



Jeffrey Wimer
OSU Manager of Student Logging Program
OR-FACE Safety Consultant

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Background

- **History**
 - **NIOSH surveillance research program**
 - Began in 1982
 - Expanded to States in 1992
 - OR-FACE joined 14 other state programs in 2002
 - **Mission**
 - Prevent occupational fatalities through
 - Surveillance
 - Targeted investigations
 - Assessment
 - Outreach

Staff

Program Director: Ryan Olson, PhD

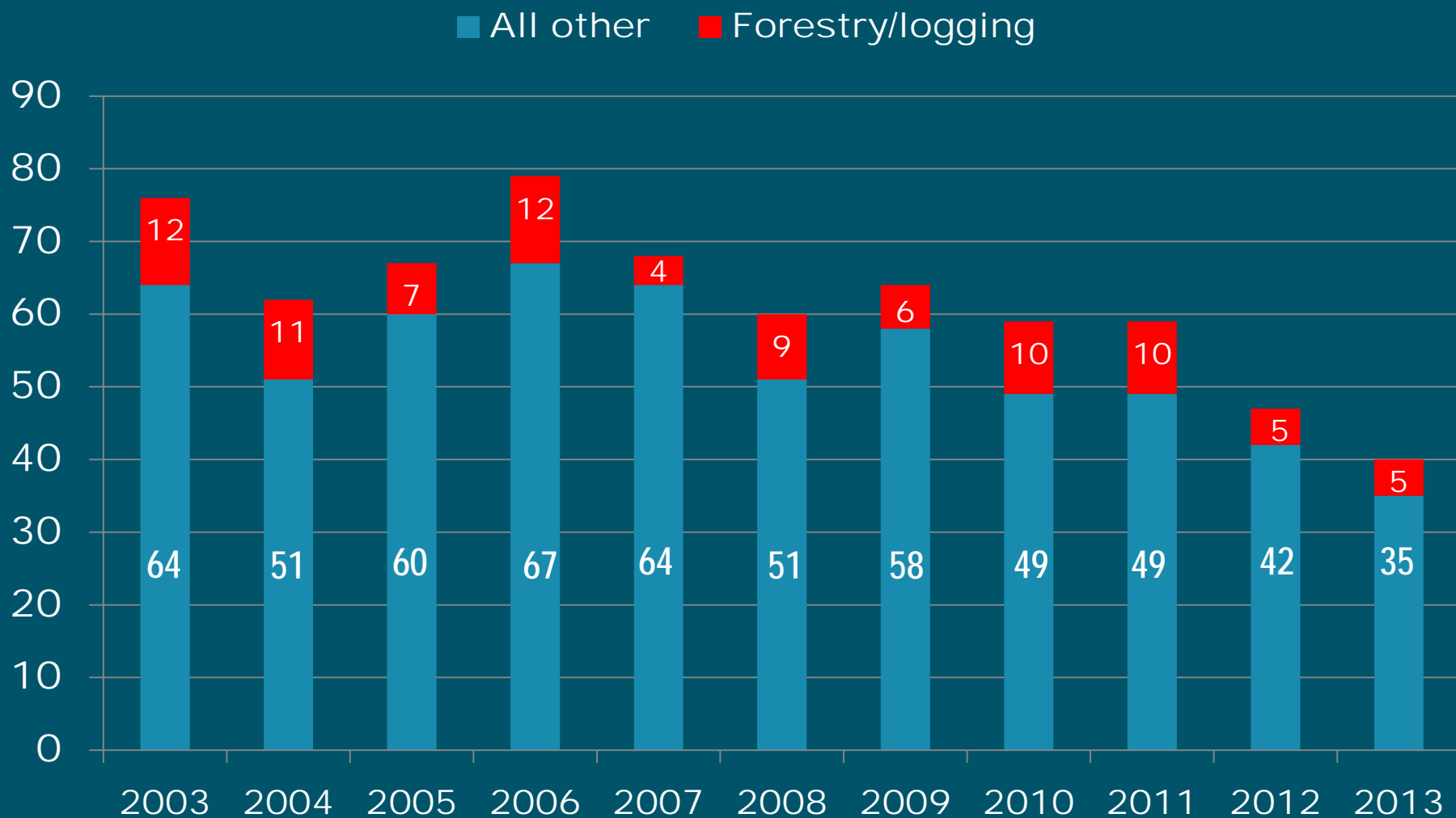
Program Manager: Illa Gilbert-Jones, CIH, CSP

Student Worker: Melodie Bianchini

Other Contract Safety Consultants:

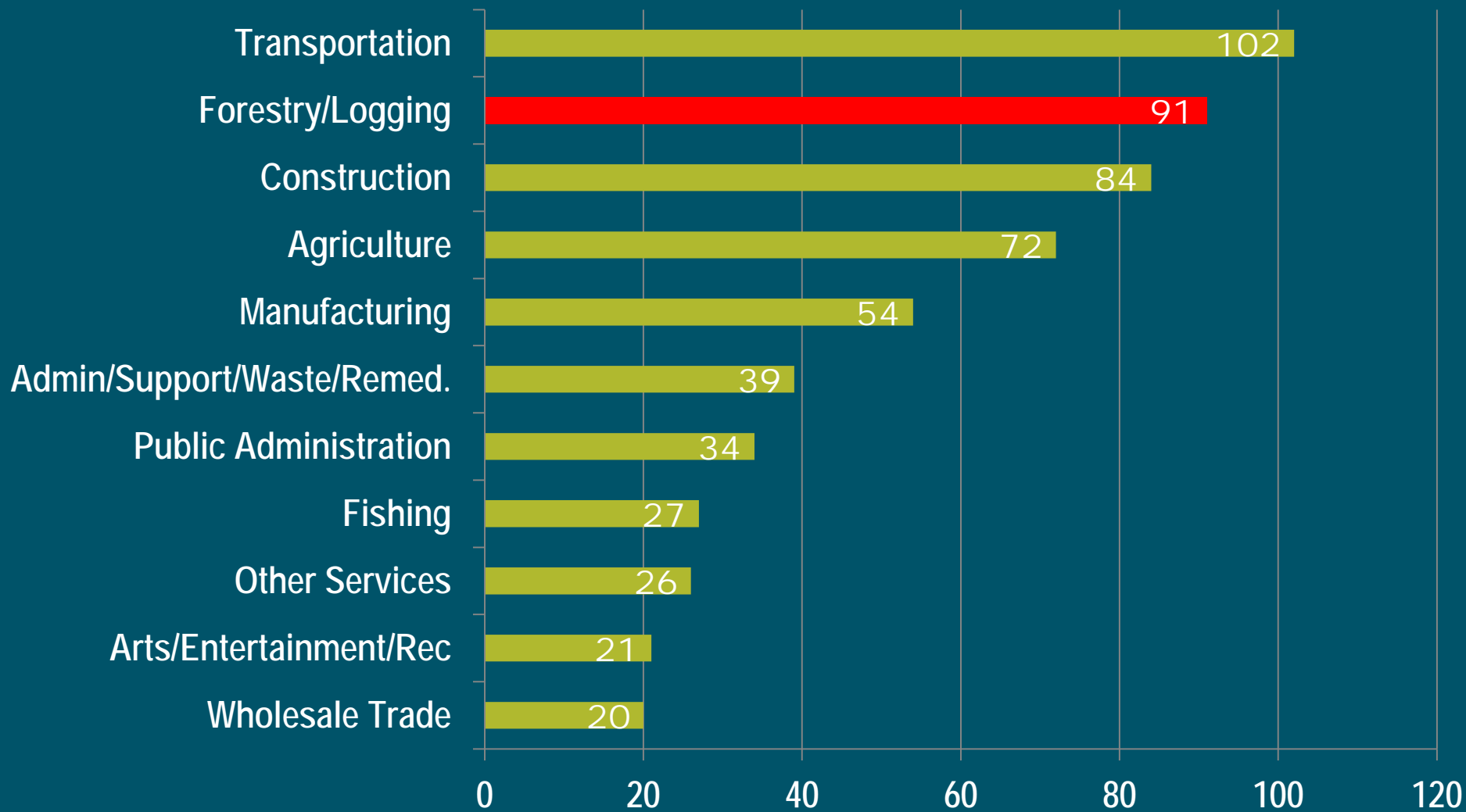
- Brian Clarke (construction)
- Steve Eversmeyer (manufacturing)

OR-FACE Cases



Worker fatalities in Oregon (2003-2013)

Top 10 industries in total cases



Google: OR FACE



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Oregon FACE


The Oregon Occupational Fatality Assessment and Control Evaluation (OR-FACE) Program is a National Institute for Occupational Safety and Health (NIOSH) sponsored program designed to prevent occupational fatalities through surveillance, targeted investigation, assessment, and outreach associated with traumatic work-related deaths in Oregon.



NEWS AND UPDATES

November 2014: OR-FACE presented at the Associated Oregon Loggers annual safety conference on November 8. The 185 conference attendees were provided information on the available OR-FACE resources-toolbox talks, investigation reports, brochures, hazard alerts and annual reports. OR-FACE is pleased to collaborate with AOL to further efforts in preventing logging fatalities in Oregon. In October, the Washington State L&I, SHARP Research Director notified OR-FACE that the logging toolbox talks created by OR-FACE will be sent to ~200 logging contractors in Washington State.

September 2014: During 2000-2009 70% of commercial fishing deaths off the US West coast were caused by drowning. Dungeness crab fisheries had the highest number of fatalities. Falls overboard accounted for 24% of all fatalities. None of the victim of falls overboard were wearing personal flotation device.


A Crab fishing hazard alert was published with safety tips and fatal stories of three Oregon commercial fishermen. 

Four more toolbox talk guides were added to the website: (1) Load of lumber shifts and falls on construction worker ; (2)

Truck driver crushed between semi-trailer and loading dock ; (3) Mechanic killed .



FEATURED INVESTIGATION REPORT

[Contract sanitation worker killed cleaning meat blending equipment](#) 
(published December 2014)

OR-FACE ANNUAL REPORTS

[2012](#)  | [2011](#)  | [2010](#)  | [2009](#) 

[2008](#)  | [2007](#)  | [2006](#) 

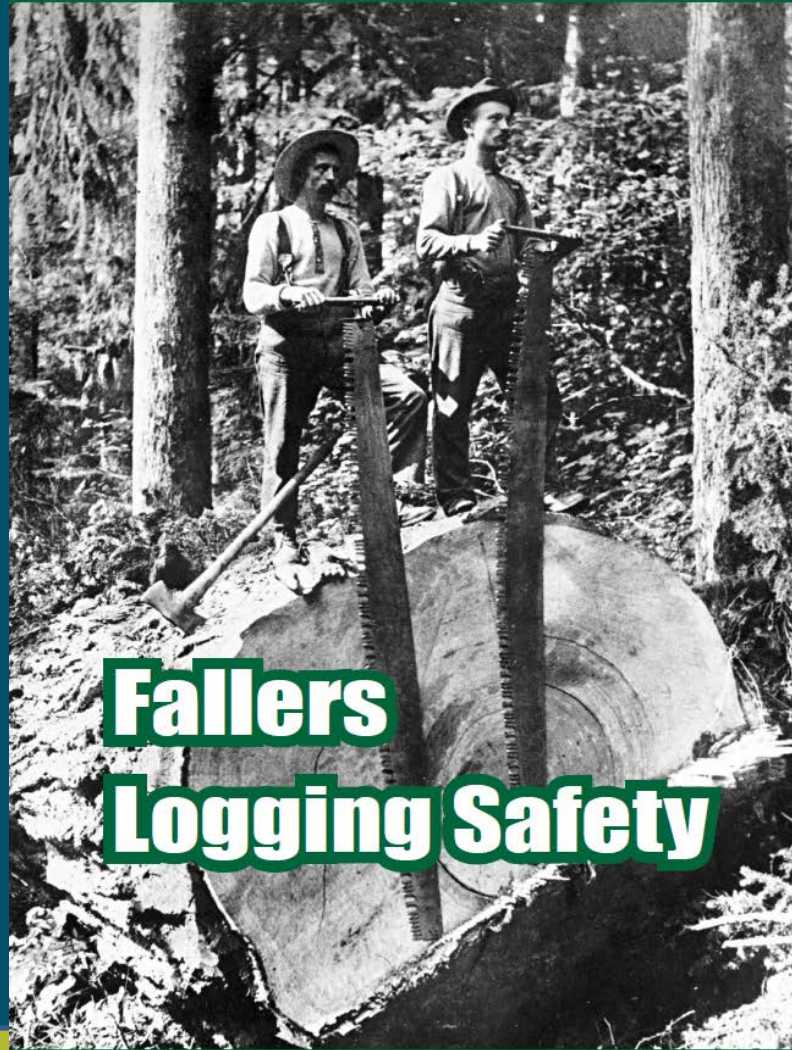
[2005](#)  | [2004](#)  | [2003](#) 

All links above are PDF's. To ensure accurate fatality surveillance, each Annual Report is closed out and published approximately 18 months after the end of a study year. The projected release date for the 2013 Annual Report is July 2015.

