

2022

Occupational Fatalities in Oregon

ANNUAL REPORT



OREGON FATALITY ASSESSMENT & CONTROL EVALUATION (OR-FACE)

FACE

Definitions

The Oregon Fatality Assessment and Control Evaluation (OR-FACE)

program investigates work-related fatalities that are caused by a traumatic injury and that occurred within Oregon.

A **location** within Oregon means the incident, or some portion of the event or exposure, occurred within the geographical boundaries of the state of Oregon, including the coastal waters, airspace, and subterranean portions of the state.

A **work relationship** exists if an incident occurred (a) on the employer's premises and the person was there to work, or (b) off the employer's premises and the person was there to work, or the event or exposure was related to the person's work or status as an employee.

Work is defined as duties, activities, or tasks that produce a product or result, are done in exchange for money, goods, services, profit, or benefit, and are legal activities.

Acronyms

| | |
|--------------|-------------------------------------------------------|
| BLS | U.S. Bureau of Labor Statistics |
| CDC | Centers for Disease Control and Prevention |
| CFOI | U.S. Census of Fatal Occupational Injuries |
| NAICS | North American Industry Classification System |
| NIOSH | National Institute for Occupational Safety and Health |
| NTSB | National Transportation Safety Board |
| NVDRS | National Violent Death Reporting System |
| OHA | Oregon Health Authority |
| OIICS | Occupational Injury and Illness Classification System |
| OSHA | Occupational Safety and Health Administration |
| SOC | Standard Occupational Classification |
| DCBS | Department of Consumer and Business Services |
| OERS | Oregon Emergency Response System |

In Scope

- Self-employed, family, or volunteer workers, exposed to the same work hazards and performed the same duties or functions as paid employees, and that meet the work-relationship criteria.
- Suicides and homicides that occurred at a worksite (included in OR-FACE scope since 2011).
- Fatal events or exposures that occurred when a person was in travel status, if the travel was for work purposes, or was a condition of employment (excluding commute).

Out of Scope

- Institutionalized persons, including inmates of penal and mental institutions, sanitariums, and homes for the aged, infirm and needy, unless employed off the premises of their institutions.
- Fatal heart attacks and strokes, unless causally related to a traumatic injury or exposure.
- Fatal events or exposures that occurred during a person's recreational activities that are not required by the employer.
- Fatal events or exposures that occurred during a person's commute to or from work.
- Fatal events or exposures of those in a military occupation. OR-FACE erroneously included some of these deaths in previous reporting years (until 2017).
- A fatal event that was solely the result of exposure to infectious disease (including COVID-19).

Adapted from Bureau of Labor Statistics (2001), *Census of Fatal Occupational Injuries: Definitions*. U.S. Department of Labor. Available online (April 13, 2017) <https://stats.bls.gov/iif/oshcdef.htm>

2022

ANNUAL REPORT

Oregon Fatality Assessment and Control Evaluation

This report is dedicated to the people in Oregon who have lost their lives as the result of traumatic workplace injuries, in the hope that better understanding of these fatal incidents may help to save the lives of other workers in similar situations.

Oregon FACE Program

Oregon Institute of Occupational Health Sciences
Oregon Health & Science University

FACE Staff (Publication Year)

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OR-FACE is supported by the National Institute for Occupational Safety and Health (grant #U60OH012411).

Principal Investigator

- David Hurtado, ScD*

* Became PI in 2022

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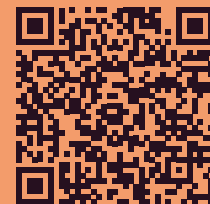
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INTRODUCTION

In 2022, OR-FACE recorded 56 fatal occupational incidents resulting in worker deaths. The number represents a rate of 2.68 fatalities per 100,000 employed workers in the civilian labor force in Oregon. The national worker fatality rate in 2022 was 3.7 per 100,000 full-time equivalent workers.

The following notable trends occurred in 2022

- » The total number of fatalities was lower compared to the previous year. In 2021, 72 worker deaths were recorded, which was the third-highest number in OR-FACE history.
- » The agriculture industry had the highest number of fatalities, followed by transportation and construction. These three industries have been among the top four industries for fatalities in each year in the past decade (see pg. 13).
- » Fatal cases from transportation (motor vehicle) exceeded all other events, followed by contact with objects and equipment (non-motor vehicle), and violence and other injuries by persons or animals. Motor vehicle incidents have the highest number of cumulative events through 2022 (see pg. 14).

REPORT HIGHLIGHTS

OR-FACE conducts surveillance, investigation, assessment, and outreach related to traumatic occupational fatalities in Oregon (see pg. 5–6).

OR-FACE published 1 investigation report, 5 blogs, 1 annual report, and 1 peer-reviewed publication (see pg. 7–8).

Characteristics of fatal events and the workers involved are quantified in charts (see pg. 9–17).

Abstracts provide a brief description and contributing factors of each incident (see pg. 18–31).

About OR-FACE, online resources and provide feedback (see pg. 33 and back cover).



CORE ACTIVITIES

ASSESSMENT

When fatalities are identified as FACE cases, sufficient data are collected about each incident to analyze and develop case abstracts. Assessment data sources for each case include Oregon OSHA investigation reports, medical examiner reports, police reports, news reports, workers' compensation records, and occasionally other records such as business profiles, hospital or emergency response records, or investigation reports from other sources.

OR-FACE analyzes incident data to identify and summarize trends. Incidents are coded and analyzed by industry (NAICS), occupation (SOC), and event (OIICS), as well as by demographic and other variables, such as the specific source or setting of the injury. Incident abstracts are created to explain each fatality with the aim of preventing similar fatal incidents in the future.

SURVEILLANCE

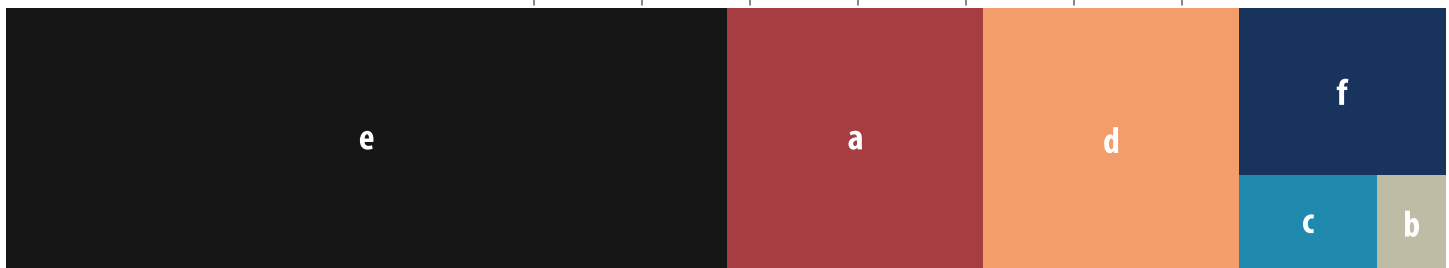
The OR-FACE surveillance system is comprised of:

1. Fatality Intake Forms (FIF) supplied by OR-OSHA
2. Quarterly reports from Oregon Health Authority (OHA)'s Vital Statistics of death certificates marked "at work"
3. Death certificate and Census of Fatal Occupational Injuries (CFOI) data from the OHA
4. Consultations with a Department of Consumer and Business Services (DCBS) analyst
5. Reports from Oregon State Police (OSP)
6. Reports from Oregon Emergency Response System (OERS)
7. Monitoring of programmed Google keyword alerts such as: Oregon, drowning, body found, killed, occupational safety and health, crash, suicide, Coast Guard, fatal, died, fisherman, work, fishing boat, death investigation, fall, occupational fatalities

For 2022 the majority of first notifications regarding work-related fatalities originated from Oregon OSHA; other first notifications came from news media and other state agencies (see below).

NOTIFICATIONS | Timing of first notification following incident

| | | DAYS | | MONTHS | | | | TOTAL | |
|--------------|----------------------------------|-----------|-----------|----------|----------|----------|----------|-----------|--------|
| | | 0-2 | 3-30 | 1-3 | 3-6 | 6-12 | 12+ | | |
| a | Google Alerts | 7 | 3 | 0 | 0 | 0 | 0 | 10 | 17.86% |
| b | Oregon DCBS Analyst | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1.79% |
| c | Oregon Emergency Response | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 3.57% |
| d | Oregon Health Authority | 0 | 0 | 3 | 3 | 1 | 3 | 10 | 17.86% |
| e | Oregon OSHA | 12 | 11 | 3 | 2 | 0 | 0 | 28 | 50.00% |
| f | Oregon State Police | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 8.93% |
| Total | | 26 | 14 | 6 | 5 | 2 | 3 | 56 | |



The sum of notifications may not equal 100% due to rounding.

INVESTIGATION

In-depth investigations of selected cases are conducted by an OR-FACE fatality investigator/ outreach specialist. Investigations may be completed independently, in collaboration with OR-OSHA investigators, or with contractors with relevant industry-specific expertise, as needed. Cases are selected based on industries and occupations highly representative of Oregon, NIOSH areas of focus, and/or areas where there is a perceived gap in knowledge. Investigation reports are reviewed by professional safety experts and NIOSH prior to publication. Investigation reports seek to draw urgent attention to the root causes of fatal workplace incidents, and to provide recommendations for preventing similar fatal injuries. One investigation report was published in 2022 (see pg. 8).

OUTREACH AND DOCUMENT DISTRIBUTION

Due to COVID-19 and the subsequent restrictions and stay-at-home orders, 2022 outreach was limited.

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>50 Can You Identify Fatal Hazards on Your Farm or Ranch? (English) GIVEN TO OR-OSHA</p> | <p>9 FACE Report: Farm Worker Crushed in ATV Rollover During Herbicide Application on a Hillside - Oregon (Spanish) GIVEN TO Orchard & Vineyard Supply</p> |
| <p>58 Can You Identify Fatal Hazards on Your Farm or Ranch? (Spanish) GIVEN TO Orchard & Vineyard Supply, OR-OSHA</p> | <p>9 Queensland Government Health and Safety Hazard Alert: Cutting Fuel Drums and Empty Containers - Explosion Hazard GIVEN TO Orchard & Vineyard Supply</p> |
| <p>9 FACE Report: Farm driver overturns truck in irrigation ditch and drowns (Spanish) GIVEN TO Orchard & Vineyard Supply</p> | <p>6 OR-FACE Toolbox Talk: Logger Killed Under Rigging When Carriage Drops GIVEN TO Orchard & Vineyard Supply</p> |
| <p>10 FACE Report: Vineyard worker killed in fall from trailer (Spanish) GIVEN TO Orchard & Vineyard Supply</p> | <p>2 OR-FACE Toolbox Talk: Excavation Worker Killed by Flying Rigging when Hook Fails GIVEN TO Orchard & Vineyard Supply</p> |
| <p>9 OSHA Work Poster: Tips to prevent heat-related illnesses at work (Spanish) GIVEN TO Orchard & Vineyard Supply</p> | <p>401 2020 Annual Report GIVEN TO OR-FACE List Serve/Mailing List</p> |
| <p>3 OSHA Agricultural Safety Fact Sheet: All-Terrain Vehicle Hazards during Farm Work GIVEN TO Orchard & Vineyard Supply</p> | <p>Study shows that texting toolbox talks to supervisors helps make safety meetings happen Featured on <i>Safety+Health</i> Magazine Website</p> |

PUBLICATIONS

OR-FACE publications are for information, research, or occupational injury control only. OR-FACE is a research program, and has no legal authority to enforce state or federal occupational safety and health standards.

