



Pesticide Illness Surveillance  
All Event Summaries (2016)

| Event  | Event Narrative   | # | Pesticide Product(s)<br>(EPA Reg. Number)   | Active<br>Ingredient(s)  |
|--------|---|---|---|--|
| 160001 | A 33-year-old female with asthma developed respiratory and gastrointestinal symptoms after setting off four insecticide foggers in the hallway and kitchen of her home. She didn't leave the house in time before being exposed to the fogger aerosol for a few minutes. She sought health care the following day. Her symptoms lasted about a week.  | 1 | RAID FOGGER K (004822-00452)                | 109702 -Cypermethrin   |
| 160002 | A 30-year-old male retail worker was stocking shelves with a concentrated quaternary ammonium compound. A bottle slipped, evidently the cap was loose and the concentrate splashed into his right eye. He flushed his eye at a water fountain because the eyewash station had rusty water the last time he tried it. He notified a supervisor and went to a local hospital emergency department (ED) several hours later. He missed 2.5 weeks of work. His eye healed over the next 6 months.   | 1 | 30 SECONDS SPRAY & WALK AWAY (087429-00001) | 069105 -Alkyl* dimethyl benzyl ammonium<br>*(50%C14, 40%C12, 10%C16)   |
| 160003 | A 26-year-old male maintenance worker at a property management company received corneal abrasions, a fractured hand, and multiple dermal injuries while using a pressurized, 2-gallon pump sprayer containing a 50-50 bleach-water solution. Residue of zinc sulfate may have been present on the exterior of the sprayer. After the sprayer had been lying on the ground for a while he picked it up, pressurized it, and began spraying moss on the sidewalk outside of his office. The container exploded while he sprayed and injured him. Emergency Medical Technicians (EMTs) arrived at the scene and transported him to the ED. He was off of work for two months due to his injuries. Washington Department of Labor and Industries (L&I) investigated and cited the company for several health & safety violations. | 1 | None  | 020501 -Chlorine<br>089001 -Zinc sulfate<br>WA00035-Unspecified bleach |
| 160004 | While standing on a ladder just below the roof of his house, a gust of wind blew moss-killer powder into the face of an adult male. He had applied the pesticide to his roof a week earlier and there had been no rain since that time and so the powder was still  | 1 | MOSS -B- WARE (010699-00001)                | 527200 -Zinc sulfate monohydrate                                       |

Extracted from DOH-334-391 (March 2018)

|        |  |   |   |  |
|--------|--|---|---|--|
|        | present on the roof. He developed upper respiratory symptoms that lasted 2 days.   |   |   |  |
| 160005 | A 33-year-old male worker was cleaning a roof for 1.5 hours, spreading the chemical to kill moss on the roof when wind picked up. It got on his skin and he inhaled some of it. He had dermal and respiratory symptoms. He sought medical care at the ED.  | 1 | None  | 089001 -Zinc sulfate   |
| 160008 | While treating a customer's roof for moss, a 27-year-old male roofer dropped a can of moss treatment product and it sprayed him in his right eye. He had eye protection, but it was pulled up onto his head at the time so his eyes were exposed to the spray. He developed ocular symptoms and sought medical care the same day.  | 1 | MOSS -B- WARE (010699-00001)  | 527200 -Zinc sulfate monohydrate                                     |
| 160012 | A 31-year-old male sought medical attention after being exposed for several days in his apartment to a pyrethroid insecticide containing beta-cyfluthrin. His girlfriend had applied it over a 2 or 3 day period for spiders. His symptoms were gastrointestinal, neurological, cardiac, and respiratory.  | 1 | None  | 118831 -beta-cyfluthrin  |
| 160013 | A 13-year-old male got lice shampoo in both of his eyes. His parents rinsed his eyes at home and then transported him to the ED. His eyes were painful and swollen shut. Corneal abrasions to both eyes, of unknown duration.  | 1 | None  | 067501 -Piperonyl butoxide<br>069000 -Pyrethrum                      |
| 160014 | A 3-year-old child accidentally sprayed his right eye with an undetermined amount of bug repellent. He arrived at the ED 20 minutes later where he was examined treated and discharged the same day. His symptoms were moderate in severity.   | 1 | BEN'S WILDERNESS 50%<br>FORMULA TICK & INSECT<br>REPELLENT (056575-00010) | 080301 -Deet   |
| 160016 | A 13-year-old female with a history of asthma received topical and oral treatments for scabies. There is no indication of use over what was prescribed. In addition, her parent applied an insecticidal hair cream for head lice that same evening. She reported mild stomach pain that evening and headache the next day. Her symptoms worsened and she was taken to Urgent Care facility a day and a half after application.   | 1 | None  | 109701 -Permethrin, mixed cis,trans<br>628811 -Ivermectin            |
| 160018 | A 32-year-old male was beside a railway getting ready to fish at the same time a railroad truck on the track was spraying a tank mix of 3 herbicides on both sides of the railway. He indicated that he stood between the lake and the railroad track and was unable to move out of the way of the spray. The truck passed approximately 15 feet away from him. He reports smelling herbicide odor and developing upper respiratory symptoms which persisted. He sought medical treatment the next day. DOH referred this incident to Washington State Department of Agriculture (WSDA) for investigation. | 1 | None  | 110201 -Prodiamine<br>129034 -Flumioxazin<br>417300 -Glyphosate      |
| 160020 | A 70-year-old male mushroom farm sanitation worker was pouring a corrosive disinfectant into a bucket of water and it splashed into his right eye. He was mixing the   | 1 | VERTICIDE GERMICIDAL<br>DETERGENT FORMULATED                              | 069105 -Alkyl* dimethyl benzyl ammonium<br>*(50%C14, 40%C12, 10%C16) |

Extracted from DOH-334-391 (March 2018)

|        |  |   |   |   |
|--------|--|---|---|---|
|        | solution to clean mats. He sought medical attention after flushing his eye for 10 minutes at the worksite. He was not wearing the required protective eyewear.   |   | FOR MUSHROOM FARM SANITATION (001839-00167) | 069149 -Didecyl dimethyl ammonium chl<br>069165 -Octyl decyl dimethyl ammonium<br>069166 -Dioctyl dimethyl ammonium chl |
| 160021 | A 48-year-old female poured moss killing product into a fertilizer spreader when it puffed up into her face. She awoke the next morning with eye, dermal, and respiratory symptoms. Symptoms worsened and she continued to flush her eyes at home. She sought medical attention.   | 1 | NULIFE RID-MOSS (064864-00020)              | 050507 -Ferrous sulfate monohydrate   |
| 160025 | A 46-year-old male grocery clerk was cleaning cutting boards in the meat department. He used bleach with hot water for several hours and developed respiratory health effects. He sought medical attention.  | 1 | None  | 014703 -Sodium hypochlorite   |
| 160027 | A mother and her three children were inside a community public library when grass and gravel around the exterior of the building were sprayed with herbicide. She reports that there was an odor inside and outside of the library and that she experienced respiratory and neurological symptoms soon after. She said that her 6-year-old son was coughing and complained of feeling "car sick" while still inside the library. She expressed concern about the applicator not using adequate safety measures and reported the incident to Washington Poison Center (WAPC) and WSDA. On interview 1 day after the incident, she said symptoms were still present and that she was on the way to take herself and her son to health care. Applicator was licensed and provided application information upon request. | 2 | ROUNDUP PRO CONCENTRATE (000524-00529)      | 103601 -Glyphosate-isopropylammonium  |
| 160029 | A 38-year-old pallet manufacturing company worker suffered chemical burns to his right hand and arm after bleaching wood pallets with a chlorine solution. The solution was applied with a pressurized hose sprayer. The worker was wearing gloves, but the solution soaked through them because the sprayer hose was leaking. He sought medical attention 2 weeks after the incident.   | 1 | None  | 020501 -Chlorine<br>O:WA00035-Unspecified bleach  |
| 160030 | An 18-year-old female student developed respiratory and neurological symptoms after she inhaled vapors from a bug-bomb application conducted at her home. She called the WAPC from her school and at that time her symptoms dissipated. She developed symptoms characteristic of an exposure to cypermethrin.  | 1 | None  | 109702 -Cypermethrin  |
| 160031 | A 75-year-old female thinks that moss killer got in her eye while applying. She saw an ophthalmologist. Almost 2 weeks later, her eyes were red and had discharge.   | 1 | MOSS B WARE (010699-00001)                  | 527200 -Zinc sulfate monohydrate  |
| 160032 | A 46-year-old male developed corneal abrasion and other ocular symptoms in his left eye after getting a moss-out granule in it. He sought medical attention the same day. He   | 1 | COOKE LAWN MOSS KILLER (000802-00509)       | 034902 -Ferric sulfate<br>034902 -Ferric sulfate  |

Extracted from DOH-334-391 (March 2018)

was not wearing the recommended eye protection during the application.

|        |  |   |   |  |
|--------|--|---|---|--|
| 160034 | A 37-year-old-female reports that she was trying to spray a fogger to control a bedbug infestation in her bedroom. Without reading the directions properly, she sprayed the fogger by hand and remained in her room for about 5 minutes. She experienced respiratory and neurological symptoms. She received medical care at an ED. Her symptoms improved after breathing treatments and pain medication. She was released when stable same day with instruction for follow-up in 2 days.  | 1 | HOT SHOT BEDBUG & FLEA FOGGER (001021-01674)  | 057001 -N-Octyl bicycloheptene dicarbox<br>067501 -Piperonyl butoxide<br>069001 -Pyrethrins<br>109303 -Esfenvalerate<br>129032 -Pyriproxyfen |
| 160036 | A family of 5 consisting of a 38-year-old pregnant female and her 47-year-old husband with 2 sons and one daughter ages 2 to 8, arrived 30 minutes after an application of a soil fumigant conducted at an orchard re-plant field located just adjacent to their property. The treated area was approximately 100 feet away their property. The application was conducted with a shank "V" type apparatus. The soil was tilled 3 times before the application with a tandem disk. The family arrived home and smelled what parents characterized as chemical odors emanating from the off-gassing after the fumigation. They developed a number of respiratory and ocular symptoms at that time and continued to have them for a number of days. They left the property approximately 1 hour after their arrival and came back to their home 3 hours later. As they arrived at the home they began again to experience respiratory and ocular symptoms. One parent experienced gastrointestinal symptoms 12 hours later. These symptoms relate toxicologically to exposure to 1, 3-dichloropropene and chloropicrin, active ingredients of the fumigant. None sought medical attention. According to WSDA, soils might not have been properly packed after the application to prevent off-gassing of the fumigant. | 5 | TELONE C-17 (062719-00012)  | 029001 -1,3-Dichloropropene<br>081501 -Chloropicrin  |
| 160037 | A 37-year-old male was exposed to pesticides that drifted from an air-blast spray application onto him while he was driving on a public road. The driver attempted to avoid drift by stopping his vehicle, so the applicator would see him. The applicator did not stop. He smelled the spray that lingered in his vehicle for approximately 15 to 20 minutes after the incident. He developed ocular and upper respiratory symptoms. He did not seek medical attention. WSDA collected swab samples from his vehicle and samples were positive for residues of the organophosphate in the tank mix. The ranch manager was provided information on ways to avoid spray drift.  | 1 | OMNI SUPREME SPRAY (005905-00368)<br>CHLORPYRIFOS 4E AG (066222-00019)<br>MICROTHIOL DISPERS (070506-00187) | 059101 -Chlorpyrifos<br>063502 -Mineral oil - includes paraffin oil<br>063503 -Aliphatic petroleum solvent<br>077501 -Sulfur                 |
| 160038 | A 24-year-old male licensed pesticide applicator was unloading a container at a pesticide storage facility when he got hit with some of the pesticide dust on his face, chest and arms. He went home and took a shower 30 minutes later. Eighteen hours after being exposed, he developed a number of gastrointestinal and neurological symptoms that included a rash in areas he had contact with the product. Twelve hours later, he sought medical treatment at an ED and left the facility without being   | 1 | None  | 014504 -Mancozeb   |

examined. He returned a day later as his symptoms continued. The applicator believed that his symptoms were due to foodborne illness and not to his exposure to the product. His dermal symptoms correlate with an exposure to this active ingredient.