CONSTRUCTION FATALITY VIDEOS

The Center for Construction Research and Training (CPWR) created three short videos,

Fallers Logging Safety booklet



Fallers Logging Safety

- Primary hazards for fallers
- Fatal Incidents for fallers and safety recommendations
- Five-Step Faller Safety plan
- Limbing and bucking safety
- Glossary

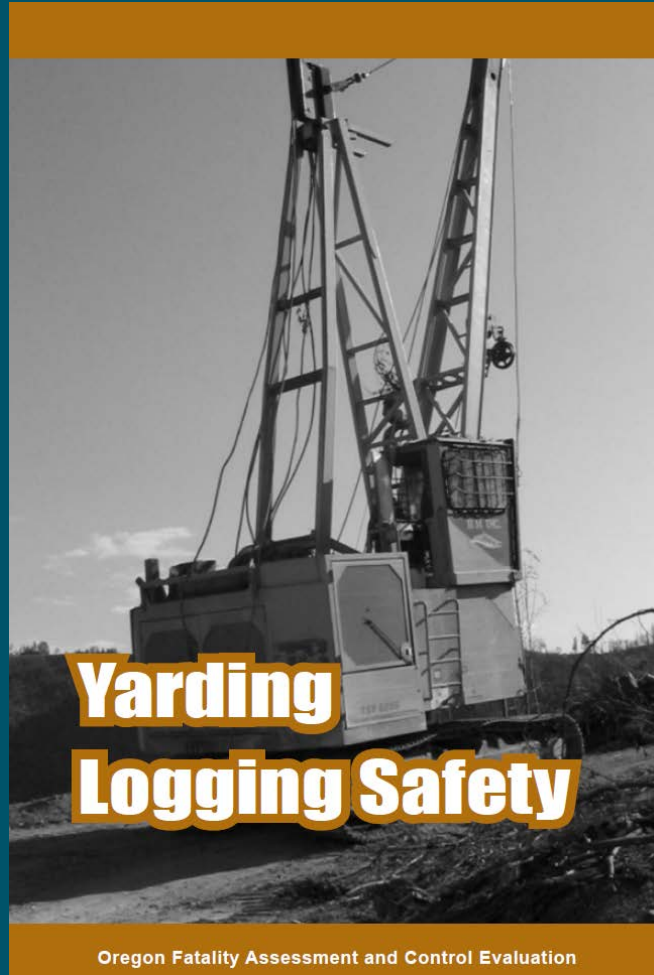
FIVE-STEP PLAN

Faller Safety Plan

Safe falling involves the following five basic steps.

1. Assess the area
2. Assess the tree
3. Establish a safe work area
4. Fall the tree
5. Get in the clear

Yarding Logging Safety

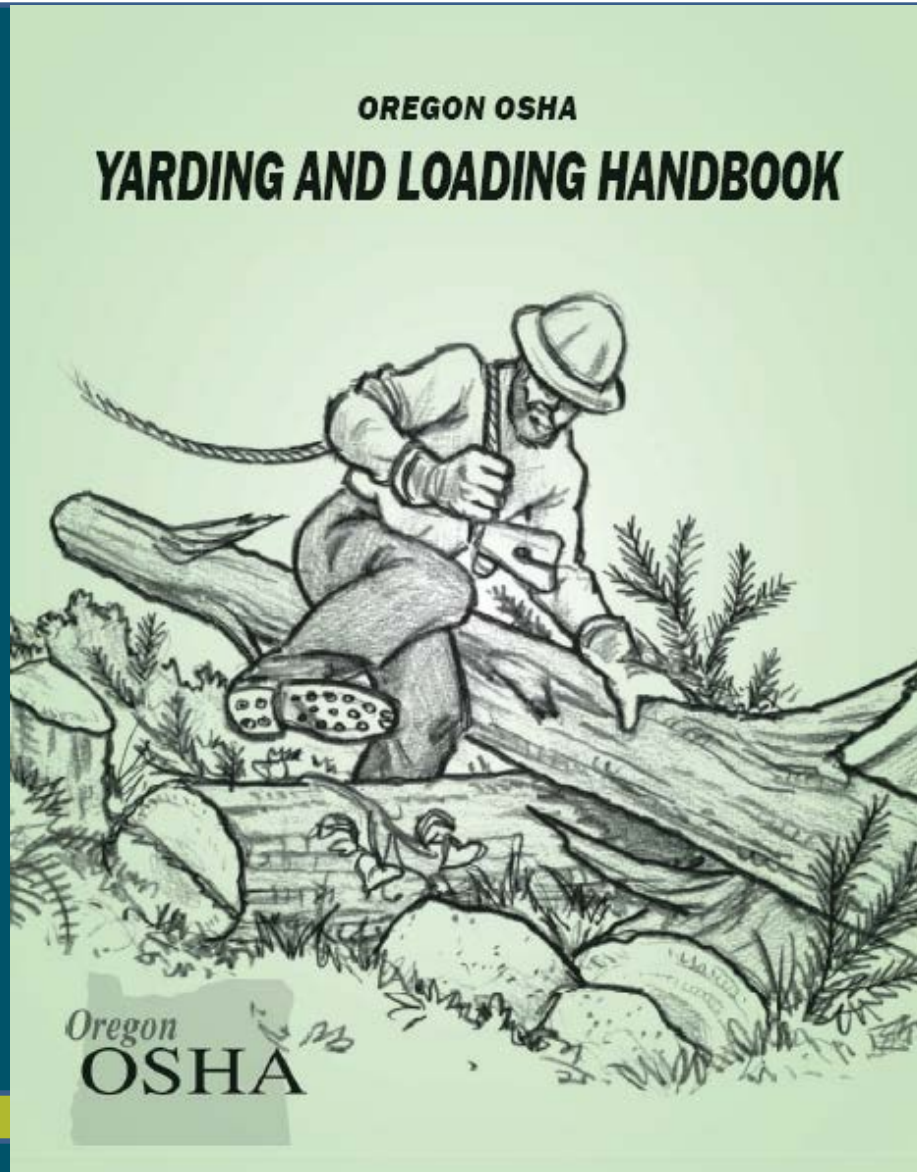


Yarding safety:

- Table of Contents

- Logging Hazards
- Yarding Operations
- Primary Hazards in Yarding
- Fatal Incidents and Safety Recommendations
- Seven Elements in Effective Yarding Safety

Yarding and Loading Handbook



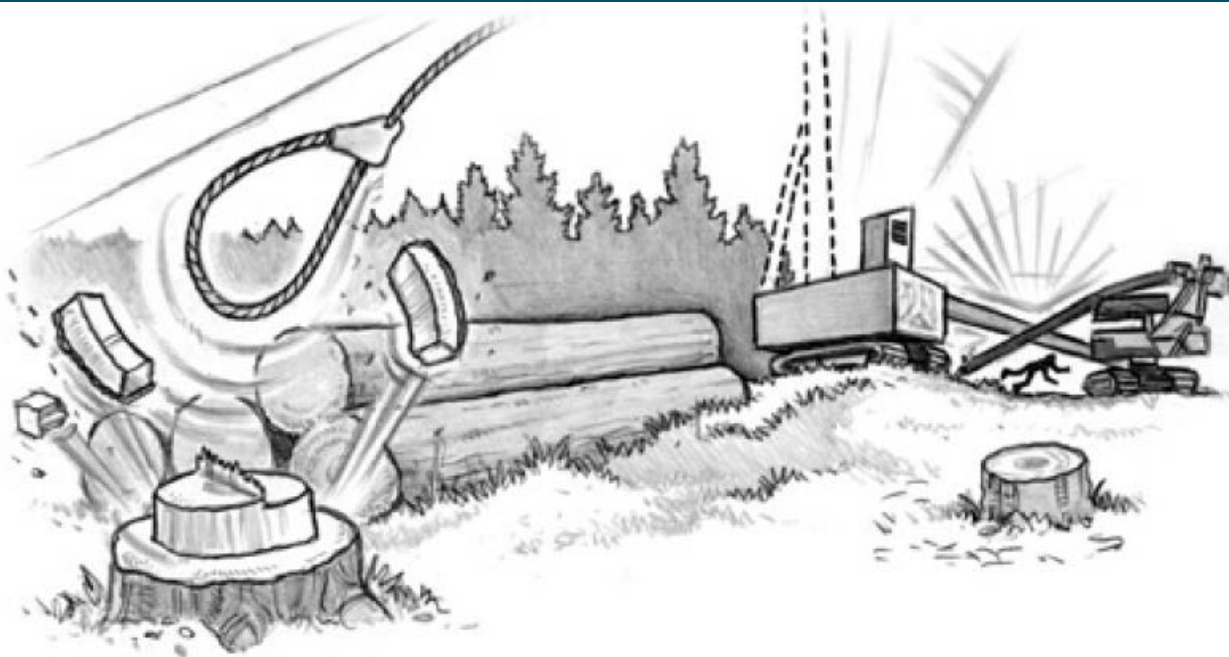
Yarding and Loading Handbook

1. Planning for the Unit
2. Setting up the landing
3. Machine and Equipment inspection
4. Anchors
5. Setting up the Yarder
6. Rigging the Yarding Lines

Yarding and Loading Handbook

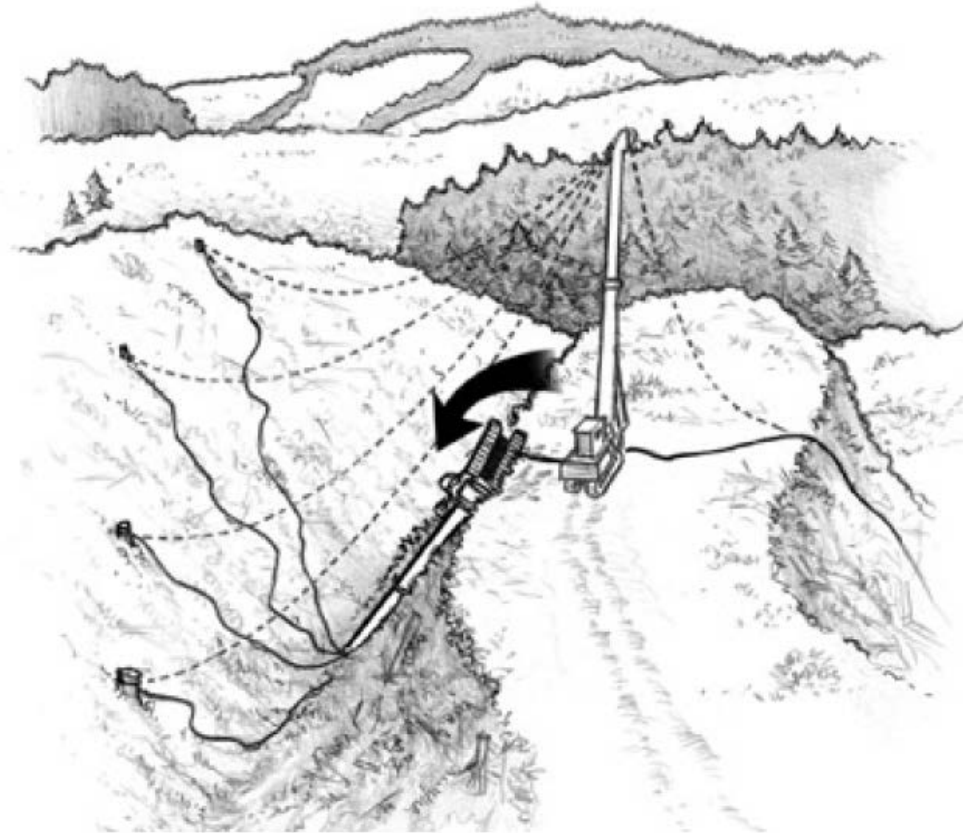
- 7. Yarding the Logs
- 8. Landing the Turn
- 9. Loading the Logs
- 10. Worker Safety Rules
- 11. Signs and Signals
 - Yarding and Loading Glossary





