



WASHINGTON State

WORK-RELATED FATALITIES REPORT

2015



Research for Safe Work

SHARP Program

Washington State Department of Labor & Industries

1-888-66-SHARP www.lni.wa.gov/Safety/Research SHARP@Lni.wa.gov

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Washington State Department of Labor & Industries





The Fatality Assessment and Control Evaluation (FACE) Program at the Washington State Department of Labor and Industries collects data on all workplace acute trauma fatalities, regardless of workers' compensation insurance coverage for the deceased or whether the incident falls under the jurisdiction of L&I's Division of Occupational Safety and Health (DOSH) or the federal Occupational Safety and Health Administration (OSHA). The summaries below include all of these data, except where indicated. A complete listing of FACE products and more information on the program can be found on the FACE website at <u>www.lni.wa.gov/Safety/</u><u>Research/FACE</u> or by calling us toll-free at1-888-667-4277.

Washington FACE is one of seven state programs that have cooperative agreements with the National Institute for Occupational Safety and Health (NIOSH) to conduct surveillance, targeted investigations, and prevention activities at the state level using the FACE model.

Who is Included:

All people who were working in Washington State or the waters or airspace within or off of the state and died due to a work-related incident. Workers based in other states that have fatal injury incidents in Washington are included.

Types of Incidents Included:

Acute trauma fatalities including but not limited to:

- Acute chemical exposures
- Homicides
- Suicides
- Motor vehicle incidents
- Machinery incidents
- Falls

Types of Incidents Not Included:

- Fatalities due to natural cause (heart attacks, aneurysms, etc.) unless root cause is determined to be the result of a work injury.
- Fatalities due to diseases from long-term exposure (disease examples include asbestosis and silicosis).
- Fatalities that occurred in the calendar year due to an incident from a previous year.

Other Data Sources

The US Department of Labor Bureau of Labor Statistics Census of Fatal Occupational Incidents (CFOI) also collects surveillance data on occupational fatalities in Washington State. CFOI and FACE data may differ in terms of numbers of annual work-related fatalities. Reasons for differences are that CFOI includes cases according to the date of death in its annual numbers, not the date of incident, and other potential differences in case determination criteria.





All cases are verified and characterized using multiple sources of information including but not limited to:

- Death Certificates
- Coroner and Medical Examiner Reports
- DOSH Incident Inspection Reports
- Police Department Incident Reports
- Coast Guard Reports

All cases are categorized according to industry, occupation, and incident type using standard classification systems including:

- Industry categorized by North American Industrial Classification System (NAICS)
- Occupation categorized by Standard Occupational Classification (SOC)
- Incident Type categorized by International Classification of Diseases, ninth revision (ICD-9)

The data in this report are preliminary and are current as of January 31, 2016. Changes to final annual fatality information may occur due to late reports or updates.

The WA FACE Program is supported in part by a grant from the National Institute for Occupational Safety and Health (NIOSH grant 2U60OH008487-11).





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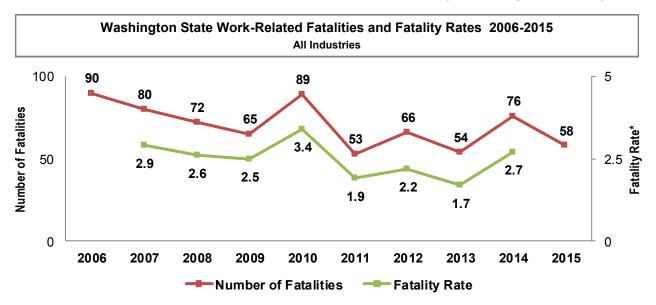


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2015 WA Work-Related Fatality Summary

In 2015, 58 traumatic work-related fatal incidents occurred in Washington State. This is 18 fewer work-related fatalities than 2014, and the third lowest number seen in the last ten years. Since 2006, the number of work-related fatalities has decreased by an average of 2.7 per year.



