

SECTION II

2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

OREGON FIRE BRIDGE™

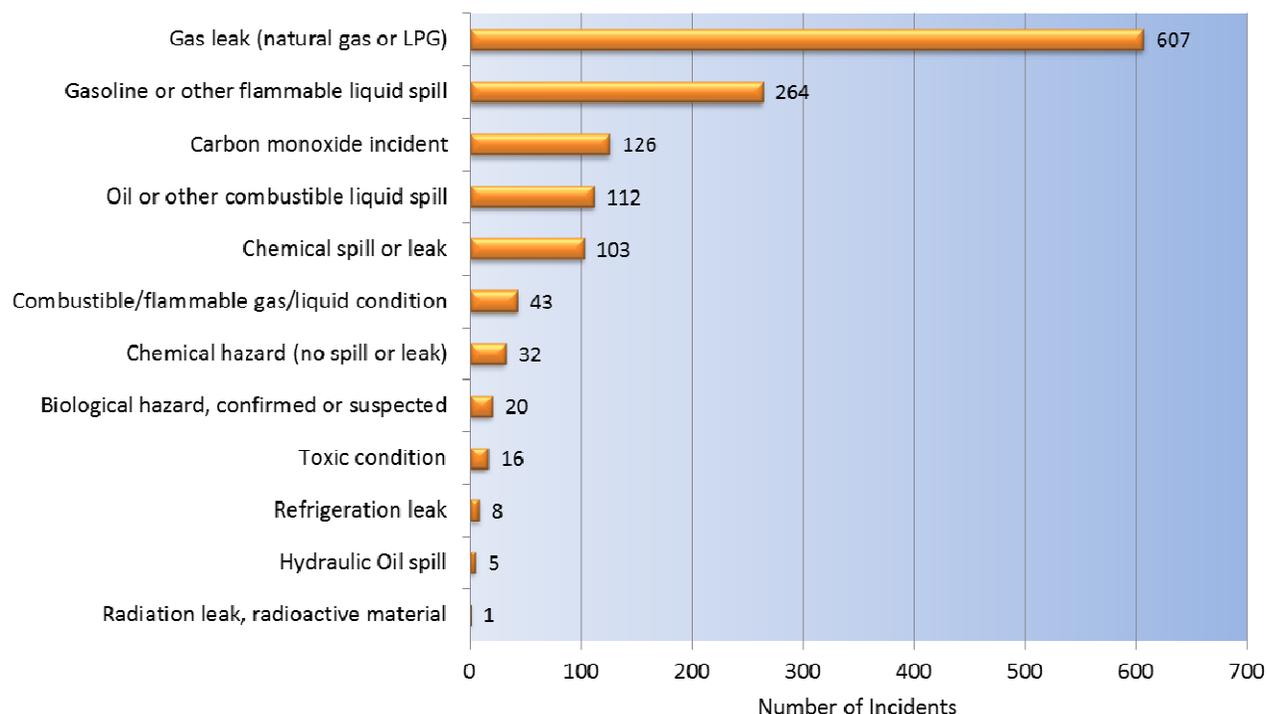
Under the Oregon Community Right to Know and Protection Act, those who respond to an incident involving hazardous substances must report information about that incident to the OSFM. The OSFM currently provides responders with an online incident reporting system called Oregon Fire Bridge™.

Fire departments and OSFM Hazmat teams reported 1,337 hazardous substance incidents in 2013. These incidents resulted in 34 civilian injuries and zero fire service injuries.

Using information collected in Oregon Fire Bridge™, this section presents several snapshot views of hazardous substance incidents in Oregon. More information can be requested by contacting the CR2K Information Assistant at 503-934-8353 or emailing sfm.cr2k@state.or.us or from our website at http://www.oregon.gov/osp/sfm/pages/cr2k_infoavailable.aspx