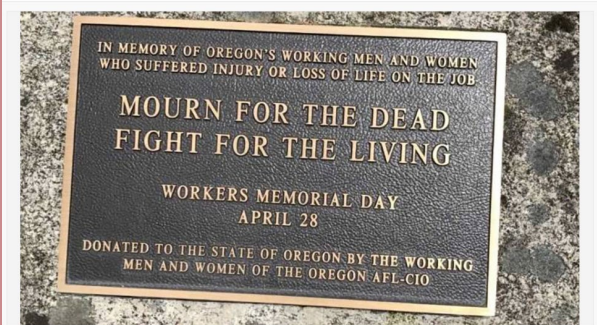
The identity of the decedent, employer, and witnesses are not included in reports or alerts.

FACE data are confidential under Oregon law (ORS 413.196).

The screenshot shows the website for the Oregon Institute of Occupational Health Sciences (OHSU). The header includes the OHSU logo and navigation links: OHSU Home, Find a Doctor, MyChart, Donate, Jobs, Directions, and Contact. A search bar is present with the text "Search OHSU" and a yellow "Search" button. Below the header is a dark blue navigation bar with links for Research, Programs and Partnerships, Educational Programming, Practitioner Resources, About Us, and News and Events. The main content area features a breadcrumb trail: Home > Oregon Institute of Occupational Health Sciences > Programs and Partnerships > Occupational Public Health Program > Oregon Fatality Assessment and Control Evaluation Program. The title "Oregon Fatality Assessment and Control Evaluation Program" is prominently displayed. Below the title are three illustrative icons: a person at a laptop with a checkmark and stars, a person pointing at a shield with a checkmark and a warning sign, and a person pointing at a shield with a cross and a gear. A QR code is located on the right side of the page.

Find published safety booklets, reports, and other resources at the OR-FACE website or scan the provided QR code. New reports are published regularly.

www.ohsu.edu/or-face



Workers' Memorial Day and COVID-19

Submitted by Jackie Boyd, Research Project Coordinator, Oregon Institute of Occupational Health Sciences and Barbara Hanley, Research Associate and Fatality Investigator, Oregon Institute of Occupational Health Sciences

Workers' Memorial Day is observed each year on April 28th, the day the Occupational Safety and Health Administration (OSHA) was founded in 1971. On this day, we remember and honor those who have lost their lives on the job to largely preventable fatalities. We also commit to reflecting on how we can improve workplace safety and health to prevent future fatalities. April 28th is a day to "Mourn for the Dead - Fight for the Living."

BLOG POSTS

OR-FACE staff regularly publish contributions to the "Oregon and the Workplace" blog, which is part of the social media outreach of the Oregon Institute of Occupational Health Sciences.

Once a blog is published, it is shared through Twitter (1,215 followers), Facebook (479 likes), and the Institute newsletter (10,654 subscribers).

OR-FACE contributed five blogs in 2022.

- **My Work Experience with the OR-FACE team at OHSU**
[READ THE POST](#)
- **Oregon Occupational Public Health Program Staff Spotlight: Alan Martinez**
[READ THE POST](#)
- **Workers' Memorial Day and COVID-19**
[READ THE POST](#)
- **Institute and OR-FACE Staff Spotlight: Jackie Boyd**
[READ THE POST](#)
- **Northwest Occupational Health Conference 2022 Recap**
[READ THE POST](#)

PEER-REVIEWED PUBLICATION CITATION

Rice, S., Rimby, J., Hurtado, D. A., Gilbert-Jones, I., & Olson, R (2022). Does sending Safety Toolbox Talks by text message to Residential Construction Supervisors increase Safety Meeting Compliance? *Occupational Health Science*, 6, 313–332.

[D.O.I. LINK](#)



Oregon Institute of Occupational Health Sciences - Oregon Health & Science University
3181 SW Sam Jackson Park Rd. L606 - Portland, OR 97239 - 503-494-3940

REPORTER#: 2020OR02

FECHA DEL REPORTE: 1 de septiembre del 2021

Trabajadora aplastada en vuelco de ATV durante fumigación en ladera en Oregon

ASPECTOS DEL INCIDENTE

FECHA: 16 de marzo del 2020

HORA: Entre 1:30 y 3:00 p. m.

VÍCTIMA: Trabajadora hispana de 41 años

CÓDIGO de INDUSTRIA o NAICS: Viñas, 111332; Bodegas, 312130

EMPLEADOR: Viñas y Bodegas

SEGURIDAD y ENTRENAMIENTO: Falta de seguridad en el uso de ATV y químicos agrícolas

LUGAR: Viña

RESUMEN

El 16 de marzo del 2020, una trabajadora de 41 años murió cuando el vehículo ATV equipado con sistema de fumigación que manejaba se volcó quedando atrapada debajo. La difunta era parte de un grupo de trabajadoras, pero fumigaba el producto químico de la viña lejos de sus compañeros. Preocupados porque no llegaba a la hora esperada, los compañeros fueron a buscarla un poco antes de las 3:00 p.m. La encontraron debajo del vehículo ATV y lo movieron para darle primeros auxilios. Los socorristas llegaron y la declararon muerta en el lugar. No hubo testigos del vuelco. La causa de muerte fue declarada lesión de objeto contundente.

FACTORES CONTRIBUTIVOS

Los factores contribuyentes y principales identificados en la investigación incluyen:

- Supervisión deficiente: trabajadora permitida laborar en un área no evaluada previamente por una persona competente para identificar peligros;
- Vehículo o ATV sobrecargado y con mal mantenimiento;
- Comunicación deficiente con la trabajadora sobre sitio laboral específico y los peligros al manejar maquinaria de fumigación en ladera;
- Falta de entrenamiento para manejar el vehículo ATV, o para evaluar la seguridad de la carga;
- Entrenamiento deficiente para trabajar con químicos usados en la fumigación;
- Trabajadora laborando sola en un área con servicio celular poco fiable.

RECOMENDACIONES

INVESTIGATIONS

One investigation report was published in 2022.

- **Farm Worker Crushed in ATV Rollover During Herbicide Application on a Hillside - Oregon (Spanish)**
OR 2020-10-1 | [READ THE REPORT](#)

2020

Occupational Fatalities in Oregon

ANNUAL REPORT



ANNUAL REPORTS

OR-FACE published its 2020 Annual Report during the 2022 calendar year. In 2020, there were 48 recorded fatalities, with an overall rate of 2.46 per 100,000 employees.

[READ THE REPORT](#)

CHARTS

In the sections of Charts and Abstracts, OR-FACE highlights risk factors and patterns in fatalities. For these analyses, a few of the major two digit classification codes are split into sub codes.

For industry (NAICS): Agriculture/Forestry/Fishing/Hunting (code 11) is separated into sub codes: Agriculture (codes 111, 112), forestry/ logging (code 113); and fishing/hunting/trapping (code 114).

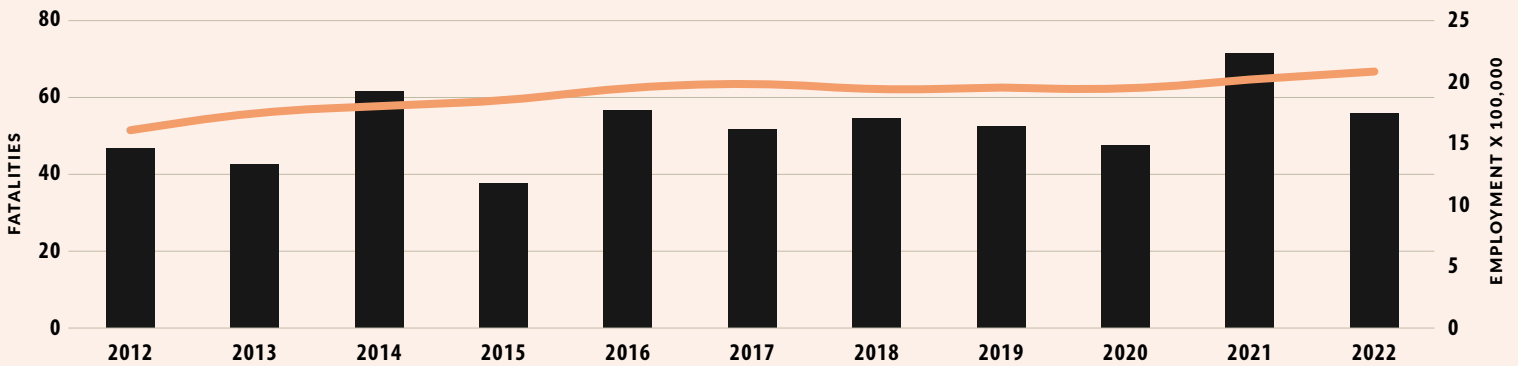
For occupation (SOC), Farming/Fishing/Forestry (code 45) is split into sub codes: Agriculture (code 45 2000), fishing and hunting (code 45 3000), forest/conservation (code 45 4010); and logging (code 45 4020).

For event (OIICS), Transportation is divided into the following codes: Aircraft (code 21), rail vehicle (code 22), animal/other non-motorized vehicle (code 23), pedestrian vehicular (code 24); and water vehicle (code 25).

For descriptive purposes in response to industry interest in Oregon, OR-FACE further delineates motorized land vehicle events (codes 26 and 27) into motor vehicle and mobile machinery.