|        |   |   |  |   |
|--------|---|---|--|---|
| 160039 | A 33-year-old female farm worker was asked to spray a plant growth regulator on young apple trees. She sprayed the product and wore safety glasses, long shirt and pants. Nevertheless, the pesticide felt on her face intermittently while she spraying it. She did not decontaminate and continue spraying. Later during the day she developed a number of neurological symptoms. She sought medical attention the same day and was discharged after the examination. There is limited information regarding the development of neurological symptoms after an exposure to gibberellin plant growth regulators in humans.   | 1 | PROMALIN PLANT GROWTH REGULATOR SOLUTION (073049-00041)  | 116901 -Benzyladenine<br>116902 -Gibberellin A4 mixt. with Gibber                     |
| 160040 | A 36-year-old male farmworker developed upper respiratory irritation and numbness in his mouth, with dizziness and nausea when he was exposed to pesticide residue while moving a box full of bottles of the fungicide. He went to the ED. Symptoms resolved same day.  | 1 | QUINTEC (062719-00375)   | 055459 -Quinoxifen  |
| 160041 | A 58-year-old male farm worker was asked to spray a tank mix that contained 4 pesticides that included and insecticide containing the organophosphate chlorpyrifos and sulfur to control powdery mildew. The worker sprayed 3 tanks on an apple orchard and during the application felt the spray hitting his rubber suit as the wind picked-up. He also could smell the pesticide even though he was wearing a respirator with an organic vapor filter. He sought medical attention 8 hours later, as he developed a number of gastrointestinal and neurological symptoms. He was later hospitalized for 2 days after cardiac arrhythmias were noted. He did not decontaminate after being exposed and indicated never being fit-tested to use a respirator. | 1 | BFR 440 SUPREME SPRAY OIL (007001-07781)<br>GOVERN 4E INSECTICIDE (062719-00220)<br>SUPER SIX LIQUID SULFUR (065343-00001) | 059101 -Chlorpyrifos<br>063502 -Mineral oil - includes paraffin oil<br>077501 -Sulfur |
| 160042 | A 13-year-old male drank water from a container that had dried herbicide residue. The male reported sore throat initially and he vomited the following day. He had no further problems and did not seek healthcare.   | 1 | LG712 CONCENTRATE HERBICIDE (071995-00057)   | 032201 -Diquat dibromide<br>103601 -Glyphosate-isopropylammonium                      |
| 160043 | A 74-year-old female with pre-existing respiratory problems, re-entered her home while her daughter was in the process of spraying an insecticide for bed bugs in an adjacent room. Later the same day, she developed respiratory distress. She was taken to the hospital the following day, where she was admitted for five days due to respiratory failure. At the time of the interview with her daughter six weeks later, she was doing   | 1 | None   | 129093 -Chlorfenapyr  |

better.

|        |  |   |  |  |
|--------|--|---|--|--|
| 160045 | A 47-year-old male, a 38-year-old pregnant female and their three children developed respiratory health effects when they returned to their home after an application to an apple orchard adjacent to their home. The father arrived home during the application, and smelled pesticide odor from the air blast sprayer 25 feet away. He developed gastrointestinal, respiratory and neurological symptoms and sought medical attention. The mother and children arrived home 5 hours after the application and also noted a pesticide odor and developed respiratory symptoms. The orchard manager had notified them in advance of the application, which is one reason why mother and children remained out of the area for 5 hours. WSDA investigated and samples on the residential property detected pesticide residues from the application. | 5 | PN ALL SEASON SPRAY OIL (002935-00546)<br>KUMULS DF (051036-00352)<br>LORSBAN ADVANCED (062719-00591)<br>TOPGUARD FUNGICIDE (067760-00075) | 059101 -Chlorpyrifos<br>063502 -Mineral oil - includes paraffin oil<br>063503 -Aliphatic petroleum solvent<br>077501 -Sulfur<br>128940 -Flutriafol |
| 160046 | A 28-year-old female noticed strong smell in kitchen of home as she cleaned. She opened a drawer where a mothball was placed (along with cabinets) and immediately developed dizziness and gastrointestinal symptoms. She was taken to the ED.   | 1 | HOME BRIGHT ORIGINAL MOTH BALLS (090253-00001)   | 061501 -Paradichlorobenzene  |
| 160047 | A 28-year-old male licensed pesticide applicator mixed pesticides for 3 applicators in an apple farm. He developed a rash after mixing 2 insecticides, a fungicide and fertilizers. On the last day of the applications he developed a rash after he took a shower at home. He wore the required personal protective equipment (PPE) that included a rubber suit and rubber gloves with a respirator. He was fit-tested for respirator use, but still was able to smell them. Studies suggest there is a relationship between allergic contact dermatitis and the use of chlorpyrifos. He was also mixing a fungicide containing flutriafol that has been known to cause moderate to severe skin irritation. The licensed applicator never had a skin reaction such as this one in 5 years mixing or applying pesticides.                          | 1 | GOVERN 4E INSECTICIDE (062719-00220)<br>TOPGUARD FUNGICIDE (067760-00075)  | 059101 -Chlorpyrifos<br>128940 -Flutriafol<br>063502 -Mineral oil - includes paraffin oil  |
| 160048 | While refilling an herbicide sprayer she was using to control thistle at her ranch, the bottle of herbicide concentrate slipped through her hand, splashing some of the product into her eye, and onto her skin. She was wearing some protective clothing at the time, but no protective eyewear. A little later, she developed a migraine (but also has a history of migraines), and eye pain and irritation. She sought medical attention the following day.   | 1 | CROSSBOW L HERBICIDE (062719-00260)  | 030053 -Butoxyethyl 2,4-dichlorophenoxy<br>116004 -Butoxyethyl triclopyr   |
| 160050 | A 41-year-old female and a 27-year-old female with her two daughters under the age of six stopped at a yard sale at a home next to an apple orchard. Outside the car, both women felt pesticide drift. The 27-year-old was on the passenger side with her 4-year-old daughter. Her other child was sleeping in the car with the windows raised. The women saw two air blast sprayers in the orchard. The closest sprayer was within 50 feet  | 2 | TOPGUARD FUNGICIDE (067760-00075)<br>PROACT (071771-00003)   | 006506 -Harpin alpha beta protein<br>128940 -Flutriafol  |

of their car and they thought that the applicator would stop. Both adults developed respiratory irritation and gastrointestinal health effects. The children did not report any health effects. The pesticide applicator reportedly couldn't see the car or his supervisor waving to him to stop the application. The women obtained pesticide information from the orchard's administrative office and went to the ED. WSDA investigated and samples were positive for off-target drift of the fungicide. Orchard management owns the rental home and implemented a communication plan regarding future pesticide applications for tenants.

|        |  |   |   |  |
|--------|--|---|---|--|
| 160051 | A 29-year-old female developed a headache and nausea after she felt mist on her face and arm from a pesticide application conducted next to her home. The application was made to a cherry orchard with an air-blaster. The orchard is located just approximately 30 feet away from her property fence line. The applicator was applying a plant growth regulator with an adjuvant containing ethylene glycol. She was getting ready to leave her home and get to her car, when she observed the applicator. She felt the spray on her arm and face and also breathed the spray. Thirty minutes later she developed a headache; and nausea within 2 hours. Her symptoms dissipated within hours; and did not seek medical attention. WSDA samples were positive for the active ingredient of the plant growth regulator within her property. The symptoms she experienced correlate with symptoms produced by an exposure to the adjuvant in the tank mix. | 1 | Kudos 27.5WDG (620970-00041)  | 112600 -Prohexadione calcium<br>068603 -Propylene glycol   |
| 160052 | A 70-year-old male developed upper respiratory symptoms, dry mouth, and burning on his lip, and developed a metallic taste in his mouth after spraying, spilling, and then wiping up an antimicrobial product he was using for mold at his residence. He was wearing gloves at the time. He sought medical attention twice during the subsequent two weeks following the incident. He did not want to be interviewed, so no additional details about the incident are known.   | 1 | MILTROL (004091-00012)  | 107401 -3-(Trimethoxysilyl)propyl dimethyl ammonium chloride   |
| 160054 | A 33-year-old male pesticide applicator developed number of gastrointestinal and respiratory symptoms after he mixed and sprayed a number of pesticides that included an organophosphate insecticide and a fungicide. While mixing the chemicals he smelled the products even though he was wearing a respirator he had been fit-tested just prior the application. He applied only one tank of product and had to stop due to nausea and vomiting. He sought medical attention after leaving work 8 hours later. This incident was referred to L&I for investigation after he alleged was asked to continue working after he reported was sick.   | 1 | LORSBAN-4E (062719-00220)<br>TOPGUARD FUNGICIDE (067760-00075)<br>HI SUPREME SPRAY OIL (071058-00002) | 059101 -Chlorpyrifos<br>063502 -Mineral oil - includes paraffin oil<br>063503 -Aliphatic petroleum solvent<br>128940 -Flutriafol |
| 160057 | A 49-year-old male pesticide applicator developed some intestinal and neurological symptoms after he sprayed an apple orchard with two insecticides and a fungicide. Fertilizers were also in the tank mix. He smelled the spray while he was applying it. He  | 1 | ERASER (062719-00220)<br>RALLY 40WSP (062719-00410)   | 059101 -Chlorpyrifos<br>063501 -Kerosene<br>063502 -Mineral oil - includes paraffin oil  |

|        |   |   |   |   |
|--------|---|---|---|---|
|        | wore a respirator, but was not fit-tested. He utilized an air-blast sprayer and following the application he washed his hands before eating at lunch time. Then he started developing symptoms and sought medical attention the same day. He was discharged after the examination.  |   | IAP 440 SPRAY OIL (071058-00006)                | 128857 -Myclobutanil  |
| 160059 | Two elementary school employees were taking a morning walk on a public road and were approximately ½ to ¾ mile from the school, when they reported hearing a noise like a tractor and smelling an odor. They felt moisture on their faces and their eyes began to sting. They turned around and ran back to the school. At one point they stopped and looked back to see a yellow-green mist coming from the orchards onto the road where they had been. Upon returning to school, they rinsed their eyes, faces, and hands. Person 1 characterized the odor as a sulfur-like smell and reported experiencing ocular and neurological symptoms immediately after feeling the moisture. Person 2 reported ocular, neurological, and upper-respiratory symptoms. Most symptoms resolved later that day without medical treatment, though person 2 reported neurological symptom (headache) that continued into the next day. WSDA was notified but did not investigate. Neither person wanted to file a formal complaint. | 2 | LIME-SULFUR SOLUTION (061842-00030)             | 076702 -Calcium polysulfide   |
| 160061 | A 29-year-old female thinned apple blooms with others when air blast spraying began in the adjacent apple block. The employer was the same for applicator and tree workers. There was a very strong odor. She felt burning but thought that the substance was benign. She discovered an itchy rash on her chest and hands, both of which were covered as she worked. She sought medical attention.  | 1 | REX LIME SULFUR SOLUTION (071096-00006)         | 076702 -Calcium polysulfide   |
| 160064 | A 25-year-old male developed a number of gastrointestinal, neurological and respiratory symptoms while he was tying-up pheromone disruptor strips to apple trees. He had been working 1 hour when he started developing symptoms. He sought medical attention 1 hour later and was discharged from the ED after examination. He wore cloth gloves and not chemical resistant gloves while he was tying-up the strips. The MSDS of some of these products require the use of chemical resistant gloves to handle the strips.   | 1 | None  | 078038 -(E)-5-Decen-1-ol<br>128906 -(Z)-8-Dodecen-1-yl acetate  |
| 160066 | A 38-year-old male employee at a vehicle sales company was at work outdoors when a plane spraying for gypsy moth flew overhead. The employee was unaware that his worksite was included in the gypsy moth application zone. Within minutes, he developed respiratory symptoms. He has pre-existing medical conditions and reports that he is sensitive to chemicals. He went home for the rest of the day and consulted with healthcare provider by phone.  | 1 | FORAY 48B (073049-00427)                        | 006402 -Bacillus thuringiensis subsp. kurstaki<br>006522 -Bacillus thuringiensis Subsp. Kurstaki<br>351 |
| 160067 | A 51-year-old male farmworker was spraying weeds in an orchard with a tractor ground sprayer. The gauge wasn't working and the hose burst from excess pressure. He was  | 1 | IAP GLYPHOSATE 4DS DUAL SALT HERBICIDE (071368- | 103601 -Glyphosate-isopropylammonium  |

