The damaged party was hunting at a pond. The hunting party shot at some ducks that landed in the pond. A dog went in the water to retrieve the ducks & came out covered in "black goo." After licking itself clean, the dog foamed at the mouth and died 20 minutes later. The next day, all four hunters were hospitalized with gastrointestinal symptoms. Necropsy conducted on dog revealed phorate in stomach contents at 160 ppm.

Unable to find a source for the phorate that killed the dog.



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# WSDA 1999 Case Data

| CASE # | County | Designation | License | Nature of Case | Chemicals or other Materials Involved: | Date of Incident | Response Time | Other Agencies Involved: | Severity | Children Involved? | Final Action | Application Method | Application Type | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1T 1999 | GRAYS HARBOR | Violation | commercial applicator | WDO | NA<br>NA | 9/29/1998 | Same Day | None | 2 | No | NOC | NA | WDO | False WDO |

**Summary / Findings**

False WDO report.

The alleged infractor failed to conduct a thorough and accurate structural pest inspection. He failed to report signs of and damage by, deathwatch beetles and buprestid beetles in walls, subflooring, and supporting timbers. His pesticide application records were incomplete and he was uninsured when the application was made.

| CASE # | County | Designation | License | Nature of Case | Chemicals or other Materials Involved: | Date of Incident | Response Time | Other Agencies Involved: | Severity | Children Involved? | Final Action | Application Method | Application Type | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2T 1999 | KING | Violation | commercial applicator | Notification | INSECTICIDE<br>Chlorpyrifos | 2/20/1999 | Same Day | None | 1 | No | NOC | Ground | Non Ag | Lawn/Notification |

**Summary / Findings**

Pesticide sensitive individual was not notified when alleged infractor sprayed the neighbor's adjacent property.

Alleged infractor attempted telephone notification. The phone number he used was old and disconnected. The new Pesticide Sensitive Register had the updated information, which he had received, but had not updated his records for this contact. His records showed the wrong product name was being used in reference to the EPA registration number for Dursban.

| CASE # | County | Designation | License | Nature of Case | Chemicals or other Materials Involved: | Date of Incident | Response Time | Other Agencies Involved: | Severity | Children Involved? | Final Action | Application Method | Application Type | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3T 1999 | KING | Pesticide Involved | unlicensed | Misuse | HERBICIDE<br>Glyphosate | 3/12/1999 | Two days | None | 1 | No | NAI | Ground | Non Ag | Lawn/Lawn |

**Summary / Findings**

Complainant alleges that neighbor made an un-requested herbicide application to the back yard of her property.

Residue analysis revealed 0.44 ppm glyphosate on the grass closest to the house and 1.5 ppm glyphosate on the grass farthest from the house. No phenoxy residue was found. Alleged infractors stated that they had not made any spray applications in 1999. Unable to determine another source.

| CASE # | County | Designation | License | Nature of Case | Chemicals or other Materials Involved: | Date of Incident | Response Time | Other Agencies Involved: | Severity | Children Involved? | Final Action | Application Method | Application Type | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4T 1999 | KING | Violation | commercial applicator | Drift | INSECTICIDE<br>Lindane | 4/2/1999 | Same Day | None | 1 | No | Advisory Letter | Ground | Non Ag | Ornamentals/Vegetables |

**Summary / Findings**

Complainant alleged that pesticide application from neighbors property drifted onto her property.

WSDA lab did not detect any Lindane in vegetation sample taken from the complainant's property. Alleged infractor had misinterpreted the requirements for PPE to be for only agricultural applications and so, was not wearing the proper PPE.



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# WSDA 1999 Case Data

| CASE # | County | Designation | License | Nature of Case | Date of Incident | Response Time | Severity | Children Involved? | Application Method | Application Type | Chemicals or other Materials Involved: | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5T 1999 | THURSTON | Pesticide Involved | public operator | Human Exposure | 4/12/1999 | One Day | 1 | No | Ground | Ag | HERBICIDE Oxyfluorfen | DOH | NAI | Conifers/Person |

**Summary / Findings**

Alleged drift of a pesticide from neighboring property.

Given the distance between the site of application and where the claimant was located, the prevailing wind direction and the toxicological review of the chemical, it is highly unlikely that the symptoms could be attributed to a pesticide drift.

| CASE # | County | Designation | License | Nature of Case | Date of Incident | Response Time | Severity | Children Involved? | Application Method | Application Type | Chemicals or other Materials Involved: | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6T 1999 | PIERCE | Violation | commercial consultant | WDO | 9/12/1997 | Same Day | 2 | No | NA | WDO | NONE None | None | NOC | False WDO-rot present |

**Summary / Findings**

Alleged false WDO report.

The alleged infractor failed to conduct a thorough and accurate structural pest inspection. He failed to report signs of and damage by, rot fungus, deathwatch beetles and dampwood termites in a rim joist and adjacent floor joists. He also failed to report cellulose debris and earth to wood contact in a crawl space. He signed a WDO report stating that neither WDO's, their signs, nor conducive conditions were present.

| CASE # | County | Designation | License | Nature of Case | Date of Incident | Response Time | Severity | Children Involved? | Application Method | Application Type | Chemicals or other Materials Involved: | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7T 1999 | SNOHOMISH | Violation | unlicensed | Misuse | 5/18/1999 | Same Day | 3 | No | Ground | Non Ag | HERBICIDE Glyphosate | None | NOC | Scotch Broom/Plantings |

**Summary / Findings**

Complainant alleges that the alleged infractor made an unauthorized application of herbicide within a freeway right-of-way.

The alleged infractors applied in an unauthorized manner.

| CASE # | County | Designation | License | Nature of Case | Date of Incident | Response Time | Severity | Children Involved? | Application Method | Application Type | Chemicals or other Materials Involved: | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8T 1999 | KING | Violation | commercial applicator | Drift | 5/19/1999 | Same Day | 2 | No | Ground | Non Ag | INSECTICIDE Diazinon, Triclopyr | None | NOC | Fruit trees/Yard |

**Summary / Findings**

Homeowner claims that the alleged infractor was applying pesticides to the neighbor's fruit trees and the spray drifted into her yard.

Laboratory results from samples taken from the complainant's garden showed 0.61 ppm Diazinon. She had not used pesticides in her garden.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 9T 1999 | Pesticide Involved | unlicensed | 5/16/1999 | 0 | Ground |
| County: PIERCE | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NAI | Maple tree |

**Summary / Findings**

Complainant alleges that neighbor purposefully sprayed a maple tree on her property without her permission or consent.

Damage to ornamentals was pesticide related. Unable to determine source or pesticide.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 10T 1999 | Pesticide Involved | commercial applicator | 5/25/1999 | 1 | Ground |
| County: KING | Nature of Case: Notification | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | Triclopyr | | None | NAI | Notification |

**Summary / Findings**

Complainant is on the pesticide sensitive list and alleges the alleged infractor failed to notify her before spraying her neighbors yard.

The alleged infractors records show and they claim that they notified the complainant about the spray application. The complainant claims that she was not notified and is on the pesticide sensitive register. Unable to arbitrate.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 11T 1999 | Violation | unlicensed | 5/23/1999 | 1 | Ground |
| County: CLARK | Nature of Case: Drift | | Response Time: six days | Children Involved?: Yes | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | DOH | Verbal Warning | Pasture/Yard |

**Summary / Findings**

Complainant alleges that neighbor was spraying her adjoining pasture and some of the spray drifted over onto her backyard damaging plants and possibly setting off an asthmatic reaction with her daughter.

The investigator found phenoxy-type injury to vegetation in the field sprayed by the alleged infractor and found the same contorted growth on some of the blackberries & herbaceous weeds growing on the complainant's property. Lab results were positive on samples. The investigator requested the infractor be more careful with future applications. Infractor agreed.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 12T 1999 | Violation | commercial operator | 9/8/1998 | 2 | NA |
| County: KITSAP | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NOC | WDO |

**Summary / Findings**

False WDO report.

The alleged infractor failed to conduct a thorough and accurate inspection. He failed to report signs of and damage by, rot fungus, carpenter ants, and dampwood termites in an attached deck at this residence he was not properly licensed by the WSDA when he conducted his wdo inspection.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 13T 1999 | Pesticide Involved | unlicensed | 5/1/1999 | 3 | Ground |
| County: KING | Nature of Case: Misuse | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Garlon | | | Police | NAI | Trees |

**Summary / Findings**

The damaged party alleges that the alleged infractor intentionally tried to kill several trees that were on city property with a pesticide that was injected into holes drilled into the base of the trees.

Holes drilled into various trees on city property. WSDA collected samples and provided results to police department.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 14T 1999 | Pesticide Involved | commercial applicator | 3/31/1999 | 1 | Ground |
| County: PIERCE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Miscellaneous | | | None | NAI | Roadside/Pasture |

**Summary / Findings**

County roadside spray washed into pasture.

Soil samples are negative. There was a general appearance that material that affected pasture grass came from road side, except that some affected areas were above the road side.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 15T 1999 | Violation | commercial consulatant | 5/11/1999 | 2 | NA |
| County: PIERCE | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NOI | WDO |

**Summary / Findings**

False WDO report.

Alleged infractor failed to conduct a thorough and accurate inspection at a home. He failed to report signs of and damage by subterranean termites, rot fungus, and dampwood termites around the periphery of the structure. He failed to note signs of excessive moisture and cellulose debris in the crawl space. He also did not provide his inspection records to WSDA in a timely manner.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 16T 1999 | Violation | commercial applicator | 8/13/1998 | 2 | Ground |
| County: GRAYS HARBOR | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NOC | WDO |

**Summary / Findings**

False wdo report.

Investigation found alleged infractor not licensed at time of inspection and that his records were incomplete.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 17T 1999 | Violation | unlicensed | 7/14/1999 | 1 | Ground |
| County: KING | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>NA | | | None | Advisory Letter | Ornamentals |

**Summary / Findings**

Report of someone spraying in high winds at shopping center.

Alleged infractor had his employee apply a mixture of simple green and water to control aphids on ornamentals (product not labeled as pesticide). Alleged infractor and employee are not licensed to apply pesticides.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 18T 1999 | Violation | unlicensed | 6/30/1999 | 1 | Ground |
| County: CLARK | Nature of Case: Misuse | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | Advisory Letter | Ornamentals |

**Summary / Findings**

In early June, her neighbor (alleged infractor) sprayed the fence line bordering the property with an herbicide.

A few berry bushes on the complainants side of the wire field fence were dead but most of the bushes were very healthy. No other plants near the fence line showed any indication of drift. The alleged infractors were not keeping spray application records.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 19T 1999 | Violation | commercial consultant | 4/2/1999 | 2 | NA |
| County: KING | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NOC | WDO |

**Summary / Findings**

False WDO report.

The alleged infractor failed to conduct a thorough and accurate inspection of the complainant's home. He failed to report the presence of rot fungus and signs of carpenter ants and dampwood termites. He did not report earth to wood contact or areas of damage in a diagram. He also was not licensed at the time he conducted the inspection.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 20T 1999 | Violation | unlicensed | 8/5/1999 | 1 | Ground |
| County: KING | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| FUNGICIDE<br>Copper Napthenate | | | EPA, DOH | Advisory Letter | Roof |

**Summary / Findings**

Three of complainant's neighbors had their roofs treated with Shakelast. Complainant says the product still has an odor, and he wants the EPA to ban this product.

Alleged infractor is not licensed and applied a dilute mixture of Shakelast on 3 roofs adjacent to the property of the complainant. The copper naphthenate is fuming off of the roofs especially on hot days. No symptoms were reported and neither the complainant nor his family have seen a doctor. The complainant requests that the product be banned. A memo was sent to EPA reporting his request.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 21T 1999 | Pesticide Involved | commercial applicator | 7/8/1999 | 1 | Ground |
| County: PIERCE | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Clopyralid | | | None | | Roadside |

**Summary / Findings**

Alleged pesticide application made by county contractor drifted onto property.

Two teams of employees made applications near the complainant's property. There were no physical indications of drift on that property. Samples analyzed by WSDA did not detect clopyralid. All application records submitted by alleged infractor had some incorrect data. One alleged infractor did not have a license, and one did not have the correct category on license for right-of-way applications.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 22T 1999 | Pesticide Involved | private applicator | 7/28/1999 | 1 | Ground |
| County: SNOHOMISH | Nature of Case: Human Exposure | | Response Time: 6 days | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| FUMIGANT<br>Dithocarbamates | | | DOH | NAI | Greenhouse/Person |

**Summary / Findings**

Human exposure. Alleged human exposure by a greenhouse worker.

Medical records reviewed by DOH do not indicate exposure.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 23T 1999 | Pesticide Involved | commercial applicator | 8/23/1999 | 1 | Ground |
| County: KING | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Pyrethrins | | | None | NAI | Ornamentals/Person |

**Summary / Findings**

Human exposure. Damaged party was working in a yard, alleges that the spray application from next door landed in the area that she was working in.

