

## **Project: Improving occupational health in Oregon: Turning data into action**

Grant number: U60 OH008472

Budget period: July 1, 2014 – June 30, 2015

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## **Occupational Health Indicator (OHI) Component**

The OHI component of *Improving Occupational Health in Oregon: Turning Data to Action* is conducted in partnership with sister programs within the Environmental Public Health Section of the Public Health Division of the Oregon Health Authority (OHA).

### The objectives of the OHI component are:

- Maintain and strengthen Oregon's surveillance system to capture OHI activities
- Conduct comprehensive and rigorous analysis of Oregon specific OHI data to assess the state of occupational health and safety in Oregon
- Develop and implement a comprehensive communication and outreach effort to disseminate the findings of the program
- Maintain and strengthen the Occupational Public Health Program (OPHP) Advisory Committee to enhance and expand collaboration
- Explore economic costs associated with specific conditions
- Evaluate the fundamental surveillance system and other aspects of the Oregon Occupational Public Health Program

## **MAJOR OUTPUTS/PRODUCTS**

### **Reports -**

Annual OHI indicators calculated and published:

<http://public.health.oregon.gov/HealthyEnvironments/WorkplaceHealth/Pages/fundamental.aspx>

### **Presentations -**

Cain, Daniel. "Oregon Young Employee Safety coalition annual video contest winners presentation." 2014 Southern Oregon Occupational Safety & Health Conference. Medford, OR. 16 October 2014. Oral presentation.

Cain, Daniel. "Lead Poisoning Prevention in Oregon." Oregon State University Occupational Health Course. Corvallis, OR. 4 May 2015. Oral presentation.

Cain, Daniel. "Burden of Injuries on Oregon Young Workers." National Occupational Injury Research Symposium. Kingwood, WV. 19 May 2015. Oral presentation

**New Partnerships -**

OHI partnered with Oregon State University's College of Public Health and Human Sciences in support of PhD candidate Laura Syron's work on occupational health issues in the seafood industry.

OHI supported and contributed to agency public health emergency response efforts during the Ebola crisis. In addition to outcomes noted below, OHI is providing industrial hygiene expertise as part of a CDC-funded evaluation of Oregon's Ebola assessment hospitals.

**OUTREACH/INTERVENTION OUTCOMES**

**Potential Outcomes** – OHI staff developed and disseminated guidance for prevention of Ebola during waste management, patient care, and custodial operations.

OHI staff also consulted frequently with public and private sector employers in a variety of industries including healthcare, emergency medical services, solid waste management, wastewater treatment, and law enforcement.

**Oregon Fatality Assessment and Control Evaluation (OR-FACE)**  
**July 1, 2014 - June 30, 2015**

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The OR-FACE project of *Improving Occupational Health in Oregon: Turning Data to Action* is conducted in partnership with the Oregon Institute of Occupational Health Sciences at Oregon Health & Science University (OHSU).

The objectives of the OR-FACE program are:

- Maintain occupational fatality surveillance and investigation activities
- Develop intervention strategies designed to reduce occupational fatalities associated with falls
- Continue interventions in current areas of concern related to young workers, immigrant workers, commercial fishermen, and logging
- Develop other outreach and intervention activities in priority areas as appropriate
- Collaborate with institutional partners to develop effective intervention strategies
- Evaluate program activities

## **MAJOR OUTPUTS/PRODUCTS**

**Surveillance** –OR-FACE recorded 43 fatalities in 2013, 47 fatalities in 46 incidents in 2012, 59 cases in 2011 and 50 deaths in 48 fatal incidents in 2010. Provisionally, OR-FACE has recorded 57 cases in 54 incidents in 2014 and 21 incidents with 22 fatalities in 2015.

**Investigation Reports** – Four investigation reports were published July 2014 through June 30, 2015, and two are currently in progress.