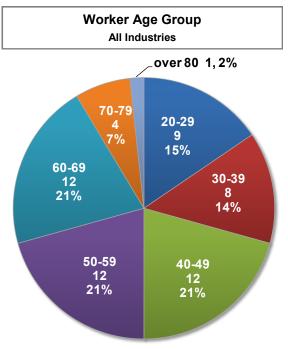
* Rate per 100,000 employed persons age 16 years or older. Source: U.S. Bureau of Labor Statistics, Census of Fatal Occupational Injuries

Worker Characteristics

- 21% (12) of workers were Hispanic
- 15% of workers were between 20-29
- 50% of workers were age 50 or over
- 91% (53) of workers were male

Occupation**

- 5 workers were Tree Fallers
- 4 workers were Truck Drivers
- 3 Wildland Firefighters died in a single incident

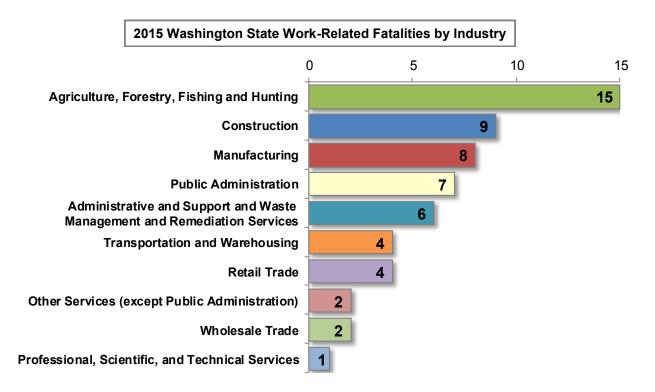


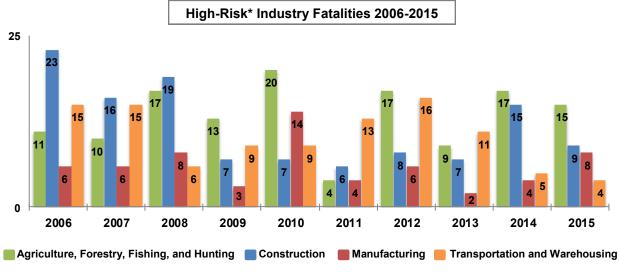
** See Appendix A for a complete listing of fatalities by Standard Occupation Code (SOC)

May not add to 100% due to rounding

Industry

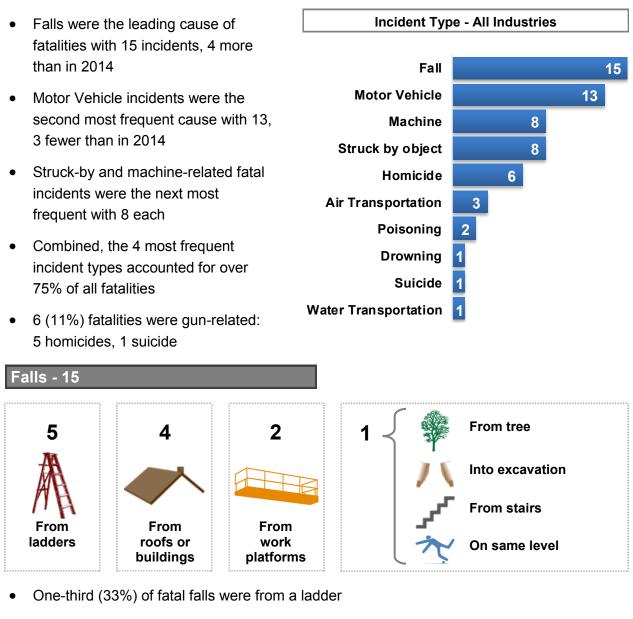
- 15 workers died on the job in the Agriculture, Forestry, Fishing, and Hunting Industry Sector (NAICS 11), the highest number in any industry
- 9 workers died on the job in Construction (NAICS 23)
- 8 workers died on the job in Manufacturing (NAICS 31-33)
- Transportation and Warehousing (NAICS 48-49) experienced the lowest number of fatalities in ten years (4)