Conflicting testimony about location of participants. Sample results of Rhododendron leaves in reported area were negative. None detected pyrethrins. Sample results of scarf worn at the time were also "none detected."

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 24T 1999 | Pesticide Involved | private applicator | 9/17/1999 | 1 | Air |
| County: JEFFERSON | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Miscellaneous | | | None | NAI | forestry |

**Summary / Findings**

Alleged misapplication of pesticide, trespass, failure to post warning signs and indirect adverse impacts to vegetation.

Unable to substantiate allegations made by complainant.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 25T 1999 | Pesticide Involved | public operator | 9/16/1999 | 1 | Ground |
| County: CLALLAM | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: ROW |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | Dicamba | | DOH | NAI | ROW/Person |

**Summary / Findings**

Alleged misapplication of pesticide during a roadside right-of-way application including application into water and human health exposure.

According to interviews, records, field observations and the assessment by the Dept. of Health, there was not sufficient evidence to substantiate the allegation that a direct exposure of herbicide occurred and there was no evidence to substantiate the allegation that there was a direct or indirect application into ocean waters.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 26T 1999 | Violation | commercial applicator | 7/12/1999 | 2 | Ground |
| County: PIERCE | Nature of Case: Misuse | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Cyfluthrin | | | None | NOC | House/Interior |

**Summary / Findings**

Misapplication of a pesticide.

The alleged infractor misapplied cyfluthrin through exterior walls into the living space of the complainant's home. Instead of remaining in the wall void, it passed through into two bedrooms, closets, bathroom, kitchen and living room.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 27T 1999 | Pesticide Involved | commercial applicator | 10/12/1999 | 1 | Ground |
| County: SNOHOMISH | Nature of Case: Misuse | | Response Time: One Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Glyphosate | | | None | NAI | Ornamentals |

**Summary / Findings**

Complainant alleges employees of alleged infractor applied herbicides in a manner that caused injury to ornamental trees.

According to interviews and records, there is cause to believe that the alleged infractors failed to post herbicide spray warning signs on the complex and failed to maintain proper spray application records.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 28T 1999 | Violation | commercial applicator | 9/24/1999 | 4 | Ground |
| County: KING | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Diazinon | | | None | NOI | Lawn/Garden |

**Summary / Findings**

Alleged that professional pesticide application at neighbor's property drifted onto his garden.

Sample results positive.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 29T 1999 | Violation | commercial applicator | 9/12/1997 | 2 | NA |
| County: OKANOGAN | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA | | | None | NOC | WDO |
| NA | | | | | |

**Summary / Findings**

False WDO report.

Alleged infractors failed to conduct a thorough and accurate inspection. They failed to report the presence of rot fungus, earth to wood contact, inaccessible areas within the residence and failed to indicate these conditions in a diagram. These failures, most likely, precipitated an infestation of subterranean termites, violating RCW 15.58.150(2)(e).

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 30T 1999 | Violation | commercial applicator | 8/28/1995 | 2 | NA |
| County: THURSTON | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA | | | None | NOC | WDO |
| NA | | | | | |

**Summary / Findings**

False WDO report.

The alleged infractor failed to conduct a thorough and accurate inspection. He did not report presence of anobiid beetles, rot fungus, and damage by these WDO's. He also failed to report inadequate clearance, earth to wood contact and cellulose debris in the crawl space. He signed a final WDO report signifying that no WDO's, their signs, or conducive conditions were present.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 31T 1999 | Violation | commercial consultant | 9/25/1999 | 2 | NA |
| County: PIERCE | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA | | | None | NOC | WDO |
| NA | | | | | |

**Summary / Findings**

False WDO report.

The alleged infractor failed to conduct a thorough and accurate inspection. He failed to completely inspect the substructure and report the presence of and damage by rot fungus. He failed to report inadequate clearances and cellulose debris in the crawl space and clearly show these conditions in a site diagram.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 32T 1999 | Violation | commercial applicator | 9/8/1999 | 2 | NA |
| County: SKAGIT | Nature of Case: Record request | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA | | | None | NOC | Records request |
| NA | | | | | |

**Summary / Findings**

Non-compliance with pesticide application record request.

The alleged infractor failed to respond to several requests by WSDA investigators for his application records.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 1V 1999 | Violation | commercial consultant | 5/28/1998 | 2 | NA |
| County: KING | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NOC | WDO |

**Summary / Findings**

Structural inspector allegedly missed rotted deck. WDO.

A final home inspection and WDO report by the alleged infractor failed to report a thoroughly rotted front deck. Additionally, the diagram furnished was illegible and did not denote the presence or absence (inaccessible area) of WDO's.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 2V 1999 | Pesticide Involved | commercial applicator | 12/8/1998 | 1 | Ground |
| County: KING | Nature of Case: Drift | | Response Time: two days | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Diazinon | | | None | NAI | Ornamentals |

**Summary / Findings**

Complainant is concerned about the apparent lack of concern over drift and absent PPE. Public relations problem with applicators over use of Diazinon.

Interview with witness indicates that the incident did occur as the complainant described. Further investigation disclosed gross discrepancies between witness, alleged infractor and operators responsible.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 3V 1999 | Violation | commercial applicator | 11/17/1998 | 1 | Ground |
| County: KITSAP | Nature of Case: Drift | | Response Time: 13 days | Children Involved?: No | Application Type: ROW |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Garlon | | | None | Verbal Warning | ROW/Runoff |

**Summary / Findings**

Alleged run-off of dye and/or pesticide from power company right-of-way application.

Run-off was red dye marking trees treated with garlon. All materials applied legally. Any testing was done previous to WSDA contact and is satisfactory to complainant's. Applicator advised to give warning before applying near residences on BPA right-of-way.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 4V 1999 | Pesticide Involved | n/a | 3/28/1999 | 1 | NA |
| County: SKAGIT | Nature of Case: Disposal | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| MISC.<br>Miscellaneous | | | None | NAI | Disposal issue |

**Summary / Findings**

Concern over years of accumulation of pesticide from alleged infractor airport and garbage collection site. Also concern about no secondary containment at crop dusting facility at old airport. All of this drainage district drains into Padilla Bay Reserve.

Six samples were collected at regular intervals along the drainage system. Detected amounts of pesticides were normal for an agricultural area as exists where samples were collected. Only trace amounts of organophosphate were detected and no carbamates were detected.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 5V 1999 | Pesticide Involved | commercial applicator | 5/1/1999 | 1 | Ground |
| County: SKAGIT | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NAI | Weeds |

**Summary / Findings**

Complainant feels that her neighbor did an improper application within proximity of her home.

The alleged infractor's application was completely legal.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 6V 1999 | Incident | private commercial | 5/20/1999 | 1 | NA |
| County: SKAGIT | Nature of Case: Storage | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| MISCELLANEOUS<br>Miscellaneous | | | L&I | NAI | Storage and Records |

**Summary / Findings**

Hazardous storage of pesticides, no record keeping.

Non-ag use inspection of facility found fertilizer and pesticide storage completely unsatisfactory. There were no records being kept. Technical assistance was offered and an NOC was sent in conjunction with the use inspection and a DOC was returned by the alleged infractor, now in compliance.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 7V 1999 | Violation | commercial applicator | 7/13/1999 | 2 | NA |
| County: SKAGIT | Nature of Case: Disposal | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| FUNGICIDE<br>Thiram | | | EPA, DOE | NOC | Disposal issue |

**Summary / Findings**

Complaint about dumping of a pesticide.

The infractor admitted dumping the fungicide. He said that he misunderstood the disposal requirement. The disposal techniques that he has knowledge of are far outdated.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 8V 1999 | Incident | commercial consultant | 6/1/1999 | 0 | NA |
| County: SKAGIT | Nature of Case: WDO | | Response Time: Same Day | Children Involved?: No | Application Type: WDO |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NAI | WDO |

**Summary / Findings**

Alleged faulty WDO inspection and report.

This complaint was a misunderstanding between concerned parties. The house is now repaired to bank financing standards and has been approved by the inspector.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 9V 1999 | Pesticide Involved | commercial applicator | 7/23/1999 | 1 | Ground |
| County: KING | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Miscellaneous | | | None | NAI | Ornamentals/Ornamentals |

**Summary / Findings**

Drift from application made to neighbor's property.

Sample results were negative for drift.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 1Y 1999 | Incident | commercial applicator | 1/26/1999 | 1 | Ground |
| County: BENTON | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | | | None | NAI | Lawn |

**Summary / Findings**

Complainant claims alleged infractor made an unauthorized weed & feed application to his lawn. Service told complainant the application was a result of a computer error and told WSDA that service continues year to year unless discontinued.

The complainant noticed a commercial application had been made to his lawn, but he did not order an application. The lawn care company called the following day and stated they had made a mistake by making the application.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 2Y 1999 | Pesticide Involved | dealer manager | 1/28/1999 | 0 | Ground |
| County: MULTIPLE | Nature of Case: Misuse | | Response Time: 7 days | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| DISINFECTANT<br>ClO2 | | | Idaho | NAI | Potatoes |

**Summary / Findings**

WSDA received a fax from complainant stating he had been informed that applications of anthium AGP were being made to stored potatoes in Washington. WSDA does not have a section 18 allowing this application.

No sales or use of Anthium AGP could be documented in Washington.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 3Y 1999 | Incident | n/a | 3/11/1999 | 1 | NA |
| County: YAKIMA | Nature of Case: Drift | | Response Time: One Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NA<br>NA | Sulfur | | DOE | NAI | Orchards |

**Summary / Findings**

Aggrieved party sent letter to DOE asking for information regarding the rules & regulations for orchard spray & weed killer, spraying in the wind & spraying on the weekends. They are concerned about danger to themselves and their animals due to drift onto their property by spray from a tractor.

Referred by Dept. of Ecology. Complainant's are seeking information on rules and regulations of orchard spraying and weed killers and answers to some specific questions. Questions were answered and information was mailed to them, including how to file a formal complaint and investigative response time.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 4Y 1999 | Pesticide Involved | private applicator | 2/28/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| FUNGICIDES<br>Copper | | | None | NAI | Orchard/Vehicle |

**Summary / Findings**

Aggrieved party was concerned about spray mist coming out on the road and getting on her vehicle. She did not want to file a complaint but did want someone to contact the sprayer and let them know of her concern.

Complainant did not want to file a complaint when asked by WSDA to contact person responsible for spraying. Contact was made. No further action required at this time.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 5Y 1999 | Pesticide Involved | private applicator | 3/8/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | INSECTICIDE | | DOH, L&I | NAI | Cherries/Person |

**Summary / Findings**

Damaged party was pruning grapes and he was allegedly drifted on by a ground application from the adjacent field (nursery) about 200 feet away from him. He immediately became ill.

On 3/24/99, DOH referred a complaint to WSDA alleging that a worker in a grape vineyard became ill following a spray application in the nursery next to the vineyard. No evidence was found to show physical drift came in contact with the worker.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 6Y 1999 | Violation | private applicator | 3/25/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Drift to organics | | Response Time: One Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | WSDA Organic Program | NOC | Apples/Organic orchard |

**Summary / Findings**

Complainant claims that his neighbor allegedly drifted onto his orchard. Complainant has an organic orchard and is concerned about losing his organic certification.

Spray from an application to an apple orchard drifted to the neighboring organic orchard, contaminating this organic orchard. A grass foliage sample taken from around the trees in the organic orchard tested positive for chlorpyrifos. Record keeping violations found.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 7Y 1999 | Violation | unlicensed/commercial | 3/26/1999 | 3 | Ground |
| County: BENTON | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | DOH, L&I | NOC | Roaches/Human exposure |

**Summary / Findings**

Human health. Alleged infractor sprayed to control roaches. Complainant called Olympia office to see if alleged infractor was licensed. Olympia office told her the license was expired. They sprayed around kitchen cupboards. She has broken out in a rash and is going to see the doctor.

The applicator did not have a current license or current insurance certificate at the time of the application. Record problems.



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# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 8Y 1999 | Pesticide Involved | dealer | 2/25/1999 | 2 | NA |
| County: OUT OF STATE | Nature of Case: Unlabeled tank | | Response Time: One Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Oil | | | Oregon | Referred | Unlabeled tank sold |

**Summary / Findings**

Complainant works for Oregon Dept. of Agriculture and had investigated a case where he found a bulk tank of spray oil that was not labeled. In checking the paper work he found the invoice was from alleged infractor. He referred the information to WSDA and asked that we follow-up on it.

WSDA found that the shipment of Volk supreme spray oil (unlabeled) was delivered to the Hood River address by drop shipment while load was on the way to the alleged infractor from a company in California. The complainant decided to refer the case to EPA to handle because California is not in EPA Region 10.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 9Y 1999 | Violation | private applicator | 4/2/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | None | NOC | Apples/Vehicle |

**Summary / Findings**

Complainant was traveling on a road and saw the plume from an orchard sprayer. As he got closer he flashed his lights and honked his horn so the sprayer would stop but they didn't. The complainant stopped but the sprayer kept coming & sprayed him. He said his windows were up but it looked like a car wash.