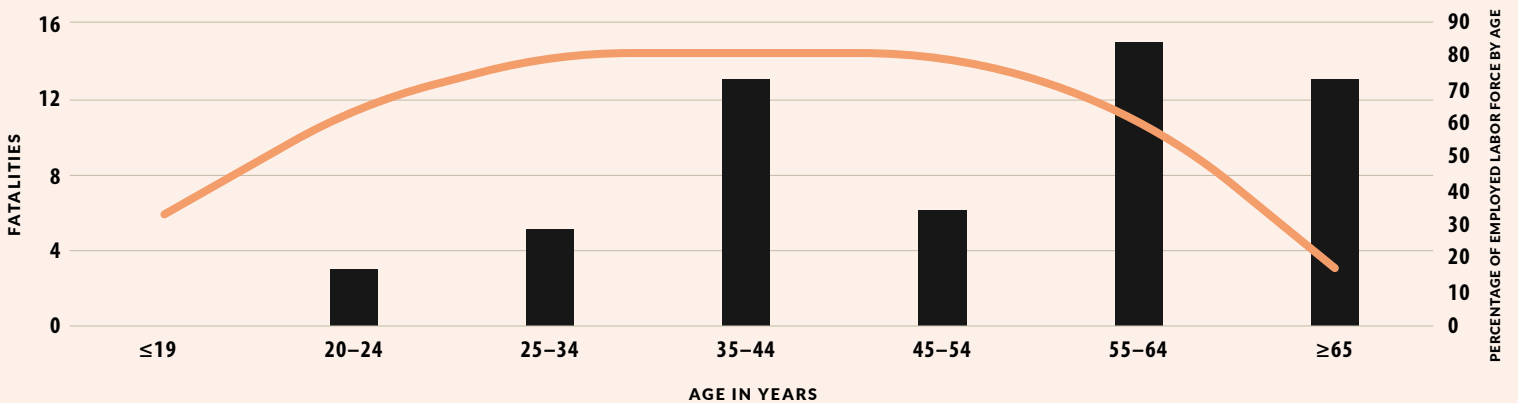
Oregon Employment Rate vs. Occupational Fatalities

The bars below reflect fatalities; the line reflects employment rate.



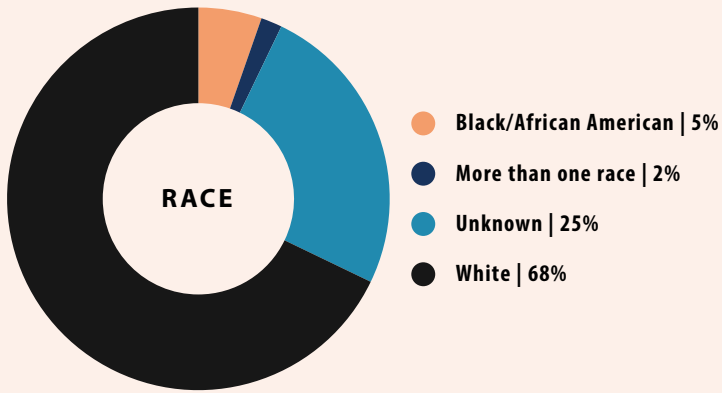
Occupational Fatalities in Oregon by Age Compared to Oregon Age Distribution of Labor Force, 2022

The bars below reflect fatal cases by age; the line reflects age distribution of labor force.

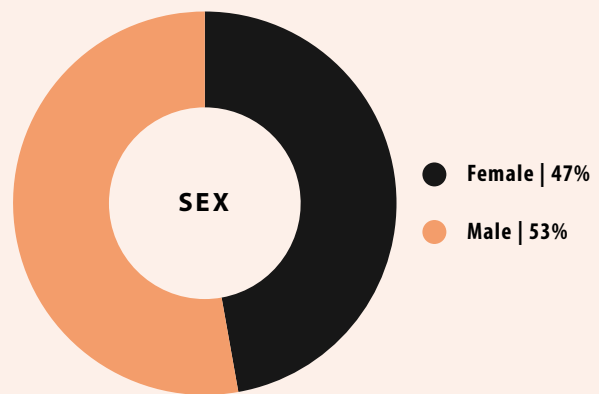
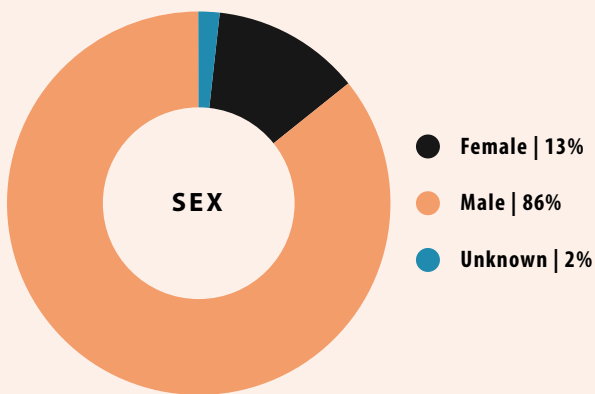
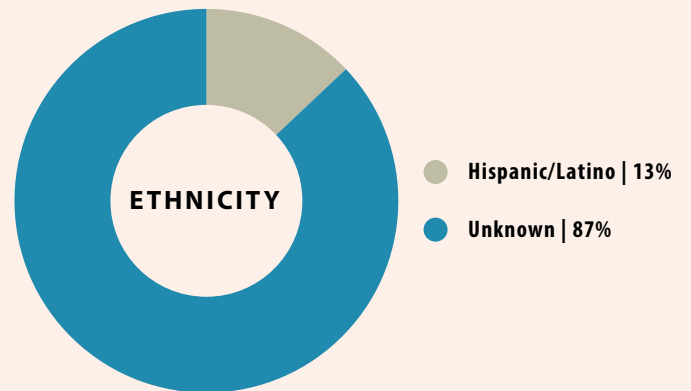
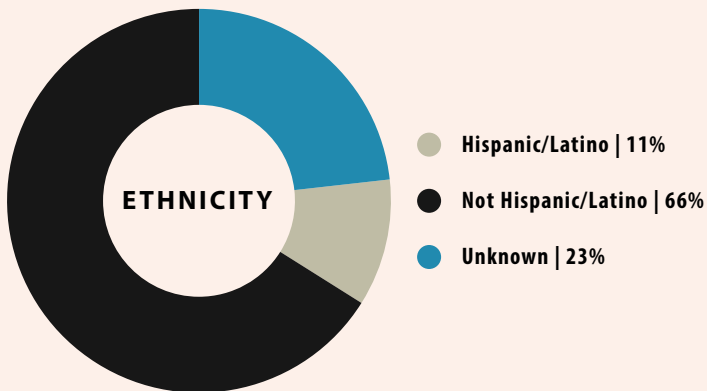
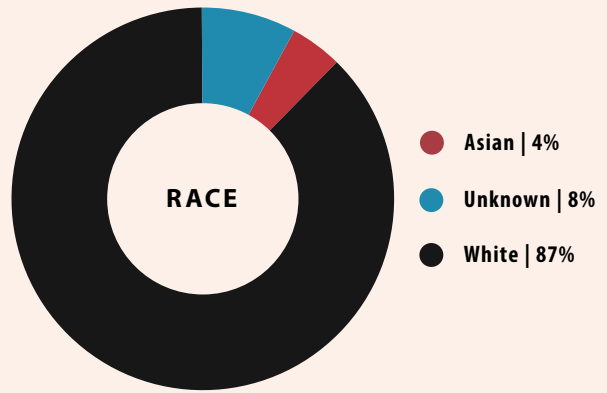


Source of labor force: BLS <https://www.bls.gov/lau/laucnty22.txt> Retrieved: March 2024 Source of fatality counts: OR-FACE

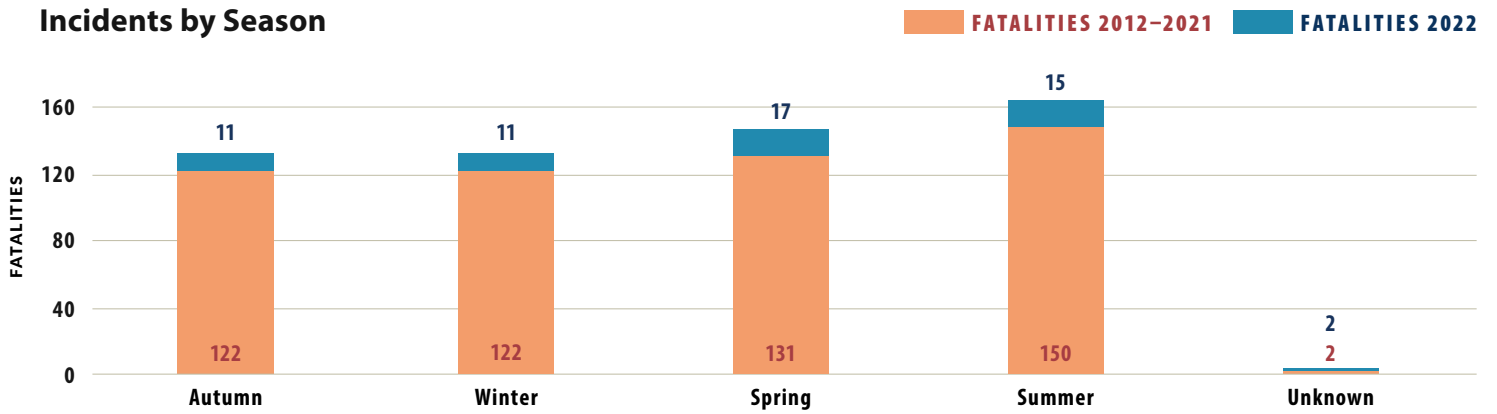
**Demographics of Occupational Fatalities
(56 total)**



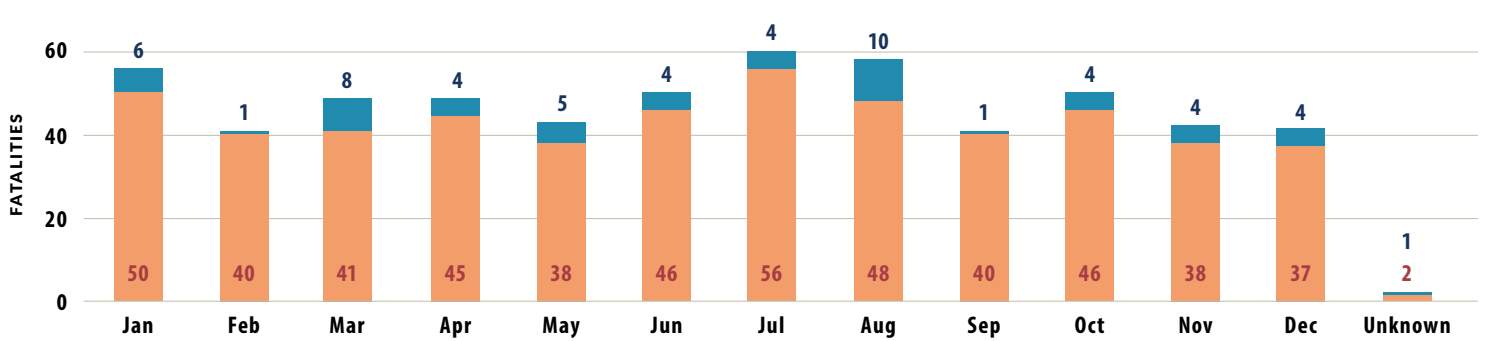
**Civilian Labor Force in Oregon
(BLS, 2022)**