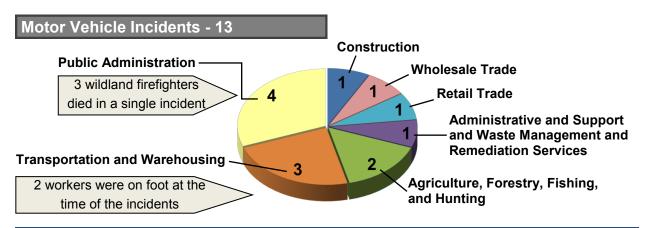


* Industries that typically experience the highest numbers of annual fatalities

Incident Type



• 6 fatal falls were in the construction industry



Incident Type - continued

Machine - 8

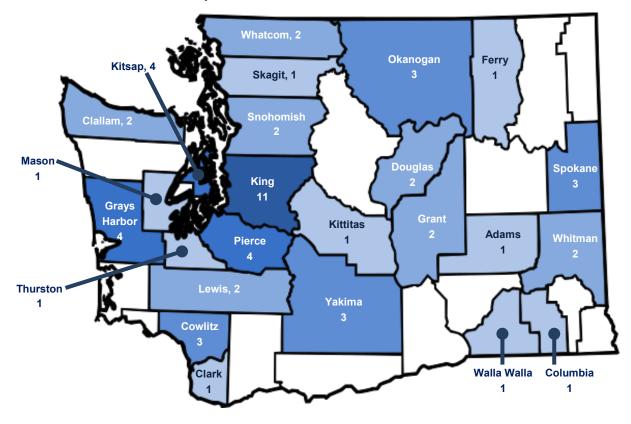
- 2 fatal incidents involved tractors
- The machines involved in the remaining 6 fatal incidents were:
 - \Rightarrow Front-end loader
- \Rightarrow Automated forklift
- \Rightarrow Track hoe excavator
- \Rightarrow Electric powered industrial truck
- \Rightarrow Riding mower
- \Rightarrow Fertilizer applicator

Struck-by Object - 8

- 6 of 8 fatal incidents occurred in Forestry industry subsectors
- 2 incidents involved structure collapses: a concrete block wall and an air separator

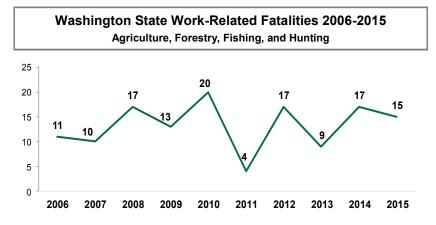
Fatalities by County

- Work-related deaths occurred in 24 Washington counties in 2015
- King County was the site of the highest number of fatal incidents (11), 6 of which were in the Construction Industry Sector



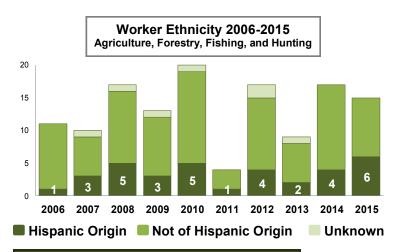
2015 WA Fatalities in Agriculture, Forestry, Fishing, and Hunting - NAICS 11

In 2015, 15 workers died in on-the-job incidents in the Agriculture, Forestry, Fishing, and Hunting Industry Sector. More Hispanic workers died onthe-job in this industry sector in 2015 than in any other year in the last decade.