TYPES OF HAZARDOUS SUBSTANCE INCIDENTS

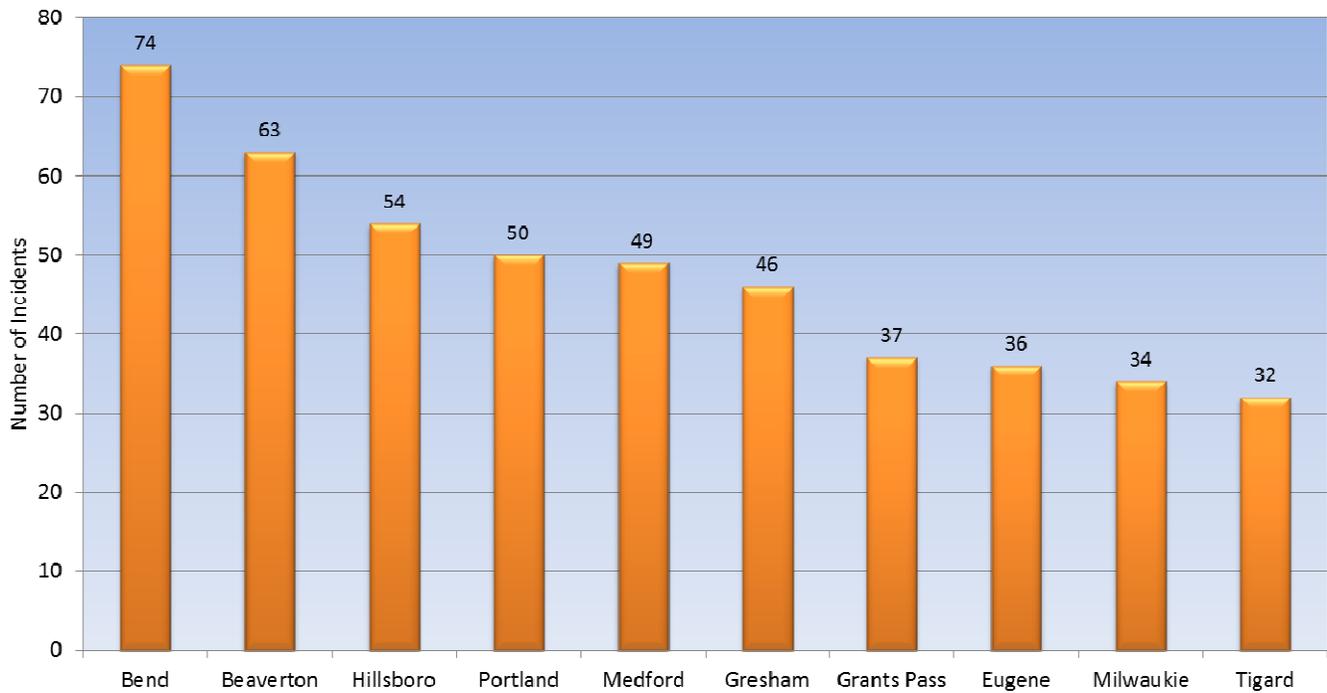
Incident reporters categorize hazmat incidents in one of several broad categories. These categories describe the general types of responses to incidents.