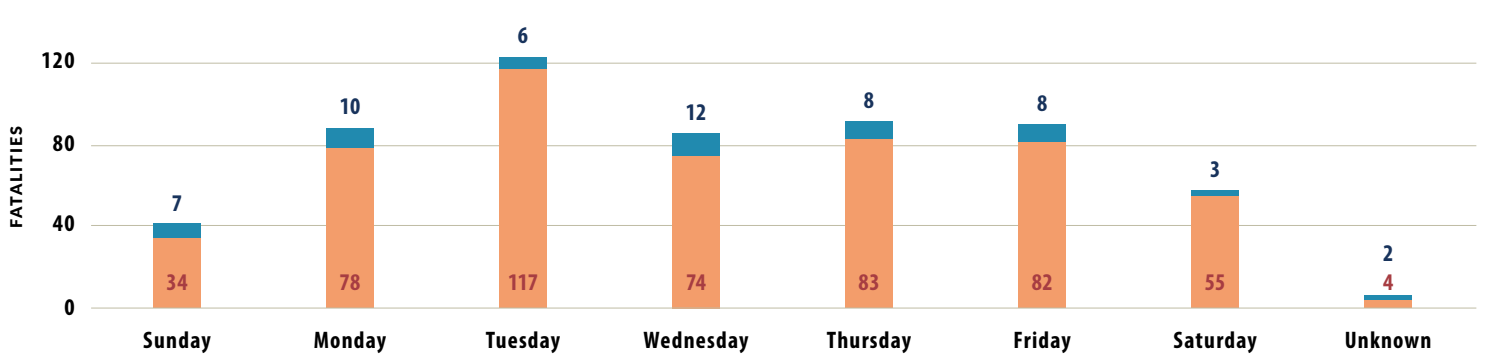
Incidents by Season



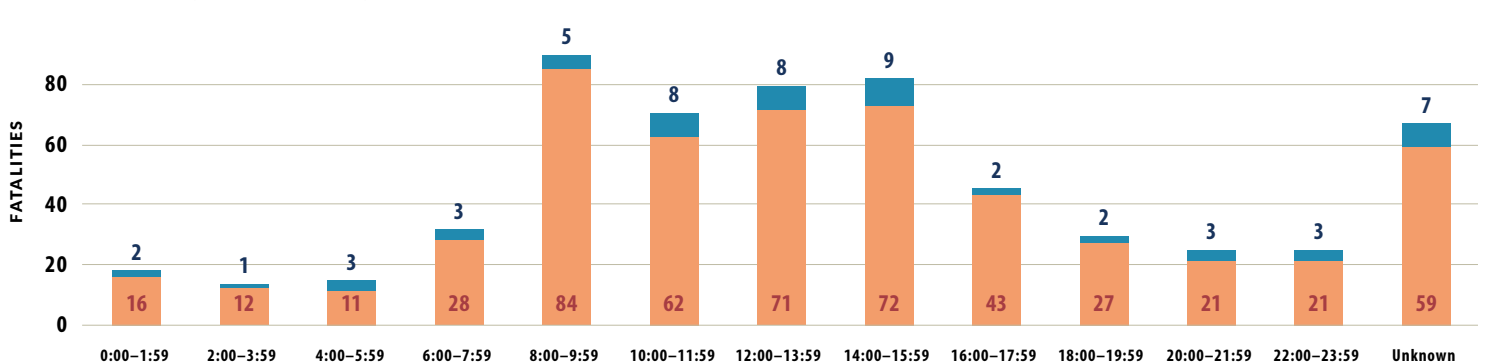
Incidents by Month



Incidents by Day of Week



Incidents by Time of Day





2012–2022 Fatalities by Occupation

| | |
|----------|------------------------------------------------|
| 143 + 17 | Transportation and Material Moving |
| 126 + 9 | Farming, Fishing, and Forestry |
| 74 + 8 | Construction and Extraction |
| 37 | Installation, Maintenance, and Repair |
| 24 + 5 | Protective Service |
| 22 + 1 | Management |
| 19 + 3 | Building and Grounds Cleaning and Maintenance |
| 17 + 2 | Sales and Related |
| 14 + 2 | Production |
| 9 + 1 | Arts, Design, Entertainment, Sports, and Media |
| 8 + 1 | Office and Administrative Support |
| 6 + 2 | Education, Training, and Library |
| 6 | Personal Care and Service |
| 5 + 1 | Community and Social Services |
| 3 + 1 | Business and Financial Operations |
| 3 + 1 | Food Preparation and Serving Related |
| 3 + 1 | Unknown |
| 3 | Architecture and Engineering |
| 3 | Healthcare Support |
| 1 | Computer and Mathematical |
| 1 | Life, Physical, and Social Science |
| 1 | Healthcare Practitioners and Technical |

FATALITIES 2012–2021

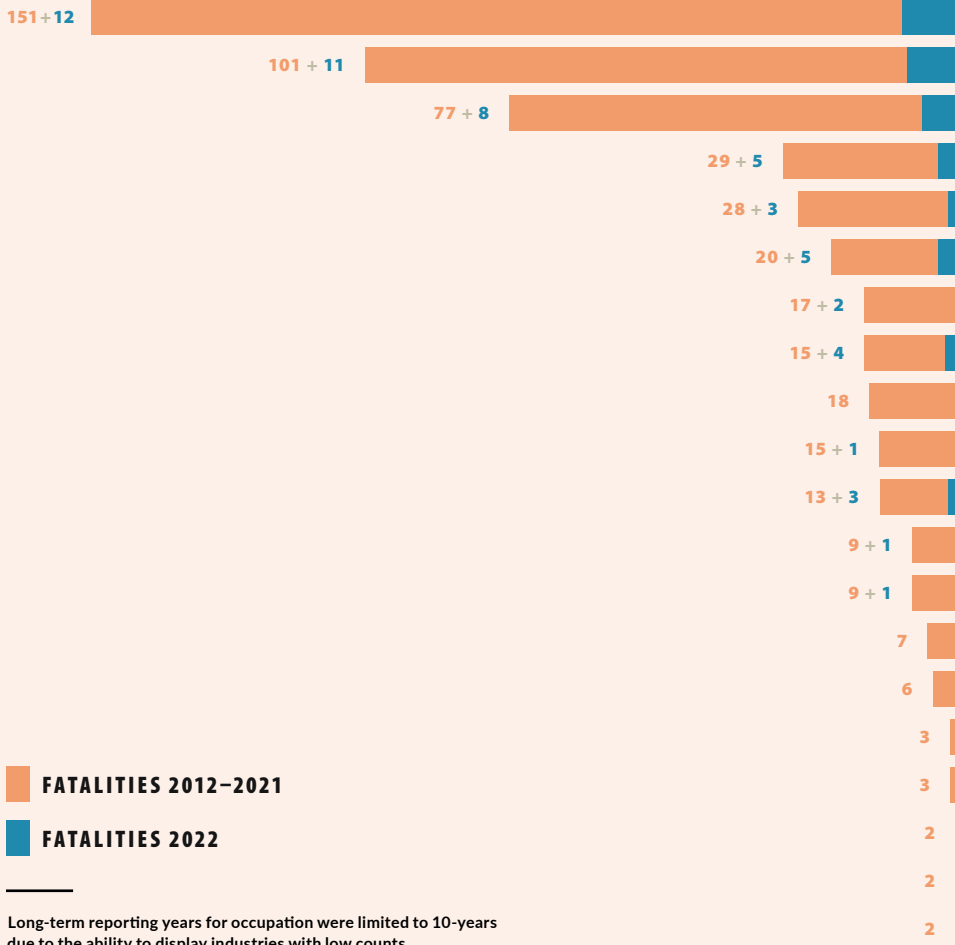
FATALITIES 2022

Long-term reporting years for occupation were limited to 10-years due to the ability to display industries with low counts.



2022 Fatalities by Occupation

| | |
|----|------------------------------------------------|
| 17 | Transportation and Material Moving |
| 9 | Farming, Fishing, and Forestry |
| 8 | Construction and Extraction |
| 5 | Protective Service |
| 3 | Building and Grounds Cleaning and Maintenance |
| 2 | Sales and Related |
| 2 | Production |
| 2 | Education, Training, and Library |
| 1 | Arts, Design, Entertainment, Sports, and Media |
| 1 | Business and Financial Operations |
| 1 | Community and Social Services |
| 1 | Food Preparation and Serving Related |
| 1 | Healthcare Practitioners and Technical |
| 1 | Management |
| 1 | Office and Administrative Support |
| 1 | Unknown |



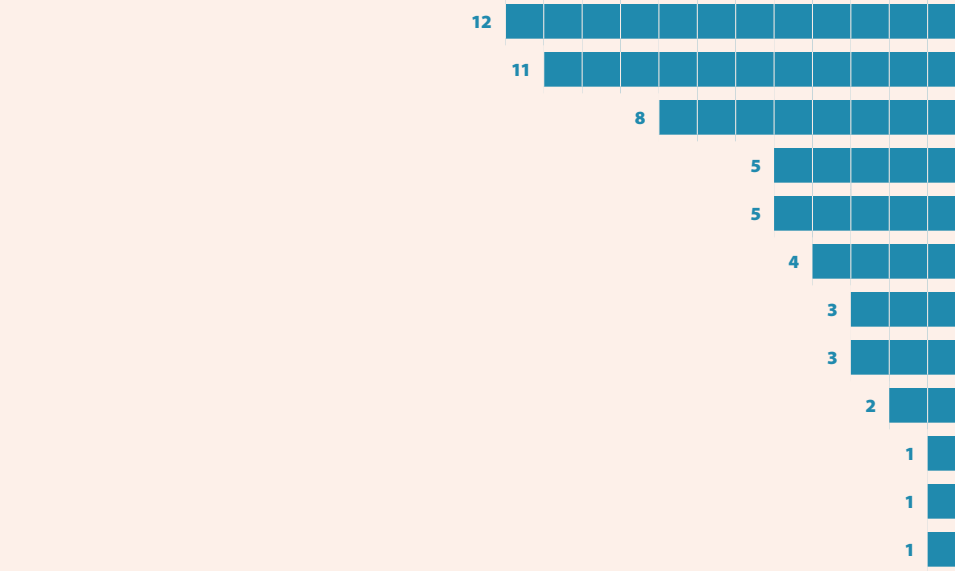
2012-2022 Fatalities by Industry

- Agriculture, Forestry, Fishing and Hunting
- Transportation and Warehousing
- Construction
- Admin., Waste Management, and Remediation
- Manufacturing
- Retail Trade
- Public Administration
- Wholesale Trade
- Other Services (except Public Administration)
- Arts, Entertainment, and Recreation
- Health Care and Social Assistance
- Educational Services
- Accommodation and Food Services
- Real Estate and Rental and Leasing
- Information
- Finance and Insurance
- Unknown
- Mining, Quarrying, and Oil and Gas Extraction
- Utilities
- Professional, Scientific, and Technical Services

FATALITIES 2012-2021

FATALITIES 2022

Long-term reporting years for occupation were limited to 10-years due to the ability to display industries with low counts.