Extracted from DOH-334-391 (March 2018)



|        |  |   |  |  |
|--------|--|---|--|--|
|        | saturated with herbicide. He went home immediately to decontaminate. He went to the ED.  |   | 00025)   | 103604 -Glyphosate, ammonium salt  |
| 160068 | A 27-year-old male with allergies and asthma developed ocular, gastrointestinal, neurological, and dermal symptoms the morning after spraying weeds using a backpack sprayer containing paraquat dichloride, a restricted-use pesticide. He was not licensed to use the product. He received spray on his hands and in his face. He wasn't wearing the required eyewear, chemical-resistant gloves, and NIOSH-approved respirator at the time. He sought medical attention the following day. His symptoms lasted about one day.   | 1 | GRAMOXONE SL 2.0 (000100-01431)  | 061601 -Paraquat dichloride  |
| 160069 | A 27-year-old male lawn worker breathed in a moss killing powder. He developed pain in his lungs and went to the ED 2 days later.  | 1 | None   | 050507 -Ferrous sulfate monohydrate  |
| 160071 | A 56-year-old chemically sensitive male drove around a truck, next to which 2 people were spot spraying the right-of-way with several herbicides for the city. Traffic was going around the truck, which was driving very slowly. He reportedly drove through a cloud of vapor. His windows were down and he immediately developed dizziness and nausea. He reported upper respiratory symptoms and pulled off the road. He consulted WAPC. WSDA investigated and swab samples from inside his vehicle were negative.  | 1 | TOTALKILL BRAND PRO WEED & GRASS KILLER HERBICIDE II (000524-00517) TRICLOPYR BEE + 2,4-D BEE (042750-00124) ROMETSOL HERBICIDE (083100-00002) | 030053 -Butoxyethyl 2,4-dichlorophenoxy<br>103601 -Glyphosate-isopropylammonium<br>116004 -Butoxyethyl triclopyr<br>122010 -Metsulfuron-methyl |
| 160072 | A 24-year-old machinery sanitation employee at a vegetable processing facility was sprayed in the eye with disinfectant. The hose he was using had kinked and it burst, spraying his eye. He wore safety glasses. He went to the ED.   | 1 | LIQUID CHLORINATED SANITIZER (001677-00052)  | 014703 -Sodium hypochlorite<br>075603 -Sodium hydroxide  |
| 160073 | A 40-year-old female farm worker developed symptoms after she entered a grass seed field next to an alfalfa field being sprayed by aerial application. She was one of 30 workers weeding the grass seed field located more than 150 yards from the application target. Within 30 minutes of detecting an odor, the worker said that she developed gastrointestinal, neurological and respiratory effects. She sought medical attention the same day. In addition to the active ingredient lambda-cyhalothrin, this product contains trimethylbenzene and naphthalene, both of which are volatile organic compounds. DOH referred this to WSDA. | 1 | NUFARM LAMBDA-CYHALOTHRIN 1 EC INSECTICIDE (000228-00708)  | 128897 -lambda-Cyhalothrin   |
| 160078 | A 64-year-old man with a history of COPD reports that he had been using Hot Shot Bedbug & Flea Killer to address a bedbug infestation. He sprayed carpet and bedding in his home repeatedly for the past week or so. He sought medical care at an ED 3 days after increase in cough and wheezing began, and was admitted to hospital with respiratory, cardiac, gastrointestinal, and neurological symptoms. He remained in  | 1 | HOT SHOT BEDBUG & FLEA KILLER 3 (009688-00269)   | 128722 -Prallethrin<br>128807 -gamma-cyhalothrin   |

Extracted from DOH-334-391 (March 2018)

hospital for 3 days until his condition stabilized.

|        |   |   |  |  |
|--------|---|---|--|--|
| 160081 | A 57-year-old male freight unloader developed ocular and dermal symptoms while unloading cases of a Roundup product from the back of a truck. While picking up a case, the contents of one of the 1-gallon containers broke, spilling product onto his shirt, pants, and shoes, and exposing his skin. He was wearing safety glasses at the time. He contacted the WAPC for advice. Shortly afterwards, he went home to remove his contaminated clothes and shower. By the following morning, his symptoms had resolved. He did not seek medical attention. | 1 | RD 1653 HERBICIDE<br>(071995-00047)  | 103601 -Glyphosate-isopropylammonium<br>128840 -Imazaquin, monoammonium salt<br>128943 -Imazapic-ammonium<br>217500 -Nonanoic acid |
| 160082 | A 22-year-old male licensed pesticide applicator was pouring a formulation of herbicide containing paraquat in a tank to be used in a grapevine when he accidentally spilled some of the product inside his chemical resistant gloves. He washed immediately, however, stated developing burning sensation in his skin 30 minutes later. He sought medical attention 2 hours later. His hand was decontaminated at the ED, but left the ED before he was examined. Later reported discoloration of the skin.  | 1 | None   | 061601 -Paraquat dichloride  |
| 160088 | Four employees: a 27-year-old female, a 36-year-old male, a 20-year-old male and a 23-year-old male in the production warehouse of an apple packaging company went to the ED after a gallon of chlorine was added to a water dump tray. Chemical trials with chlorine dioxide were conducted prior to the chlorine addition. Though the treated water had been rinsed several times the tank had not been fully drained and washed down. All four employees immediately developed respiratory and neurological symptoms and sought medical attention.       | 4 | None   | 020501 -Chlorine<br>020503 -Chlorine dioxide   |
| 160089 | Two sisters, ages 5 and 3 were playing in the grass and ate some. The 5-year-old went inside first, having to go to the bathroom. Both were taken to the ED after vomiting and having multiple gastrointestinal symptoms. The yard had been treated with an insecticide at least 3 days before. Label allows applications to vegetable gardens. Lettuce applications need to wait 7 days to harvest.  | 2 | ORTHO BUG-B-GON MAX<br>INSECT KILLER FOR LAWNS<br>(000279-03240)   | 128825 -Bifenthrin   |
| 160091 | A 46-year-old female farmworker was cleaning hops when mist from a ground rig application in the distance to apples drifted to where she and others worked. Winds were 5-10 mph. She and her crew were moved up a hill to work away from the spray, but she could still smell the pesticides. After about 4 hours, she developed respiratory and eye irritation and vomiting. She went to the ED. This case was referred by DOH investigator to WSDA.   | 1 | DREXEL CARBARYL 4L<br>(019713-00049)<br>INTREPID 2F AGRICULTURAL<br>INSECTICIDE (062719-00442)<br>TOPGUARD FUNGICIDE<br>(067760-00075) | 056801 -Carbaryl<br>121027 -Methoxyfenozide<br>128940 -Flutriafol  |
| 160093 | A 45-year-old male mechanic worked on spray application equipment. He developed a number of gastrointestinal, neurological and respiratory symptoms while handling the  | 1 | ANNEX LFR INSECTICIDE  | 128825 -Bifenthrin   |

|        |  |   |  |                                       |
|--------|--|---|--|---------------------------------------|
|        | spray application equipment used for seed planting. He was responsible for maintaining the spray application equipment in good working condition and that required handling the spray nozzles. He worked with the spray equipment for approximately 3 days before seeking medical attention after he realized his symptoms were due to a product he had not handled before. He wore the required PPE and still developed symptoms after handling the contaminated equipment.   |   | (000279-03302)   |                                       |
| 160095 | A 33-year-old female farmworker was working in an apple orchard and felt numbness and shortness of breath. An airblast sprayer was applying pesticide to thin apple trees in a neighboring block. The block is over 15 acres. She sought medical attention.  | 1 | LIME-SULFUR SOLUTION<br>(061842-00030)                 | 076702 -Calcium polysulfide           |
| 160099 | A 52-year-old female with asthma developed respiratory symptoms after her neighbor applied an herbicide product containing Glyphosate to blackberries on her property and on an adjacent easement, over approximately a 4-week period. She reported receiving overspray from the neighbor's applications while she was outside clearing raspberry cane and working in her garden. She sought medical attention numerous times over the subsequent weeks. WSDA investigated, but found no evidence of dead or dying plants in the section of her garden she identified.   | 1 | GLY-4 PLUS HERBICIDE<br>(042750-00061)                 | 103601 -Glyphosate-isopropylammonium  |
| 160100 | A 63-year-old male licensed pesticide applicator developed ocular symptoms after he was hit with a tank mix of 2 insecticides. He washed 3 minutes after he was exposed. He sought medical treatment 18 days later. The products in the tank mix are not considered corrosive or caustic. He wore safety glasses and still was exposed. The worker continued to have symptoms weeks after his exposure.  | 1 | None   | 056801 -Carbaryl<br>124002 -Novaluron |
| 160101 | A 77-year-old male turned on the heat in his apartment and within 15 minutes was choking. He sought fresh air. Six days before, the housekeeper had applied mothballs for ants. He asked them to be retrieved. He recovered 2 more mothballs later that day by the baseboard heater. WSDA investigated.  | 1 | ENOZ PARA MOTH BALLS<br>(001475-00039)                 | 061501 -Paradichlorobenzene           |
| 160102 | A 58-year-old male reports exposure to pesticides through drift from an airblast spray application to hop field adjacent to his residential property. He has a history of respiratory airway disease. He reports that he was outside tending to his animals when the application happened approximately 80 feet from him. He reports seeing the cloud of mist surround him and that he experienced an immediate exacerbation of respiratory symptoms and shortly after, new gastro-intestinal and neurological symptoms. He sought medical care for these symptoms. He expressed concern as well, for the health of the animals that he raises on his property for sale, and reports that they also may be impacted. | 1 | FANFARE 2 SC<br>INSECTICIDE/MITICIDE<br>(066222-00236) | 128825 -Bifenthrin                    |