2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

CITIES WITH THE MOST REPORTED HAZARDOUS SUBSTANCE INCIDENTS

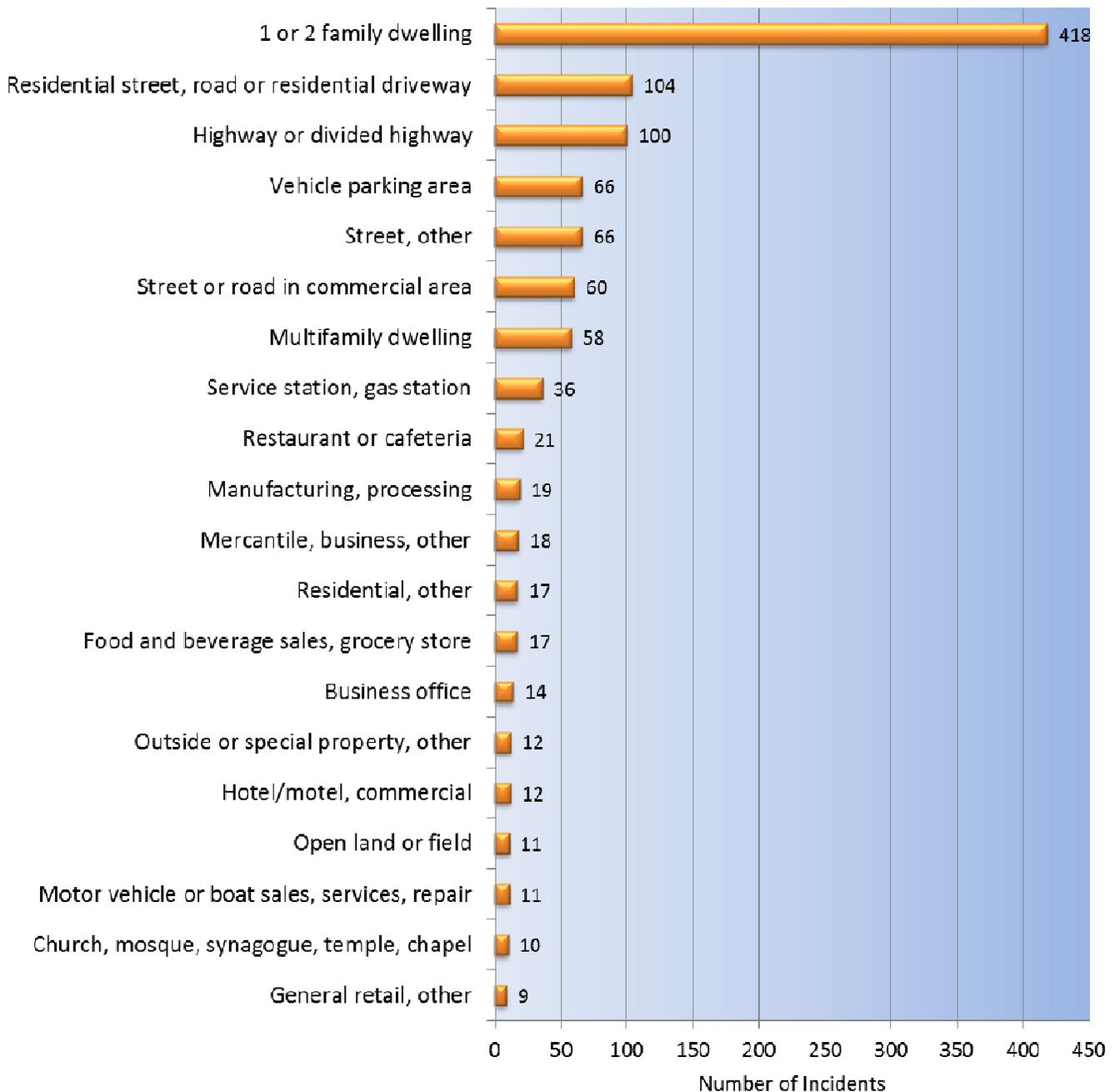
The following chart shows the 10 cities reporting the highest number of hazardous substance incidents.



2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

TYPES OF PROPERTY USES WHERE HAZARDOUS SUBSTANCE INCIDENTS OCCURRED

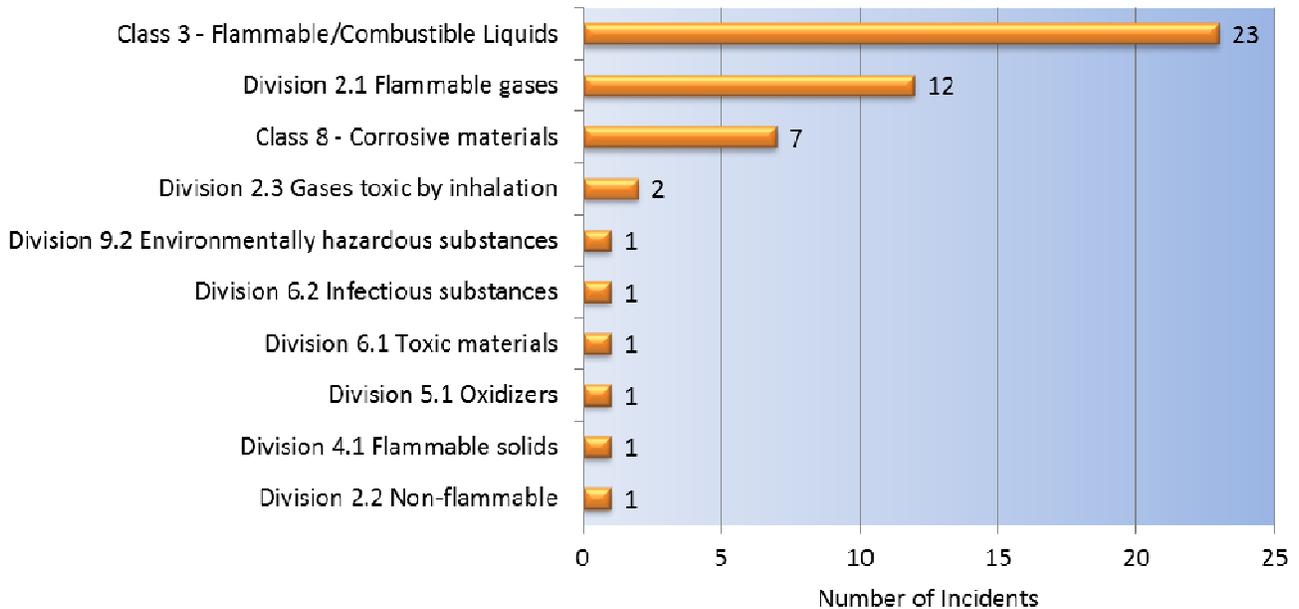
This chart shows the 20 types of property uses where the most reported hazardous substance incidents took place. This is a count only and does not reflect the severity of the incidents.