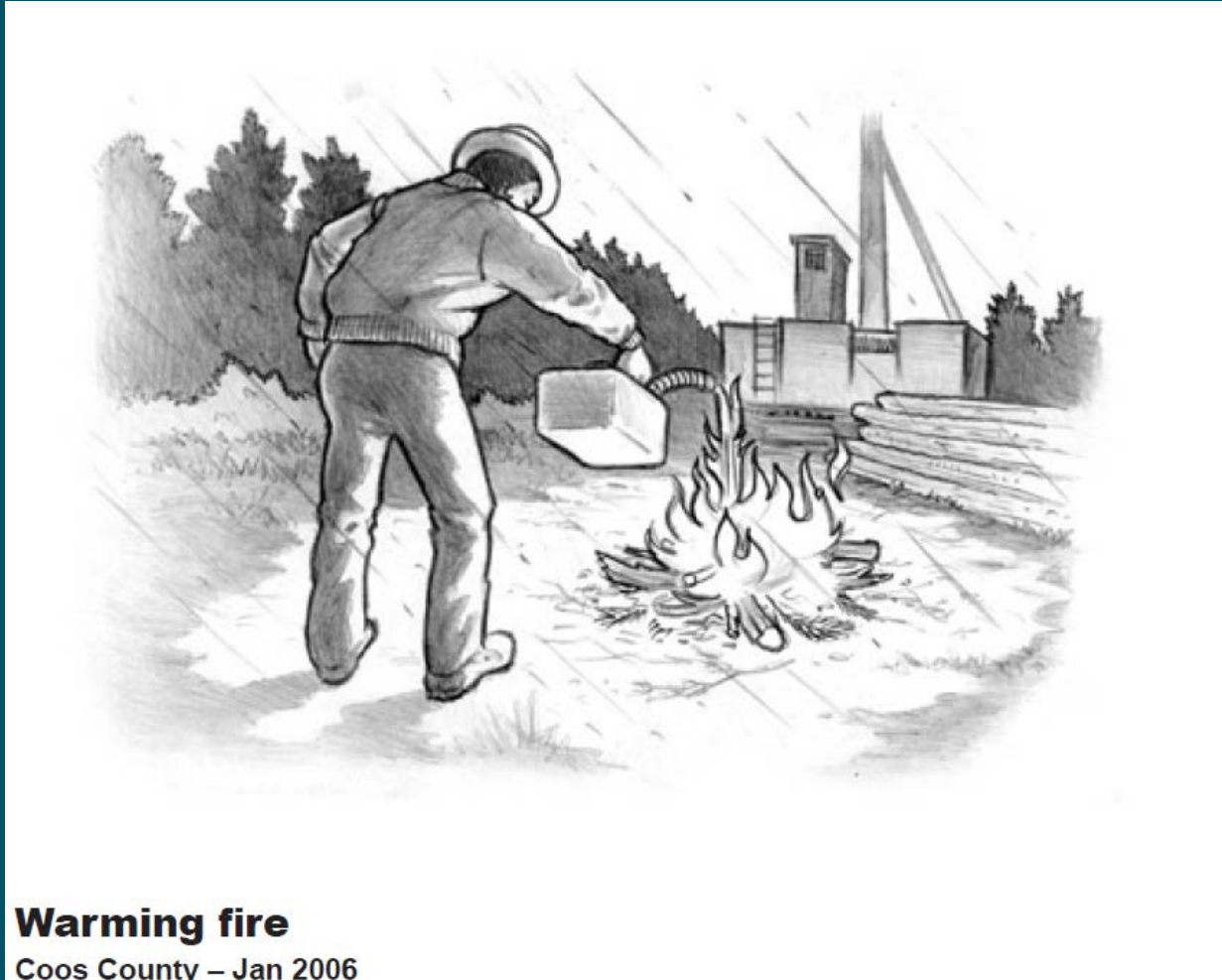
Anchor failure

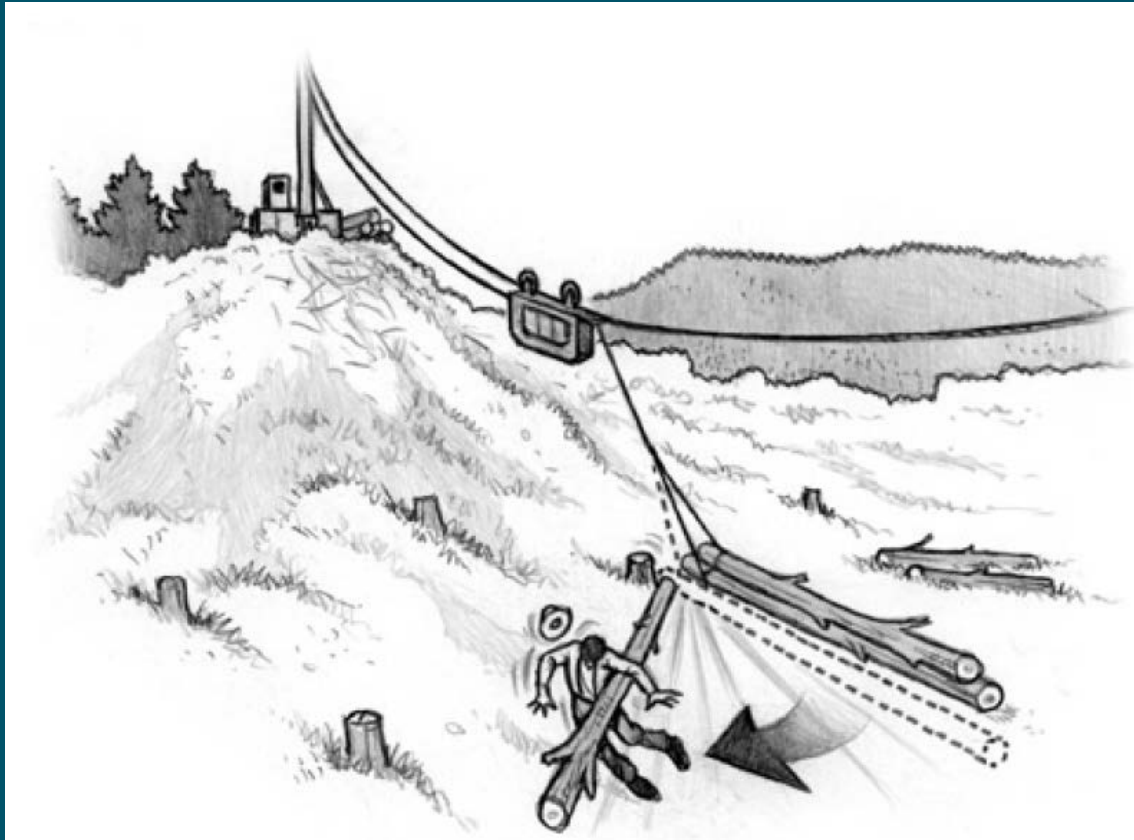
Polk County – Apr 2003



Yarder collapse

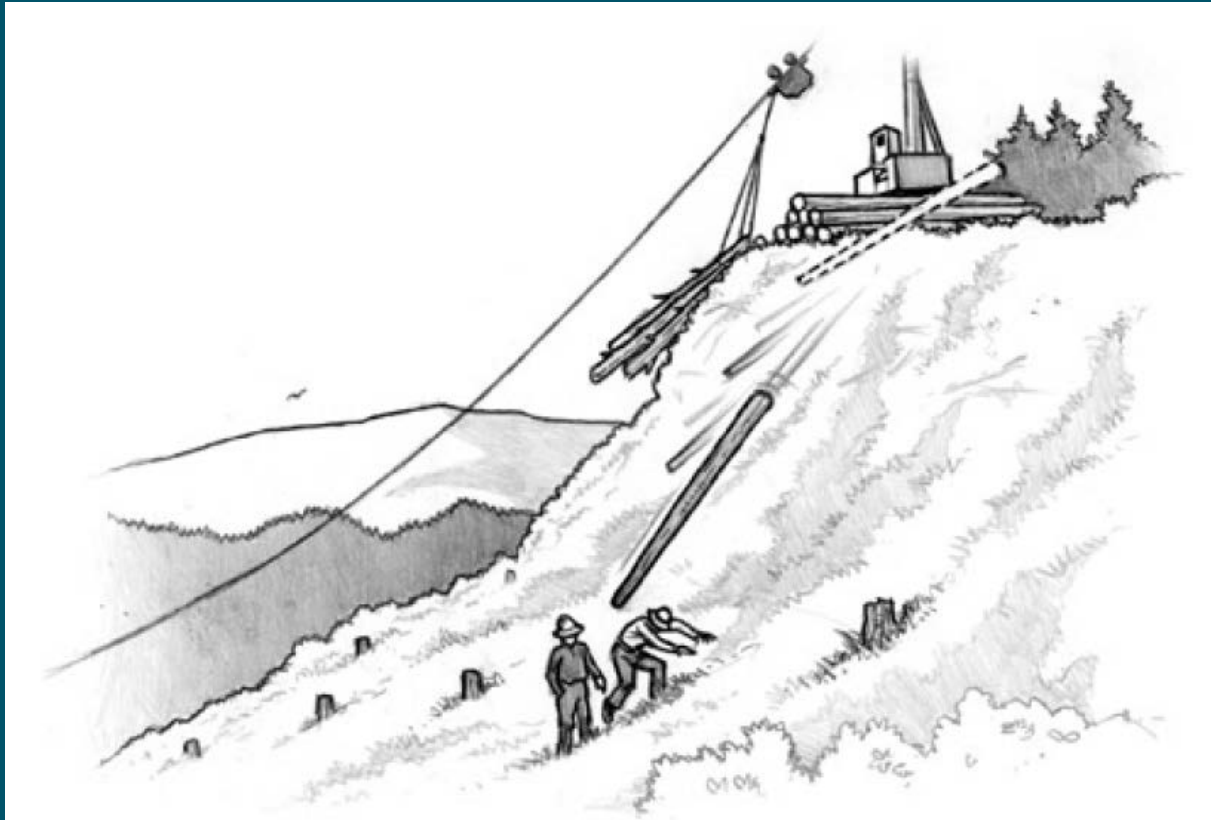