|        |   |         |  |   |
|--------|---|---------|--|---|
| 160104 | A 53-year-old male apartment resident decided to place 2 aerosol foggers in his studio apartment to kill bedbugs. He released the 2 aerosol foggers and returned to the apartment just 1 hour later. He did not ventilate the room upon returning and felt sleep in it. When he woke up 4 hours later, he had developed a number of gastrointestinal and neurological symptoms. He sought medical attention 4 days later. It is recommended not to enter a room that has been tested for at least 3 hours; he entered 1 hour later.   | 1       | None   | 097805 -Deltamethrin<br>109701 -Permethrin, mixed cis,trans   |
| 160107 | Twelve female and one male farmworker ages 19 to 61 were working on hop vines while an aerial application to a neighboring alfalfa field occurred. The fields were located diagonally from each other and separated by a county road. Some of the workers were closer to the road and nearer the application area. Although none of the workers felt the spray mist on their skin, they reported odors and that they were breathing vapors from the application. Nine reported experiencing immediate onset of upper respiratory irritation and gastrointestinal symptoms while they worked. Pesticides applied included the active ingredients lambda-cyhalothrin, a pyrethroid, and dimethoate, an organophosphate. The tank mix also contained aromatic hydrocarbons in formulation. Eight workers sought medical treatment at the ED. One of them was transported via ambulance, six were transported by the employer and one drove herself. They reported gastrointestinal, neurological, and upper respiratory symptoms. Symptoms persisted for at least one of them, who sought medical treatment again 7 days later. The other four workers who reported illness did not seek medical attention. The incident was investigated by the Yakama Nation Environmental Management Program. | 1<br>11 | CHEMINOVA DIMETHOATE<br>4E (034704-00207)<br>UPI-2005 EXP-06 RUP<br>INSECTICIDE (070506-00121)                   | 035001 -Dimethoate<br>128897 -lambda-Cyhalothrin  |
| 160108 | A 2-year-old boy had ant bait in his mouth. His mother took it out of his mouth. The child vomited once and was taken to the ED. Upper-respiratory signs were identified on exam.   | 1       | COMBAT ANT BAIT F1<br>(064240-00030)   | 129121 -Fipronil  |
| 160109 | A 45-year-old female farm worker arrived to work in a hop field and could smell sprays from an air-blast application conducted 50 feet away from her. She smelled the vapors from the application for approximately 4 hours and then started developing respiratory and gastrointestinal symptoms. She sought medical attention the same day. Her employer did not ask her to decontaminate before leaving work and seeking medical attention.  | 1       | LEAF LIFE GAVICIDE GREEN<br>415 (034704-01028)<br>Deliver/CoStar WG (070051-<br>00069)<br>CX-9032 (070051-00107) | 006402 -Bacillus thuringiensis subsp. kurstaki<br>006518 -Bacillus thuringiensis subspecies<br>12 solides, spores, and insecticidal toxins,<br>016482 -Bacillus subtilis var. amyloliquefa<br>063502 -Mineral oil - includes paraffin oil |
| 160110 | Eleven men, ages 29-57, were exposed to fumes that originated from improperly discarded pesticide. A commercial garbage truck driver noticed smoke coming from his load. He notified emergency responders, who escorted the truck driver to the county landfill. The smoldering garbage was unloaded, and county personnel sorted through   | 10      | FUMITOXIN TABLETS<br>(072959-00001)  | 066501 -Aluminum phosphide  |

Extracted from DOH-334-391 (March 2018)

the trash with a backhoe while firefighters attempted to put out the fire. As water was sprayed, the fire got worse and small bags exploded into flames. At first the men stood close to the burning garbage but when the bags began to pop and the fire increased with water, they retreated about 100 feet. The driver left the scene and the others remained for about 20 more minutes before moving to an indoor office at the landfill. Personnel from a local seed company identified the small bags that contained Fumitoxin pellets, which they use to fumigate their warehouse. The active ingredient of the pellets is aluminum phosphide, which reacts with water to liberate phosphine, an extremely toxic gas.

All 11 men exposed were decontaminated and held under observation at the hospital from 24 to 48 hours. Many of the workers noticed an altered taste in their mouths, but no other symptoms were initially reported by them except for throat irritation. While under observation, 7 of them developed at least one respiratory health effect and 2 experienced gastrointestinal health effects. At least one of the men had respiratory effects that persisted through the following week.

WSDA investigated and found that the seed company employee who fumigated and improperly disposed of unspent pellets was not licensed. The restricted use pesticide had been purchased by a licensed former employee. Thirty-nine cloth satchels containing approximately 1250 pellets (some previously activated) were recovered in the burned trash. The pellets were applied 7 days earlier in the seed company's warehouse. The bags were discarded outside for 5 days and then thrown into the dumpster the same morning they were picked up.

|        |   |   |  |   |
|--------|---|---|--|---|
| 160111 | A couple ages 24 and 29 were working picking cherries early morning at a farm when an applicator showed up on the adjacent orchard to spray a tank mix of an insecticide with a plant surfactant. The applicator used an air-blaster to spray the chemicals. The couple was located approximately 50 meters away from the applicator, when they were hit with the spray mist. They both smelled and felt the mist. They contacted their supervisor to stop the application, but did not decontaminate or changed clothing. They continued working as the applicator continues spraying for 10 minutes until he stopped. Both developed some neurological symptoms and one developed eye irritation. They sought medical treatment the same day and were discharged after examination. This incident was referred to WSDA for investigation. | 2 | DANITOL 2.4 EC SPRAY<br>(059639-00035)                                 | 127901 -Fenprothrin<br>011501 -2-Butoxyethanol<br>068603 -Propylene glycol  |
| 160113 | A 37-year-old male farm worker developed a dermal irritation while he was working in an apple orchard and later picking cherries for the same employer. He was sure his symptoms started while he was thinning apple trees and not while he was picking cherries. Spray records provided by his employer indicate the apple trees were sprayed  | 1 | PN ALL SEASON SPRAY OIL<br>(002935-00546)<br>CYD-X PLUS (070051-00112) | 063502 -Mineral oil - includes paraffin oil<br>063503 -Aliphatic petroleum solvent<br>129090 -Codling moth granulosis virus |

|        |   |   |  |   |
|--------|---|---|--|---|
|        | 2 days earlier with a bio-insecticide and mineral oil. The restricted entry interval for the bio-insecticide was 4 hours and for the mineral oil is 12 hours. Prolonged or frequent repeated skin contact with mineral oil may cause allergic reactions in some individuals.  |   |  |   |
| 160114 | A 53-year-old male was sprayed with an herbicide containing glyphosate while he was refilling a container under pressure. He got hit with the herbicide on his face and also breathed the product. He developed a number of gastrointestinal and upper respiratory irritation symptoms and sought medical treatment at an ED 14 hours later. He was discharged after his examination.   | 1 | None   | 417300 -Glyphosate  |
| 160115 | A 54-year-old female farmworker was pruning trees in an orchard and spraying bleach repeatedly to disinfect. The gloves she wore tore and her hand got wet. She didn't realize until later that day. Her hand burned and she sought medical attention.  | 1 | None   | 014703 -Sodium hypochlorite   |
| 160116 | A 41-year-old female hotel employee got bleach in her eye as she sprayed a sheet. She went to the ED for eye irritation.  | 1 | None   | 014703 -Sodium hypochlorite   |
| 160119 | A 37-year-old male with history of asthma sprayed a pyrethroid in two corners of his garage for spiders. He inhaled some and began coughing and wheezing. He contacted WAPC and took albuterol.   | 1 | HOT SHOT SPIDER KILLER 3 (009688-00253)  | 128722 -Prallethrin<br>128897 -lambda-Cyhalothrin   |
| 160123 | Two men, ages 65 and 29, a fabricator and a welder at a farm were installing a chlorine tank. They were told that the existing tank was empty. In the process of replacing the tank, they realized it wasn't empty and were exposed briefly to chlorine gas. They developed eye and respiratory irritation and headache. They both went to the ER.  | 1 | None   | 020501 -Chlorine  |
| 160124 | A 14-month-old male began vomiting when he was put to bed. His parent sprayed insecticide labeled for use on pets around furniture in the home that day. The home reportedly had a very strong insecticide odor when the family returned after 3 hours. The toddler was taken to the ED twice in 48 hours. He developed diarrhea and coughing.  | 1 | SUPRA-QUICK MIST WITH IGR (002517-00107)   | 057001 -N-Octyl bicycloheptene dicarbox<br>067501 -Piperonyl butoxide<br>069001 -Pyrethrins<br>129032 -Pyriproxyfen |
| 160125 | A 20-year-old male air conditioning systems apprentice developed dermal symptoms on his forearms and face about a half hour after working on piping in the crawlspace of a customer's house. Unknown to the worker at the time, the homeowner had recently treated the crawlspace with bate blocks and a termiticide/insecticide. The worker was not wearing any PPE at the time. He sought medical attention the following day. His symptoms lasted about a day. | 1 | MAKI PARAFFIN BLOCKS (007173-00189)<br>MASTERLINE BIFENTHRIN 7.9<br>TERMITICIDE/INSECTICIDE (073748-00007) | 112001 -Bromadiolone<br>128825 -Bifenthrin  |
| 160126 | A 38-year-old male apple farm pesticide applicator developed a blister after he was exposed to a corrosive chemical agent used as a fungicide in apples. He was cleaning his  | 1 | INSPIRE SUPER (000100-01317)   | 000595 -Hydrogen peroxide<br>063201 -Peroxyacetic acid  |

Extracted from DOH-334-391 (March 2018)

|        |  |   |   |   |
|--------|--|---|---|---|
|        | air-blaster when water ran from his chemical resistant glove to his right forearm. He later developed a blister in the area of the arm he was exposed.   |   | JET- AG (081803-00006)                            | 128847 -Difenoconazole<br>288202 -Cyprodinil  |
| 160127 | A 59-year-old male received chemical burn to his left eye immediately after dumping a bucket of algaecide into his pool. Some of it splashed back into his eye. He was not wearing the required protective eyewear at the time. He sought medical attention the same day.  | 1 | HTH SUPER ALGAE STOP (001258-01287)               | 069104 -Alkyl* dimethyl benzyl ammonium<br>*(60%C14, 30%C16, 5%C18, 5%C12)<br>069154 -Alkyl* dimethyl ethylbenzyl ammonium<br>*(68%C12, 32%C14) |
| 160129 | A 24-year-old male wireless sales expert was trying to spray a disinfectant/sanitizer onto a cloth while working at a kiosk in a Costco store. While checking the spray nozzle, the can discharged into his face and left eye. He was not wearing any protective eyewear at the time. Immediately following the incident, he rinsed his eye at an eyewash station in the store, and then went to an ED for treatment. He was diagnosed with chemical conjunctivitis. | 1 | SAGINAW (067619-00029)                            | 001501 -Ethanol<br>068604 -Dipropylene glycol   |
| 160131 | A 44-year-old male farm worker got hit with glyphosate while he was making an application to kill weeds around a potato storage facility. The wind pick-up the spray and pushed it onto his face. He immediately washed at the eyewash station and after 2 days his eye started to itch. He noticed some inflammation and sought medical treatment 7 days later.   | 1 | None  | 417300 -Glyphosate  |
| 160132 | A 62-year old male inhaled insecticide when it blew back in his face while spraying from a ladder. He developed neurological and gastrointestinal symptoms. He also developed bradycardia. He went to the ED.  | 1 | SPECTRACIDE WASP & HORNET KILLER 3 (009688-00190) | 128722 -Prallethrin<br>128897 -lambda-Cyhalothrin   |
| 160134 | A 72-year-old male spot sprayed herbicide on hill for 4 hours without PPE. Winds changed, and he reported inhaling and could taste the herbicide. Within a couple of days, he reported tasting it and developing respiratory symptoms, fatigue and dizziness. He consulted WAPC.   | 1 | 2,4-D LV4 (001381-00102)                          | 030063 -Acetic acid, (2,4-dichlorophenoxy) ester  |
| 160135 | A 71-year-old male sprayed almost half of an insecticide aerosol with petroleum distillates throughout his bedroom, under the bed, on the ceiling. He didn't leave the rooms after spraying as instructed on label. Immediately afterwards, he developed allergic symptoms. He went to the ED 4 days later as hives worsened on his body.  | 1 | TERRO TOTAL ANT CONTROL III (000149-00018)        | 069001 -Pyrethrins<br>097805 -Deltamethrin  |
| 160136 | A 44-year-old male meat cutter at a wholesale meat production facility developed respiratory and gastrointestinal symptoms while at work over a 5-month period. He thinks his symptoms were the result of being exposed to an antimicrobial agent consisting of sodium chlorate and citric acid that is used on the meat and equipment belts to control pathogenic bacteria. He sought medical attention several times over the                                      | 1 | None  | 021801 -Citric acid<br>073301 -Sodium chlorate  |

following month. Because of concerns expressed by the case about possible worker health & safety violations, DOH referred this to L&I.