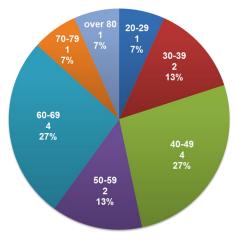


Worker Characteristics

- 40% (6) of workers were Hispanic
- 53% of workers were over age 50
- All workers were male



Worker Age Group* Agriculture, Forestry, Fishing, and Hunting

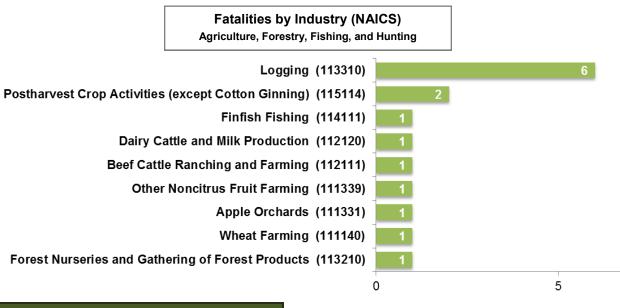


*May not add to 100% due to rounding

Occupation

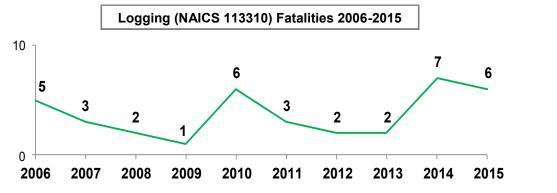
Occupation Description (SOC 2000 code)	Fatalities
Fallers (45-4021)	5
Farmworkers and Laborers, Crop, Nursery, and Greenhouse (45-2092)	3
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	2
Captains, Mates, and Pilots of Water Vessels (53-5021)	1
Farmworkers, Farm, Ranch, and Aquacultural Animals (45-2093)	1
Forest and Conservation Workers (45-4011)	1
Heavy and Tractor-Trailer Truck Drivers (53-3032)	1
Maintenance and Repair Workers, General (49-9071)	1

Industry



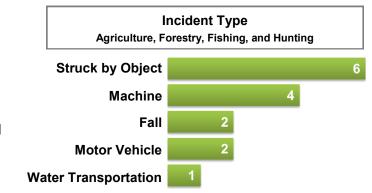
Forestry

- 7 (47%) fatalities occurred in Forestry Industries:
 - $\Rightarrow~$ 6 workers in Logging: 5 Tree Fallers and 1 Heavy and Tractor-Trailer Truck Driver
 - \Rightarrow 1 Forest Product Gatherer



Incident Type

- Among the 6 Struck-by incidents:
 - \Rightarrow All worked in Forestry
 - $\Rightarrow~$ All were struck by trees, logs, or branches
- 2 Machine-related fatalities involved tractors



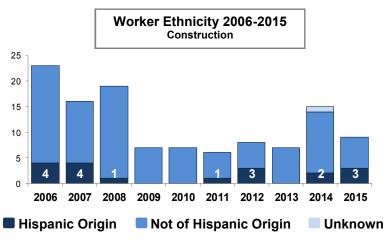
2015 WA Fatalities in Construction NAICS 23

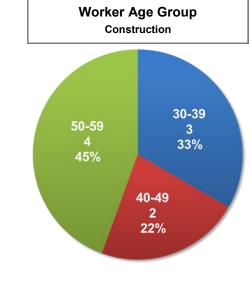
In 2015, 9 workers died in on-the-job incidents in the Construction Industry Sector, 6 fewer fatalities than in 2014. The number of fall-related construction fatalities in 2015 (6) was the highest since 2006.



Worker Characteristics

- 33% (3) of workers were Hispanic
- 45% of workers were age 50-59
- All workers were male





Occupation

Occupation Description (SOC 2000 code)	Fatalities
Carpenters (47-2031)	2
Roofers (47-2181)	2
Construction Laborers (47-2061)	1
Construction Managers (11-9021)	1
First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)	1
Glaziers (47-2121)	1
Plumbers, Pipefitters, and Steamfitters (47-2152)	1

Industry



Specialty Trade Contractors - 6

- Site Preparation Contractors (238910) 2 incidents
- Roofing Contractors (238160)
- Plumbing, Heating, and Air-Conditioning Contractors (238220)
- Glass and Glazing Contractors (238150)
- Poured Concrete Foundation and Structure Contractor (238110)



Highway, Street, and Bridge Construction - 1

• Highway, Street, and Bridge Construction (237310)