Spray from a pesticide application to an apple orchard came in contact with a pickup driving on a county road adjacent to the orchard. A swab sample from the pickup's spare tire tested positive for chlorpyrifos.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 10Y 1999 | Incident | unknown | 12/31/1998 | 0 | NA |
| County: FRANKLIN | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| UNKNOWN<br>Unknown | | | None | NAI | Wheat |

**Summary / Findings**

Dead area in triticale. Suspect carryover herbicide.

Unable to determine cause of dead area. Too much time had elapsed to conduct residue analysis.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 11Y 1999 | Violation | private applicator | 4/5/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | None | NOC | Apples/Auto |

**Summary / Findings**

Complainant said wind was blowing spray across road even though sprayers had turned off the apparatus and were turning at the end of rows. Two sprayer blasts hit her vehicle. Three sprayers were working in the orchard. No human exposure reported. Three children were on board.

Complainant said wind was blowing spray across the road even though sprayers had turned off the apparatus and were turning at the end of rows. Two sprayer blasts hit her vehicle. Three sprayers were working in the orchard. No human exposure reported. Three children and a toddler were on board.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 12Y 1999 | Violation | private applicator | 4/10/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | DOH | Administrative Action | Apples/Person |

**Summary / Findings**

The damaged party was working in the complainant's yard while an adjacent orchard was being sprayed. Complainant said the wind was blowing excessively & the spray blew onto their property. The damaged party was sprayed as was the complainant. Complainant contacted the Yakima County Sheriff Dept. & the WSDA Olympia office.

Spray from an application to an apple orchard penetrated an arborvitae hedge atop a brick wall separating the orchard and a home, exposing a yard worker to chlorpyrifos and dormant oil. Pants worn by the yardworker at the time of the exposure tested positive for chlorpyrifos.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 13Y 1999 | Violation | commercial applicator | 4/12/1999 | 2 | Air |
| County: FRANKLIN | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NOC | Wheat/Auto |

**Summary / Findings**

The complainant alleged that an airplane sprayed his car. The applicator turned on the spray boom while crossing over the road entering the field. The complainant did not claim human exposure. He was upset that the applicator did not alter his approach. Two children, male age 11 & female age 6 were in the car. No health problems reported. Follow-up 4-13-99. No one reporting health effects.

Sample analysis was positive for the herbicide residue on the complainant's automobile. All statements and the applicator's records are consistent in identifying the site of the incident.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 14Y 1999 | Pesticide Involved | private applicator | 4/6/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Chlorpyrifos | | | None | NAI | Orchard/Daycare |

**Summary / Findings**

Complainant lives next to a 3 year old orchard and is tired of the odor & drift from the adjacent orchard. She has a daycare. Orchard was planted 6 years after complainant moved to the site.

WSDA residue analysis was negative. Investigator performed technical assistance, discussing application techniques, weather, temperature inversions and notification with the alleged infractor. WSDA also offered to both parties to be present at the time of the next application.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 15Y 1999 | Pesticide Involved | public operator | 4/12/1999 | 1 | NA |
| County: FRANKLIN | Nature of Case: Disposal | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| MISC.<br>Miscellaneous | | | DOE | NAI | Disposal |

**Summary / Findings**

Report that city is dumping waste products into an open dry well. Waste products include motor oil, anti-freeze and hydrochloric acid. The well is reported not to have a drain and the waste products seep into the ground. The complainant reported this practice is on going.

Case was referred to Dept. of Ecology. Complainant reported on 5-2-99 that his boss pumped out the dry well and plugged the drain.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 16Y 1999 | Violation | public operator | 4/12/1999 | 2 | Ground |
| County: FRANKLIN | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Diesel | | | DOE | NOC | Use of diesel as herbicide |

**Summary / Findings**

Complainant stated city park employees were given work orders to spray diesel on the foul lines to kill grass of the recreational fields.

WSDA found and sampled a backpack sprayer at alleged infractor facility containing diesel. Same sprayer used to spray the park. No record found for the application. reviewing records found problem with wrong label being used (ag not ornamental). Operators were not carrying labels and MSDS's with them into the field.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 17Y 1999 | Violation | private applicator | 4/23/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: 3 days | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| PLANT REGULATOR<br>Tetraoxosulfate | | | DOH | NOC | Apples/Person |

**Summary / Findings**

Complainant alleges that employees of an orchard were spraying and sprayed his family and his property.

Spray from a pesticide application to an apple orchard drifted off-target and exposed three people working on the exterior of a house located adjacent to the orchard. No samples were taken because the orchard owner provided false information about the product being used.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 18Y 1999 | Pesticide Involved | public operator | 4/30/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Disposal | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NAI | Weeds/Disposal |

**Summary / Findings**

Report of four masked men dumping chemicals from a red truck in the West Valley area of Yakima

Alleged infractor performing legal pesticide application to star thistle.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 19Y 1999 | Violation | private applicator | 5/3/1999 | 3 | Ground |
| County: YAKIMA | Nature of Case: Misuse | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| PLANT REGULATOR<br>Ammonium Thiosulfate | | | None | NOC | Apples |

**Summary / Findings**

Referring party called WSDA to tell of someone spraying in high winds. He did not want to file a complaint; he just wanted them to quit spraying. Investigator spoke with spray operator at site, explaining the wind was too high to apply spray and asked what he was spraying. The operator said he was spraying apples for thinning. It was explained to him that the product was not being applied according to the label. The operator quit spraying.

An application of ATS was made to an apple orchard for the purpose of blossom thinning in a high wind. The application records were not filled out properly.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 20Y 1999 | Pesticide Involved | commercial applicator | 4/23/1999 | 1 | Air |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES | | | Oregon | NAI | Wheat/Peas |
| Miscellaneous | | | | | |

**Summary / Findings**

Alleged infractor's plane allegedly was leaking as it flew from the airport to an application site to make an application on wheat. A witness (Oregon farmer) supposedly saw the plane between 10 am & noon as it was traveling between airport and the site and it was leaking. The Oregon Dept. of Agriculture has initiated an investigation. Complainant claims they have a pea field that was drifted onto by this airplane causing damage to their peas.

A roadside right of way herbicide application was made adjacent to a pea field and an airplane flew over the field leaking herbicides on its way back to the airport to be fixed. Peas in the field showed herbicide damage symptoms. All foliage and soil samples tested negative for the herbicides used.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 21Y 1999 | Pesticide Involved | unknown | 5/12/1999 | 4 | Unknown |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE | | | None | NAI | Bees |
| Carbaryl | | | | | |

**Summary / Findings**

Bee kill. Five sites of ten hives (50 total) were placed in an apple orchard two weeks previous to complaint. The complainant removed the hives on 5-12-99 and found up to 2000 dead bees in front of each hive. The dead bee sample condition was "too aged and dry" to be a good sample.

Bee keeper requests that this bee kill be recorded. Lab analysis detected Carbaryl.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 22Y 1999 | Pesticide Involved | unknown | 5/14/1999 | 3 | Unknown |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE | | | None | NAI | Bees |
| Carbaryl | | | | | |

**Summary / Findings**

Bee kill. Referring party moved 4 bee hives on the morning of 5-14-99. He found dead bees at the hives and collected samples to turn in to WSDA. Site was visited with referring party the same day. There were few dead bees at the site.

Lab analysis detected trace amounts of Carbaryl in dead bee sample. Unable to determine source.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 23Y 1999 | Pesticide Involved | unknown | 5/14/1999 | 4 | Unknown |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE | | | None | NAI | Bees |
| Carbaryl | | | | | |

**Summary / Findings**

Bee kill. Complainant removed 12 hives from orchard. A 300 ml sample of dead bees was collected by the investigator, including one queen bee.

Laboratory results showed trace amount of Carbaryl in sample of dead bees.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 24Y 1999 | Violation | private applicator | 5/14/1999 | 4 | Ground |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Carbaryl | | | None | Administrative Action | Cherries, apples/Bees |

**Summary / Findings**

Bee kill. Complainant inspected his 192 colonies at 9 am on 5/14 and observed a moderate bee kill. The hives were placed in the orchard 4/10 & he last inspected the hives on 5/12. The cherry trees were done and the apples nearly done, but there were dandelions in all the orchards.

A bee kill occurred in 192 hives in an apple and cherry orchard in Yakima County. Lab analysis detected trace amounts of carbaryl in the bee sample. An adjacent apple grower had not complied with bee protection requirements on the Carbaryl label for fruit thinning.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 25Y 1999 | Pesticide Involved | unknown | 5/18/1999 | 4 | Unknown |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Carbaryl | | | None | NAI | Bees |

**Summary / Findings**

Alleged bee kill on complainant's property in Yakima county. Some of the 131 hives at this location have dead bees in front of the hives that appear to be freshly killed (no signs of decay.) Examination of the frames of some of the hives show that there is a break in the brood cycle of 0-5 days.

Laboratory results of sampled bees detected trace amounts of carbaryl. The source of the pesticides was undetermined.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 26Y 1999 | Violation | private applicator | 5/18/1999 | 4 | Ground |
| County: YAKIMA | Nature of Case: Bee Kill | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Carbaryl | | | None | NOC | Orchard/Bees |

**Summary / Findings**

Complainant removed bee hives from ranch in am on 5/19. He saw dead bees & contacted WSDA to ask that a bee kill be documented. samples & photos were taken. Dandelion & syringa were in bloom at site. Investigator returned to site in afternoon and saw spraying about 10m east of bee kill. Empty pesticide containers indicated product used. A hive one mile west of kill site had no visible kill.

Bee keeper reported a bee kill, found while removing his hives from an apple orchard. A grower in the same area was found using Carbaryl 4L contrary to the Section 3 label directions. Alleged infractors records were not completed according to state pesticide law.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 27Y 1999 | Pesticide Involved | commercial applicator | 4/23/1999 | 1 | Air |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES<br>Miscellaneous | | | Oregon | NAI | Wheat/Peas |

**Summary / Findings**

Alleged infractor's plane allegedly was leaking peak as it flew back to airport after making an application to wheat. An observer stated he saw the airplane between 10 am and noon as it was making the application and traveled back to the airport and it was leaking. Oregon Dept. of Agriculture initiated an investigation. Complainant and damaged parties claim they have a pea field that was drifted onto, causing damage.

A roadside right-of-way herbicide application was made adjacent to a pea filed and an applicator's airplane flew over the field leaking herbicide on it's way back to the airport to be fixed. The complainant also made an application to winter wheat in an adjacent field. Peas in the field showed herbicide damage symptoms but all foliage and soil samples tested negative for the herbicides used.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 28Y 1999 | Violation | commercial/private applicator | 2/28/1999 | 3 | Air |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES Miscellaneous | | | None | NOC | Wheat/Peas |

**Summary / Findings**

Has 110 acres of peas allegedly damaged by pesticides. Suspects an application was made to his adjacent wheat field by alleged infractor. Experts feel damage is from sulfonylurea herbicide. Complainant also sprayed some of adjacent wheat field with a ground sprayer where the wheat borders the peas.

Two ground herbicide applications were made to winter wheat adjacent to a pea field and two aerial applications were made to parts of the winter wheat field. Drift from the aerial applications damaged the peas. The second ground application was made after the low volatile restricted use herbicide cut-off date. Records incomplete. Nozzle pressure exceeded rule allowance.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 29Y 1999 | Pesticide Involved | unknown | 5/27/1999 | 2 | Unknown |
| County: BENTON | Nature of Case: Drift | | Response Time: 2 days | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE Unknown | HERBICIDE diuron | | None | NAI | Grapes |

**Summary / Findings**

Complainant suspects possible pesticide drift to grapes. Grapes are showing slight chlorosis, mottling of leaves, and epinasty. Some varieties show more symptoms than others, with one year old Port variety showing symptoms the most. Other varieties are eight to nine years old. Complainant thinks source of pesticide(s) is the horse heaven hills.

Grapevines in two vineyards appeared to have phenoxy type herbicide damage symptoms. Foliage samples tested negative for phenoxy scan and Dicamba. A source for potential damaging phenoxy type or Dicamba herbicides could not be determined.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 30Y 1999 | Pesticide Involved | commercial applicator | 3/18/1999 | 1 | Ground |
| County: FRANKLIN | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: ROW |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE Imazapyr | | | None | NAI | ROW/Alfalfa |

**Summary / Findings**

Alleged infractor sprayed and possibly drifted spray into newly seeded alfalfa field and it is dying.

Water from complainant's and neighbors' center pivots washed pesticides from a roadside right-of-way application. The application was made correctly and on target.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 31Y 1999 | Violation | unlicensed | 5/25/1999 | 3 | Ground |
| County: YAKIMA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE Phenoxy | | | None | NOC | Weeds/Peaches |

**Summary / Findings**

Neighbor sprayed weeds about ten days ago and now complainant has several small peach trees dying. He suspects drift from his neighbor's spraying. Complainant indicated that there is an ongoing lawsuit between the two neighbors but did not say what the suit was regarding.