Washington County – May 2006





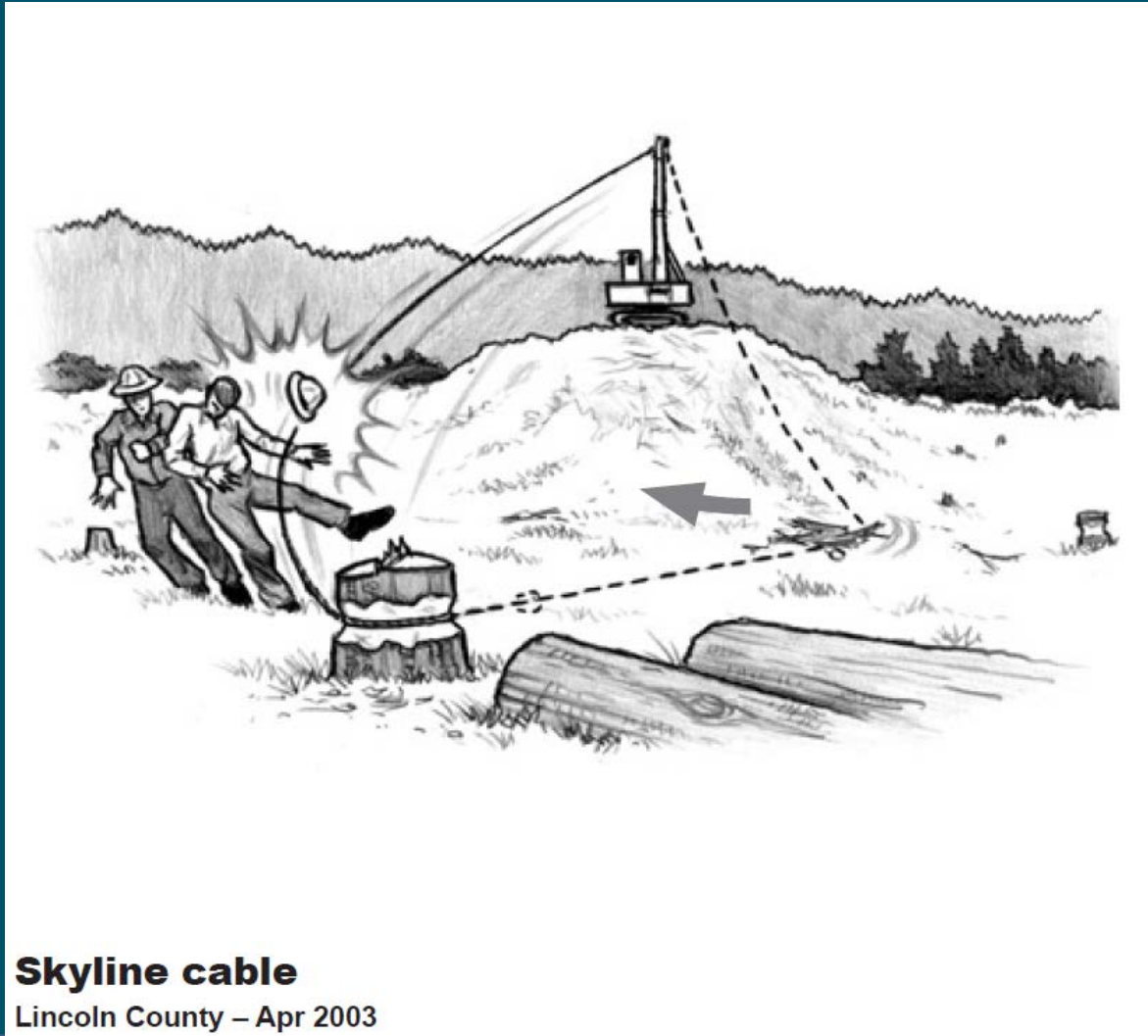
Yarding turn

Douglas County – Nov 2004



Sliding pole

Lane County – Mar 2006





Carriage return

Yamhill County – Jul 2006