Nonresidential Building Construction - 1

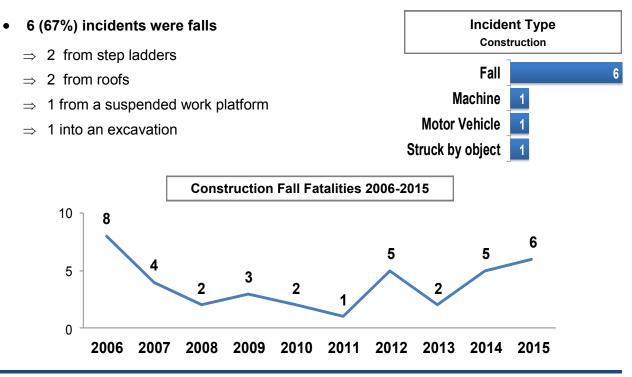
• Commercial and Institutional Building Construction (236220)



Residential Building Construction - 1

• Residential Remodelers (236118)

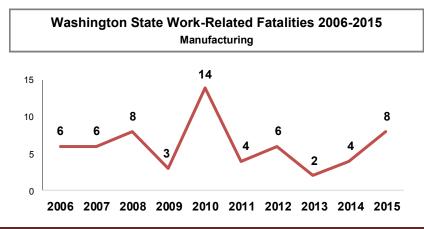
Incident Type



2015 Work-Related Fatalities in Washington State

2015 WA Fatalities in Manufacturing NAICS 31-33

In 2015, 8 workers died in on-the-job incidents in the Manufacturing Industry Sectors, 4 more fatalities than in 2014 and the most since 2010.



Worker Characteristics

- 2 workers were Hispanic
- Half of the workers were over the age of 50

Occupation

Occupation Description (SOC 2000 code)

Aircraft Mechanics and Service Technicians (49-3011)

Chief Executives (11-1011)

Commercial Pilots (53-2012)

Industrial Production Managers (11-3051)

Maintenance and Repair Workers, General (49-9071)

Marketing Managers (11-2021)

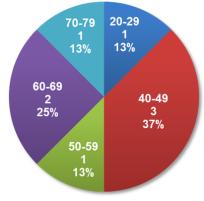
Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Welders, Cutters, Solderers, and Brazers (51-4121)

Industry

- **3** in Aircraft Manufacturing (336411)
- 1 each in:
 - ⇒ All Other Transportation Equipment Manufacturing (336999)
 - ⇒ Wood Container and Pallet Manufacturing (321920)
 - ⇒ All Other Miscellaneous Wood Product Manufacturing (321999)
 - \Rightarrow Bottled Water Manufacturing (312112)
 - \Rightarrow Fruit and Vegetable Canning (311421)

Worker Age Group* Manufacturing



*May not add to 100% due to rounding

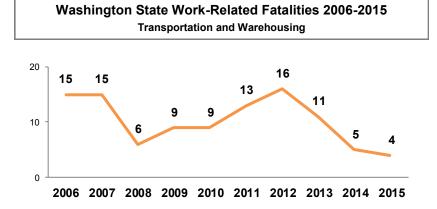
Incident Type

Incident Type Manufacturing



2015 WA Fatalities in Transportation and Warehousing NAICS 48- 49

In 2015, 4 workers died in on-the-job incidents in the Transportation and Warehousing Industry Sector, the lowest annual number of fatalities in the last decade.

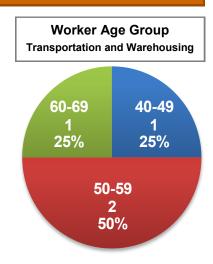


Worker Characteristics

- 2 (50%) workers were female
- All workers were over the age of 40

Occupation

Occupation Description (SOC 2000 code)	Fatalities
Heavy and Tractor-Trailer Truck Drivers (53-3032)	2
Motor Vehicle Operators, All Other (53-3099)	1
Taxi Drivers and Chauffeurs (53-3041)	1



Industry

- 2 General Freight Trucking, Long-Distance, Truckload (484121)
- 1 Other Support Activities for Road Transportation (488490)
- 1 Taxi Service (485310)

Incident Type

- 2 workers were on foot at the time of the incident
- 1 incident was a motorcycle accident
- 1 incident was a homicide

ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES

A bartender slipped and fell on a floor while moving a box. She fractured her femur and died 9 days later from injury complications.