Phenoxy symptoms were found on the peach trees.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 32Y 1999 | Violation | private applicator | 6/9/1999 | 2 | Ground |
| County: BENTON | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | DOH | NOC | Cherries/Person |

**Summary / Findings**

Was in back yard & neighbor was spraying cherry orchard & drifted onto property & onto his person. He now feels sick & may go to doctor. He did go to a doctor who sent him to the emergency room of local hospital. He was diagnosed with organophosphate poisoning.

Allegedly exposed to spray drift from a cherry orchard application. Complainant went to hospital and was treated and released. DOH was notified. Four samples were collected including the complainant's shirt. Two of the four samples were found to contain azinphos methyl. The shirt and a swab sample from deck shows no chemical detected.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 33Y 1999 | Violation | commercial applicator | 6/9/1999 | 2 | Air |
| County: BENTON | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Malathion | HERBICIDE | | None | NOC | Cherries/Person |

**Summary / Findings**

Complaint of drift from a helicopter that was making an application to a cherry orchard. no claim of human exposure. Complained of odor in house and drift to a parked automobile.

Residue analysis was positive for Malathion from a swab sample taken from complainant's vehicle. Alleged infractor made an aerial application of Malathion to a cherry orchard west of complainant's house.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 34Y 1999 | Violation | commercial applicator | 5/21/1999 | 3 | Air |
| County: KLICKITAT | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | Administrative Action | Barley/Ornamentals |

**Summary / Findings**

Complainant suspects damage to his ornamentals caused by drift from an application to a nearby barley field.

Alleged infractor drifted off target causing damage to complainant's garden and ornamentals. Two eyewitness accounts match the work order submitted. There was a drift pattern from the field to the complainant's yard and garden. Symptoms were typical drift symptoms for the herbicides applied.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 35Y 1999 | Pesticide Involved | unknown | 5/27/1999 | 2 | Unknown |
| County: KLICKITAT | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES<br>2,4-D | HERBICIDE<br>2,4-D | | None | NAI | Unknown/Grapes |

**Summary / Findings**

Phenoxy type symptoms observed in a vineyard.

The phenoxy exposure was isolated to the complainant's vineyard as opposed to an area wide symptom. Possible drift from application made by complainant.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

**CASE #** 36Y 1999
**County** WALLA WALLA

**Designation** Violation **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
HERBICIDE
Glyphosate
INSECTICIDE

**Date of Incident** 9/1/1998
**Response Time** Same Day
**Severity** 3
**Children Involved?** No
**Application Method** Air
**Application Type** Ag
**Other Agencies Involved:** None
**Final Action** NOC
**Target/Complaint Area** Wheat/Trees

**Summary / Findings**

Complainant alleges drift from an aerial application last year of pesticides to wheat fields next to his home, onto his property, killing one of his locust trees. The complainant said trees had been sprayed in the past and come out of it, but this time a tree died. The damage was not apparent this year until the trees grew leaves.

An aerial application of restricted use herbicides was made to fallow fields in violation of the county rules. Tithe complainant used one of the herbicides in an application to his yard. The aerial application damaged all the trees on the edge of town. A foliage sample from the complainant's yard tested positive for the herbicide used both by him and the aerial applicator.

**CASE #** 37Y 1999
**County** YAKIMA

**Designation** Violation **License** commercial applicator
**Nature of Case** Human Exposure

**Chemicals or other Materials Involved:**
INSECTICIDE

**Date of Incident** 6/15/1999
**Response Time** Same Day
**Severity** 4
**Children Involved?** No
**Application Method** Ground
**Application Type** Non Ag
**Other Agencies Involved:** DOH
**Final Action** Administrative Action
**Target/Complaint Area** Building/Persons

**Summary / Findings**

A PCO sprayed the outside and inside of a building to control bugs and now several people are experiencing headaches, nausea and burning eyes. One person fainted. Two people went to the hospital in Toppenish.

PCO sprayed the outside and inside of building to control bugs. The next morning several people experienced headaches, nausea, and burning of eyes. One person fainted and two people went to the hospital. PCO's license was expired at the time of the application.

**CASE #** 38Y 1999
**County** FRANKLIN

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
HERBICIDE
2,4-D

**Date of Incident** 6/17/1999
**Response Time** Same Day
**Severity** 2
**Children Involved?** No
**Application Method** Unknown
**Application Type** Ag
**Other Agencies Involved:** None
**Final Action** NAI
**Target/Complaint Area** Unknown/Grapes

**Summary / Findings**

Complainant is ranch manager of a vineyard for the damaged party. He says the grapes in the vineyard, located in northern Franklin county, show phenoxy damage symptoms. He wants the damaged documented.

Grapevines appeared to have phenoxy type herbicide damage symptoms. A definitive source of potential damaging phenoxy type herbicides was not determined.

**CASE #** 39Y 1999
**County** BENTON

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
HERBICIDE
2,4-D
INSECTICIDE

**Date of Incident** 1/1/1998
**Response Time** Same Day
**Severity** 2
**Children Involved?** No
**Application Method** Unknown
**Application Type** Ag
**Other Agencies Involved:** None
**Final Action** NAI
**Target/Complaint Area** Unknown/Grapes

**Summary / Findings**

Alleged drift on grapes from an application made last year. Symptoms are heavy and match a drift pattern.

Grapes did exhibit phenoxy symptoms in a typical drift pattern and symptoms were typical of carryover. Unable to determine source of spray damage.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 40Y 1999 | Violation | unlicensed | 6/23/1999 | 3 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | DOH | Administrative Action | Apples/Person |

**Summary / Findings**

Complainant and wife were working in backyard while adjacent orchard was being sprayed. Complainant's wife said spray drifted onto backyard so they went in to clean up & have lunch. They later saw tractor drift on their property while turning. They state that the wind was 10-15 mph from the south. They did not feel spray but could taste it in mouth. Samples of clothing and foliage were taken.

The complainant's were exposed to guthion pesticide drift from an adjacent apple orchard while they were in their back yard. The clothing and foliage samples collected indicated positive residue for guthion. The couple did not seek medical attention.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 41Y 1999 | Violation | unknown | 6/15/1999 | 2 | Unknown |
| County: BENTON | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NOC | Unknown/Grapes |

**Summary / Findings**

Thirty six acres of wine grapes showing 2,4-D damage on upper leaves. Believed to have happened around bloom time (7-10 days ago). Complainant said the direction appeared to be from southwest. Does not know of any applications around the immediate area.

Alleged phenoxy symptoms on vineyard from two probable sources. Phenoxy symptoms were observed on the vines as well as other symptoms. No drift pattern found. Source of exposure not determined. Lawn care company used two products not labeled for roadside applications.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 42Y 1999 | Pesticide Involved | unlicensed | 6/28/1999 | 1 | Ground |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Glyphosate | | | None | NAI | Trees |

**Summary / Findings**

Home owner complaint of dead and dying Lombardy poplar trees. Complainant suspects pesticides.

The WSDA laboratory analysis of samples reveals evidence of glyphosate. The source is undetermined. Trees also show damage from improper planting.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 43Y 1999 | Pesticide Involved | unknown | 6/30/1999 | 2 | Unknown |
| County: KLICKITAT | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | NAI | Unknown/Grapes |

**Summary / Findings**

Vineyard owners reported that the grapes were showing signs of pesticide damage. The owners noticed an airplane spraying across the river in Oregon on top of the cliffs, but symptoms on the grapes were already apparent at that time.

Unable to locate source of pesticide damage to grapes.

# WSDA 1999 Case Data

**CASE #** 44Y 1999
**County** YAKIMA

**Designation** Pesticide Involved **License** commercial applicator
**Nature of Case** Drift

**Chemicals or other Materials Involved:**
INSECTICIDE
Malathion

**Date of Incident** 7/8/1999
**Response Time** Same Day

**Other Agencies Involved:** WSDA Organic Program

**Severity** 2
**Children Involved?** No

**Final Action** NAI

**Application Method** Air
**Application Type** Ag

**Target/Complaint Area** Cherries/Organic Cherries

**Summary / Findings**

Alleged drift of malathion from neighbor's cherry orchard to his organic cherry orchard. this is the first year that the orchard was certified, so he has been in the program for 3 years.

Nine samples taken by organic division. All nine are positive for Malathion, all nine below the 5% tolerance level. Malathion is labeled for use on conventionally grown cherries.

**CASE #** 45Y 1999
**County** BENTON

**Designation** Violation **License** commercial applicator
**Nature of Case** Human Exposure

**Chemicals or other Materials Involved:**
INSECTICIDE
Malathion

**Date of Incident** 7/8/1999
**Response Time** Same Day

**Other Agencies Involved:** DOH

**Severity** 3
**Children Involved?** Yes

**Final Action** NOI

**Application Method** Air
**Application Type** Ag

**Target/Complaint Area** Cherries/Persons

**Summary / Findings**

While spraying a cherry orchard, the helicopter pilot drifted spray onto an adjacent property exposing two adults and three children to spray. Notified DOH.

The laboratory analysis was positive for Malathion residue on clothing and the foliage samples. The complainants did not seek medical attention. The alleged infractor did not have a current pesticide license.

**CASE #** 46Y 1999
**County** BENTON

**Designation** Pesticide Involved **License** private applicator
**Nature of Case** Human Exposure

**Chemicals or other Materials Involved:**
INSECTICIDE
Azinphos Methyl
HERBICIDE
2,4-D

**Date of Incident** 7/15/1999
**Response Time** Same Day

**Other Agencies Involved:** DOE

**Severity** 1
**Children Involved?** No

**Final Action** NAI

**Application Method** Ground
**Application Type** Ag

**Target/Complaint Area** Orchard/Person

**Summary / Findings**

Complainant said that as she drives to work past this orchard that she can smell a chemical odor and she is very sensitive to chemicals. On incident date she did smell the odor and she was concerned about the spraying because she said that her daughter has seen sprayers (in the past) in this orchard and witnessed the spray mist drifting out onto Interstate-82. she did not see any sprayers but could only smell the odor.

Unable to prove spray drift.

**CASE #** 47Y 1999
**County** MULTIPLE

**Designation** Pesticide Involved **License** unknown
**Nature of Case** Misuse

**Chemicals or other Materials Involved:**
FUNGICIDES

**Date of Incident** 7/12/1999
**Response Time** Same Day

**Other Agencies Involved:** None

**Severity** 1
**Children Involved?** No

**Final Action** NAI

**Application Method** Unknown
**Application Type** Ag

**Target/Complaint Area** Hops

**Summary / Findings**

Two calls from the same anonymous caller alleging hop growers were applying Funginex through the drip irrigation system and applying 2,4-D with the burn back. Yakima and Benton counties.

The timing of the application that was suggested by the anonymous complainant does not seem logical for the use of the product. Funginex has no known systemic effect and the timing of the application would be too late to have an effect on the mildew. The use of 2,4-D with the burn back for a hormonal effect would be risky to the health of the hop plant.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 48Y 1999 | Pesticide Involved | unknown | 7/22/1999 | 4 | Ground |
| County: BENTON | Nature of Case: Contaminated Product | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Paraquat | | | Sheriff | NAI | Grapes |

**Summary / Findings**

Suspect sulfur used on grapes may be contaminated. Sever leaf burn and spotting observed after an application.

Complainant was also the applicator. Evidence gathered supports suspected sabotage. Investigator recommended that incident should be reported to the local sheriff.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 49Y 1999 | Pesticide Involved | private applicator | 7/26/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Parathion | | | None | NAI | Apples/Person |

**Summary / Findings**

Complaint about workers in orchard while sprayers are operating.

The investigation showed that the orchard was divided into blocks and that no human exposure occurred.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 50Y 1999 | Incident | private applicator | 6/28/1999 | 1 | Ground |
| County: BENTON | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | DOH | NAI | Grapes/Garden |

**Summary / Findings**

Human health. Damaged party claims they were having health problems after their neighbor sprayed in the vineyard next to their house. The spraying was done about four weeks ago. They were also concerned about some trees and their garden that are located next to the vineyard. He said they appear to be dying.

WSDA found that no health problems were experienced and that the plants had insects and disease. The neighbor had sprayed to control weeds.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 51Y 1999 | Pesticide Involved | private applicator | 7/27/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | None | NAI | Pears/Person |

**Summary / Findings**

Complainant was golfing when spray drifted across the course from an application to an adjoining orchard. She could smell and see the drift but did not feel any spray. No health issues other than sneezing at the time of exposure.

Citizen playing golf concerned about pesticide smell or drift from adjacent orchard, but did not want it pursued. She only wanted to know what product was sprayed and wanted someone to suggest to applicators that more care be used when applying in the future.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 52Y 1999 | Incident | n/a | 7/23/1999 | 1 | NA |
| County: BENTON | Nature of Case: Human Exposure | | Response Time: 3 days | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE<br>None | | | DOH | NAI | Human Exposure |

**Summary / Findings**

Twenty two employees of a company were drifted on by an aerial application while working outside of the building. The 22 workers complained of symptoms requiring medical evaluation.

