

Pesticide Illness Surveillance Agricultural Drift Event Summaries (2016)

Event	Event Narrative	#	Pesticide Product(s) (EPA Reg. #)	
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 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) CHLORPYRIFOS 4E AG (066222- 00019) MICROTHIOL DISPERSS (070506-00187)	059101 -Chlorpyrifos 063502 -Mineral oil - includes paraffin oil from 063503 063503 -Aliphatic petroleum solvent 077501 -Sulfur
160045	A 47-year-old male, a 38-year-old pregnant female and their three children developed respiratory	5	PN ALL SEASON	059101 -Chlorpyrifos

	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.		SPRAY OIL (002935-00546) KUMULS DF (051036-00352) LORSBAN ADVANCED (062719-00591) TOPGUARD FUNGICIDE (067760-00075)	063502 -Mineral oil - includes paraffin oil from 063503 63503 -Aliphatic petroleum solvent 077501 -Sulfur 128940 -Flutriafol
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 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.	2	TOPGUARD FUNGICIDE (067760-00075) PROACT (071771- 00003)	006506 -Harpin alpha beta protein 128940 -Flutriafol
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 068603 -Propylene glycol
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	2	LIME-SULFUR SOLUTION (061842-00030)	076702 -Calcium polysulfide

			I	
	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.			
160061	A 29-year-old female thinned apple blooms with others when air blast spraying began in the	1	REX LIME SULFUR	076702 -Calcium polysulfide
	adjacent apple block. The employer was the same for applicator and tree workers. There was a		SOLUTION	
	very strong odor. She felt burning but thought that the substance was benign. She discovered an		(071096-00006)	
	itchy rash on her chest and hands, both of which were covered as she worked. She sought medical			
	attention.			
160073	A 40-year-old female farm worker developed symptoms after she entered a grass seed field next to	1	NUFARM	128897 -lambda-
	an alfalfa field being sprayed by aerial application. She was one of 30 workers weeding the grass		LAMBDA-	Cyhalothrin
	seed field located more than 150 yards from the application target. Within 30 minutes of detecting		CYHALOTHRIN 1	128897 -lambda-
	an odor, the worker said that she developed gastrointestinal, neurological and respiratory effects.		EC INSECTICIDE	Cyhalothrin
	She sought medical attention the same day. In addition to the active ingredient lambda-		(000228-00708)	
	cyhalothrin, this product contains trimethylbenzene and naphthalene, both of which are volatile		,	
	organic compounds. DOH referred this to WSDA.			
160091	A 46-year-old female farmworker was cleaning hops when mist from a ground rig application in the	1	DREXEL	056801 -Carbaryl
	distance to apples drifted to where she and others worked. Winds were 5-10 mph. She and her		CARBARYL 4L	121027 -Methoxyfenozide
	crew were moved up a hill to work away from the spray, but she could still smell the pesticides.		(019713-00049)	128940 -Flutriafol
	After about 4 hours, she developed respiratory and eye irritation and vomiting. She went to the ED.		INTREPID 2F	
	This case was referred by DOH investigator to WSDA.		AGRICULTURAL	
	, ,		INSECTICIDE	
			(062719-00442)	
			TOPGUARD	
			FUNGICIDE	
			(067760-00075)	
160095	A 33-year-old female farmworker was working in an apple orchard and felt numbness and	1	LIME-SULFUR	076702 -Calcium polysulfide
	shortness of breath. An airblast sprayer was applying pesticide to thin apple trees in a neighboring		SOLUTION	
	block. The block is over 15 acres. She sought medical attention.		(061842-00030)	
160102	A 58-year-old male reports exposure to pesticides through drift from an airblast spray application	1	FANFARE 2 SC	128825 -Bifenthrin
	to hop field adjacent to his residential property. He has a history of respiratory airway disease. He		INSECTICIDE/MITI	
	reports that he was outside tending to his animals when the application happened approximately		CIDE (066222-	
	80 feet from him. He reports seeing the cloud of mist surround him and that he experienced an		00236)	
	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.			
160107	Twelve female and one male farmworker ages 19 to 61 were working on hop vines while an aerial	1	CHEMINOVA	035001 -Dimethoate

	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.	11	DIMETHOATE 4E (034704-00207) UPI-2005 EXP-06 RUP INSECTICIDE (070506-00121)	128897 -lambda- Cyhalothrin
160109	A 45-year-old female farm worker arrived to work in a hop field and could smell sprays from an airblast 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 415 (034704- 01028) Deliver/CoStar WG (070051- 00069) CX-9032 (070051- 00107)	006402 -Bacillus thuringiensis subsp. kurstaki 006518 -Bacillus thuringiensis subspecies kurstaki strain SA-12 solides, spores, and insecticidal toxins ATCC # SD - 1323 016482 -Bacillus subtilis var. amyloliquefaciens strain D747 063502 -Mineral oil - includes paraffin oil from 063503
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 (059639- 00035)	127901 -Fenpropathrin 011501 -2-Butoxyethanol 068603 -Propylene glycol
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	1	ENVIDOR 2 SC (000264-00831)	057801 -Diazinon 110008 -XDE - 175-J

	and blurry vision. Co-workers took him to the ED. His employer provided the organophosphate product registration number. He lost 2 days of work.		DELEGATE WG INSECTICIDE (062719-00541) DIAZINON 50W (066222-00010) MANA ALIAS 4F (066222-00156)	110009 -XDE - 175-L 124871 -Spirodiclofen 129099 -Imidacloprid
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
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 - Quinoxyfen 006518 - Bacillus thuringiensis subspecies kurstaki strain SA-12 solides, spores, and insecticidal toxins ATCC # SD - 1323
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) STARANE ULTRA HERBICIDE (062719-00577) NUFARM KAMBA MASTER HERBICIDE (071368-00034)	029801 -Dicamba 030019 -Dimethylamine 2 4-dichlorophenoxyacetate 128712 -Carfentrazone- ethyl 128968 -Fluroxypyr 1- methylheptyl ester