|        |  |   |  |   |
|--------|--|---|--|---|
| 160140 | A 77-year-old male farmworker was clearing weeds in an apple orchard when employees of the same farm were spraying about 150 feet away. He had gastrointestinal effects, difficulty breathing and blurry vision. Co-workers took him to the ED. His employer provided the organophosphate product registration number. He lost 2 days of work.   | 1 | ENVIDOR 2 SC (000264-00831)<br>DELEGATE WG INSECTICIDE (062719-00541)<br>DIAZINON 50W (066222-00010)<br>MANA ALIAS 4F (066222-00156) | 057801 -Diazinon<br>110008 -XDE - 175-J<br>110009 -XDE - 175-L<br>124871 -Spirodiclofen<br>129099 -Imidacloprid   |
| 160141 | Six people, ages 4 to 63, developed gastrointestinal and respiratory symptoms within 24 hours after various rooms in their house were sprayed with an insecticide for bed bugs. The spraying was conducted every weekend over a 3-month period. None of the six occupants sought health care, and their symptoms resolved in about 2 days.   | 6 | HOT SHOT BEDBUG & FLEA KILLER 3 (009688-00269)   | 128722 -Prallethrin<br>128807 -gamma-cyhalothrin  |
| 160142 | A 72-year-old woman reported exposure to drift of pesticides onto her from a ground-spray application happening to the school yard next to her home. She is recovering from treatments for cancer and is immunocompromised. At about 10:00AM she opened the windows of her home before taking her dog for a walk and that it was going to be a hot day. She walked her dog around the school and noticed that a sign warning of pesticide spraying was hooked to the side of the school's chain link fence. She wouldn't have been able to see that sign from her home. She returned to her home to close-up her house, and found that the smell had already permeated her home. Looking from a window, she reports that the application was taking place as close as 20 feet from her property. She began to experience difficulty breathing at about noon and contacted her health care provider. She experienced respiratory, neurological, and gastrointestinal difficulties following the application. On interview with DOH Investigator, she asked that the applicator not "get into trouble" as they were neighbors and she thought that they could work it out between the two of them. She specifically requested that DOH not report this to WSDA since she did not want to talk to anyone else about it and did not want her neighbor to lose his job over this. DOH contacted the applicator directly, requested spray records which he provided same day, checked his license through the WSDA website and discussed best practices with him. He said that he would no longer use herbicides in that manner and would notify his neighbor in advance of any other kind of treatment to the school field. | 1 | FOUNDATION TURF HERBICIDE (002217-00921)<br>GALLERY SC (062719-00658)  | 029802 -Dicamba, dimethylamine salt<br>030016 -Diethanolamine (2,4-dichlorophenyl) dimethylamine salt<br>116002 -Triethylamine triclopyr<br>125851 -Isoxaben<br>129081 -Sulfentrazone |
| 160143 | A 48-year-old female sprayed insecticide for fleas over a 3-day period. She inhaled fumes at times and could smell the insecticide afterward. The day after she stopped  | 1 | FLEACOR FLEA SPRAY FOR CARPETS & FURNITURE   | 069003 -Tetramethrin<br>069005 -Phenothrin  |



|        |  |   |  |  |
|--------|--|---|--|--|
|        | spraying, she developed a scratchy throat, then cough and wheezing. She sought medical attention a week later.   |   | (040849-00055)   | 129032 -Pyriproxyfen   |
| 160144 | A 27-year-old male pesticide applicator was mixing an insecticide and while he was pouring the pesticide in the tank the liquid ricochet in the tank and hit his face. He rinsed his face with water 1 to 2 minutes and continued working. He developed skin irritation within 2 hours and sought medical attention 2 weeks later. He was seen at the health care facility once and did not miss any days from work.   | 1 | FUJIMITE SEC MITICIDE/INSECTICIDE (071711-00019)   | 129131 -Fenpyroximate  |
| 160146 | A 28-year-old male farm worker was thinning apple trees when he started developing a dermal itching and irritation. The orchard he worked had been previously sprayed with a plant growth regulator that it is considered corrosive. He entered the field 5 days after the application. The Restricted Entry Interval of the product is 3 days; however, its half-life is 16 days. He sought medical attention 3 days after he developed symptoms.   | 1 | ETHEPHON 2SL (066222-00151)  | 099801 -Ethephon   |
| 160147 | A 44-year-old male and his 13-year-old daughter were riding a motorcycle. As they turned the corner of a county road, mist covered the road. A person in a tractor airblast sprayer occupied the other lane as he applied pesticide to a pear orchard. Father and daughter reported respiratory irritation and headache. WSDA investigated and sample results were positive for drift.   | 2 | NUPRID 2SC SOIL/FOLIAR INSECTICIDE (000228-00572)  | 129099 -Imidacloprid   |
| 160148 | A 65-year-old male was spraying ant aerosol then handled a fogger outdoors, thinking it was an aerosol. The fogger activated in his hands. He washed hands, but developed intense chest and upper abdominal pain. He went to the ED and presented with bradycardia and observed respiratory signs.   | 1 | EVERCIDE TOTAL RELEASE FOGGER 2485 (001021-01558)<br>TERRO ANT KILLER SPRAY 2 (001021-01691) | 057001 -N-Octyl bicycloheptene dicarbox<br>069001 -Pyrethrins<br>109303 -Esfenvalerate<br>109701 -Permethrin, mixed cis,trans<br>128722 -Prallethrin |
| 160150 | An adult male milk delivery driver entered a room in a dairy that was recently sprayed with an aerosol insecticide. The aerosol is used after each shift to reduce the number of flies in the dairy. He developed upper respiratory irritation symptoms. He called WAPC for advice with the name of the product applied. He did not seek medical treatment after he called the Poison Center.  | 1 | COUNTRY VET FARM AND DAIRY CV-80D FOR INSECT CONTROL (010807-00462)                          | 067501 -Piperonyl butoxide<br>069001 -Pyrethrins   |
| 160151 | A 21-year-old male who worked in a residential facility for the disabled developed ocular irritation after he was exposed to an herbicide containing 2,4-D mixed with water. He was spraying with a hand-pump sprayer without wearing eye protection. While he sprayed, the wind picked-up the spray hitting both of his eyes. He developed immediate burning sensation and rinsed his eyes for couple of minutes. He continued to have burning sensation and sought medical treatment the same day. | 1 | None   | 030010 -2,4-D, alkanolamine salt   |

|        |   |   |  |   |
|--------|---|---|--|---|
| 160152 | A 21-year-old male farm worker developed a number of ocular and upper respiratory symptoms due to the corrosive properties of bleach one day after he used a solution containing sodium hypochlorite to sanitize equipment at work. He sought medical attention 5 days later after he continued to have symptoms from his initial exposure and from a possible allergic reaction to sodium hypochlorite.  | 1 | None   | 014703 -Sodium hypochlorite   |
| 160153 | While doing yard work, a 57-year-old male sprayed an insecticide containing 17% DEET on his face, head, and neck for mosquito control. Shortly afterwards, he developed severe dermal symptoms on the treated areas. He sought health care two days later, and at least two more times after that over the subsequent week.   | 1 | REPEL INSECT REPELLENT UNSCENTED SPORTSMEN FORMULA 18 (000305-00040) | 047201 -Dipropyl isocinchomeronate<br>057001 -N-Octyl bicycloheptene dicarbox<br>080301 -Deet<br>080301 -Deet |
| 160154 | A 43-year-old male pesticide loader working at a farm accidentally was exposed to the insecticide diazinon after handling a bag of the powder and spilling it on his face, eyes nose and throat. He developed irritation in those areas of the body. He sought medical treatment the same day and was discharged after the examination. He did not develop cholinesterase inhibiting symptoms. It is unknown if he was wearing PPE at the time. Some tasks for products containing diazinon require the use of respirators with a dust and organic vapor filters. DOH was unable to locate this worker for interview.   | 1 | None   | 057801 -Diazinon  |
| 160155 | While attempting to discharge an insecticide fogger inside her home for cockroaches, a 59-year-old female accidentally sprayed herself in the face. She immediately developed respiratory, dermal, and cardiac symptoms. EMTs responded to her home, then transported her to a nearby hospital for further evaluation and treatment. She was discharged the same day. Her symptoms resolved later the same day.   | 1 | RAID FOGGER K (004822-00452)   | 109702 -Cypermethrin  |
| 160157 | Two adult men report exposure to pesticide drift from an herbicide application made by a Pest Control Professional to property adjacent to property owned by one of the men. The property that was sprayed borders a wetland sanctuary and the spraying happened along the base of the fence that divides the two properties. One person was on a ladder at the time, repairing a side an out-building closest to the application. Both men reported seeing the application and smelling the product. Both reported experiencing neurologic symptoms. One of them also reported upper-respiratory irritation and the other, gastro-intestinal and dermal symptoms. DOH reported the incident to WSDA and to Washington State Department of Ecology. DOH Investigator reviewed photographic evidence and confirmed distances on google-maps, and wind data from the National Weather Service Bremerton Airport station (about 4 miles away). | 2 | Ranger Pro (000524-00517)  | 103601 -Glyphosate-isopropylammonium  |
| 160158 | A 45-year-old male sprayed insecticide in his home for ants. He purchased the product online. The product is only for sale to licensed pest control operators. The label also indicates that the product is not for indoor use except for wall voids. After inhaling the  | 1 | TAURUS SC<br>TERMITICIDE/INSECTICIDE                                 | 129121 -Fipronil  |

Extracted from DOH-334-391 (March 2018)

|        |  |   |  |  |
|--------|--|---|--|--|
|        | insecticide, he developed respiratory symptoms and went to the ED.   |   | (053883-00279)   |  |
| 160163 | A 33-year-old male cannabis grower reported that he developed eye and respiratory irritation as he cleaned a bin with hydrogen peroxide. He sought medical attention.  | 1 | None   | 000595 -Hydrogen peroxide  |
| 160165 | An 18-year-old male maintenance worker at a credit union was accidentally sprayed in the face and eyes by a co-worker who was handling a pump-sprayer containing a Type II pyrethroid insecticide. The product was reportedly a concentrate that had not been diluted sufficiently. He developed ocular and dermal symptoms immediately following the exposure. He sought medical attention four days later where he was diagnosed with chemical burn and keratitis.   | 1 | CHEMSICO INSECTICIDE CONCENTRATE 25G (009688-00237)    | 128807 -gamma-cyhalothrin  |
| 160166 | A 38-year-old female farmworker rode in a car on her way to work at 5:25am along a farm road with her window down. They saw an airblast sprayer applying and stopped the car. The applicator reported that he thought the car was far enough away and resumed spraying. As the car drove past, the sprayer had just turned the corner and was spraying towards them. The passenger developed irritant symptoms to her face and eyes and a headache. She sought medical attention. The hops farm now blocks off farm roads during pesticide applications.   | 1 | QUINTEC (062719-00375)                                 | 055459 -Quinoxifen<br>006518 -Bacillus thuringiensis subspecies<br>12 solides, spores, and insecticidal toxins,  |
| 160167 | A 5-year-old female developed an itchy rash after sitting on a couch that had been sprayed with an insecticide for fleas. The next morning, her parent noticed a red, raised rash on the back of her legs and part of her arm. She went to the ER. She returned to the ED 3 days later as the rash had spread beyond initial areas of contact with couch.  | 1 | HARTZ ULTRAGUARD PLUS FLEA & TICK SPRAY (002724-00401) | 105402 -S-Methoprene<br>109701 -Permethrin, mixed cis,trans  |
| 160168 | While at his house, a 64-year-old male accidentally flicked a drop of an insecticide product containing DEET into his left eye. The cap on the product container had malfunctioned. He developed ocular symptoms immediately following the exposure, and sought medical attention the following day. He was diagnosed with corneal abrasion and conjunctival injection. His symptoms resolved within a week.   | 1 | None   | 080301 -Deet   |
| 160169 | Two landscapers, a 30-year-old male, and a 28-year-old female, were exposed to a mixture of six products being sprayed to plants by licensed pesticide applicators working on an adjacent property. One of the exposed landscapers was outside in the yard at the time. The other was inside a truck. They noticed spray go through the trees onto the property where they were working. They both smelled the spray and the landscaper who was outside also felt it on his skin and tasted it. Neither wore any PPE at the time. They estimate exposure duration to have been from three to ten minutes. They both developed respiratory, cardiac, neurological, and gastrointestinal symptoms after the incident. They were immediately taken across the street to a fire station where they | 2 | GRANDEVO (084059-00017)                                | 016329 -Chromobacterium subtsugae str<br>and spent fermentation media<br>016329 -Chromobacterium subtsugae str<br>and spent fermentation media<br>063502 -Mineral oil - includes paraffin oil<br>128935 -Solvent Naphtha (coal),150-200<br>179701 -d-Limonene<br>500740 -Oil of peppermint<br>597501 -Geraniol |