2022 Fatalities by Industry

- Agriculture, Forestry, Fishing and Hunting
- Transportation and Warehousing
- Construction
- Retail Trade
- Admin., Waste Management, and Remediation
- Wholesale Trade
- Health Care and Social Assistance
- Manufacturing
- Public Administration
- Educational Services
- Accommodation and Food Services
- Arts, Entertainment, and Recreation



220 + 22

122 + 10

68 + 9

59 + 10

36 + 1

14 + 3

4

3

1 + 1

FATALITIES 2012-2021

FATALITIES 2022

Long-term reporting years for occupation were limited to 10-years due to the ability to display industries with low counts.

2012-2022

Fatalities by Event

- Transportation incidents
- Contact with objects and equipment
- Falls, slips, trips
- Violence and other injuries by person or animals
- Exposure to harmful substances or environments
- Fires and explosions
- Overexertion and bodily reaction
- Unknown
- Nonclassifiable



22

10

10

9

3

1

1

2022

Fatalities by Event

- Transportation incidents
- Contact with objects and equipment
- Violence and other injuries by person or animals
- Falls, slips, trips
- Fires and explosions
- Exposure to harmful substances or environments
- Nonclassifiable

2012–2022

Fatalities by Select Industries

Agriculture

- Contact with objects and equipment
- Transportation (Motor Vehicle)
- Transportation (Water)
- Transportation (Air, Animal, Mobile Machinery, Pedestrian, other)
- Falls, slips, and trips
- Exposure to harmful substances or environments
- Fires and explosions
- Violence and other injuries by person or animals
- Unknown
- Nonclassifiable

Construction

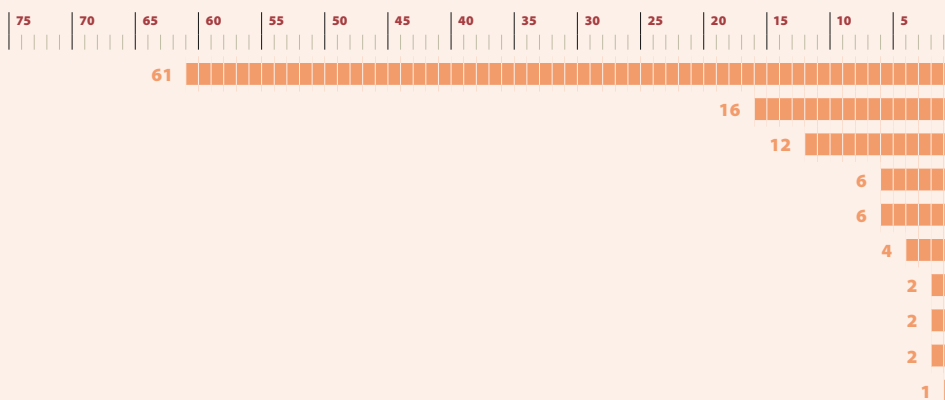
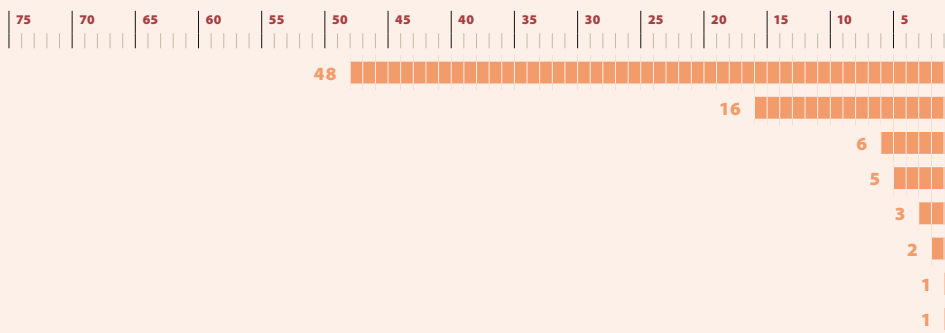
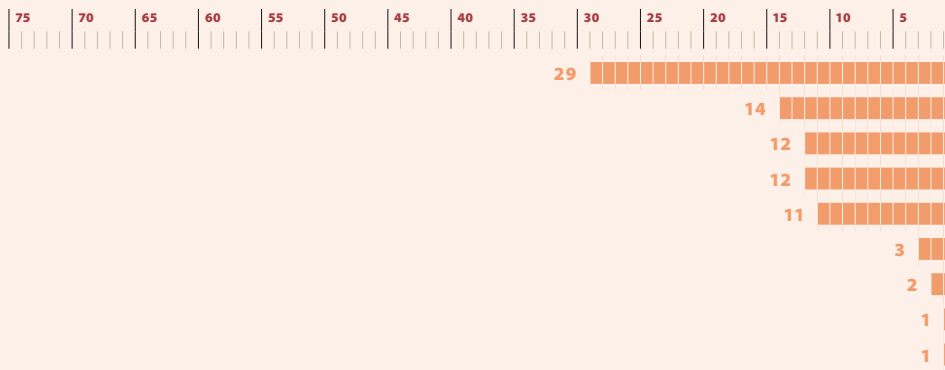
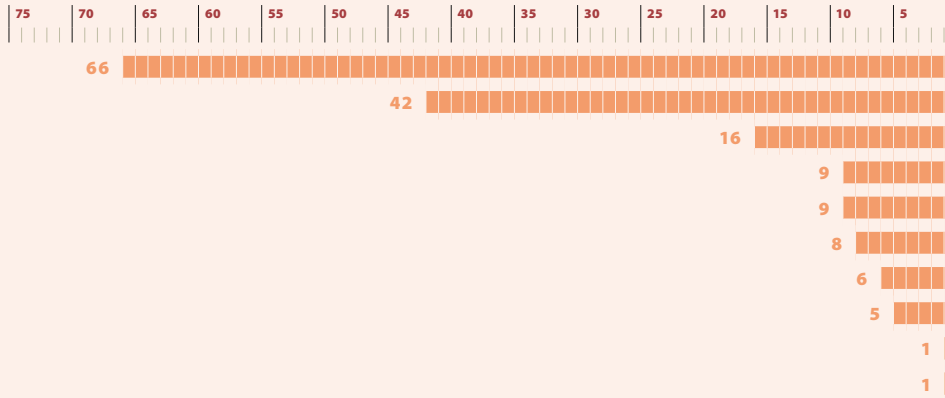
- Falls, slips and trips
- Contact with objects and equipment
- Exposure to harmful substances or environments
- Transportation (Pedestrian)
- Transportation (Roadway)
- Transportation (Non-roadway)
- Violence and other injuries by person or animals
- Overexertion and bodily reaction
- Transportation (Air, Rail, Mobile Machinery)

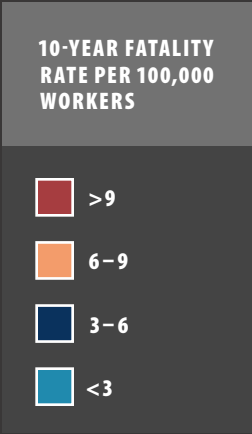
Forestry and Logging

- Contact with objects and equipment
- Transportation (Roadway)
- Transportation (Non-roadway)
- Falls, slips and trips
- Exposure to harmful substances or environments
- Violence and other injuries by person or animals
- Nonclassifiable
- Transportation (Pedestrian)

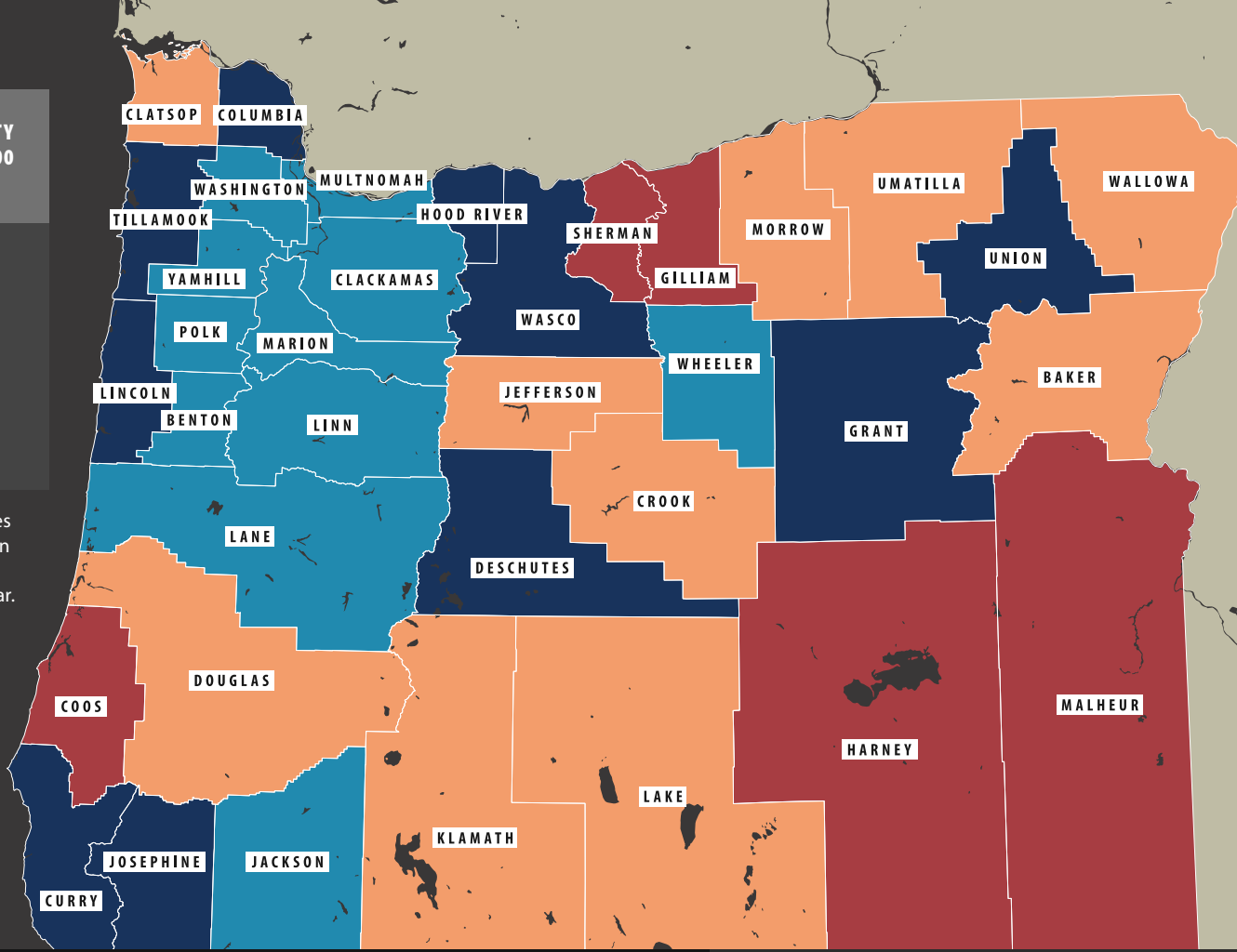
Transportation

- Transportation (Roadway)
- Contact with objects and equipment
- Transportation (Pedestrian)
- Falls, slips and trips
- Violence and other injuries by person or animals
- Exposure to harmful substances or environments
- Fires and explosions
- Transportation (Air)
- Transportation (Non-roadway)
- Nonclassifiable





The rates in counties with low population density are highly variable year by year.