The referral by DOH that 22 workers were drifted on by an aerial application of a herbicide was not accurate information. Two workers in the area about 1/4 mile from the application site smelled an odor. The application was made correctly and roads into the spray area were blocked off and a point person was at the application site.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 53Y 1999 | Violation | commercial applicator | 7/23/1999 | 1 | Ground |
| County: BENTON | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Pendimethalin | | | None | NOC | Ornamentals |

**Summary / Findings**

Large limbs in tree are dying.

Large limbs in trees are dying. The symptoms are related to the herbicide application made in 1998, case 40Y-98.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 54Y 1999 | Incident | commercial applicator | 7/12/1999 | 1 | NA |
| County: YAKIMA | Nature of Case: Container Disposal | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| CONTAINERS<br>Miscellaneous | | | County | NAI | Burning of containers |

**Summary / Findings**

Plastic pesticide containers were being burned. this has been a routine practice. Complainant is tired of the smoke.

Anonymous complaint that plastic containers were burned at 5:30 pm 7-12-99. This has been a routine practice. Regional clean air authority assessed a $3,000 fine and conditions for settling the complaint.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 55Y 1999 | Violation | unlicensed | 5/31/1999 | 2 | Ground |
| County: BENTON | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | | | None | Verbal Warning | Lawn/Grapes |

**Summary / Findings**

Neighbor applied 2,4-D to yard & surrounding area and it drifted to his grapes, causing damage for the second year in a row. Complainant wants to document this occurrence and have someone speak with his neighbor concerning this situation.

A roadside sterilant application, two herbicide applications in a vineyard, and two herbicide applications to a barrow pit resulted in phenoxy type herbicide damage to the vineyard. Only one of the applications to the barrow pit was of a phenoxy-type herbicide.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 56Y 1999 | Pesticide Involved | private applicator | 8/6/1999 | 2 | Ground |
| County: YAKIMA | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Azinphos Methyl | | | None | NAI | Apples/Persons |

**Summary / Findings**

Human health. Homeowner complained about pesticide drift from an orchard across the street. The orchard is sprayed between 2 and 3 am. She was awakened by the smell of pesticides through the open windows. They could see clouds of pesticide mist. Homeowner states she had headaches and was sick to her stomach, but she did not feel the mist at the window.

Pesticides appear to be applied according to label. Alleged infractor has agreed to notify complainants when a spray application is planned so that they can close their windows against the odor. All are satisfied.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 57Y 1999 | Violation | commercial applicator | 8/30/1999 | 3 | Unknown |
| County: FRANKLIN | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Paraquat | | | None | Administrative Action | Potatoes/Alfalfa |

**Summary / Findings**

Complaint of spots on alfalfa. They think it could be desiccant spots from potato field to the north of them. He first noticed spots on 8/30/99 am.

Spots were noticed on alfalfa. The damaged party believes that it could be desiccant spots from potato field to the north of the field. Diquat residue was detected by lab analysis.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 58Y 1999 | Violation | unlicensed | 9/3/1999 | 1 | Ground |
| County: YAKIMA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: Yes | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| UNKNOWN<br>Unknown | | | None | NOC | Runoff from orchard |

**Summary / Findings**

Complaint that neighbor sprays orchard and then waters, so pesticides run off onto property. His kids play in the mud and he is concerned about their health. A sheriff is investigating the complaint.

Two samples were taken and analyzed for op pesticides but none were detected. Neighbor has not complied with WSDA record request.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 59Y 1999 | Incident | unknown | 8/19/1999 | 2 | Unknown |
| County: BENTON | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Unknown | | | None | NAI | Peaches |

**Summary / Findings**

Leaf drop occurring in the Ryanson peaches. Leaves falling off the south side of the trees that are located near the canyon. Observed August 19 and 20, 1999.

Unable to determine cause of the symptoms.

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 60Y 1999 | Violation | commercial applicator | 9/9/1999 | 2 | Air |
| County: KLICKITAT | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>Glyphosate | HERBICIDE<br>Glyphosate | | None | Administrative Action | Grass seed/Grapes |

**Summary / Findings**

Alleged infractor was making a post-planting pre-emergence aerial application of glyphosate to a grass seed field. The complainant claims the wind was blowing and the spray drifted to his 140 acre vineyard.

A post planting pre-emergence aerial application resulted in the off-target movement of glyphosate to a vineyard. It was recommended as a use and this is not allowed by label. A weed foliage sample and a grape foliage sample tested positive for glyphosate, establishing a gradient from the grass seed field to the vineyard.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 61Y 1999 | Violation | commercial applicator | 9/1/1999 | 3 | Air |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE<br>2,4-D | INSECTICIDE<br>Carbaryl | | Oregon | NOC | Fallow/Grapes |

**Summary / Findings**

Damaged party's vineyards are in an area surrounded by wheat farms. Complainants say their grapevines show damage from 2,4-D.

Both an aerial and a ground application of the same herbicide were made near two vineyards. Both vineyards showed herbicide damage symptoms. Both vineyards used another herbicide with one of the same active ingredients. One alleged infractor had record keeping violations.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 62Y 1999 | Pesticide Involved | commercial applicator | 9/2/1999 | 1 | Ground |
| County: KITTITAS | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE<br>Dicofol | | | None | NAI | Ornamentals/Property |

**Summary / Findings**

Alleged infractor came to spray apartments next to where the complainant was working. He became obnoxious and refused to tell her what he was spraying. Complainant said that she saw the mist come over onto her property. She could smell the spray, so she stayed inside and called police.

Advanced notice of the spraying was not given or required. The lab results were negative for pesticide residue.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 63Y 1999 | Violation | private/commercial/commercial consultant | 9/21/1999 | 2 | Air |
| County: WALLA WALLA | Nature of Case: Drift | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDES<br>Miscellaneous | | | None | NOC | Wheat, barley/Grapes |

**Summary / Findings**

Complainant has nine acres of grapevines he planted this year & his neighbor has eight acres that were planted this year. Both vineyards have what appears to be 2,4-D damage. The complainant wants someone to look at his grapes and determine if the damage is from 2,4-D and where it could have come from.

Two different applicators made three applications of different herbicides adjacent to and close to a vineyard. Grapevines in the vineyard showed herbicide damage symptoms and tested positive for one of the active ingredients in one of the herbicides. Record keeping, licensing, and off-label recommendation and application violations were found.



NAI=No Action Indicated NOC=Notice of Correction NOI-Notice of Intent ROW=Right-of-Way WDO=Wood Destroying Organism RUP=Restricted Use Pesticide

# WSDA 1999 Case Data

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 64Y 1999 | Incident | n/a | 10/1/1999 | 0 | Air |
| County: KITTITAS | Nature of Case: Human Exposure | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| NONE | | | None | NAI | Unknown/Person |
| None | | | | | |

**Summary / Findings**

An Ellensburg contractor reported that four of his workers were drifted upon while working on his home. The workers did not see any spray equipment on the low flying wing aircraft. The mist stayed in the air for about 10 minutes and had a strong smell, like slag burning. "The workers didn't feel the mist, but complained of headaches & upset stomachs. They didn't seek medical attention.

Unable to locate airplane responsible for the drift.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 65Y 1999 | Violation | commercial applicator | 5/31/1999 | 4 | Ground |
| County: BENTON | Nature of Case: Direct | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| HERBICIDE | | | None | Administrative Action | Ornamentals |
| MCPA | | | | | |

**Summary / Findings**

Ornamental trees were damaged by herbicide applied by a commercial landscape company. Complainant was not happy with weed control from first application and ordered a second application that occurred four months ago. WSU diagnosed herbicide injury and referred complainant to WSDA.

A commercial operator made four separate and distinct herbicide applications, using three different herbicides to a grass lawn, and a bark-covered ornamental planter area in a customer's back yard. Deciduous and conifer trees were severely damaged and killed, apparently from root uptake of the herbicide(s). Foliage samples tested positive for one of the herbicides used.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 66Y 1999 | Pesticide Involved | commercial applicator | 6/30/1999 | 3 | Air |
| County: FRANKLIN | Nature of Case: Misuse, Recommendation | | Response Time: Same Day | Children Involved?: No | Application Type: Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| INSECTICIDE | | | Food Safety | NAI | Potatoes |
| Carboxalate | | | | | |

**Summary / Findings**

Grower wrote a recommendation to apply an unregistered pesticide on his potato crop. Dealer's consultant also wrote a recommendation to apply the unregistered pesticide on the grower's potato crop. Dealer delivered both recommendations and pesticide to commercial applicator. Commercial applicator applied a portion of the pesticide before realizing the mistake.

Commercial applicator applied a portion of pesticide to a crop contrary to label recommendations but in accordance with recommendations made by a dealer's consultant, and then realized the error.

| CASE # | Designation | License | Date of Incident | Severity | Application Method |
|---|---|---|---|---|---|
| 67Y 1999 | Violation | unlicensed | 10/24/1999 | 1 | Ground |
| County: BENTON | Nature of Case: Unlicensed | | Response Time: Same Day | Children Involved?: No | Application Type: Non Ag |

| Chemicals or other Materials Involved: | | | Other Agencies Involved: | Final Action | Target/Complaint Area |
|---|---|---|---|---|---|
| MISC. | | | None | NOC | Ornamentals |
| Miscellaneous | | | | | |

**Summary / Findings**

Tells customers he can apply stuff that takes a special license to buy & that he can take care of their pest problems. He has made 4-6 applications of fertilizer, insecticide, herbicide, etc. to complainant's property. Has also treated neighbor's yard. He pokes holes around trees & shrubs & then gets a milk jug full of liquid & pours it around the trees. There has been some injury to trees on the complainant's property.

Alleged infractor has applied chemicals to the property of the complainant without being licensed by the WSDA as a commercial applicator.

# Department of Health

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990002 | 12/17/98 | L&I | A ceiling gave away under an electrician working in an attic. A half gallon container of pesticide stored in the attic fell through spilling on floor below. There was noticeable odor and the electrician became ill.<br><br>*Insecticide/Acaricide - Dimethoate* | 2 | 2 |
| 990004 | 2/3/99 | L&I | Adult male applicator sprayed a mixture of fertilizer and insecticide on a residential lawn. The spray gun popped off the hose and sprayed his eyes, causing irritation.<br><br>*Fungicide - Ferrous Sulfate*<br>*Insecticide/Acaricide - Chlorpyrifos* | 2 | 2 |
| 990007 | 2/21/99 | WPC | Ten year-old male and his eleven year-old sister, developed symptoms following exposure from repeated applications of over the counter "Lice shampoo" and sprays<br><br>*Insecticide/Acaricide - Resmethrin* | 3 (2) | 2 (2) |
| 990009 | 1/21/99 | L&I | Adult male maintenance worker received an eye exposure when the hose came off the pressurized tank containing a mossicide, splashing chemical in his face.<br><br>*Other - Sodium Hypochlorite* | 1 | 2 |

* Incidents involving multiple individuals the classification and severity is indicated for all individuals.