Skidding



Bulldozer choker

Coos County – Sep 2004



Towing hook

Clackamas County – Mar 1979

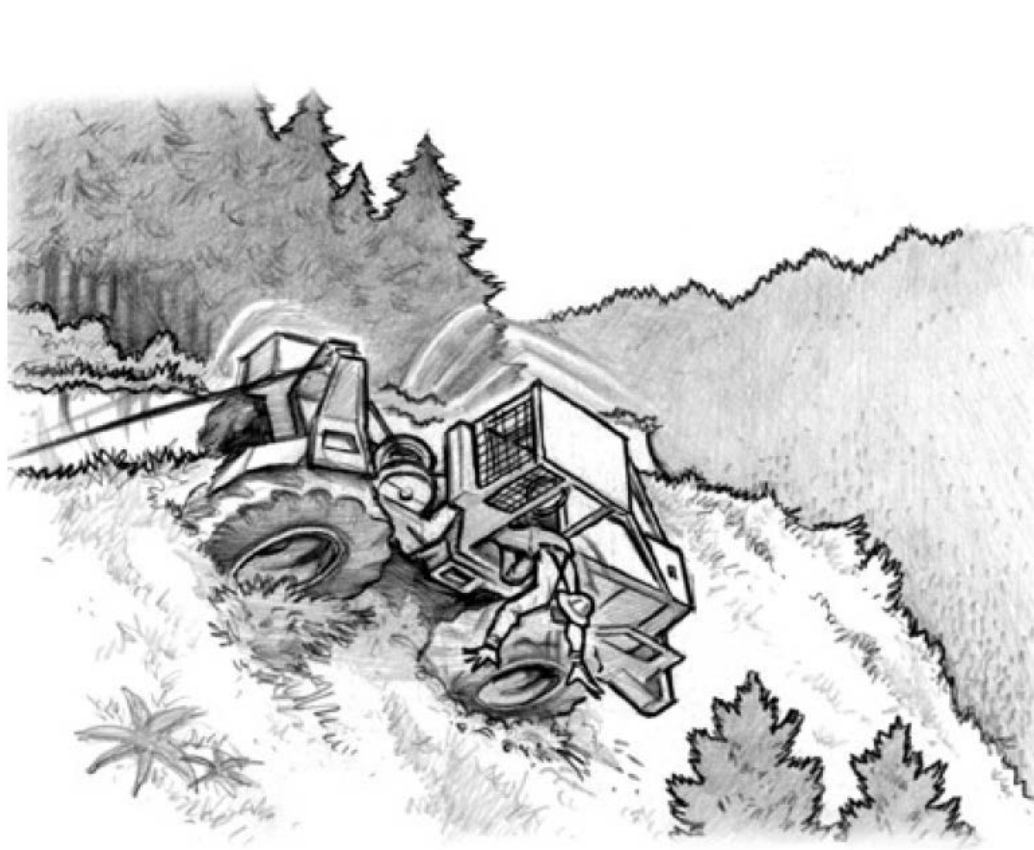
Skidding



Skidder passenger