A landscaper was driving a pickup truck between two job sites when he lost control of his vehicle on a two-lane state highway and crossed over the center line and struck a log truck head-on.

A window washer died when he fell from a 10-story building.

The owner of a carpet and upholstery cleaning business was working at a customer's house when he was shot by the customer.

The owner of a landscaping service was riding a mower when the edge of a river bank gave way and the mower rolled over, crushing him.

The owner of a tree service company was topping a tree when he fell 30 feet from the tree.

AGRICULTURE, FORESTRY, FISHING AND HUNTING

A dairy farm laborer died when the front-end loader he was operating fell into a manure waste water pond.

A farmer was in a field working on a fertilizer applicator when a shank that had been under pressure and coiled with a hose sprung loose and struck him in the head.

A farmer was run over by an unattended tractor that was running and then moved.

A farmworker was driving a tractor along a road towing an empty spray trailer when the tractor left the road and the driver overcorrected, causing the tractor to roll over. He was ejected from the open cab and the tractor landed on top of him.

A maintenance mechanic was on a roof measuring a water pipe that needed to be replaced when he fell through a panel of fiberglass roofing and landed 23 feet below on a concrete floor.

An orchard laborer died from injuries after falling out of the bed of a pickup truck. The truck had traveled a few feet along an orchard road when the incident occurred.

An orchard laborer was picking apricots when he fell about 4 feet from a ladder and broke his ankle. He died two weeks later of injury complications.

The captain of a 52-foot tribal commercial fishing vessel died when the vessel capsized in coastal waters.

AGRICULTURE, FORESTRY, FISHING AND HUNTING (CONTINUED)

A logger was cutting a tree when a branch fell from a nearby tree and struck him on the head.

A logger was cutting a tree when he was struck by the falling top of snag.

A logger was cutting down a tree when he was struck by another tree felled by another logger.

A logger was falling a cedar tree. As the tree fell the top of a maple tree fell with it and struck the logger.

A logger was preparing to cut a notch in a stump for a guy line tail hold when a log uphill from him rolled downhill and crushed him between two logs.

A forest products gatherer was harvesting tree boughs at a logging site when the wind caused a tree to fall on him.

A log truck driver died when his truck left a state highway and crashed.

CONSTRUCTION

A carpenter fell 12 feet down the dirt slope of an excavation at a construction site. He landed head first in 9 inches of water at the bottom of the excavation and drowned.

A construction company foreman died after the truck he was driving left an interstate highway and crashed.

A construction contractor was working with another contractor at a residential construction job site. He was working near a moving track hoe excavator when he slipped and fell behind it. The operator did not see him and backed the excavator over him.

A glazier was working on windows when he fell from a step ladder and landed 15 feet below on a concrete stairway. He died 6 days later from his injuries.

A journeyman carpenter fell from a platform suspended below a bridge that was under construction and landed 60 feet below on a concrete dock.

A journeyman plumber working at a construction site fell 4 feet from a step ladder, injuring his left leg. He died 18 days later due to injury complications.

A roofer fell 19 feet from a roof and landed on a concrete surface below. He died of his injuries 12 days later.

A roofer working on the roof of a church under construction fell about 25 feet to a sidewalk below.

An construction laborer helping take apart and scrap a cyclone air separator was struck by part of the steel structure when it unexpectedly collapsed.

MANUFACTURING

A mechanic at a bottling plant was struck by an automated forklift.

An aircraft mechanic fell 20 feet from a platform.

A mechanic at a fruit processing plant was operating an electric powered industrial truck when he was caught between the frame of a piece of equipment and the seat of the industrial truck.