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990010 | 2/28/99 | WPC | Adult male applicator loaded a sprayer with herbicide, not wearing eye protection, and developed eye irritation when a splash of product came in contact with his eyes.<br><br>*Herbicide - Paraquat* | 3 | 2 |
| 990011 | 3/8/99 | WPC | Adult male farmworker was pruning grape vines and was drifted on by a ground application to an adjacent nursery 200 ft. away.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 2 | 3 |
| 990013 | 2/25/99 | L&I | Adult female, plant care technician, reported a burning rash on her hands, arms and forearms while working amongst plants previously treated with an insecticide.<br><br>*Insecticide/Acaricide - Methyl Carbamate* | 2 | 2 |
| 990019 | 3/8/99 | Individual | Adult female called DOH complaining of an illness believed to be from her neighbor applying a herbicide to her property. WSDA confirmed presence of herbicide.<br><br>*Herbicide - Glyphosate* | 3 | 2 |
| 990021 | 3/26/99 | WSDA | Following a professional pest control application within her home, an adult female reported dermal symptoms.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 2 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990023 | 4/1/99 | L&I | Adult male applicator, wearing required PPE, felt spray contact his neck during an application. Four days later he was seen for a rash.<br><br>*Insecticide/Acaricide - Mineral Oil* | 2 | 2 |
| 990024 | 3/20/99 | L&I | Immediately following a pesticide application, the adult male applicator developed eye irritation and sought treatment. He was not wearing any eye protection.<br><br>*Insecticide/Acaricide - Endosulfan*<br>*Fungicide - Sulfur* | 2 | 2 |
| 990025 | 3/22/99 | L&I | Four male applicators, not wearing adequate PPE, reported smelling the pesticide applied and developed several related symptoms.<br><br>*Insecticide/Acaricide - Chlorpyrifos, Mineral Oil* | 3 (4) | 2 (4) |
| 990028 | 3/28/99 | L&I | Adult male applicator developed eye irritation and facial sensitivity after spraying a corrosive pesticide. He was wearing PPE, however, some facial areas were unprotected.<br><br>*Insecticide/Fungicide - Calcium Polysulfides* | 1 | 3 |
| 990030 | 3/24/99 | L&I | Adult male applicator developed symptoms after spraying pesticides. Windy conditions caused the pesticide mist to contact him while spraying.<br><br>*Insecticide/Acaricide - Chlorpyrifos*<br>*Fungicide - Fenarimol* | 3 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990033 | 4/19/99 | WPC | Adult male, freight employee, reported symptoms while unloading a trailer full of pesticides. He was not wearing protective equipment and breathed residues from the pallets being unloaded.<br><br>*Nematicide - Ethoprop* | 3 | 3 |
| 990034 | 4/10/99 | WSDA | Adult female and male were drifted on by a ground insecticide application made on adjacent apple orchard. Both were working in their backyard during the application. WSDA lab confirmed presence of insecticide.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 1<br>6 | 3<br>1 |
| 990036 | 4/5/99 | L&I | Adult male orchard worker became ill while pruning his apple trees. He had sprayed the trees three days earlier with insecticide.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 3 | 2 |
| 990037 | 4/16/99 | L&I | Adult male farmworker developed illness after eating lunch without washing his hands. He was driving stakes into the ground to spread trees and handled grass treated with a herbicide.<br><br>*Herbicide - Paraquat Dibromide* | 3 | 2 |
| 990039 | 4/23/99 | WPC | After picking up 20 pounds of treated seed potatoes that had spilled onto the ground, an adult male developed respiratory problems and numbness to his extremities. He was not wearing PPE.<br><br>*Insecticide/Acaricide - Phorate* | 2 | 4 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990040 | 4/24/99 | WPC | A retired male applied an insecticide to his shrubs and the wind blew the spray into his face. Immediately, he experienced symptoms, he showered, and went to an immediate care center.<br><br>*Insecticide/Acaricide - Dimethoate* | 3 | 2 |
| 990041 | 4/26/99 | WPC | An adult male was applying a herbicide with a ground rig when a hose ruptured and drenched his body. He was not wearing proper eye protection and developed several symptoms.<br><br>*Herbicide - 2,4-D, Amine* | 2 | 2 |
| 990042 | 4/24/99 | WSDA | Standing 30 feet away from a pesticide applicator, an adult male felt a heavy mist and tasted the pesticide chemical. He reported several symptoms believed to be related to the exposure.<br><br>*Anti-Bacterial - Oxytetracycline* | 3 | 2 |
| 990047 | 5/1/99 | WPC | A retired male developed skin irritation after spraying his lawn with herbicides. Spray soaked through his gloves and clothing.<br><br>*Herbicide - 2,4-D, Mecoprop (MCPP)* | 2 | 2 |
| 990050 | 3/29/99 | Individual | Adult male developed a problem with his eyes and skin after spraying an insecticide. He felt the spray in his eyes and on his face. He was wearing eye protection, but indicated it did not protect him from drift.<br><br>*Insecticide/Fungicide - Calcium Polysulfides* | 2 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990051 | 4/28/99 | WPC | Adult male applied a fungicide and growth regulator mixture to an orchard. He reported smelling chemicals previously applied, and later developed symptoms thought to be related.<br><br>*Growth Regulator - Insect Pheromone Mixture, Gibberellins*<br>*Fungicide - Sulfur* | 3 | 3 |
| 990055 | 5/10/99 | WPC | Eighteen month-old ingested an unknown amount of insect repellent. There was a chemical odor on her breath and some had spilled on her arm and legs. She was taken to the ER and treated with AC.<br><br>*Repellent - Diethyltoluamide* | 1 | 2 |
| 990056 | 5/10/99 | WPC | Adult male licensed applicator treated blackberries with herbicide for a property management company. His backpack sprayer leaked soaking his back. He went home, showered, changed clothes and went back to work. Dermal effects resulted.<br><br>*Herbicide - 2,4-D (ester), Triclopyr* | 2 | 2 |
| 990058 | 4/24/99 | L&I | Adult male sprayed a herbicide about his garden plot. The spray filter clogged, then cleared, drenching his clothes. Although he wore PPE, he developed symptoms thought to be related.<br><br>*Herbicide - Paraquat Dichloride* | 3 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990059 | 4/22/99 | L&I | Adult male sprayed a pesticide mixture for 2 hours. He wore all required PPE, however, he indicated possible contact with the spray.<br><br>*Fungicide - Myclobutanil, Sulfur*<br>*Insecticide/Acaricide - Oxamyl* | 3 | 2 |
| 990062 | 4/16/99 | L&I | Adult male chemical applicator, wearing required PPE, developed a rash on his chest and neck. He had applied a dust formulation of a fungicide on seed potatoes.<br><br>*Fungicide - Thiophanate-methyl* | 3 | 2 |
| 990063 | 5/19/99 | WPC | The hose attached to a spray tank ruptured and sprayed the adult male applicator in the face. He immediately sought treatment for irritated eyes and nasal congestion.<br><br>*Herbicide - Paraquat* | 1 | 2 |
| 990068 | 4/27/99 | L&I | Adult male developed eye irritation and edema after getting herbicide mist in his left eye. He may have increased his exposure when he used his shirt to wipe his eye.<br><br>*Herbicide - Glyphosate* | 2 | 2 |
| 990069 | 5/19/99 | WSDA | Two hours after being drifted on by an insecticide, an adult male developed symptoms that required medical attention.<br><br>*Insecticide/Acaricide - Carbaryl* | 3 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990071 | 5/24/99 | WPC | Teenage male was sprayed in the face with a paint that contained an insecticide. He developed symptoms that resolved quickly. When he arrived for medical attention, he was asymptomatic.<br><br>*Insecticide/Acaricide - Diazinon* | 3 | 2 |
| 990072 | 5/24/99 | HCP | Health effects were reported by an adult male, following his entry into an area that had been treated with a herbicide and hour earlier.<br><br>*Herbicide - Chlorsulfuron* | 3 | 2 |
| 990074 | 6/2/99 | WPC | Adult male orchard applicator was exposed to pesticides while calibrating the sprayer nozzles. Though he was wearing goggles, a drop of chemical got into his eye.<br><br>*Herbicide - Glyphosate,Oxyfluorofen, Adjuvant and Ammonia sulfate* | 1 | 2 |
| 990075 | 5/13/99 | L&I | Adult male city employee reported health effects he believes resulted from dermal contact while reading a label on a leaking pesticide container.<br><br>*Herbicide - Bensulide* | 3 | 3 |
| 990076 | 5/15/99 | L&I | Adult male applicator received an exposure while spraying herbicides. He was wearing sunglasses instead of approved PPE. Wind blew and spray went into his eyes.<br><br>*Herbicide - 2,4-D, Glyphosate* | 1 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990080 | 4/16/99 | L&I | Adult male city employee applied a herbicide to a camping area. He did not wear PPE, rubbed his eyes while spraying, and later developed eye irritation.<br><br>*Herbicide - Glyphosate* | 3 | 2 |
| 990081 | 5/8/99 | L&I | Adult male developed eye irritation after an exposure to an undiluted herbicide that contacted his left eye. He decontaminated and sought medical assistance.<br><br>*Herbicide - Alachlor* | 2 | 2 |
| 990082 | 5/10/99 | L&I | Adult male office worker reported symptoms thought to be a result of chemicals applied in his office. Some of the chemicals were from resins/epoxys as well as pesticides.<br><br>*Insecticide/Acaricide - Permethrin, Piperonyl Butoxide, Pyrethrins* | 3 | 2 |
| 990088 | 6/6/99 | WPC | Adult male visited his mother's home and mowed the lawn. The adjacent right-of-way had been sprayed with a herbicide and two hours later, he reported difficulty breathing. He was treated for an asthma attack.<br><br>*Herbicide - 2,4-D, Triclopyr* | 3 | 2 |
| 990089 | 5/21/99 | L&I | Two female office employees developed allergic type symptoms two hours after arriving at their work place. The office had been treated for mites by a commercial applicator.<br><br>*Insecticide/Acaricide - Lambda-cyhalothrin, Chlorpyrifos, Pyrethrins, Mgk-264, Piperonyl Butoxide* | 3 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990091 | 5/13/99 | L&I | Adult male went to the ER with health complaints and stated his symptoms occurred when he entered a storage area and smelled pesticides being stored there.<br><br>*Multiple pesticides* | 3 | 3 |
| 990094 | 6/9/99 | WPC | Adult male accidentally drank herbicide from an unmarked glass bottle and developed symptoms thought to be related.<br><br>*Herbicide - Glyphosate* | 2 | 2 |
| 990095 | 6/9/99 | WSDA | At home on his deck, an adult male was drifted on by a neighbor spraying his cherry orchard. He reported feeling the spray on his face and arms. He became ill and was seen at the hospital ER<br><br>*Insecticide/Acaricide - Azinphos-methyl*<br>*Fungicide - Myclobutanil*<br>*Other - Aliphatic Polycarboxylate* | 3 | 3 |
| 990096 | 5/23/99 | WSDA | Nine year-old female was outside playing when a neighbors' herbicide application drifted onto her property. The girl reportedly began feeling ill the same evening.<br><br>*Herbicide - 2,4-D, Triclopyr* | 3 | 2 |

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## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990097 | 6/11/99 | WSDA | Adult female developed eye irritation after she was exposed to pesticide drift from a cherry orchard. She was standing approximately 150 feet away from the orchard during the application.<br><br>*Insecticide/Acaricide - Azinphos-methyl*<br>*Fungicide - Myclobutanil, Sulfur* | 2 | 2 |
| 990100 | 5/26/99 | L&I | Wearing complete PPE, an adult male, spray applicator (blast sprayer), developed eye and skin irritation following the pesticide application. .<br><br>*Insecticide/Acaricide - Carbaryl* | 2 | 2 |
| 990101 | 6/1/99 | L&I | Not wearing eye protection while spraying an insecticide may have contributed to eye irritation reported by this adult male applicator. After 3 hours, he sought medical treatment.<br><br>*Insecticide/Acaricide - Carbaryl*<br>*Growth Regulator - 1-naphthaleneacetic Acid* | 2 | 2 |
| 990104 | 6/15/99 | WPC | Adult female applied a herbicide which was in a container attached to her water hose. She experienced the wind blowing the spray back into her face. She rinsed her eyes and went for treatment.<br><br>*Herbicide - Glyphosate* | 1 | 2 |

## 1999 Annual Summary Report of
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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990105 | 6/15/99 | LHD | Thirteen health care workers developed health effects after an application of an insecticide was made inside and outside their office facility. All workers smelled pesticide odor. Most developed headaches. Two sought medical treatment.<br><br>*Insecticide/Acaricide - Cyfluthrin* | 1<br>2 (11)<br>6 | 3<br>2 (11)<br>1 |
| 990106 | 6/2/99 | L&I | Adult male orchard worker developed eye irritation after tying mating disruption strips to tree branches. He was not wearing gloves and said dust from the strips fell in his face and in his eyes.<br><br>*Growth Regulator - Insect Pheromone Mixture* | 1 | 2 |
| 990109 | 6/18/99 | Individual | Adult female homeowner reported mild illness following a PCO insecticide application to control carpenter ants. No contact with residues took place and proper re-entry was observed.<br><br>*Insecticide/Acaricide - Bifenthrin* | 3 | 2 |
| 990110 | 4/22/99 | L&I | Adult male, orchard foreman, developed eye irritation resulting from wearing personal eyewear instead of approved PPE.<br><br>*Fungicide - Myclobutanil* | 1 | 2 |
| 990113 | 6/23/99 | WSDA | An elderly female and her husband were drifted on by a ground application of pesticide to an adjacent apple orchard, while working in their backyard. Both had mild symptoms but did not seek care. Clothing and foliage samples were positive for pesticides.<br><br>*Insecticide - Azinphosmethyl and Imidacloprid* | 2 (2) | 2 (2) |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990119 | 6/15/99 | L&I | Adult male irrigation technician developed health effects while working in an apple orchard and two blueberry fields. These areas had been sprayed with an insecticide/fungicide mix.<br><br>*Insecticide/Acaricide - Esfenvalerate*<br>*Fungicide - Iprodione* | 3 | 2 |
| 990122 | 5/6/99 | L&I | Adult male applicator was wearing PPE, however, his face and neck were exposed to the pesticide he had applied. He developed skin irritation.<br><br>*Growth Regulator - 1-naphthaleneacetic Acid* | 2 | 2 |
| 990124 | 6/3/99 | L&I | Adult male farmworker presented to the ER complaining of a nose irritation. He had been spraying wearing an approved respirator, but he removed it to scratch his nose. He was not wearing gloves.<br><br>*Herbicide - Glyphosate* | 3 | 2 |
| 990125 | 6/18/99 | WPC | Adult male PCO mixed a tank of pesticide and removed his goggles, rubbing his eyes with his gloves. Product entered his eye and he immediately developed eye irritation.<br><br>*Insecticide/Acaricide - Lambda-cyhalothrin* | 1 | 2 |