Extracted from DOH-334-391 (March 2018)

|        |  |   |   |   |
|--------|--|---|---|---|
|        | were deconned. One of the landscapers was then taken to a hospital ED. The other landscaper sought medical attention two days later. WSDA investigated and issued Notices of Correction for two separate pesticide application violations to the Commercial Applicator and both of the persons who made the application.   |   |   | 597700 -Oil of rosemary   |
| 160170 | An adult male developed eye irritation and a neurological symptom as wind blew herbicide on him from an application to a large grass field across the street from his home. Six family members at the home, ages 6-10 were playing outside and they came indoors, four of them coughing. No other health effects were reported and the family did not seek medical attention. There was no notification of pesticide application to the large field across the street from homes along the Puget Sound beach. A swab sample taken by WSDA from a window on the home was positive for herbicide residue.  | 1 | AIM EC (000279-03241)<br>STARANE ULTRA HERBICIDE (062719-00577)<br>NUFARM KAMBA MASTER HERBICIDE (071368-00034) | 029801 -Dicamba<br>030019 -Dimethylamine 2,4-dichlorophen<br>128712 -Carfentrazone-ethyl<br>128968 -Fluroxypyr 1-methylheptyl ester |
| 160171 | An 83-year-old male awoke with gastrointestinal and respiratory symptoms when his cat slept near his face. He had sprayed his cat's body with a home-use flea insecticide not for use on pets or people. He went to the ED.  | 1 | ENFORCER FLEA SPRAY FOR HOMES (040849-00053)  | 109701 -Permethrin, mixed cis,trans<br>129032 -Pyriproxyfen   |
| 160173 | A 56-year-old female resident and a 32-year-old female general manager of an apartment community developed neurological and respiratory health effects after fumes from 2 herbicides applied around an air conditioner (A/C) unit for the apt. permeated indoor air as the A/C ran. The resident also developed gastrointestinal symptoms. The management was unaware of the landscape applications. When the general manager entered the apt., she could immediately taste the pesticides. She did not seek medical attention. The A/C was then turned off and windows were opened to ventilate. Water was sprayed under the A/C unit. The next day when the resident turned on the A/C, she developed shortness of breath and went to the ED. WSDA investigated. The pesticide labels do not prohibit application near A/C units. Pesticide residue was not detected in a swab sample taken from A/C unit. | 2 | ROUNDUP ULTRA (000524-00475)<br>CROSSBOW (062719-00260)   | 030053 -Butoxyethyl 2,4-dichlorophenoxy<br>103601 -Glyphosate-isopropylammonium<br>116004 -Butoxyethyl triclopyr                    |
| 160175 | A 42-year-old female with asthma stood over a bug bomb and set it off, misunderstanding how to activate it. She felt burning in her airway, developed wheezing and severe coughing. Disoriented, she walked into a room that had just been fogged. Paramedics responded and took her to the hospital.  | 1 | RAID FOGGER K (004822-00452)  | 109702 -Cypermethrin  |
| 160176 | A 42-year-old forestry worker developed a rash along neckline every time he applied a certain herbicide. He sought medical attention.  | 1 | GARLON* 3A (062719-00037)   | 116002 -Triethylamine triclopyr   |
| 160179 | A 61-year-old female with asthma and chemical sensitivities developed respiratory, gastrointestinal, and neurological symptoms after re-entering her home. Her basement had flooded, and she had hired a water damage restoration company to remediate the   | 1 | SPORICIDIN BRAND<br>DISINFECTANT SOLUTION   | 064001 -Phenol<br>064002 -Sodium phenate  |

|        |  |   |  |  |
|--------|--|---|--|--|
|        | damage, including treating some of the water-damaged construction materials with an antimicrobial disinfectant containing Phenol. She moved out of her home during the remediation, but occasionally returned. Her symptoms developed whenever she returned to the house. When she entered the house, she noticed an odor. She sought medical attention at several different health care facilities the weeks following the restoration work.  |   | (008383-00003)   |  |
| 160180 | A 2-year-old male sprayed his face with herbicide, while playing in the garage with his parent. He cried, put hands in mouth and was coughing and vomited once. He was taken to the ED and had no other symptoms.  | 1 | None   | 417300 -Glyphosate   |
| 160181 | A 67-year-old man experienced a temporary allergic reaction after the can of Raid that he was using outside of his home malfunctioned and saturated his arm. He reports that instead of squirting continuously out away from him toward the nest where it was pointing, the nozzle failed and the product sprayed back at him. He experienced respiratory and dermal symptoms that lasted for about 2 hours then resolved without treatment.   | 1 | RAID WASP & HORNET KILLER (004822-00382)   | 059101 -Chlorpyrifos<br>069003 -Tetramethrin                         |
| 160182 | A 17-year-old male grounds worker for a large lakeside resort during the summer was asked to spray for spiders and weeds. It was the first and only time he worked with pesticides. The licensed applicator was on vacation. He applied a restrictive use herbicide and other pesticides without training or required PPE, including respirator and eye protection. The teen was told he could wear gloves and a dust mask if he wanted. He wore gloves when he mixed and loaded more herbicide. He sprayed weeds with a wand (from a 4-wheeler) for approximately an hour. He used a backpack sprayer to apply insecticide for spiders. He developed dizziness and nausea and vomited several times. He informed a supervisor, who advised him to rest. The teen decided to finish spraying the weeds and then went to the ED. L&I investigated and imposed multiple fines on the employer for safety violations. | 1 | DEMON MAX INSECTICIDE (000100-01218)<br>HARDBALL (005905-00549)<br>PARAQUAT CONCENTRATE (082542-00003) | 030001 -2-4,D<br>061601 -Paraquat dichloride<br>109702 -Cypermethrin |
| 160183 | A 47-year-old female sales employee of an electronic shopping company developed dermatitis around her eye when picking up a torn bag of potting soil with fungicide. She sought medical attention.   | 1 | PRO-MIX WITH BIOFUNGICIDE (074267-00001)   | 129082 -Bacillus subtilis MBI 600                                    |
| 160185 | An 83-year-old male RV park manager received spray in his face and eyes while treating building roof eaves for spiders with a pump-sprayer while at work. He was wearing glasses at the time, but no other eye protection. It was windy at the time. He developed ocular symptoms later that evening, and sought medical attention at two different health care facilities over the following two days, where he was diagnosed with  | 1 | TEMPO SC ULTRA PEST CONTROL CONCENTRATE (011556-00145)   | 118831 -beta-cyfluthrin  |

---

chemical burn and conjunctivitis. His symptoms lasted about 24 hours.

---

|        |   |   |   |  |
|--------|---|---|---|--|
| 160186 | A 16-year-old male worked for the summer at a farm alongside his father, a permanent employee. He was spraying weeds when the hose broke and the high toxicity herbicide splashed on his pants. He continued working for 5 more hours and showered at home. He told his father of the pain and skin irritation that evening and went to the clinic the next morning. He missed a week of work. L&I inspected the workplace and educated employer and employees about age-specific task restrictions in agriculture, PPE and other pesticide-related worker protection regulations that had been violated.   | 1 | PARAQUAT CONCENTRATE (082542-00003)   | 061601 -Paraquat dichloride  |
| 160187 | A 46-year-old male farmer and contract pilot experienced gastrointestinal, neurological, and cardiac symptoms shortly after inspecting a sweet cornfield that he had planted for the farm the previous Spring. The cornfield had recently been sprayed with an organophosphate and two pyrethroid insecticides; all of them Restricted Use Pesticides. Two of the products have 12-hour restricted entry intervals, and the other has a 24-hour restricted entry interval. The products also contain petroleum distillates. While in the field, he picked up a banjo ball valve that he saw on the ground. It was a hot day and the sun had heated the valve up, causing pressure to build inside. When he opened the valve, it sprayed him in the legs. He was wearing shorts at the time and no PPE. He sought medical attention at an ED the same day, where he was given at least one round of 2-PAM and admitted overnight. Although he experienced marked improvement after 2-PAM, he was continuing to experience headaches and nausea at the time of the interview a month after the incident. He lost two weeks of work as a result of his illness. The case was referred to WSDA. | 1 | F9114 EC INSECTICIDE (000279-03426)<br>DUPONT ASANA XL INSECTICIDE (000352-00515) | 109303 -Esfenvalerate<br>129064 -Zeta-Cypermethrin<br>059101 -Chlorpyrifos |
| 160189 | A 41-year-old woman used a can of Raid to kill ants in the kitchen and bathroom of her home. She has a history of asthma but it had been well managed for a few years. She reports that about 5 minutes into spraying, the can sputtered and she got a whiff of the spray. She smelled the spray and felt the spray on her hands and face. She stopped and exited the bathroom, closing the door behind her. She reports that she began to experience respiratory and neurological symptoms. She used her asthma inhaler but her symptoms increased during the night. She sought health care at the ED the next morning.  | 1 | RAID ANT & ROACH 17 (004822-00447)  | 004006 -Imiprothrin<br>109702 -Cypermethrin                                |
| 160190 | A 48-year-old female with a significant medical history and preexisting respiratory condition developed respiratory, gastrointestinal, and neurological symptoms after prematurely re-entering her home after discharging two insecticide foggers for bed bugs and spiders. She placed the foggers in her living room and bedroom. She did not air out the house upon reentering it. She sought medical attention at two different health care  | 1 | RAID FOGGER K (004822-00452)  | 109702 -Cypermethrin   |

facilities over the subsequent two days. Her symptoms lasted four days.