An employee of a manufacturing company was fatally shot at work by a coworker.

The owner of a bark and wood products business was on the grounds of his facility inspecting a retaining wall being constructed of 3,600 lb. concrete ecology blocks, when the wall collapsed and two of these blocks crushed his lower body. He died of his injuries 27 days later.

The owner of a manufacturing company was shot and killed by a relative during an argument at his place of business.

A test pilot and manager at an aircraft manufacturing company died when the plane crashed during a test flight.

OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)

A barber died after falling from a ladder at his barber shop.

The owner of an automotive repair shop died after inhaling a compressed aerosol product.

PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES

A commercial diver drowned while working on an underwater environmental study.

PUBLIC ADMINISTRATION

A Master-at-Arms at a military base was driving a police vehicle during a routine patrol when his vehicle struck a cement barrier.

A police officer was injured in the line of duty while restraining a suspect. He underwent surgery and died of complications.

A U.S. Navy sailor committed suicide on base.

An Army special forces officer died during a parachute training operation.

Three U.S. Forest Service firefighters died when their wildland fire engine left a road and crashed. The crew was fighting a wildfire.

RETAIL TRADE

A department store stock clerk fell from a ladder and struck her head on a concrete floor.

A newspaper contract delivery person stepped out of her vehicle and was crossing a street to place a newspaper in a residential delivery holder when she was run over by a motor vehicle.

A sales clerk was climbing down portable stairs when he fell to the ground.

The manager of a business that buys and sells precious metals was shot.

TRANSPORTATION AND WAREHOUSING

A semi-truck driver parked her truck on the shoulder of an interstate highway, got out of the truck and attempted to run across the highway to render assistance to the occupants of a vehicle involved in a crash. As she was crossing the highway, she was struck and killed by a motorist.

A truck driver was walking across a truck yard at night when he was struck by a yard hostler.

A taxi driver was shot by a passenger.

The owner of a motorcycle escort service was injured while driving his motorcycle as a motorcade escort for a funeral procession. His motorcycle slid on the wet road and crashed into a guard rail. He died 24 days later due to injury complications.

WHOLESALE TRADE

An equipment operator at a metal recycling plant was exposed to chlorine gas when a tank containing the gas was crushed by a compactor machine. He died three days later.

The driver of a semitractor-trailer carrying scrap metal to a recycling center died when the vehicle left the road at the bottom of a hill and rolled over.

Occupation Description (SOC 2000 code)	Number of Fatalities
Fallers (45-4021)	5
Heavy and Tractor-Trailer Truck Drivers (53-3032)	4
Farmworkers and Laborers, Crop, Nursery, and Greenhouse (45-2092)	3
Firefighters (33-2011)	3
Carpenters (47-2031)	2
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	2
Janitors and Cleaners, Except Maids and Housekeeping Cleaners (37-2011)	2
Landscaping and Groundskeeping Workers (37-3011)	2
Maintenance and Repair Workers, General (49-9071)	2
Police and Sheriff's Patrol Officers (33-3051)	2
Roofers (47-2181)	2
Aircraft Mechanics and Service Technicians (49-3011)	1
Automotive Service Technicians and Mechanics (49-3023)	1
Barbers (39-5011)	1
Bartenders (35-3011)	1
Captains, Mates, and Pilots of Water Vessels (53-5021)	1
Chief Executives (11-1011)	1
Commercial Divers (49-9092)	1
Commercial Pilots (53-2012)	1
Construction Laborers (47-2061)	1
Construction Managers (11-9021)	1
Driver/Sales Workers (53-3031)	1
Farmworkers, Farm, Ranch, and Aquacultural Animals (45-2093)	1
First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)	1
Forest and Conservation Workers (45-4011)	1
Glaziers (47-2121)	1
Industrial Production Managers (11-3051)	1
Marketing Managers (11-2021)	1
Material Moving Workers, All Other (53-7199)	1
Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members, All Other (55-3019)	1
Mobile Heavy Equipment Mechanics, Except Engines (49-3042)	1
Motor Vehicle Operators, All Other (53-3099)	1
Plumbers, Pipefitters, and Steamfitters (47-2152)	1
Retail Salespersons (41-2031)	1
Special Forces (55-3018)	1
Stock Clerks and Order Fillers (43-5081)	1
Taxi Drivers and Chauffeurs (53-3041)	1
Tree Trimmers and Pruners (37-3013)	1
Welders, Cutters, Solderers, and Brazers (51-4121)	1
Wholesale and Retail Buyers, Except Farm Products (13-1022)	1