2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

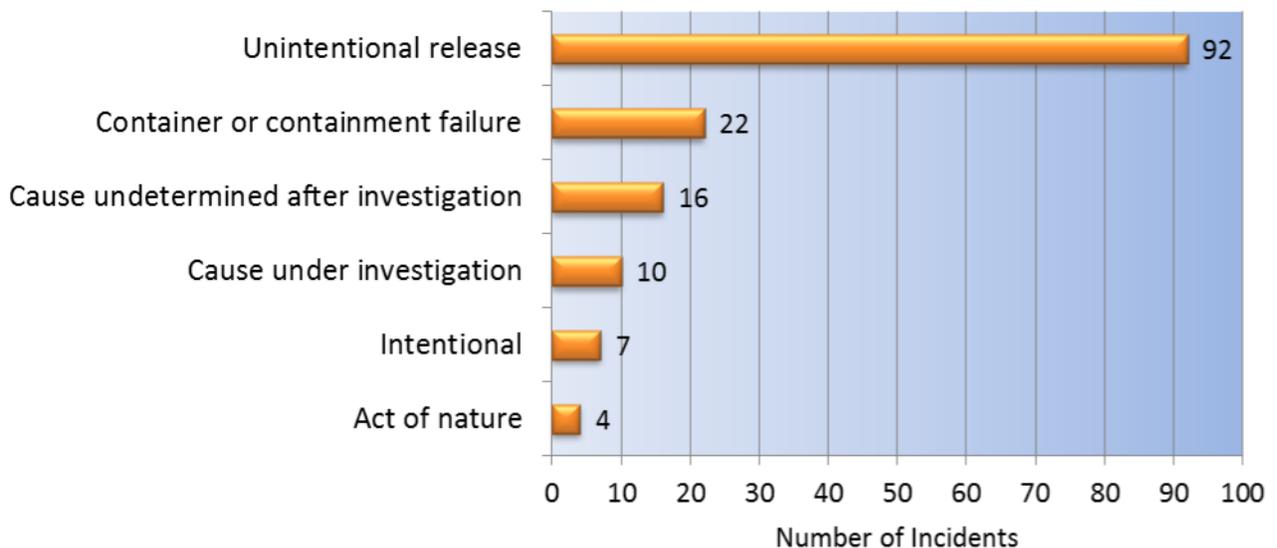
COUNT OF HAZARDOUS SUBSTANCE INCIDENTS BY U.S. DOT HAZARD CLASSES

The following chart was derived from reported incidents. The hazard classes of the substances involved were not always clearly stated in responder reports. Of the 1,337 hazardous substance incidents reported, only 50 are identifiable by the hazard class.