|        |  |   |   |   |
|--------|--|---|---|---|
| 160191 | A 28-year-old male farmworker sprayed weeds all morning with a backpack sprayer. The temperature was in the 90s and he wore waterproof coverall, required mask, gloves and eye protection. He was sweating and at 1pm his skin was burning. The protective overall was broken and herbicide had spilled onto his skin. He went home and decontaminated. He used an over-the-counter cream for his wound but it but it worsened, with increasing pain and bleeding. He sought medical care at the ED 9 days later.  | 1 | GRAMOXONE SL 2.0<br>(000100-01431)  | 061601 -Paraquat dichloride                                 |
| 160192 | A 10-year-old boy took a nap on a couch that had been sprayed with insecticide. The child awoke with headache and reported irritated skin. He showered twice. His symptoms persisted to the next day and he was taken to the doctor. The insecticide is for outdoor use only.  | 1 | IMIDACLOPRID 0.72% +<br>BETA-CYFLUTHRIN 0.36%<br>CONCENTRATE (072155-<br>00029) | 118831 -beta-cyfluthrin<br>129099 -Imidacloprid             |
| 160194 | A 25-year-old male service technician at an agricultural fertilizer and chemical company accidentally got herbicide in his eyes after removing his gloves and wiping his hands on his forehead and face while at work. He developed ocular symptoms that lasted about eight hours. He sought medical attention the same day, and was diagnosed with conjunctivitis.  | 1 | TRANSLINE (062719-00259)  | 117401 -Clopyralid, monoethanolamine s                      |
| 160195 | A 59-year-old female went to the ED after activating a fogger and remaining indoors for one hour. The windows were closed. She had gastrointestinal and respiratory health effects.  | 1 | HOT SHOT FOGGER WITH<br>ODOR NEUTRALIZER<br>(009688-00309)                      | 069003 -Tetramethrin<br>109702 -Cypermethrin                |
| 160196 | A 69-year-old female with chemical sensitivities, allergies, and a pre-existing skin condition developed neurological, ocular, and dermal symptoms after a licensed applicator treated her kitchen for ants with an insecticide containing chlorfenapyr. She noticed an odor after the applications. The applications were void injections underneath three cabinets in the kitchen. One of the cabinets contained a heating vent. The product label states not to apply the product into heating and air conditioning vents or ducts. She sought medical attention the following day, and numerous times after that. A day after the kitchen applications, she moved into her guest house. Her symptoms lasted two weeks. WSDA investigated and issued the company a Notice of Correction for misapplication of a pesticide, and for applying a pesticide while someone without proper PPE was present in the immediate area. | 1 | PHANTOM TERMITICIDE-<br>INSECTICIDE (000241-00392)                              | 129093 -Chlorfenapyr  |
| 160199 | A 16-year-old girl and her 40-year-old mother, both with prior history of asthma, were exposed to insecticide that emptied into their living space. Their cat knocked it over and the unused can was punctured. The can was empty when found. Mother and daughter were exposed 10 minutes before discovering the punctured can. The teenager   | 2 | HOT SHOT FLYING INSECT<br>KILLER3 (009688-00326)                                | 069003 -Tetramethrin<br>109701 -Permethrin, mixed cis,trans |

|        |  |   |   |  |
|--------|--|---|---|--|
|        | developed shortness of breath and went to the ED. Her mother developed sore throat.  |   |   |  |
| 160200 | A 47-year-old male licensed pesticide handler developed dermal symptoms after mixing and loading propargite for air-blast sprayer application to a cherry orchard. He was mixing soluble bags of the miticide and described having to use his hands to break-up clumps of the product before putting it in the spray tank. He wore rubber gloves and long sleeve chemical resistant clothing while handling the product, nevertheless the product contacted his skin. He developed symptoms the same day and obtained medical treatment 3 days later.  | 1 | OMITE-30WS (000400-00427)   | 097601 -Propargite   |
| 160202 | Three female employees at a manufacturing warehouse developed symptoms after inhalation of vapors emanating from a farm chemical container recycling facility located next to them. The buildings are separated by a wall and both buildings share an open outside yard where the recycling facility stores rinse pesticides containers. A container with the carbamate pesticide Oxamyl was open at the recycling facility and vapors moved from that container to the neighboring warehouse. Two employees developed mild symptoms after smelling a pesticide odor and the third employee smelled an odor approximately 18 hours later. None sought medical care. Warehouse employees report that this was not the first time they have noticed vapors (pesticide-like odors) emanating from the recycling facility. DOH referred the incident to Ecology. | 2 | None  | 103801 -Oxamyl   |
| 160204 | A 59-year-old male developed headache and coughing as multiple pesticide applications took place over a 2-week period for bed bugs in his building. His apartment was not treated. The lobby area was treated as he watched. There was no indication of ventilation as required by the label. The management didn't notify the residents, nor are they required to do so. WSDA investigated.   | 1 | EVERCIDE ESFENVALERATE 6.4% CS (001021-01815)<br>JT EATON KILLS BED BUGS PLUS (045385-00101)<br>MASTERLINE BIFENTHRIN 7.9<br>TERMITICIDE/INSECTICIDE (073748-00007) | 067501 -Piperonyl butoxide<br>069001 -Pyrethrins<br>109303 -Esfenvalerate<br>109701 -Permethrin, mixed cis,trans<br>128825 -Bifenthrin |
| 160205 | A 52-year-old male developed upper respiratory, ocular, cardio, and neurological symptoms after inadvertently exposing himself to a rodenticide product containing Bromethalin, while sweeping out his leased public storage unit. His symptoms lasted about four days. He sought health care five days after the event. While sweeping his unit, he noticed six rodenticide packets on the floor of the unit, two of which were open. The packets had been placed there by Public Storage management some months earlier for rodent control, but they neglected to inform him. WSDA investigated and issued the storage company a notice of correction (NOC) for applying a pesticide inconsistent with the product label, applying rodent bait packs where children & pets can access them, and not maintaining application records. As a result of their  | 1 | TOP GUN PELLET RODENTICIDE (067517-00072)   | 112802 -Bromethalin  |



|        |  |   |   |  |
|--------|--|---|---|--|
|        | investigation and NOC, the public storage company changed their policy so that only licensed pesticide applicators will handle pest control at their public storage facilities from now on, nationwide.  |   |   |  |
| 160208 | A 38-year-old male developed respiratory and gastrointestinal symptoms after re-entering a room after discharging six bug bombs in his home. He sought medical attention. No additional details about the incident are available.  | 1 | None  | O:WA00028-unspecified bug bomb   |
| 160209 | A 38-year-old unlicensed pesticide applicator working for a horticultural company was exposed to two different insecticides while he was spraying plants for mites and thrips in a greenhouse using a backpack sprayer. His exposure was primarily inhalation, but got some of the insecticide liquid on his skin. He was wearing PPE, but the full-face respirator he was wearing was faulty. He went home to shower, but within a half hour, developed neurological, respiratory, and gastrointestinal symptoms. He went to the ED that evening for further evaluation and treatment. He was discharged early the following morning. His symptoms lasted two days.   | 1 | AVID 0.15 EC<br>MITICIDE/INSECTICIDE<br>(000100-00896)<br>TALSTAR (000279-03225)                                | 122804 -Abamectin<br>128825 -Bifenthrin<br>122804 -Abamectin<br>128825 -Bifenthrin   |
| 160210 | A 46-year-old male with a history of asthma and 23-year-old twin brothers were driving in the mountains to go hunting. They noticed a strong smell in the air. The 46-year-old went outside to open a gate and noticed the small trees nearby were covered in an orange, oily substance. He noted a strong burning oil odor and developed eye irritation and respiratory health effects. One of the twins with a history of asthma and chemical sensitivity began to have difficulty breathing. The 46-year-old went to the ED. WSDA investigated. A commercial applicator had applied 3 herbicides to trees near the roadside that day for a forestry management company. Because this was a roadside application, "Forest Practice Application" rules were not required. Pesticide application signs are also not required to be posted at the entrance to logging roads. Two of the 3 products have re-entry intervals of 12 hours. | 2 | AQUANEAT AQUATIC<br>HERBICIDE (000228-00365)<br>GF-1529 (062719-00527)<br>ALLIGARE 2,4-D LV 6<br>(081927-00039) | 030063 -Acetic acid, (2,4-dichlorophenoxy) ester<br>103601 -Glyphosate-isopropylammonium<br>116001 -Triclopyr<br>116004 -Butoxyethyl triclopyr |
| 160211 | A 44-year-old male developed ocular symptoms and chemical conjunctivitis after exposing his eye to a copper-based wood preservative at his home. He sought medical attention the following day.  | 1 | GREEN'S CLEAR WOOD<br>PRESERVATIVE (066591-<br>00006)   | 024002 -Oxine-copper   |
| 160212 | A 60-year-old male social worker with a history of asthma and chemical sensitivity developed irritant health effects when he arrived to work Monday morning. The office had been fogged by a pest control professional for fleas Friday evening and the HVAC had not run over the weekend. He sought medical attention and missed multiple days of work. There were no other reports of illness in the office.   | 1 | TC 303 (000499-00540)   | 044312 -Dinotefuran<br>128722 -Prallethrin<br>129032 -Pyriproxyfen   |

|        |  |   |  |  |
|--------|--|---|--|--|
| 160213 | Two female high school students ages 16 and 17, both with a prior history of asthma, became ill after an insecticide aerosol with petroleum distillates was sprayed in the small, windowless school store in which both worked before school started. One of the students sprayed insecticide for the ants and swept up sand and dirt. The students understood that the insecticide, kept in the adjoining room, was there to use if needed. After approximately 40 minutes in the small room with insecticide and dust, the 16-year-old developed lightheadedness and began to have difficulty breathing. The 17-year-old also developed difficulty breathing and they went to the school nurse, who contacted paramedics. Both students went to the ED. Two boys working in the store didn't report any health effects. WSDA investigated. The insecticide is not labeled for school use.  | 2 | RAID ANT & ROACH 26<br>(004822-00596)  | 004006 -Imiprothrin<br>109702 -Cypermethrin  |
| 160215 | A 38-year-old female reports acute gastrointestinal symptoms after vacuuming up a boric acid containing flea powder she had applied to the carpets in her home. She reports that she followed label directions carefully. Her husband contacted Poison Control for care advice.  | 1 | RX FOR FLEAS PLUS (059111-00001)   | 011001 -Boric acid   |
| 160218 | A 70-year-old female developed respiratory, neurological, and gastrointestinal symptoms shortly after a County Weed Control applicator sprayed an adjacent, large blackberry patch with a mixture of two herbicides. She lives in an RV on the opposite side of the blackberry patch. She briefly went outside during the application to get her dog and noticed an odor. The application occurred on the side of the blackberry bush facing her neighbor's property. WSDA investigated and collected residue samples from her neighbor's shirt. Her neighbor had walked outside to talk with the applicator during the application. The neighbor's shirt tested positive for the herbicide's active ingredients, however the neighbor did not report symptoms. WSDA did not detect visible damage from the application on the side of the blackberry patch facing her neighbor's property and did not find any pesticide application violations. The 70-year-old resident sought medical attention two days after the incident. Her symptoms lasted about three days. | 1 | NUFARM RHOMENE MCPA<br>BROADLEAF HERBICIDE<br>(000228-00143)<br>CROSSBOW SPECIALTY<br>HERBICIDE (062719-00260) | 030053 -Butoxyethyl 2,4-dichlorophenoxy<br>030516 -MCPA, dimethylamine salt<br>116004 -Butoxyethyl triclopyr |
| 160220 | A 37-year-old male cattle feedlot worker developed respiratory and neurological symptoms after working in proximity to a footbath for cattle that contained formaldehyde. The formaldehyde is used to prevent foot and mouth disease in cattle. He smelled the formaldehyde while working with cattle. The foot bath was used for 10 days in which that time he experienced the symptoms. He indicated having the symptoms for over 10 days. He sought medical treatment 47 days after he developed symptoms.  | 1 | None   | 043001 -Formaldehyde   |