- OR 2013-27-1: “Collapsed roof trusses kill carpenter foreman.” Outlines risks of truss system collapse without proper bracing. Recommendations are provided for alternate methods to prevent system collapse and reduce risks of falls when erecting roof trusses. (published Jul 2014)
- OR-2013-08-1: “Contract sanitation worker killed cleaning meat blending equipment.” Outlines risks of exposures to unguarded machine parts. Recommendations are provided for guarding, lockout/tagout procedures and improving collaboration of host with contract/temporary employer. (published Dec 2014)
- OR-2013-05-1: “Vineyard worker killed in fall from moving trailer.” Outlines risks of modifying, installing or retrofitting components of equipment. (published Feb 2015)
- OR-2014-1-1: “Driver killed when ejected from logging truck.” Outlines risks of driving on logging roads with poor visibility and failure to use seat belts. (published Mar 2015)
- OR-2014-10-1: “Worker thrown from platform of collapsing conveyor leg dies in fall.” (In progress)

- OR-2014-42-1: “Worker driving through active logging site dies when tree struck vehicle” (In progress)

### Additional Publications

- Hazard Alert: [Crab Fishing Hazard Alert](#) (Sep 2014)
- Annual Report: [OR-FACE 2012 Annual Report](#) (Jul 2014)
- Toolbox Talk Guide: [Excavation worker killed by flying rigging when hook fails](#) (Sep 2014)
- Toolbox Talk Guide: [Truck driver crushed between semi-trailer and loading dock](#) (Sep 2014)
- Toolbox Talk Guide: [Load of lumber shifts and falls on construction worker](#) (Sep 2014)
- Toolbox Talk Guide: [Excavator Bucket killed mechanic during maintenance](#) (Sep 2014)
- Toolbox Talk Guide: [Construction worker dies when he leans out of the protective cage of a skid steer forklift](#) (Apr 2015)
- Toolbox Talk Guide: [Mechanic killed pouring gasoline on fire](#) (Mar 2015)
- Toolbox Talk Guide: [Auto salvage worker killed by unsecured car on transporter](#) (Apr 2015)
- Oregon and the Workplace Blog: [Online inventory of fall protection devices](#) (Dec 2014)
- Oregon and the Workplace Blog: [OR-FACE collaborates with Associated Oregon Loggers](#) (Nov 2014)
- Oregon and the Workplace Blog: [OR-FACE publishes more toolbox talk guides](#) (Oct 2014)
- Oregon and the Workplace Blog: [SAIF Agricultural Safety Seminars](#) (Mar 2015)
- Oregon and the Workplace Blog: [OR-FACE presents at logging and construction safety events](#) (Feb 2015)
- Oregon and the Workplace Blog: [Oregon participates in National Safety Stand-down to prevent fall in construction](#). (Jun 2015)
- Oregon and the Workplace Blog: [Tigard-Tualatin students learn about safety](#) .(May 2015).

### Presentations

- Gilbert-Jones, I. (Nov 2014). [OR-FACE mission, resources and proposed collaborative project](#). Associated Oregon Loggers Safety Conference, Eugene, OR.
- Gilbert-Jones, I. (Nov 2014). OR-FACE & OR-OSHA Collaboration on FACE investigations. Oregon OSHA Manager’s Meeting, Salem, OR
- Wimer, J. (Jan 2015) [OR-FACE History, Mission and Logging Safety](#), Washington Contract Loggers Association Safety Conference, Olympia, WA.
- Gilbert-Jones, I (Jan 2015) [OR-FACE Mission, Resources and Proposed Projects](#). Construction Safety Summit, Portland, OR
- Gilbert-Jones, I, Riffe, M., and Flood, J. (March 2015) *Research and Resources on Traumatic Occupational Incidents*. Oregon Governor’s Occupational Safety & Health Conference, Portland, OR.
- Gilbert-Jones, I (Apr 2015) *OR-FACE 2014-2015 Accomplishments and 2015-2020 Proposed Research*, Oregon Health Authority, Portland, OR
- Gilbert-Jones, I, (Apr 2015) *OSHA 10: General Industry, machine guarding*. [Community Experience for Career Education](#). Tualatin, OR.
- Gilbert-Jones, I. (May 2015) [“Lessons learned: safety stand-down to prevent falls in construction](#), Portland, OR.

- Olson, R., Gilbert-Jones, I (May 2015), [“Preventing Transportation Fatalities: Lessons learned from Oregon Cases,” Oregon Trucking Association](#), 2015 Oregon Trucking Association Leadership and Safety Summit. Gleneden Beach, OR.
- Olson, R., Gilbert-Jones, I (May 2015) [Temporary/Contingent Worker fatal injuries, Case Studies and Prevention Recommendations](#). Oregon Institute of Occupational Health Sciences Spring Symposium, Wilsonville, OR.