CAUSES OF HAZARDOUS SUBSTANCE INCIDENTS

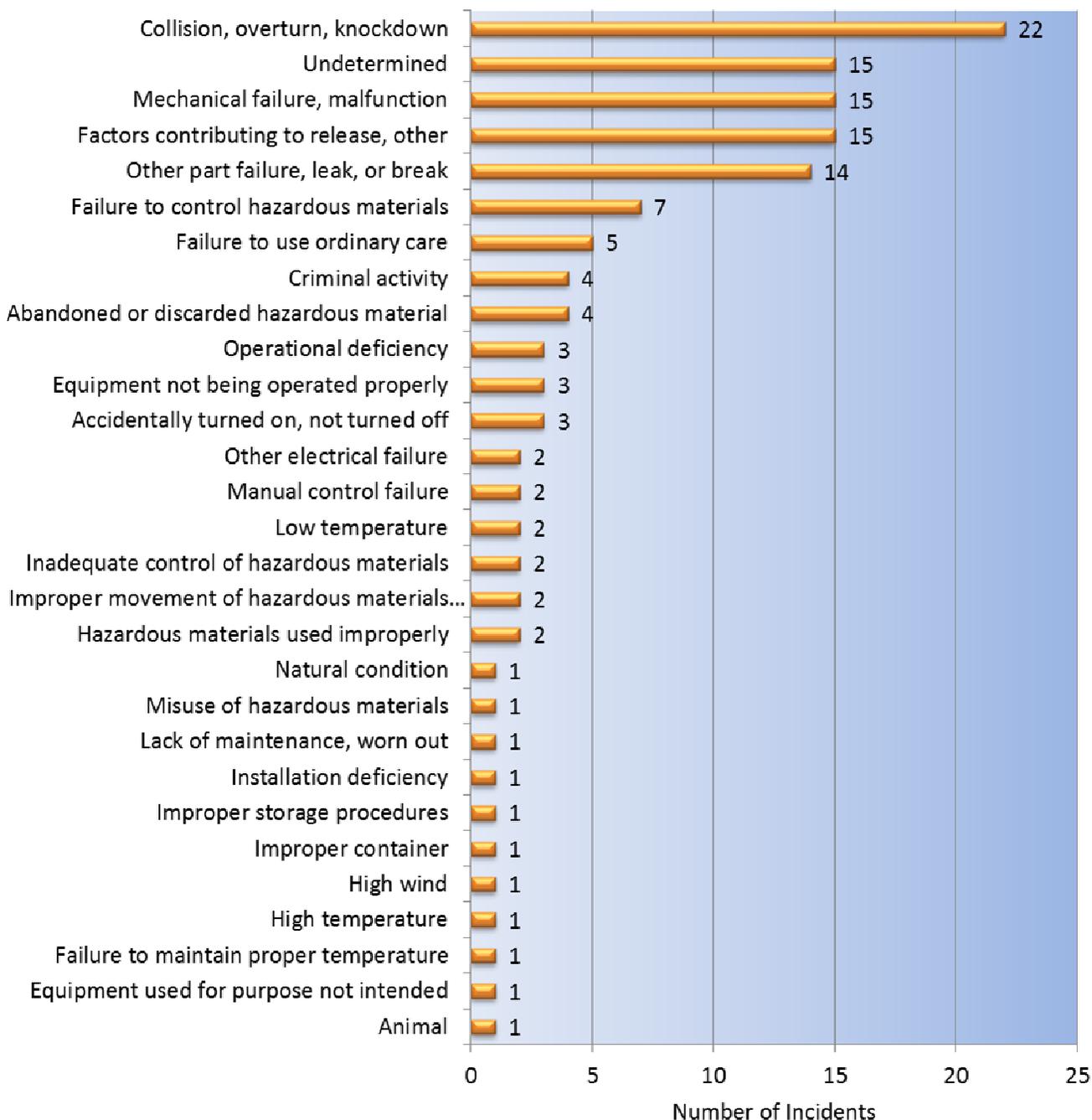
Several options are given for causes of a hazardous substance incident. Not all reports list the cause of an incident. This chart illustrates the reported causes.



2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

FACTORS CONTRIBUTING TO HAZARDOUS SUBSTANCE INCIDENTS

Several options are given for contributing factors to a hazardous substance incident. Not all reports list a contributing factor. The following chart lists the reported contributing factors.



2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

OREGON REGIONAL HAZMAT TEAM RESPONSES

Oregon's 13 Regional Hazardous Material Response Teams responded to 57 incidents in 2013. The following table shows the number of responses for each team color coded to a map of the Regional Hazardous Material Response Team boundaries on the following page.