## 1999 Annual Summary Report of
## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990133 | 7/8/99 | WSDA | A family of five developed health effects following an application of an insecticide adjacent to their property. They reported feeling and smelling the pesticide. They washed 30 minutes later and did not seek medical treatment.<br><br>*Insecticide/Acaricide - Malathion* | 2 (5) | 2 (5) |
| 990135 | 4/26/99 | L&I | Adult female, stocker in a retail nursery, developed contact dermatitis on both hands. The exposure is thought to have occurred from handling and stocking pesticide containers.<br><br>*Insecticide/Acaricide* | 3 | 2 |
| 990141 | 6/25/99 | L&I | Adult male farmworker was thinning apple trees and rubbed his eyes. Presents to ER with ocular symptoms of three day duration.<br><br>*Insecticide/Acaricide - Phosmet* | 3 | 2 |
| 990142 | 7/15/99 | HCP | Adult female chemist developed mild health effects when the mechanical ventilation system in the lab malfunctioned, causing a pesticide exposure under a chemical hood.<br><br>*Pesticide - Multiple products and solvents over time* | 3 | 2 |
| 990147 | 7/13/99 | L&I | Adult male farmworker dug daffodils out of a field that had been sprayed earlier with a fungicide. Dirt blew into his eyes and caused them to water and burn from the irritation.<br><br>*Fungicide - Chlorothalonil* | 3 | 2 |

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## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990148 | 6/3/99 | L&I | Adult female landscape supervisor was exposed to a herbicide when the hose disconnected from her spray gun handle, and sprayed her eyes. She was decontaminated and taken for treatment.<br><br>*Herbicide - Glyphosate* | 1 | 2 |
| 990151 | 6/8/99 | L&I | Adult male applicator developed skin irritation on his neck. Although he was wearing PPE, his neck was unprotected.<br><br>*Insecticide/Acaricide - Petroleum Oil, Bacillus Thuringiensis, Var. K* | 3 | 2 |
| 990153 | 6/8/99 | L&I | Adult female orchard worker reported health effects, thought to have come from thinning apple trees, previously treated with pesticides.<br><br>*Insecticide/Acaricide - Azinphos-methyl, Malathion, Methoxychlor* | 3 | 2 |
| 990158 | 7/25/99 | WPC | Adult male agricultural worker reported dermatitis resulting from working in a vineyard. Exposure may have occurred when he went to use the bathroom, not washing his hands before doing so.<br><br>*Herbicide - Paraquat Dichloride* | 1 | 2 |
| 990173 | 8/4/99 | WPC | Not wearing eye protection while preparing a herbicide mixture, an adult pesticide applicator developed eye irritation after the chemical contacted his eyes.<br><br>*Herbicide - Glyphosate* | 1 | 2 |

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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990175 | 8/7/99 | WPC | Two individuals holding a garage sale were exposed to pesticide drift from an application to a nearby potato field. Both parties reported symptoms being almost immediate.<br><br>*Fungicide - Mancozeb*<br>*Insecticide/Acaricide - Methamidophos* | 2 (2) | 2 (2) |
| 990177 | 8/8/99 | WPC | Fourteen month-old female developed eye irritation when her parents shampooed her hair with lice shampoo.<br><br>*Insecticide/Acaricide - Permethrin* | 1 | 2 |
| 990180 | 7/26/99 | L&I | Adult female developed dermal symptoms after working in an onion field. She sought medical care and was diagnosed with chemical sensitivity.<br><br>*Insecticide/acaricide - Lambda Cyhalothrin*<br>*Fungicide - Mancozeb* | 2 | 2 |
| 990184 | 7/24/99 | L&I | Adult female, working as a nursing supervisor in a clinic, reported a reaction to an insecticide application which was made outside and inside her building.<br><br>*Insecticide/Acaricide - Diazinon* | 3 | 2 |
| 990185 | 7/23/99 | L&I | Adult male warehouse-man sprayed pesticides into a grain bin. Spray splashed back into his face. Within 20 minutes he developed facial and ocular irritation.<br><br>*Insecticide/Acaricide - Cyfluthrin* | 1 | 2 |

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## Definite, Probable, and Possible Pesticide Incidents

| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990186 | 7/24/99 | L&I | Adult female garden center employee was exposed while cleaning up a broken/spilled insecticide container. Symptoms were brief and resolved rapidly.<br><br>*Insecticide/Acaricide - Endosulfan* | 3 | 2 |
| 990187 | 7/13/99 | WSDA | Adult male complained of feeling ill due to the smell associated with the application of a wood shingle fungicide treatment.<br><br>*Fungicide - Copper Naphthenate* | 3 | 2 |
| 990191 | 7/27/99 | L&I | Adult male agricultural applicator experienced dermal and ocular symptoms after spraying pesticides. He wore full PPE but believes exposure occurred when he took his gloves off and scratched his face.<br><br>*Fungicide - Trifloxystrobin)* | 1 | 2 |
| 990193 | 7/16/99 | L&I | Two male orchard workers developed skin irritation with rashes while working in a cherry orchard. Exposure is thought to be associated with the dusty pesticide residue on the trees.<br><br>*Insecticide/Acaricide - Pyrethrins, Rotenone* | 3 (2) | 2 (2) |
| 990195 | 6/19/99 | L&I | Adult female counselor in a drug rehab center reported a skin reaction after working in an area where an application for flea control had been earlier applied.<br><br>*Insecticide/Acaricide - Orthoboric Acid* | 2 | 2 |

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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990200 | 8/21/99 | WPC | Elderly adult male sprayed an insecticide at his residence. Three hours later, he developed a rash on his upper torso, then sought medical attention.<br><br>*Insecticide/Acaricide - Acephate, Fenbutatin-oxide* | 1 | 2 |
| 990203 | 8/20/99 | WSDA | Adult female and her elderly mother developed symptoms following an aerial fungicide application.<br><br>*Fungicide - Sulfur* | 3 (2) | 2 (2) |
| 990205 | 7/22/99 | L&I | Adult female, a temporary laborer, was exposed to an insecticide wasp & hornet spray. Within 30 minutes, she developed symptoms related to the exposure.<br><br>*Insecticide/Acaricide - Tertamerthrin, Phenothrin* | 2 | 2 |
| 990207 | 7/28/99 | L&I | Adult female developed dermal reaction after handling a powder formulation of a fungicide. The powder was very fine, blowing on her while she was loading a sprayer.<br><br>*Fungicide - Chlorothalonil, Mefenoxam* | 2 | 2 |
| 990210 | 7/28/99 | L&I | Adult male, grain elevator worker, sprayed a pesticide and it got into his eyes causing irritation. He was treated for chemical conjunctivitis.<br><br>*Insecticide/Acaricide - Cyflluthrin* | 1 | 2 |

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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990211 | 8/6/99 | L&I | Adult male irrigator went to a clinic due to respiratory symptoms and nausea after entering orchard, without PPE, to check the water pumps. The orchard had been sprayed the day earlier.<br><br>*Insecticide/Acaricide - Azinphos-methyl* | 2 | 2 |
| 990216 | 8/31/99 | WSDA | Adult male irrigator developed dermal symptoms after being drifted on by an aerial application of herbicide to an adjacent alfalfa field.<br><br>*Herbicide - Paraquat* | 1 | 2 |
| 990217 | 8/20/99 | L&I | Adult farmworker went to a hospital ER with ocular symptoms. He sprayed a herbicide while riding in a closed cab tractor wearing required PPE.<br><br>*Herbicide - Paraquat* | 1 | 2 |
| 990218 | 8/10/99 | L&I | A janitorial crew was exposed while cleaning in an office building during a pesticide application. Two women developed symptoms.<br><br>*Insecticide/Acaricide - Deltamethrin, Pyrethrins*<br>*Growth Regulator - Pyriproxyfen* | 2 (2) | 2 (2) |
| 990224 | 9/20/99 | WPC | Adult female was sprayed while standing in front of her husband who was applying an insecticide in their kitchen. She almost immediately developed bronchial irritation and sought medical care two days later when symptoms did not resolve.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 2 | 3 |

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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990225 | 8/13/99 | L&I | Adult female telecommunication employee became ill when a co-worker applied an aerosol insect spray to her workspace.<br><br>*Insecticide/Acaricide - Propoxur, Pyrethrins* | 3 | 2 |
| 990228 | 9/10/99 | WPC | Elderly adult female applied a lice shampoo to her hair. She got some in her eye, which became irritated. The discomfort continued and she sought medical attention.<br><br>*Insecticide/Acaricide - Pyrethrins, Piperonyl Butoxide* | 1 | 2 |
| 990236 | 9/20/99 | WPC | Adult male poured moss killer from one container to another when it splashed into his left eye. Immediately, his eye had a burning sensation. He flushed his eye and sought treatment.<br><br>*Herbicide - Ferrous Sulfate Monohydrate* | 1 | 2 |
| 990244 | 9/24/99 | WPC | Adult male stated his neighbor sprayed insecticide into his yard and within 20 minutes, caused him to suffer health effects.<br><br>*Insecticide/Acaricide - Diazinon* | 3 | 3 |
| 990246 | 9/26/99 | WPC | Adult female made an aerosol application of an insecticide to control ants. While applying, she accidentally got some of the chemical into her eyes, causing irritation.<br><br>*Insecticide/Acaricide - Chlorpyrifos* | 2 | 2 |

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## Definite, Probable, and Possible Pesticide Incidents

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|---|---|---|---|---|---|
| 990247 | 9/24/99 | WPC | Adult male farmworker became symptomatic after he stepped into a hole containing insecticide and water. He rinsed off his foot and leg with water and changed his pants. He developed chemical dermatitis.<br><br>*Insecticide/Acaricide - Dichlorvos* | 1 | 3 |
| 990249 | 9/10/99 | L&I | Adult male developed respiratory difficulty following an insecticide application conducted 15 to 20 feet away. He did not recall feeling or smelling the spray.<br><br>*Insecticide/Acaricide - Permethrin, Tetramethrin* | 3 | 3 |
| 990250 | 10/4/99 | WPC | Adult female sprayed her roses and afterward developed eye irritation. The next morning, her eyes were swollen and red.<br><br>*Fungicide - Triforine* | 3 | 2 |
| 990252 | 10/1/99 | LHD | Three workers became ill after smelling a pesticide application for fleas in the building in which they worked. Only two workers felt comfortable being interviewed. Eye and respiratory effects were reported.<br><br>*Insecticide/Acaricide - Pyrethrins, Esfenvalerate, Chlorpyrifos, D-trans Allethrin, Mgk-264* | 2 (2) | 2 (2) |
| 990253 | 10/10/99 | WPC | Adult female sprayed her home siding and developed health effects when the pesticide spray blew into her face. She flushed her eyes for 15 minutes and sought treatment.<br><br>*Herbicide - Zinc Chloride*<br>*Fungicide - Myclobutanil*<br>*Insecticide/Acaricide - Permethrin* | 2 | 2 |

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|---|---|---|---|---|---|
| 990257 | 10/11/99 | WPC | Adult female set off three indoor foggers for spider control. One fogger went off in her face when she removed it. Her 13 year-old daughter was also exposed. Both had ocular and respiratory symptoms.<br><br>*Insecticide/Acaricide - Cypermethrin* | 3 (2) | 2 (2) |
| 990259 | 9/29/99 | L&I | Adult female landscaper smelled chemical odor coming from a lawn recently treated with a herbicide. She reported developing health effects.<br><br>*Herbicide - 2,4-D, Dicamba, Mecoprop (MCPP)* | 3 | 2 |
| 990260 | 9/17/99 | L&I | Sixteen year-old male apple picker developed respiratory symptoms while picking apples. Application records indicate fungicide was applied nine days before the incident.<br><br>*Fungicide - Thiram* | 3 | 2 |
| 990261 | 10/25/99 | L&I | ***Adult male laboratory technician applied an algicide to an incubation bath. A splash contacted his right eye and he felt immediate pain. Suffering a slight burn, he sought treatment.***<br><br>*Algicide - alkydimethyl benzyl ammonium chloride* | 1 | 2 |
| 990266 | 10/10/99 | WPC | An elderly female became symptomatic after shampooing with a lice shampoo and applying insecticide inside their home.<br><br>*Insecticide/Acaricide - Pyrethrum, Cyclopropanecarboxylate, Permethrin, Piperonyl Butoxide, Pyrethrins* | 2 | 2 |