## OUTREACH/INTERVENTION OUTCOMES

### Intermediate Outcomes

- Intervention for preventing fatalities in construction  
OR-FACE partnered with the Pacific Northwest OSHA Education center to develop an outreach strategy for the national safety stand down campaign for fall prevention in construction. In addition to OR-OSHA and a local safety equipment supplier (Capital Safety), local advocacy groups ([ASSE Columbia-Willamette Chapter](#), [Columbia Willamette Chapter - Associated General Contractors](#), [Home Builders Association](#), and [SafeBuild Alliance](#) ) were contacted for collaboration and participation.
  - SafeBuild Alliance sponsored a Kick-Off event on May 1, with approximately 100 attendees. Posters were displayed of employer planned safety activities. Proclamations by cities, counties, and state for Safety Week were posted.
  - Free training, OSHA 7405, Fall Prevention Awareness in construction was conducted on May 8. There were 40 attendees. Speakers included OSHA Region X Director Cecil Tipton, OR-FACE, and OR-OSHA. The day included a question/answer session with a panel comprised of the speakers and partner representatives.
  - Campaign information dissemination included posting on OR-FACE and partner (AGC, HBA, SafeBuild Alliance) websites, announcements at association meetings with emails to members, article in ASSE newsletter, and articles on the Oregon and the Workplace Blog.

OR-FACE was invited to present at the Construction Safety Summit where the five published construction toolbox talks were introduced. Other OR-FACE resources that included investigation reports were discussed during the presentation.

- Intervention for preventing logging fatalities  
OR-FACE created toolbox talk guides based on Oregon logging fatalities. The Associated Oregon Loggers invited OR-FACE to present at their Annual Safety Conference in Eugene, OR. In addition to introducing toolbox talk guides, OR-FACE presentation included its mission and possible collaboration to prevent fatalities. There were 200 conference attendees.

As part of the Washington State Logger Safety Initiative, OR-FACE logging toolbox guides were distributed by Washington SHARP to approximately 200 logging contractors in Washington State. Furthermore, OR-FACE was asked to present to 500 attendees at the Washington Contract Loggers Association Safety Conference on January 2015 where toolbox talk guides and the booklet, “Fallers Logging Safety” were distributed.

- Identifying interventions for preventing agricultural-related fatalities. In response to an observed elevated risk of fatal events among agricultural workers under the age of 19 and

over the age of 65, OR-FACE partnered with SAIF Corporation to reach the target population with a training intervention. Specifically OR-FACE collaborated with SAIF to produce a training module presented in English and Spanish in the 2014-2015 annual SAIF Ag Safety Seminar Series. Topics included communication across generations and cause analysis of a tractor fatality. Twenty-seven sessions were held around the State from November 2014 through March 2015 with a total of 2,223 attendees. Eight of these sessions were conducted in Spanish.

**Distribution of Publications** – The goals of distributing existing publications are to influence employers’ hazard control and supervisory practices, influence policy makers’ occupational safety decisions, and to provide prevention information directly to line workers. In July 2014 through June 30, 2015, materials distributed and downloaded from the OR-FACE website included:

- Brochures/Booklets/Toolbox Guides/Alerts distributed
  - 250 Fallers Logging Safety (Washington Contract Loggers Safety Conference)
  - 50 English and 50 Spanish - Ag Safety: Can you identify fatal hazards (by mail)
  - 2500 Toolbox Guides (225 at conferences and 2300 via listserv)
  - 250 Snag Hazard Alert (via listserv)
- Four Investigation reports distributed as e-publications to over 250 subscribers via listserv and promoted via Oregon Institute of Occupational Health Sciences Facebook and Twitter.
- Annual report 2012 distributed as e-publication to over 250 subscribers via listserv and 50 via mail
- 11371 website views, 7322 unique visitors, and 5246 downloads (437 average monthly)

#### **Publications featured in national and local media**

- *FACE Value, Safety + Health, National Safety Council monthly magazine* (Jul 2014). [“Oregon logging deaths prompt toolbox talks.”](#)
- *FACE Value, Safety + Health, National Safety Council monthly magazine* (Jul 2014). [“Worker deaths decline in Oregon.”](#)
- *FACE Value, Safety + Health, National Safety Council monthly magazine* (Sep 2014). [“OR-FACE issues hazard alert on crab fishing.”](#)
- *FACE Value, Safety +Health, National Safety Council monthly magazine* (Jan 2015). [“Oregon FACE issues 3 safety guides for logging industry.”](#)
- The National Truckers Association highlighted OR-FACE Investigation [“Truck driver crushed between semi-trailer and loading dock”](#) in [Safety Issues](#) ()
- The National Truckers Association OR-FACE Investigation, “Salesman killed when forklift fell of truck loading ramp” (submitted Feb 2015, publication pending).