Oregon county labor statistics, 10-year fatality trend, 2022 fatality count, and 10-year fatality rate.

| | TOTAL POP. 2022 | LABOR FORCE 2022 | FATALITIES 2012-2021 | FATALITIES 2022 | 10-YR RATE PER 100,000 WORKERS |
|-----------|--------------------|---------------------|-------------------------|--------------------|--------------------------------------|
| Baker | 17,148 | 7,082 | 5 | 0 | 6.99 |
| Benton | 95,594 | 47,366 | 10 | 2 | 2.48 |
| Clackamas | 430,421 | 218,564 | 35 | 3 | 1.74 |
| Clatsop | 41,971 | 18,802 | 11 | 1 | 6.13 |
| Columbia | 53,156 | 23,973 | 9 | 0 | 3.86 |
| Coos | 65,112 | 25,196 | 24 | 2 | 9.69 |
| Crook | 26,162 | 10,607 | 5 | 1 | 6.26 |
| Curry | 23,897 | 8,715 | 4 | 1 | 5.63 |
| Deschutes | 207,561 | 98,937 | 23 | 5 | 3.00 |

2.58

2012-2022 OVERALL FATALITY RATE PER 100,000 EMPLOYEES

2.68

2022 OVERALL FATALITY RATE PER 100,000 EMPLOYEES

The employed Oregon labor force (as reported by BLS) is used as a denominator for the fatality rate. The figure is adjusted to represent a rate of 100,000 full-time employees. Thus, the 10-year fatality rate is calculated by adding up all fatalities from every year, multiplying by 100,000, and then dividing by the summed Oregon labor force across the 10 years.

Table continues on following page >

| | TOTAL POP. 2022 | LABOR FORCE 2022 | FATALITIES 2012-2021 | FATALITIES 2022 | 10-YR RATE PER 100,000 WORKERS |
|------------|--------------------|---------------------|-------------------------|--------------------|--------------------------------------|
| Douglas | 111,716 | 45,215 | 32 | 6 | 8.16 |
| Gilliam | 2,071 | 918 | 2 | 0 | 21.66 |
| Grant | 7,337 | 3,016 | 1 | 0 | 3.17 |
| Harney | 7,640 | 3,622 | 4 | 0 | 11.38 |
| Hood River | 23,894 | 13,810 | 7 | 0 | 4.74 |
| Jackson | 224,013 | 101,844 | 26 | 1 | 2.59 |
| Jefferson | 25,404 | 9,735 | 8 | 0 | 8.11 |
| Josephine | 88,695 | 34,760 | 12 | 1 | 3.73 |
| Klamath | 70,848 | 28,496 | 16 | 3 | 6.46 |
| Lake | 8,246 | 3,493 | 3 | 0 | 7.48 |
| Lane | 383,958 | 175,024 | 52 | 4 | 2.76 |
| Lincoln | 51,090 | 19,922 | 7 | 2 | 3.74 |
| Linn | 131,194 | 58,834 | 13 | 1 | 2.14 |
| Malheur | 32,095 | 12,126 | 16 | 0 | 10.66 |
| Marion | 348,616 | 163,052 | 28 | 5 | 1.80 |
| Morrow | 12,315 | 5,750 | 6 | 0 | 8.96 |
| Multnomah | 810,242 | 450,658 | 63 | 7 | 1.37 |
| Polk | 90,593 | 40,924 | 10 | 0 | 2.33 |
| Sherman | 1,938 | 929 | 1 | 0 | 9.66 |
| Tillamook | 27,868 | 11,625 | 6 | 1 | 5.24 |
| Umatilla | 80,401 | 36,310 | 27 | 0 | 6.46 |
| Union | 26,673 | 11,630 | 8 | 0 | 5.82 |
| Wallowa | 7,541 | 3,419 | 2 | 1 | 7.98 |
| Wasco | 26,794 | 12,923 | 4 | 1 | 3.26 |
| Washington | 609,219 | 323,660 | 29 | 5 | 0.95 |
| Wheeler | 1,436 | 715 | 0 | 0 | 0.00 |
| Yamhill | 108,993 | 54,288 | 14 | 1 | 2.52 |
| Unknown | | | 1 | 2 | |



ABSTRACTS

Fatal occupational incidents in Oregon by type of event in 2022

| |
|---------------------------------------------------|
| Contact With Objects and Equipment |
| Exposure to Harmful Substances or Environments |
| Falls, Slips, and Trips |
| Fires and Explosions |
| Transportation |
| Violence and Other Injuries by Persons or Animals |
| Nonclassifiable |



CONTACT WITH OBJECTS AND EQUIPMENT

| | | | |
|-------------|-----------------------------------------|----------------|--------------|
| DESCRIPTION | Struck by excavator bucket | SEASON | Winter |
| INDUSTRY | Construction | COUNTY | Clackamas |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-06-1 |

Two employees were compacting gravel in a one-foot-deep trench in the roadway. While they were working, an excavator rolled downhill on wet pavement, and the excavator bucket struck both employees. As a result, the general laborer was killed. He died of head trauma.

| | | | |
|-------------|----------------------------------------------|----------------|--------------|
| DESCRIPTION | Crushed by mini train engine | SEASON | Winter |
| INDUSTRY | Arts, Entertainment, and Recreation | COUNTY | Klamath |
| OCCUPATION | Education, Training, and Library Occupations | OR-FACE NUMBER | OR 2022-08-1 |

A 71-year-old railroad museum volunteer was working on a mini train engine that weighed approximately 1,000 pounds. He was later found lying on the floor with the train engine on his head.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by shower enclosure | SEASON | Spring |
| INDUSTRY | Retail Trade | COUNTY | Washington |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-18-1 |

A 63-year-old order filler was working in a warehouse fulfilling internet orders. He was moving a shower enclosure when it fell and hit him on the head. He went to the hospital two days later and needed neurosurgery. He died five days after the incident occurred.

| | | | |
|--------------------|----------------------------------|-----------------------|---------------------|
| DESCRIPTION | Pinned by pocket carriage | SEASON | Spring |
| INDUSTRY | Manufacturing | COUNTY | Klamath |
| OCCUPATION | Production Occupations | OR-FACE NUMBER | OR 2022-19-1 |

A 36-year-old wood product grader was cleaning a pocket stacker and didn't lock out/tag out the equipment. She was found unresponsive, pinned between the pocket carriage and the ground. She was transported to the hospital, where she died the next day.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree | SEASON | Spring |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Douglas |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-20-1 |

A 40-year-old timber faller was working at a logging site falling trees with another worker when a tree struck him. The tree had recently been cut and came free unexpectedly, pinning the timber faller until his co-worker could free him. He died on the scene.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Crushed by tractor tire | SEASON | Spring |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Benton |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-27-1 |

An 86-year-old farmer was changing a tractor tire when the tractor tire fell on him. He died of asphyxiation (lack of air).

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree branch | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Douglas |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-29-1 |

A 35-year-old timber faller was falling trees at a remote logging site when he was struck in the head by a large branch. He died at the scene.

| | | | |
|--------------------|----------------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Pinned by riding lawn mower | SEASON | Summer |
| INDUSTRY | Admin., Waste Management, and Remediation Services | COUNTY | Deschutes |
| OCCUPATION | Building, Grounds Cleaning, and Maintenance Occupations | OR-FACE NUMBER | OR 2022-37-1 |

A 54-year-old landscaper was operating a riding lawn mower when he collided head-on with a fence. The mower got stuck on a fence post and pinned him between the fence and the mower. He died of asphyxiation (lack of air) from the weight of the lawn mower.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Washington |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-43-1 |

A 39-year-old logger was falling a Douglas fir tree to drive another tree over, creating a domino effect. The Douglas fir sprang back and struck the victim in the head, resulting in skull fractures despite wearing a hard hat.

| | | | |
|--------------------|----------------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree limb | SEASON | Autumn |
| INDUSTRY | Admin., Waste Management, and Remediation Services | COUNTY | Multnomah |
| OCCUPATION | Building, Grounds Cleaning, and Maintenance Occupations | OR-FACE NUMBER | OR 2022-44-1 |

A 37-year-old arborist was on the ground assisting in tree removal by handling the lines to lower the limbs being cut by a worker above. It is speculated that the arborist lost control of the lines, resulting in a limb falling and striking him. He died on the scene.

EXPOSURE TO HARMFUL SUBSTANCES OR ENVIRONMENTS

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Electrocution | SEASON | Spring |
| INDUSTRY | Manufacturing | COUNTY | Deschutes |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-21-1 |

A 23-year-old truck driver was delivering large concrete blocks to a project site. While using a boom lift to help with the delivery, the boom of the truck touched overhead power lines, electrocuting the truck driver. He was pronounced dead at the scene.