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| Case Number | Exposure Date | Source | Incident Description Pesticide Type – Active Ingredient | Findings | Severity |
|---|---|---|---|---|---|
| 990272 | 10/13/99 | L&I | Adult male reported symptoms believed to be related to an outside pesticide application, while he was inside his office.<br><br>*Herbicide - Pendimethalin* | 3 | 3 |
| 990281 | 11/12/99 | L&I | Adult male thrift store employee picked up an aerosol can which had a leak. By handling the can and touching his face, his eyes were exposed.<br><br>*Insecticide/Acaricide - unknown 'bug bomb'* | 3 | 2 |
| 990283 | 10/10/99 | LHD | Three hunters complained of illness after handling a dog that was believed poisoned with an organophosphate insecticide.<br><br>*Insecticide/Acaricide - Diazinon* | 3 (3) | 3 (1)<br>2 (2) |
| 990285 | 9/20/99 | L&I | *Adult male PCO technician made an indoor insecticide application using a hand sprayer for crack/crevice treatment. He believes his exposure occurred through physical contact with insecticide on his hands.*<br><br>*Insecticide/Acaricide - Deltamethrin* | 2 | 2 |

# Department of Labor and Industries

**Department of Labor & Industries**
**Summary of Pesticide Inspections**
**1999**

| City, County, Inspection # | Pesticides involved | Number of employees exposed | Type of business | How exposed | Other Agencies Involved | Incident Date | First Report | Citations | Type of Inspection |
|---|---|---|---|---|---|---|---|---|---|
| Mt. Vernon Skagit 302183611 | Captan | 2 | Berry Farm | Application | None | NA | NA | **Serious**: $600 Respiratory protection program not in effect | Unprogrammed Inspection |
| Bellingham Whatcom 115204489 | Carbamate | 2 | Nursery greenhouse | Application None | None | NA | NA | **Repeat Serious**: $4000 Respiratory Protection selection, **Serious**: $4000 respiratory protection fit testing, medical evaluation, training | Programmed Inspection |
| Basin City Franklin 302217971 | None mentioned | 14 | Fruit orchard | Not specified | None | NA | 7/21/99 | **Serious**: $160 No drinking water cups Other allegations unfounded | Complaint**:** No restrooms, water, Not informed of pesticides |
| Pasco Franklin 302217724 | Malathion | 80 | Fruit orchard | Not specified | None | NA | NA | No Violations | Programmed Inspection |
| Yakima Yakima 302195706 | None mentioned | 15 | Nursery | NA | None | NA | 4/23/99 | No violation: Complaint allegations unfounded by interview and observation | Complaint: Mixing chemicals w/o gloves No eye protection Drinking vessel contaminated with chemicals |
| Othello Adams 302169073 | Guthion | 1 | Fruit orchard | In filed before REI | DOH | 6/29/99 | NA | **General**: not wearing water proof gloves; Illness unfounded, suspected flu | Referral: DOH 8-19-99 Ill after working in field |

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| Puyallup<br>Pierce<br>115286411 | Various herbicides and growth regulators | 1 | Bulb Farm | Application | WSDA | NA | 1/12/99 | **General**:<br>Improper Respirator<br>No posting of REI signs<br>Lack of training<br>Not following label instructions<br>Serious safety violations including failure to abate | Complaint:<br>No hazard communication<br>No MSDS<br>No protective equipment<br>Chemicals dripping on employees |
| Mattawa<br>Grant<br>302217690 | Various plus carbaryl | 1 | Fruit orchard | Application | WSDA | 4/22/99 | NA | **General**:<br>Not posting spray records | Referral:<br>WSDA, 5/21/99<br>Contact dermatitis after spraying |
| Royal City<br>Grant<br>302215744 | Lorsban | 2 | Fruit and Vegetables | Handling | DOH referral | 3/23/99 | NA | **Serious**: $300<br>Lack of handler training<br>No decontamination supplies<br>No washing facilities<br>No emergency eyewash<br>No posting of pesticide application information | Referral:<br>DOH 4/7/99<br>Handler had exposure to eyes to unknown pesticide, and again had exposure on a later date |
| Yakima<br>Yakima<br>302196381 | None mentioned | NA | Fruit Orchard | Pesticides are locked up | None | NA | 2/11/99 | No Violation | Complaint**:**<br>No restroom |
| Yakima<br>Yakima<br>302217377 | None mentioned | NA | Fruit Orchard | Pesticides locked up | None | NA | NA | No Violation | Programmed Inspection |
| Zillah<br>Yakima<br>302216353 | None mentioned | | Fruit Orchard | NA<br>Spray records present, Cabs and masks used | None | NA | NA | No Violation | Programmed Inspection |

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| Richland Benton 302215850 | Lorsban | 4 | Fruit Orchard | Handling | DOH referral | 3/22/99 | NA | **General**: Failure to notify illness incident All PPE use was appropriate | Referral**:** 4/8/99 Four applicators developed headaches, fever, muscle pains and weakness |
| Naches Yakima 302900188 | None mentioned | NA | Fruit Orchard | Pesticides in locked building | None | NA | NA | **General**: No first aider | Programmed Inspection |
| Mattawa Grant 302217500 | No pesticide evidence found | NA No spraying had occurred | Fruit Orchard | NA | None | NA | NA | No Violations | Referral: Drift from adjacent field |
| Ellensburg Kittitas 302195466 | Hydrogen phosphide gas | 2 | Hay Processing | Fumigation | None | NA | NA | **General**: Protect workers from exposure to chemical agents | Programmed Inspection |
| Sunnyside Yakima 302216650* | Lorsban Dormat spray | 1 | Vineyard | Drift | WSDA DOH | 3/8/99 | Undated | No pesticide violations General Safety violations | Complaint: Drift from adjacent field |
| Sunnyside Yakima 302218037* | Lorsban | 0 | Nursery | NA | WSDA DOH | 3/8/99 | Undated | No Violations | Complaint: Drift from this field to adjacent field |
| Wenatchee Chelan 302217419 | Propicanozole | 2 | Hop farm | Not specified | None | NA | NA | **General**: No eyewash bottle for handler | Programmed Inspection |
| Quincy Grant 302183710 | Organo-phosphate Cyhalothrin | 1 | Aerial applicator | Mixing | None | NA | NA | **Serious**: $480 Failure to wear proper personal protective equipment | Programmed Inspection |

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| Lind<br>Adams<br>302215710 | Organo-phosphate | 2 | Potato Farm | Handling product with applied pesticide | DOH | 4/17 to 2/3/99 | NA | **Serious**: Penalties $1660<br>no potable water, no water soap, or towels for washing, inadequate protective equipment, not providing/reading label, no training, no respirator supplied<br>**General**: failure to notify L&I of incident<br>Lack of pesticide poster | Referral:<br>4/28/99<br>Worker became ill while loading seeds |
| Mt. Vernon<br>Skagit<br>302183678 | Dicamba (Benzoicacid) herbicide | 1 | Golf course | Application | WSDA Referral | NA | NA | **General**:<br>No respirator program | Referral:<br>WSDA 6/28/99<br>Potential accident and health hazards |
| Othello<br>Adams<br>302217658 | Paraquat<br>Surfactant penetrant<br>Glyphosate<br>Endosulflan | 5 | Fruit orchard | Not specified | NA | NA | 4/26/99 | **General**: No posting of pesticide information in centralized area | Complaint:<br>No protection when spraying<br>No water near by for washing or showers |
| Othello<br>Adams<br>115296188 | Sulfur solution | 4 | Fruit Orchard | Drift/application | NA | 3/29/99 | NA | **Serious**: $1230<br>Lack of Washington facilities<br>Lack of Hazard communication<br>No emergency eye wash<br>Lack of training | Referral:<br>6/18/99<br>Inadequate eyewear |
| Bellingham<br>Whatcom<br>302183744 | Daminozide<br>Uniconazole | 2 | Wholesale nursery | Residues | NA | 7/28/99 | 7/29/99 | **Serious**: $2980<br>Inappropriate PPE<br>Labeling information not read<br>Lack of MSDSs<br>Entry before REI | Complaint:<br>Asked to enter building before REI had past |

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| Mt. Vernon<br>Skagit<br>302183579 | Imidacloprid (chloronicotinyl) | 3 | Potato | Dermal Contact | NA | NA | NA | **Serious**: $450<br>No gloves<br>No washing water/towels<br>Safety related: $600 | Programmed Inspection |
| Walla Walla<br>Walla Walla | None mentioned | No exposure | Asparagus | NA<br>Spraying stated but done by employer. No employee present | NA | NA | NA | **General**: field sanitation<br>Not pesticide related | Programmed Inspection |
| Orondo<br>Douglas<br>302900402<br>601123511 | Malathion | 65 | Fruit Orchard | No information | NA | NA | NA | **General**: No posting of spray records for last 30 days | Programmed Inspection |
| Mattawa<br>Grant<br>302195896 | None mentioned | 10 | Fruit Orchard | | NA | NA | NA | **General**:<br>Incomplete spraying records | Programmed Inspection |
| Ridgefield<br>Cowlitz<br>302190897 | Acephate | 48 | Berry Farm | Not specified<br>No application | NA | NA | 7/7/99 | **General**:<br>Hazard communication<br>Lack of accident prevention plan | Complaint:<br>Lack of sanitation |
| Quincy<br>Grant<br>302215959 | Not specified | 20 | Fruit Orchard | No exposure | NA | NA | NA | **General**:<br>Spray signs not removed | Programmed |
| Olympia<br>Thurston<br>302212782 | Benomtle,<br>Propoxur<br>Permethrin<br>Diazinon<br>Diflubenzuron | 9 | Mushroom grower | Application | NA | NA | 6/28/99 | **Serious**: $800<br>Respiratory protection<br>General: safety and confined space<br>Complaint unfounded | Complaint:<br>Entry before re-entry interval |

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|---|---|---|---|---|---|---|---|---|---|
| East Wenatchee Douglas 302196165 | None listed | 7 | Greenhouse | Not specified | | NA | NA | **General**:<br>No pesticide log<br>No hazard communication<br>Other safety program violations | Programmed |
| Mattawa Grant 115296121 | Paraquat Pendimethalin | 110 | Fruit Orchard | No exposure | Referred by DOH | 5/24/99 | NA | **General**:<br>Pesticide information not posted<br>Appropriate protection was used - respirators not required | Referral:<br>5/25/99 Applicator developed symptoms<br>Respirator not fit tested<br>May not be a licensed applicator |
| East Wenatchee Douglas 11207825 | Dursban | 2 | Structural Pesticide | Applying | NA | NA | NA | **Serious**: $160<br>Lack of PPE<br>General for other safety violations | Programmed |
| Ellensburg Kittitas 115301368 | Hydrogen phosphide gas | 2 | Hay processing/ shipping | Fumigation | NA | NA | NA | **Serious**: $800<br>Lack of monitoring before entry<br>General | Programmed |
| Shelton Mason 115285843 | Temphos Bendiocarb sulfuryl fluoride | 2 | Structural Pesticide | Fumigation | NA | NA | Not listed | **General**: Lack of annual respirator training | Complaint: undated |

# Appendix E

## WSDA Pesticide License Types

# WSDA PESTICIDE LICENSE TYPES

| License Type | Definition |
|---|---|
| **Commercial Applicator** | A person engaged in the business of applying pesticides to the land/property of another. This land can either be publicly or privately owned. Prior to license issuance, a Financial Responsibility Insurance Certificate (FRIC) must be filed with WSDA by the insuring company. |
| **Commercial Operator** | A person employed by a WSDA-licensed commercial applicator to apply pesticides to the land of another. This land can either be publicly or privately owned. |
| **Commercial Pest Control Consultant*** | A person who sells or offers pesticides for sale at other than the licensed pesticide dealer outlet from which they are employed. In addition, commercial consultants may offer or supply technical advice or make recommendations to the users of non-home and garden pesticides. They may also perform wood destroying organism inspections. Licensed and employed commercial applicators and commercial operators may act as commercial consultants without acquiring the consultant's license. |
| **Dealer Manager*** | A person who supervises the distribution of pesticides (other than home and garden products) from a licensed pesticide dealer outlet. |
| **Private Applicator** | A person who applies or supervises the application of a "Restricted Use" pesticide on land owned or rented by him or his employer for the purpose of producing an agricultural commodity. |
| **Private Commercial Applicator** | A person who applies of supervises the use of a "Restricted Use" pesticide on land owned or rented by him or his employer for purposes other than the production of an agricultural commodity. |
| **Public Operator** | A person who, while acting as an employee of a governmental agency, applies restricted use pesticides by any means or general use pesticides by power equipment on public or private property. Public operators may act as public consultants. (Public operators licensed only in the Public Health category are exempt from the fee.) |
| **Public Pest Control Consultant*** | A person who, while acting as an employee of a governmental agency, offers or supplies technical advice, supervision, aid, or makes recommendations to the user of pesticides other than home and garden products. Public Consultants may not act as public operators without the operator's license. |
| **Demonstration and Research Applicator** | A person who applies or supervises the use of any experimental or restricted use pesticide to small experimental plots at no charge. (Public employees performing research applications fall under the licensing requirements of the public operator.) |

***License does not allow the holder to use or supervise the use of a restricted use pesticide. Refer to other types for appropriate license.**