Collectively, 32 different substances were identified by the Regional Hazardous Material Response Teams. These substances are listed in the second chart below.

Team	Number of Incidents
Team 1 Roseburg	3
Team 2 Eugene	2
Team 3 Gresham/Multnomah Co.	8
Team 4 Klamath Falls	4
Team 5 Linn/Benton	3
Team 7 Portland	12
Team 8 Medford	0
Team 9 TVF&R	5
Team 10 Hermiston	8
Team 11 Astoria	0
Team 13 Salem	6
Team 14 Ontario	6
Team 15 Coos Bay	0

Substance Name	Substance Name
White Powder	2,4-D
Diesel fuel	Peracetic acid
Sulfuric acid	Acrylonitrile
Petroleum	Phosphoric acid
Aluminum sulfate	Potassium
1,4-Dichlorobenzene	Potassium chromate
Aluminum (dust)	Diethylenetriamine
Ammonia, anhydrous	Sodium hydroxide(solution)
Nickel sulfate	Formaldehyde(solution, flammable)
Ammonium nitrate fertilizers	Acetic acid (Solution in Water 1-80%)
Silane	Water
Anhydrous ammonia	Acetone
Urea	ZP
beta-Butyrolactone	Gasoline
Mineral oil	Kerosene
Cadmium sulfate	LOX