FALLS, SLIPS, AND TRIPS

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall from roof | SEASON | Spring |
| INDUSTRY | Construction | COUNTY | Unknown |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-03-1 |

A 28-year-old roofer was paralyzed when he fell 30 feet to asphalt from a roof. Thirty-three years later, he died of his traumatic injuries.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall to lower level | SEASON | Winter |
| INDUSTRY | Transportation and Warehousing | COUNTY | Jackson |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-05-1 |

A 58-year-old equipment operator fell from a front-end loader that had just been secured to a trailer. He had a suspected head injury from the fall. He was transported to the hospital, where he died three days later.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Slip | SEASON | Winter |
| INDUSTRY | Wholesale Trade | COUNTY | Multnomah |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-09-1 |

A 62-year-old distribution center worker was walking across the parking lot when she slipped on ice and broke her femur. She was transported to the hospital, where she later died.

| | | | |
|--------------------|-------------------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall to lower level | SEASON | Winter |
| INDUSTRY | Retail Trade | COUNTY | Curry |
| OCCUPATION | Arts, Design, Entertainment, Sports, and Media Occupations | OR-FACE NUMBER | OR 2022-12-1 |

A 68-year-old art gallery owner fell from the eighth rung of a ladder, hitting her head on the ground. She was transported to the hospital, where she died later that day.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall from roof | SEASON | Spring |
| INDUSTRY | Construction | COUNTY | Coos |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-28-1 |

A 37-year-old contractor fell 26 feet from a rafter that was under construction. He died of blunt force head trauma.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall to lower level | SEASON | Summer |
| INDUSTRY | Wholesale Trade | COUNTY | Multnomah |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-32-1 |

A 24-year-old Distribution Center Associate was operating an elevated work platform to pick orders when he fell approximately 20 feet to the ground. There were no witnesses to his fall. He was found unconscious moments after his fall by other employees. He was wearing a fall harness, and the lanyard was still attached to the elevated work platform. He was transported to the hospital, where he died five days later.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall from roof | SEASON | Summer |
| INDUSTRY | Construction | COUNTY | Marion |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-39-1 |

While working on the roof of a distribution center, a 52-year-old roofer accidentally struck a wasp nest with his hammer. Subsequently, several wasps started stinging him. In an attempt to prevent being stung, he was swatting away wasps when he accidentally stepped backward through a Styrofoam panel. He fell 25 feet below head-first onto a stack of boxes and then to the concrete floor. He died at the scene.

| | | | |
|--------------------|-----------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Slip | SEASON | Autumn |
| INDUSTRY | Educational Services | COUNTY | Washington |
| OCCUPATION | Education, Training, and Library Occupations | OR-FACE NUMBER | OR 2022-47-1 |

A 57-year-old teacher underwent knee surgery after slipping on applesauce in the school hallway and breaking her kneecap. She died 35 days later from a pulmonary embolism.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Fall to lower level | SEASON | Autumn |
| INDUSTRY | Construction | COUNTY | Washington |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-51-1 |

A 70-year-old construction superintendent was filling a large construction debris trash container. While climbing down from the container, he fell and hit his head on the ground, knocking him unconscious. He was transported to the hospital, where he died 12 days later.

FIRES AND EXPLOSIONS

| | | | |
|--------------------|---------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Explosion | SEASON | Winter |
| INDUSTRY | Public Administration | COUNTY | Marion |
| OCCUPATION | Protective Service Occupations | OR-FACE NUMBER | OR 2022-11-1 |

A 30-year-old volunteer firefighter working a fire at a chicken farm was laying a hose straight when an explosion occurred. He was struck by a piece of debris and was transported to the hospital. He died shortly upon arrival at the hospital.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Douglas |
| OCCUPATION | Protective Service Occupations | OR-FACE NUMBER | OR 2022-34-1 |

A falling tree struck a 27-year-old wildland firefighter battling a fire. Despite lifesaving efforts from emergency medical services personnel, he died at the scene.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by tree | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Josephine |
| OCCUPATION | Protective Service Occupations | OR-FACE NUMBER | OR 2022-38-1 |

A 25-year-old wildland firefighter had just arrived at the site of the fire and was checking in for his assignment when he was struck by a tree. The tree that fell appeared to be a live green tree, but had prior fire damage at its base. He died en route to the hospital. For more details, see OR-FACE investigation [2022-OR-01](#).

TRANSPORTATION INCIDENTS

| | | | |
|--------------------|--------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Unknown |
| INDUSTRY | Retail Trade | COUNTY | Deschutes |
| OCCUPATION | Sales and Related Occupations | OR-FACE NUMBER | OR 2022-01-1 |

A 30-year-old store owner was driving to a job site when he drove off the side of the road and was paralyzed due to a single motor vehicle accident. Forty-seven years later, he died of pneumonia.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by vehicle | SEASON | Winter |
| INDUSTRY | Construction | COUNTY | Yamhill |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-10-1 |

A 60-year-old superintendent was on site with an excavation crew waiting for flaggers to arrive. The superintendent was walking alongside the highway cones that the excavation crew had set up on the road. While he was walking alongside the road, he was struck by a motor vehicle from behind.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Winter |
| INDUSTRY | Retail Trade | COUNTY | Clatsop |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-13-1 |

A 46-year-old truck driver driving a commercial motor vehicle towing a flatbed trailer crossed over the opposing lanes of traffic and went off the road. The truck struck a tree and rolled on its side. He was pronounced dead at the scene.

| | | | |
|--------------------|--------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Spring |
| INDUSTRY | Health Care and Social Assistance | COUNTY | Marion |
| OCCUPATION | Community and Social Services Occupations | OR-FACE NUMBER | OR 2022-14-1 |

A 35-year-old outreach coordinator was driving on a freeway when he rear-ended a semi-truck towing a fully loaded trailer. He was pronounced dead at the scene.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Capsized fishing vessel | SEASON | Spring |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Lane |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-15-1 |

A 39-year-old fisherwoman was salmon fishing approximately 30 miles off the coast of Oregon when the boat she was on took on water and rolled. She died of saltwater drowning.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Capsized fishing vessel | SEASON | Spring |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Lane |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-15-2 |

A 68-year-old boat captain was salmon fishing approximately 30 miles off the coast of Oregon when his boat took on water and rolled. He was never found but has been presumed deceased.

| | | | |
|--------------------|------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by vehicle | SEASON | Spring |
| INDUSTRY | Construction | COUNTY | Clackamas |
| OCCUPATION | Construction and Extraction Occupations | OR-FACE NUMBER | OR 2022-22-1 |

A 41-year-old foreman was operating a screed when a dump truck loaded with asphalt was instructed to back up to the screed. As the dump truck was backing up, the foreman fell into the path of the dump truck. The foreman was struck and ran over by the dump truck.

| | | | |
|--------------------|-------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Spring |
| INDUSTRY | Construction | COUNTY | Douglas |
| OCCUPATION | Unknown | OR-FACE NUMBER | OR 2022-25-1 |

A construction worker driving a vehicle was involved in a motor vehicle accident. As a result, his vehicle caught fire, and he was unable to exit it. He was pronounced dead at the scene.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Spring |
| INDUSTRY | Transportation and Warehousing | COUNTY | Lincoln |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-26-1 |

A 67-year-old truck driver was towing an unloaded chip trailer and heading east when he crossed over the eastbound shoulder before over-correcting and crossing the center line and the opposing lanes of traffic. The truck struck multiple trees on the westbound shoulder. He was pronounced dead at the scene.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Grapple skidder overturn | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Douglas |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-31-1 |

A 54-year-old logging equipment operator was operating a grapple skidder (a type of tractor used to move logs) on a logging road when the skidder went off the roadway and rolled over 600 feet down an embankment before stopping. He died of crushing injuries.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by vehicle | SEASON | Summer |
| INDUSTRY | Transportation and Warehousing | COUNTY | Klamath |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-33-1 |

A 32-year-old tow truck driver was retrieving a vehicle from the side of a highway when he was struck and killed by another vehicle.

| | | | |
|--------------------|-----------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by vehicle | SEASON | Summer |
| INDUSTRY | Admin., Waste Management, and Remediation Services | COUNTY | Multnomah |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-35-1 |

While directing a truck to park in a large parking lot, a 71-year-old general laborer (driver) was struck by an SUV, causing him to fall to the ground and strike his head on a tire. He was transported to the hospital, where he died 42 days later.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Summer |
| INDUSTRY | Transportation and Warehousing | COUNTY | Lincoln |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-36-1 |

A vehicle driving southbound on a highway suddenly stopped. In response to the stopped vehicle, the vehicle behind it crossed the center line into the northbound lane, where a 69-year-old truck driver driving northbound struck the oncoming vehicle head-on. His truck rolled down an embankment. The truck driver was not wearing a seatbelt. He died at the scene.

| | | | |
|--------------------|---------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Summer |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Marion |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-40-1 |

While driving an all-terrain vehicle (ATV), a 56-year-old berry picker was involved in a collision where a motorcyclist struck the side of his ATV head-on. The berry picker was transported to the hospital, where he died 31 days later from his traumatic injuries sustained in the accident.

| | | | |
|--------------------|------------------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Summer |
| INDUSTRY | Admin., Waste Management, and Remediation Services | COUNTY | Douglas |
| OCCUPATION | Building and Grounds Cleaning and Maintenance Occupations | OR-FACE NUMBER | OR 2022-41-1 |

A 56-year-old landscaper was driving on a highway when he veered off the road. The vehicle went into a ditch, through a fence, and crashed into a tree. He died at the scene.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Autumn |
| INDUSTRY | Transportation and Warehousing | COUNTY | Marion |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-45-1 |

A 70-year-old truck driver driving for over 13 hours was driving around a curve when he veered off the side of the road over an embankment. His truck caught on fire, and he died at the scene.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Autumn |
| INDUSTRY | Transportation and Warehousing | COUNTY | Lane |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-46-1 |

A 38-year-old truck driver lost control of his truck, flipping it on the driver's side. The truck slid for quite some distance before striking a guardrail. The truck continued to slide down the guardrail, pinning the driver inside the cab. He was extracted from the cab and was transported to the hospital, where he later died.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Autumn |
| INDUSTRY | Transportation and Warehousing | COUNTY | Linn |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-48-1 |

A 63-year-old truck driver hit a semi-truck that was stopped due to an accident on the interstate in front of him. As a result, his truck caught fire, and he was trapped inside the cab. He died at the scene.

| | | | |
|--------------------|------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Autumn |
| INDUSTRY | Health Care and Social Assistance | COUNTY | Coos |
| OCCUPATION | Business and Financial Operations Occupations | OR-FACE NUMBER | OR 2022-49-1 |

A 62-year-old financial consultant who works from home but travels to different facilities assisting with billing was driving home from a facility when she was involved in a motor vehicle accident.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Autumn |
| INDUSTRY | Transportation and Warehousing | COUNTY | Tillamook |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-53-1 |

A 42-year-old truck driver was driving a heavily loaded gravel truck on a logging road when he lost control of the truck. The truck rolled and struck a tree, killing the truck driver.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by vehicle | SEASON | Autumn |
| INDUSTRY | Transportation and Warehousing | COUNTY | Crook |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-54-1 |

A 59-year-old truck driver stopped his truck on the side of a highway. He proceeded to get out and attempted to cross five lanes of traffic on foot when he was struck and killed by a vehicle.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Motor vehicle accident | SEASON | Winter |
| INDUSTRY | Transportation and Warehousing | COUNTY | Wasco |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-55-1 |

A 53-year-old truck driver was struck by a falling tree while driving due to hazardous weather conditions. He died at the scene.