|        |  |   |   |  |
|--------|--|---|---|--|
| 160221 | A 28-year-old male apartment resident sprayed approximately half-gallon of an insecticide containing the deltamethrin in his apartment. He used a trigger pump sprayer to try to control a bed-bug infestation in his apartment. He developed a number of gastrointestinal and neurological symptoms after he stayed in the apartment with the windows closed during the application. He started experiencing symptoms a half-hour after he applied the product and sought medical attention 3 hours later. He was discharge after the examination.  | 1 | HARRIS HOME PEST CONTROL (000003-00011)       | 097805 -Deltamethrin                             |
| 160223 | Family members noticed a strong odor shortly after a contractor hired by their property manager removed a fiberglass shower in their bathroom, sprayed the wood behind it with a wood preservative product, then installed another shower. Three of the four family members (aged 45, 44, and 9) developed symptoms shortly after the application. Symptoms were primarily respiratory, gastrointestinal, and neurological. The other family member (a 10-year-old with kidney disease) was asymptomatic. The product contained copper naphthenate, oil, and a solvent, and is only intended for exterior use. Because of the lingering odors and health concerns, the family stayed in a hotel the evening of the application, and the following day. The family returned for a short time, then permanently moved to another residence. They consulted a Toxicologist, but did not seek health care. WSDA investigated and cited the applicator for misapplication of a pesticide. | 3 | COPPER GREEN WOOD PRESERVATIVE (066591-00001) | 023102 -Copper naphthenate                       |
| 160224 | A 64-year-old male electrician at a hazardous waste remediation site entered his mobile office building and noticed light fog in the air. He heard a machine running and saw mist coming from an aerosol fogger. He developed eye irritation and went outside, where he found the licensed pest management professional (PMP). The PMP accompanied the electrician inside to gather personal belongings and food. The electrician sought medical attention at the company health clinic. There were no postings on the door and no verbal announcements of the fogging. The electrician and PMP don't share the same employer. WSDA investigated.  | 1 | TC 262 (000499-00522)                         | 067501 -Piperonyl butoxide<br>069001 -Pyrethrins |
| 160226 | A 43-year-old male maintenance technician at a YMCA developed ocular symptoms and chemical conjunctivitis in his left eye after a pressurized chlorine line detached and sprayed him in the face, hair, and clothes with sodium hypochlorite solution. He sought medical attention the same day where he was treated, and diagnosed with chemical conjunctivitis.  | 1 | None  | 014703 -Sodium hypochlorite                      |
| 160227 | A 51-year-old female renter entered her home 1.5 hours after her landlord applied an insecticide containing imidacloprid and naphthalene. She developed immediate upper respiratory irritation and started to cough that continued for more than 30 minutes. She sought medical treatment same day and was discharged after examination. She had   | 1 | TEMPRID SC INSECTICIDE (000432-01483)         | 118831 -beta-cyfluthrin<br>129099 -Imidacloprid  |

Extracted from DOH-334-391 (March 2018)

been suffering from a cold and the exposure triggered an immediate response to the insecticide applied.

|        |  |   |  |   |
|--------|--|---|--|---|
| 160228 | AA 59-year-old male sought medical attention after he developed headaches and upper respiratory irritation. His landlord put insecticide granules to control ants in the dishwasher, kept out of use for 3 weeks. The tenant reported that the fumes from the dishwasher permeated the home's indoor air. The insecticide is labeled for outdoor use only, and granules are supposed to be watered in. Additionally, the landlord ran the dishwasher with the granules, contaminating wastewater, against label instructions. WSDA investigated and educated the landlord about the label instructions for pesticide usage.  | 1 | SPECTRACIDE ANT SHIELD HOME BARRIER GRANULES (009688-00181)                            | 128897 -lambda-Cyhalothrin                                  |
| 160229 | A 78-year-old male and his 49-year-old son reported respiratory irritation after they filmed Washington Department of Fish and Wildlife staff spraying pesticide into the lake by their property to kill fish. There were two formulations, a liquid and a powder that were each diluted then applied from multiple boats. Both diluted formulations were applied above water. Father and son were outside filming during the day-long applications. The application was estimated to be as close as 131 feet away from them. The father reportedly spent longer in an area called the cove, and noticed a strong smell when he removed the half mask he wore to talk into the video recorder. He developed dry heaves and weakness by early evening and was taken to the ED. The son did not seek healthcare. The father has sought healthcare multiple times for respiratory problems after the initial ED visit. There were no restrictions pertaining to bystanders during the pesticide applications to the lake. | 2 | CFT LEGUMINE FISH TOXICANT (075338-00002) ROTENONE FISH TOXICANT POWDER (089459-00032) | 071003 -Rotenone<br>071004 -Cube Resins other than rotenone |
| 160230 | An 86-year-old male developed irritation and redness in his left eye after putting a flea collar on his dog, then rubbing his eyes. The flea collar contained a pyrethroid insecticide. He flushed his eyes immediately afterwards, then sought medical attention at an eye clinic the following day. He was observed to have Retinopathy and macular edema, but it's not clear if that was related to the pyrethroid exposure, or independent of that. An interview was not obtained, so no additional details about the incident were available.   | 1 | SPCP4 (002517-00166)   | 097805 -Deltamethrin  |
| 160231 | A 28-year-old-male roofer was applying moss-out to a roof. He felt the product blow back into his eyes. He experienced immediate eye pain and came down off the roof and rinsed his eyes. He continued to work although he reports experiencing upper-respiratory and ocular irritation. He sought medical care at an E.R. 2 days after exposure for increasingly pain and swelling in and around his eyes. Ocular and dermal symptoms were observed upon exam and he was referred to an ophthalmologist.  | 1 | MOSS ASIDE (067702-00012)  | 079021 -Potassium salts of fatty acids                      |

|        |   |   |   |  |
|--------|---|---|---|--|
| 160232 | A 62-year-old male developed respiratory and cardiac symptoms after inhaling vapors from a bedbug and flea fogger. Paramedics responded to the patient's residence following the incident. Multiple attempts to obtain medical records to gather additional information about the incident were unsuccessful.   | 1 | HOT SHOT BEDBUG & FLEA FOGGER (001021-01674)  | 057001 -N-Octyl bicycloheptene dicarbox<br>067501 -Piperonyl butoxide<br>069001 -Pyrethrins<br>109303 -Esfenvalerate<br>129032 -Pyriproxyfen |
| 160233 | A 57-year-old male with history of asthma knocked over insecticide in his garage. It spilled on his legs. Close to the ground he cleaned it up and developed nausea and wheeze. He went to the ED the next day. His hat and shoes smelled so strong that he had to be decontaminated outside of waiting room.   | 1 | ORTHENE INSECT SPRAY (000239-02436)   | 103301 -Acephate<br>103301 -Acephate   |
| 160234 | A 46-year-old male potato processing plant sanitation worker got hit with a bleach solution while working on his shift. He felt the sanitizer hit his left eye and developed immediate pain. He sought medical treatment the same day. He was discharged after examination.   | 1 | None  | 014703 -Sodium hypochlorite  |
| 160235 | An 18-year-old male was using an aerosol spray for bedbug control in his home. The nozzle broke off during use, spraying him in the face and eye. He washed his face immediately. Initial symptoms were respiratory and ocular. He reports that his eye continued to sting for about a day, but he did not seek medical care.   | 1 | RAID MAX BED BUG & FLEA KILLER (001021-01767)   | 057001 -N-Octyl bicycloheptene dicarbox<br>069005 -Phenothrin  |
| 160238 | A 43-year-old female hotel housekeeper developed ocular symptoms after she accidentally pushed the trigger of a spray bottle containing bleach. She sought medical attention the same day and was discharged after examination.   | 1 | None  | 014703 -Sodium hypochlorite  |
| 160239 | A 20-year-old female hotel room attendant injured her eye while cleaning a shower with disinfectant. When she sprayed the glass door, it ricocheted into her eye, which she then rubbed. She had a corneal abrasion.  | 1 | COMET DISINFECTING BATHROOM CLEANER (003573-00054)  | 021801 -Citric acid  |
| 160243 | A 13-month-old child played with the family pet cat 4 hours after application of fipronil containing flea killer applied to cat. She began to experience respiratory and gastrointestinal signs within 2 hours of beginning to play with the cat. Resolved with no medical treatment.   | 1 | SERGEANT'S FIPRONIL SPOT-ON FOR CATS (002517-00137)   | 129121 -Fipronil   |
| 160244 | A 60-year-old male with a significant medical history sought medical attention multiple times after experiencing neurological, respiratory, gastrointestinal, and cardiac symptoms. There had been at least two different insecticide applications using at least two different products inside and outside his home. One of the products also contained petroleum distillate. One of the products he used inside his home was not approved for indoor use. He also applied a malathion lotion to his entire body and also bug bombed | 1 | SPECTRACIDE BUG STOP HOME BARRIER 2 (009688-00298)<br>SPECTRACIDE MALATHION INSECT SPRAY CONCENTRATE (046515- | 057701 -Malathion<br>128807 -gamma-cyhalothrin   |

Extracted from DOH-334-391 (March 2018)

|        |   |   |  |  |
|--------|---|---|--|--|
|        | his house twice using multiple foggers each time. The applications were done because he thought his house was infested with bird mites after removing a bird nest outside his bedroom.  |   | 00019)   |  |
| 160245 | A 24-year-old woman reports that a relative placed a large number of mothballs (more than 50) around her apartment during a visit last month. She has been experiencing gastrointestinal and neurological symptoms since that time, for which she has sought care with her physician. For the past 4 days, she has been gathering them up but is not sure that she has them all. At time of interview she was still nauseous but felt her symptoms had improved.  | 1 | ENOZ OLD FASHIONED MOTH BALLS (001475-00074)       | 055801 -Naphthalene  |
| 160248 | A 4-year-old child developed respiratory and gastrointestinal symptoms while in his apartment. The child's father noticed an odor and saw some misting coming from under the walls of his apartment unit at the time. It is suspected that the misting was from an insecticide fogger that had migrated from a neighboring apartment unit. Paramedics responded to the patient's residence following the incident. The child was taken outside for fresh air. The child's father decided not to seek further health care. Multiple attempts to contact the child's parents to obtain additional information about the incident were unsuccessful. | 1 | ORTHO HI POWER INDOOR INSECT FOGGER (000239-02429) | 057001 -N-Octyl bicycloheptene dicarboxylic acid<br>067501 -Piperonyl butoxide<br>069001 -Pyrethrins   |
| 160252 | A 27-year-old male working in an apple packing plant developed immediate burning sensation in his left eye after he was hit with a disinfecting solution containing sodium hydroxide. He used a 5 gallon pump-sprayer with a faulty nozzle accidentally directing the solution to his left eye. He was immediately taken to the eye wash station for a 15 minute eye wash. He was seen at a local ED within 1 hour. He was discharged after his eye was irrigated and treated with an anesthetic. The worker indicated he was not offered eye protection. His employer indicated eye protection is always offered.                                | 1 | None   | 075603 -Sodium hydroxide   |
| 160255 | A 58-year-old woman was spraying Roundup product on the yard outside of her home, when she sensed a bad taste in her mouth. She noticed product on her hands and rinsed-out her hands and mouth with the garden hose. The taste lingered, and she began to sense upper-respiratory symptoms. She sought medical care at an ED within an hour of detecting symptoms.   | 1 | ROUNDUP (005185-00276)                             | 040501 -Oils, jasmine<br>045901 -Hydrogen chloride (=hydrochloric acid)<br>069141 -Alkyl* dimethyl benzyl ammonium chloride<br>*(58%C14, 28%C16, 14%C12) |
| 170030 | A 78-year-old female put a fumigant pest strip on a cabinet in the entry way of her home when she moved in. Six months later, it was discovered by family members and removed. She had been hospitalized for respiratory-related health effects within the first 2 months of having the pest strip in her home.   | 1 | HOT SHOT NO-PEST STRIP2 (005481-00532)             | 084001 -Dichlorvos   |