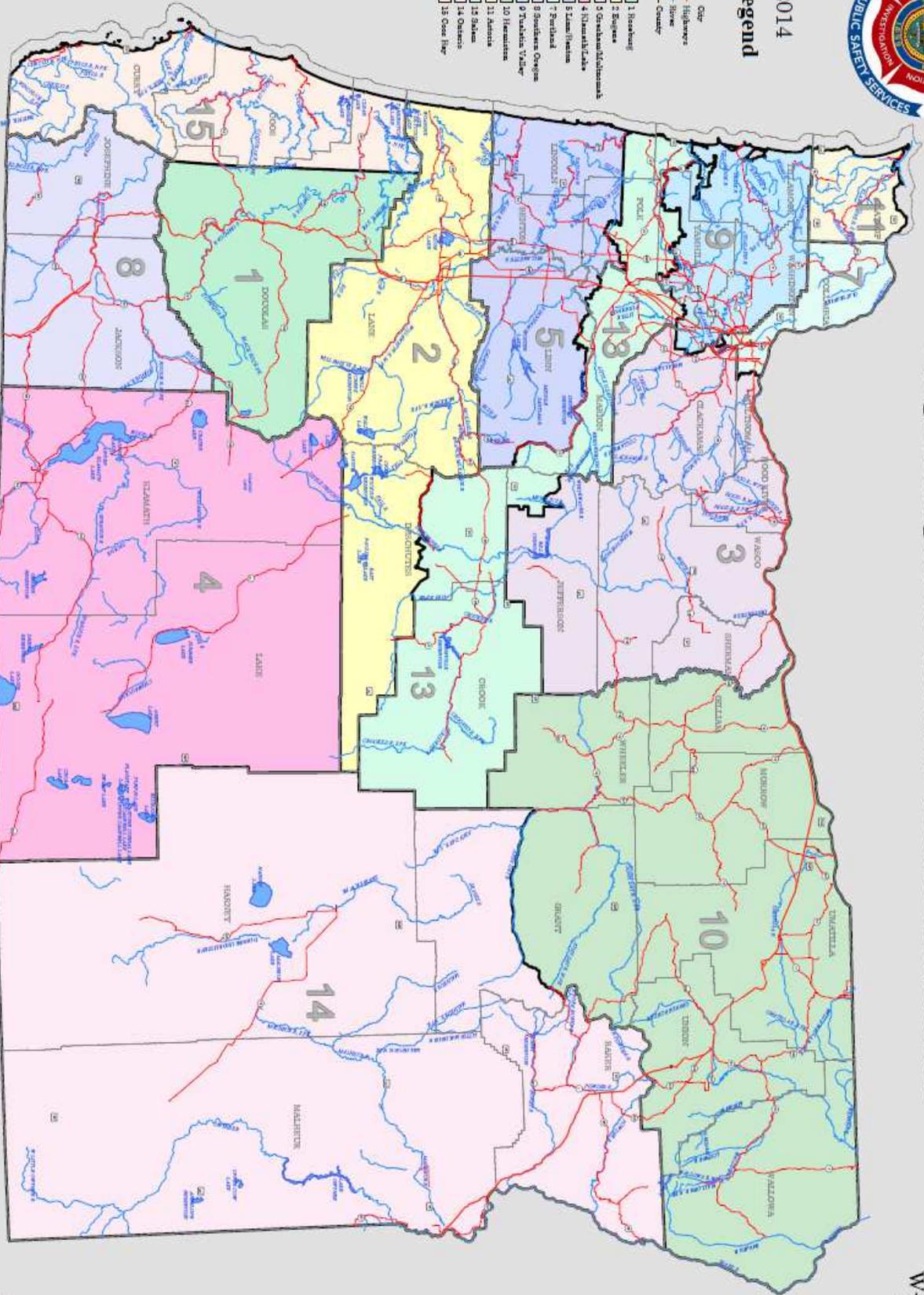


Oregon Regional HazMat Team Boundaries

2014

Legend

- City
- Highway
- Street
- County
- 1 Roseburg
- 2 Eugene
- 3 Gresham/Multnomah
- 4 Medford/Grants
- 5 Clatsop/Platine
- 7 Portland
- 8 Southern Oregon
- 9 Tualatin Valley
- 10 Medford
- 11 Astoria
- 12 Salem
- 14 Clatsop
- 15 Coos Bay



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2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

OREGON REGIONAL HAZMAT TEAM RESPONSES

Outreach

In 2013, Oregon Regional Hazardous Material Response Teams conducted 68 outreach events and training sessions across the state. Most training was conducted at local fire departments within the response regions and often included representatives from industries within the region. Outreach training conducted by the hazmat teams ensures local responders are prepared to respond quickly and safely, and assist the hazmat team in the event of a hazardous substance incident. The table below identifies the number of outreach events conducted by each team.

Telephone Advisory Calls

In addition to incident response, teams provide an additional resource through telephone advisories to local responders, industry representatives, and others throughout their respective regions. In 2013, the teams conducted 117 telephone advisory calls. The table below identifies the number of calls handled by each team.

2013 Regional HazMat Outreach	
Team #	Events
Team 1	10
Team 2	2
Team 3	5
Team 4	3
Team 5	4
Team 7	7
Team 8	2
Team 9	2
Team 10	6
Team 11	6
Team 13	6
Team 14	3
Team 15	12
TOTAL	68

2013 Telephone Advisory Calls	
Team #	Calls
Team 1	1
Team 2	0
Team 3	1
Team 4	4
Team 5	5
Team 7	61
Team 8	3
Team 9	15
Team 10	0
Team 11	1
Team 13	9
Team 14	2
Team 15	15
TOTAL	117

2013 HAZARDOUS SUBSTANCE INCIDENTS IN OREGON

REPORTED CASUALTIES FROM HAZARDOUS SUBSTANCE INCIDENTS

This chart shows the reported casualties associated with hazardous substance incidents in 2013. They are categorized by fire service personnel and civilian. They are further separated based on whether the injury or death was caused by the hazardous substance or by some other factor in the incident.

	Injury - Substance	Death - Substance	Injury - Other	Death - Other
Civilian	34	0	8	0
Fire Service	0	0	0	0
Total	34	0	8	0

The following is a brief description of the incidents reflected in these reported casualties:

Incident 1 - Two civilians were injured and 75 people were evacuated due to a refrigerant leak at a restaurant.

Incident 2 - Thirty two civilians were injured and 100 people were evacuated when freon-12 was accidentally released in a Safeway store.

Incident 3 - One civilian was injured when hydrochloric acid was spilled in a laboratory at Clackamas Community College.

Incident 4 - Two civilians were injured when a semi-tanker trailer crashed into a ditch and its tank ruptured, spilling approximately 3,500 gallons of gasoline. The injuries were due to the crash rather than exposure to the gasoline.

Incident 5 - Five civilians were injured when a truck rolled over and spilled approximately 250 gallons of highly toxic Tetramethylammonium Hydroxide. Four were injured by exposure to the chemical and one was injured in the crash.

175 people were evacuated in these incidents.