VIOLENCE AND OTHER INJURIES BY PERSONS OR ANIMALS

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Cattle stampede | SEASON | Unknown |
| INDUSTRY | Agriculture, Forestry, Fishing and Hunting | COUNTY | Unknown |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-04-1 |

A 70-year-old cattle truck driver was stampeded by cattle while moving a load of cattle, sustaining a punctured bowel. Fifteen months later, he died from septicemia.

| | | | |
|--------------------|-------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Winter |
| INDUSTRY | Wholesale Trade | COUNTY | Deschutes |
| OCCUPATION | Management Occupations | OR-FACE NUMBER | OR 2022-07-1 |

A 55-year-old business owner died of a self-inflicted gunshot wound.

| | | | |
|--------------------|-------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Spring |
| INDUSTRY | Transportation and Warehousing | COUNTY | Multnomah |
| OCCUPATION | Transportation and Material Moving Occupations | OR-FACE NUMBER | OR 2022-16-1 |

A 39-year-old rideshare driver was murdered. He died of a gunshot wound at the scene.

| | | | |
|--------------------|---------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Spring |
| INDUSTRY | Public Administration | COUNTY | Wallowa |
| OCCUPATION | Protective Service Occupations | OR-FACE NUMBER | OR 2022-17-1 |

A 48-year-old police officer was found dead in his patrol car. He died of a self-inflicted gunshot wound.

| | | | |
|--------------------|-------------------------------|-----------------------|---------------------|
| DESCRIPTION | Stab wound | SEASON | Spring |
| INDUSTRY | Manufacturing | COUNTY | Clackamas |
| OCCUPATION | Production Occupations | OR-FACE NUMBER | OR 2022-23-1 |

A customer walked into the main office of a manufacturing business and requested to speak with the manufacturing manager. The 60-year-old manufacturing manager stepped outside with the customer when the customer pulled out a knife and stabbed the manufacturing manager in the throat. He was transported to the hospital, where he died later that day.

| | | | |
|--------------------|-----------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Spring |
| INDUSTRY | Admin., Waste Management, and Remediation Services | COUNTY | Multnomah |
| OCCUPATION | Protective Service Occupations | OR-FACE NUMBER | OR 2022-24-1 |

While working at his regular post, a 22-year-old security guard had not been heard from in a bit. The security guard was then found in his vehicle deceased. He had been shot by another person.

| | | | |
|--------------------|------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Asphyxiation (lack of air) | SEASON | Summer |
| INDUSTRY | Wholesale Trade | COUNTY | Benton |
| OCCUPATION | Office and Administrative Support Occupations | OR-FACE NUMBER | OR 2022-30-1 |

Approximately two hours after clocking into work, a 36-year-old inventory specialist was found deceased in the parking lot. He died by suicide.

| | | | |
|--------------------|--------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Summer |
| INDUSTRY | Retail Trade | COUNTY | Deschutes |
| OCCUPATION | Sales and Related Occupations | OR-FACE NUMBER | OR 2022-42-1 |

A gunman entered a grocery store and started shooting. A 66-year-old grocery store clerk engaged with the gunman to attempt to disarm him but was shot and killed.

| | | | |
|--------------------|-----------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Struck by table | SEASON | Autumn |
| INDUSTRY | Health Care and Social Assistance | COUNTY | Washington |
| OCCUPATION | Healthcare Practitioners and Technical Occupations | OR-FACE NUMBER | OR 2022-50-1 |

A 57-year-old nurse was providing in-home care for a patient when the patient’s son assaulted the nurse by hitting her on the head with a table. She was transported to the hospital, where she later died.

| | | | |
|--------------------|---------------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Gunshot wound | SEASON | Autumn |
| INDUSTRY | Accommodation and Food Services | COUNTY | Multnomah |
| OCCUPATION | Food Preparation and Serving Related Occupations | OR-FACE NUMBER | OR 2022-52-1 |

A 26-year-old cook told the owner of the tavern he had to go home. He then proceeded to the rear of the establishment, where he died of a self-inflicted gunshot wound.

NONCLASSIFIABLE

| | | | |
|--------------------|----------------------------------------------------|-----------------------|---------------------|
| DESCRIPTION | Unknown logging accident | SEASON | Winter |
| INDUSTRY | Agriculture, Forestry, Fishing, and Hunting | COUNTY | Lane |
| OCCUPATION | Farming, Fishing, and Forestry Occupations | OR-FACE NUMBER | OR 2022-02-1 |

A 46-year-old timber faller had a logging accident where he sustained traumatic injuries. Thirty-eight years later, he died of aspiration pneumonia. The sequence of events of the accident are unknown.

DELAYED CASES | Worker fatalities with a death delayed 48+ hours from the date of injury, 2022.

| EVENT | CAUSE OF DEATH | INTERVAL | OR-FACE NUMBER |
|------------------------------------|------------------------------|-----------------------------|-----------------------|
| Fall | Head injury | 3 days | OR 2022-05-1 |
| Contact with objects and equipment | Struck by shower enclosure | 5 days | OR 2022-18-1 |
| Fall | Head trauma | 5 days | OR 2022-32-1 |
| Violence by another person | Head trauma | 9 days | OR 2022-50-1 |
| Fall | Head trauma | 12 days | OR 2022-51-1 |
| Transportation incident | Multiple traumatic injuries | 30 days | OR 2022-40-1 |
| Slip | Pulmonary embolism | 35 days | OR 2022-47-1 |
| Transportation incident | Head trauma | 42 days | OR 2022-35-1 |
| Violence by animals | Septicemia | 1 year, 2 months, 28 days | OR 2022-04-1 |
| Fall | Complications from paralysis | 33 years, 11 days | OR 2022-03-1 |
| Unknown logging accident | Aspiration pneumonia | 38 years, 9 months, 13 days | OR 2022-02-1 |
| Transportation incident | Pneumonia | 47 years, 1 month, 6 days | OR 2022-01-1 |



EVENT DEFINITIONS

The event or exposure describes the manner in which the injury or illness was produced or inflicted by the source of injury or illness.

Adapted from US Bureau of Labor Statistics (2012), *Occupational Injury and Illness Classification Manual*. US Department of Labor. Accessed online (April 2023) <https://www.bls.gov/iif/definitions/oiiics-manual-2010.pdf>

Assaults and Violent Acts

Assaults and violent acts include cases where a person was injured or made ill by assaults, or by violent, harmful actions regardless of intent. Included in this definition are assaults by others, injuries to oneself, and assaults by animals. This category includes injuries occurring in a hostile environment even though the person injured was not the intended victim, such as a teacher hit while breaking up a fight.

Bodily Reaction and Exertion

This event definition applies to cases, usually non-impact, in which injury or illness resulted from free bodily motion, from excessive physical effort, from repetition of a bodily motion, from the assumption of an unnatural position, or from remaining in the same position over a period of time.

Contact With Objects and Equipment

This event applies to injuries produced by contact between the injured person and the source of injury except when contact was due to falls, transportation incidents, fires, explosions, assaults, or violent acts. Contact may be denoted by a statement that the injured person struck or was struck by an object, was caught in an object, rubbed against an object, or by words such as "hit by," or "hit," "bumped into," "crushed by," or "banged."

Exposure to Harmful Substances or Environments

This event definition applies to cases in which the injury or illness resulted from contact with, or exposure to, a condition or substance in the environment. Cases of burns, heat stress, smoke inhalation, or oxygen deficiency resulting from an uncontrolled or unintentional fire are generally coded fire and explosions, unless a transportation incident or assault or violent act was involved.

Falls

Falls are events where the injury was produced by an impact between the injured person and an object or surface when the motion was generated by gravity.

Fires and Explosions

This event definition applies to cases where the injury or illness resulted from an explosion or fire. Included are cases where the person fell or jumped from a burning building, inhaled a harmful substance, or was struck by or struck against an object as a result of an explosion or fire. This definition also includes incidents where the worker was injured due to being trapped in a fire or whose respirator had run out of oxygen during a fire. Excluded from this category are injuries to firefighters resulting from lifting fire hoses and falls not related to the fire or explosion itself, such as falls in the parking lot of a burning building.



ABOUT

The Oregon Institute of Occupational Health Sciences at Oregon Health & Science University

The Oregon Institute of Occupational Health Sciences is dedicated to health and safety in the workforce. The Institute's mission is to promote health, and prevent disease and disability among working Oregonians and their families during their employment years and through retirement. The Institute accomplishes this mission through basic and applied research, outreach, and education.

Oregon Health & Science University (OHSU) is a nationally prominent research university and Oregon's only academic health center. It educates health professionals and scientists and provides leading-edge patient care, community service and biomedical research.

OR-FACE

The Oregon Fatality Assessment and Control Evaluation (OR-FACE) is a project of the Oregon Institute of Occupational Health Sciences at Oregon Health & Science University. OR-FACE is supported by a cooperative agreement with the National Institute for Occupational Safety and Health (NIOSH) (grant #U60OH012411) through the Occupational Public Health Program (OPHP) of the Public Health Division of the Oregon Health Authority.

OR-FACE conducts surveillance, investigation, and assessment of traumatic occupational fatalities in Oregon, and produces safety materials to promote worker safety aimed at preventing similar injuries. OR-FACE investigations of fatal occupational incidents assess risk factors that include the working environment, the worker, activity, tools, energy exchange, and role of management.

Transportation Incidents

This event definition applies to events involving transportation vehicles, powered industrial vehicles, or powered mobile industrial equipment where at least one vehicle (or mobile equipment) was in normal operation and the injury/illness was due to collision or other type of traffic accident, loss of control, or a sudden stop, start, or jolting of a vehicle, regardless of the location where the event occurred. References to "vehicles" should be interpreted to include powered industrial vehicles and powered mobile industrial equipment unless otherwise noted. Cases classified under this event definition include pedestrians, roadway workers, or other non-passengers struck by vehicles, powered industrial equipment on or off the roadway (including indoor locations) when the incident meets these criteria:

- (a) at least one vehicle was in regular operation, and
- (b) the impact was caused by a traffic incident or forward/backward travel of the vehicle.

Other Events or Exposures

This event definition applies to any event or exposure that is not classified or listed under any other division.



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Published 2024. To ensure accurate fatality surveillance, each Annual Report has historically been published approximately 18 months after the end of a study year, as some cases need more time to properly be classified as workplace fatalities by the appropriate authorities.

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