Fatality/Injury Narratives and Slideshows

www.lni.wa.gov/Safety/Research/Face/ReptNarr/Narratives

Construction

71-134-2015	Carpenter Falls from Ladder
71-136-2015	Laborer Electrocuted When Jackhammer Strikes Underground Power Line
71-137-2015	Construction Worker Falls 14 Feet from a Beam onto Concrete and Suffers Serious Brain Injury
71-139-2015	Roofer Falls 20 Feet from Roof
71-140-2015	Pipe Layer Severely Injured in Trench Collapse
71-142-2015	Grade Checker Severely Injured When Backed Over by Grader
Agriculture	
71-135-2015	Tractor Operator Crushed by Trailer
71-138-2015	Hop Yard Laborer Struck by Hop Pole
71-141-2015	Tractor Operator Dies When Tractor Rolls Over on Road
71-143-2015	Farm Worker Severely Injured When Struck By Wheel Rim
Logging	
92-13-2015	Timber Cutter Injured When Struck by Hung-up Tree
92-14-2015	Chaser Run Over by Loader
92-15-2015	Choker Setter Dies When Struck by Log
92-16-2015	Two Rigging Crew Members Injured When Log Slides Off Landing
92-17-2015	Rigging Slinger Killed When Struck in Head by Hung-up Log
92-18-2015	Timber Cutter Struck by Cut-Up Tree Left Standing and Not Marked
92-19-2015	Logging Company Owner Killed When Struck by Falling Tree

Fatality Investigation Reports

www.lni.wa.gov/Safety/Research/Face/ReptNarr/Investigations

- 52-32-2015 Two Propane Gas Supplier Workers Electrocuted when Boom Truck Crane's Boom contacts 7,200 Volt Overhead Power Line
- 52-33-2015 Log Truck Driver Dies When Struck by Logs Being Loaded Onto Trailer
- 52-34-2015 Orchard Laborer Dies after Being Struck and Run Over by Dump Trailer
- 52-35-2015 Truck Driver Dies after Being Struck by Semi-Trailer Truck In Trailer Lot of Customer Yard

Hazard Alerts

www.lni.wa.gov/Safety/Research/FACE/DataSum/default.asp

47-23-2015 Preventing Injuries to Retail Workers: How to Protect Retail Workers from being Struck by Motor Vehicles

2015 WA FACE Prevention Resources

Spanish Language Resources - Narratives and Slideshows

- 71-121-2013 Carpintero cae de una viga mientras instalaba una vigueta de borde
- 71-124-2013 Tecnico de climatizacion o HVAC (por sus siglas en ingles) cae por un tragaluz
- 71-128-2014 Operador de tractor de huertas atropellado por un tráiler que remolcaba un tanque de agua
- 71-129-2014 Contratista de techos cae de un techo desde 35 pies de altura
- 71-130-2014 Operador de tractor de huerta atropellado por podadora de césped
- 71-132-2014 Herrero cae de un andamio sobre mastil desde 72 pies
- 71-134-2015 Carpintero cae de la escalera
- 71-135-2015 Operador de tractor aplastado por un trailer
- 71-138-2015 Trabajador de finca de lúpulos golpeado por un poste de lúpulos
- 71-139-2015 Techador cae 20 pies desde el techo
- 71-141-2015 Operador de tractor muere cuando el tractor se vuelca en la carretera