Klamath County – Oct 2005

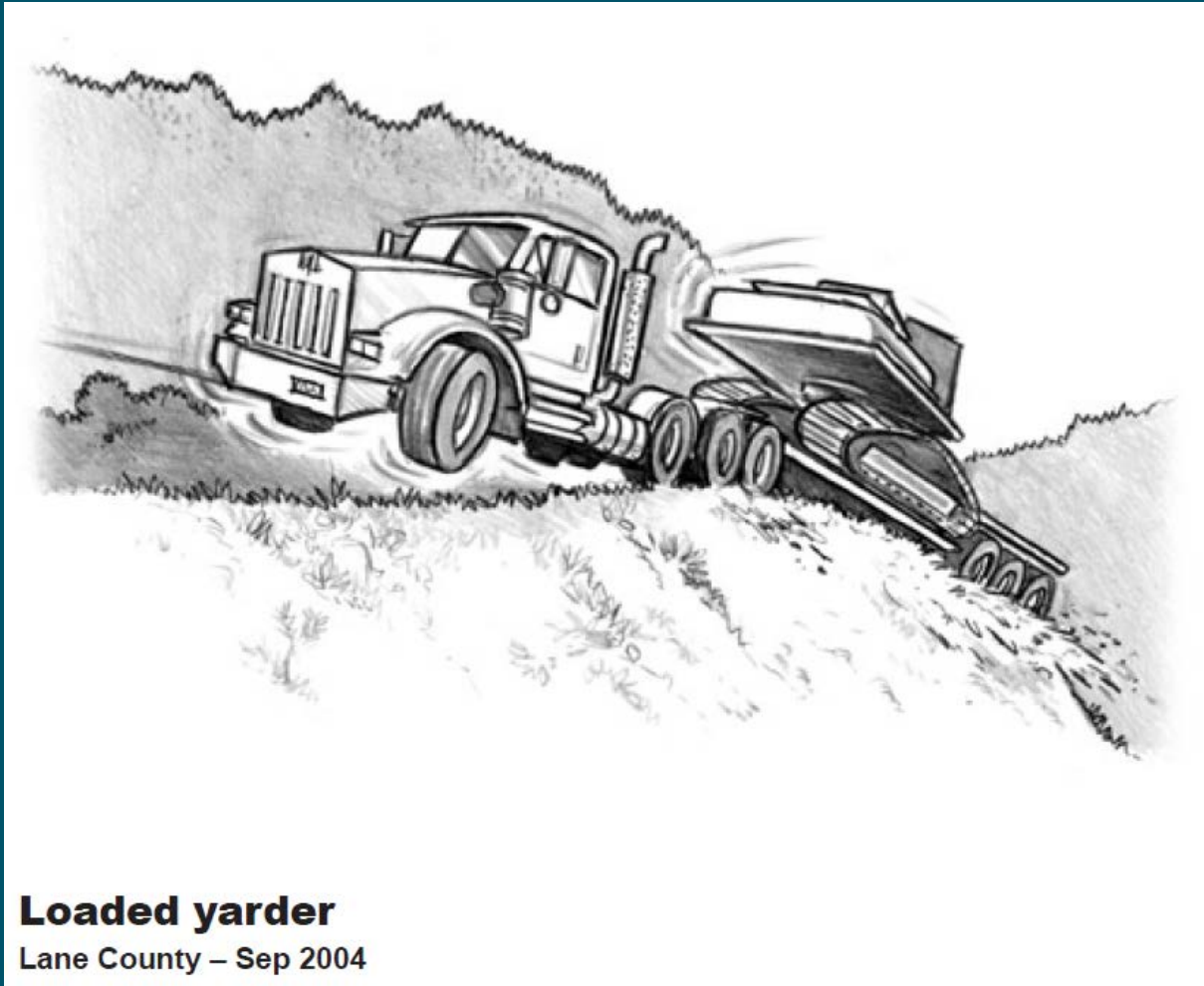
Skidding



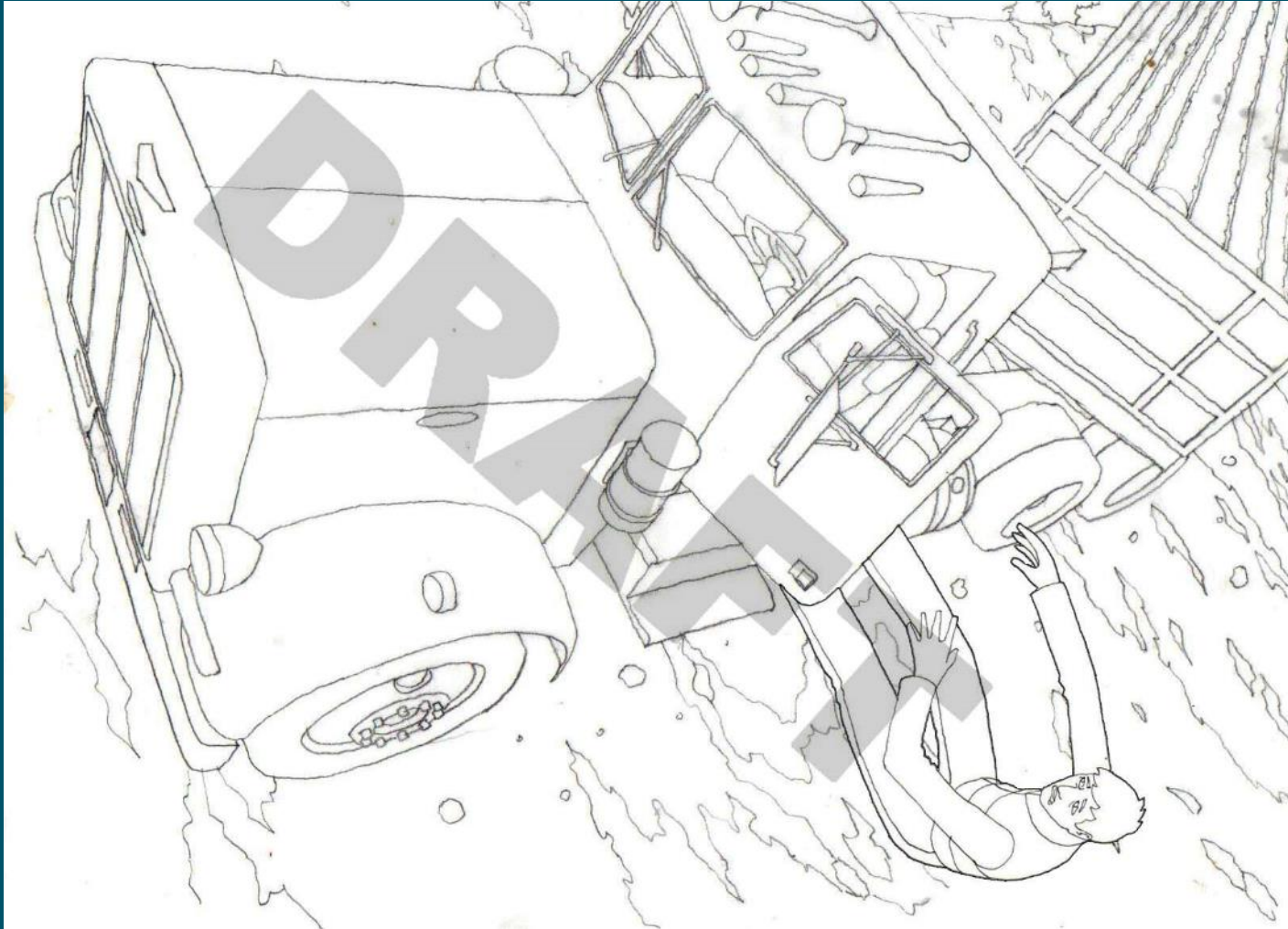
Skidder off road

Curry County – Sep 2008

Transportation



Transportation



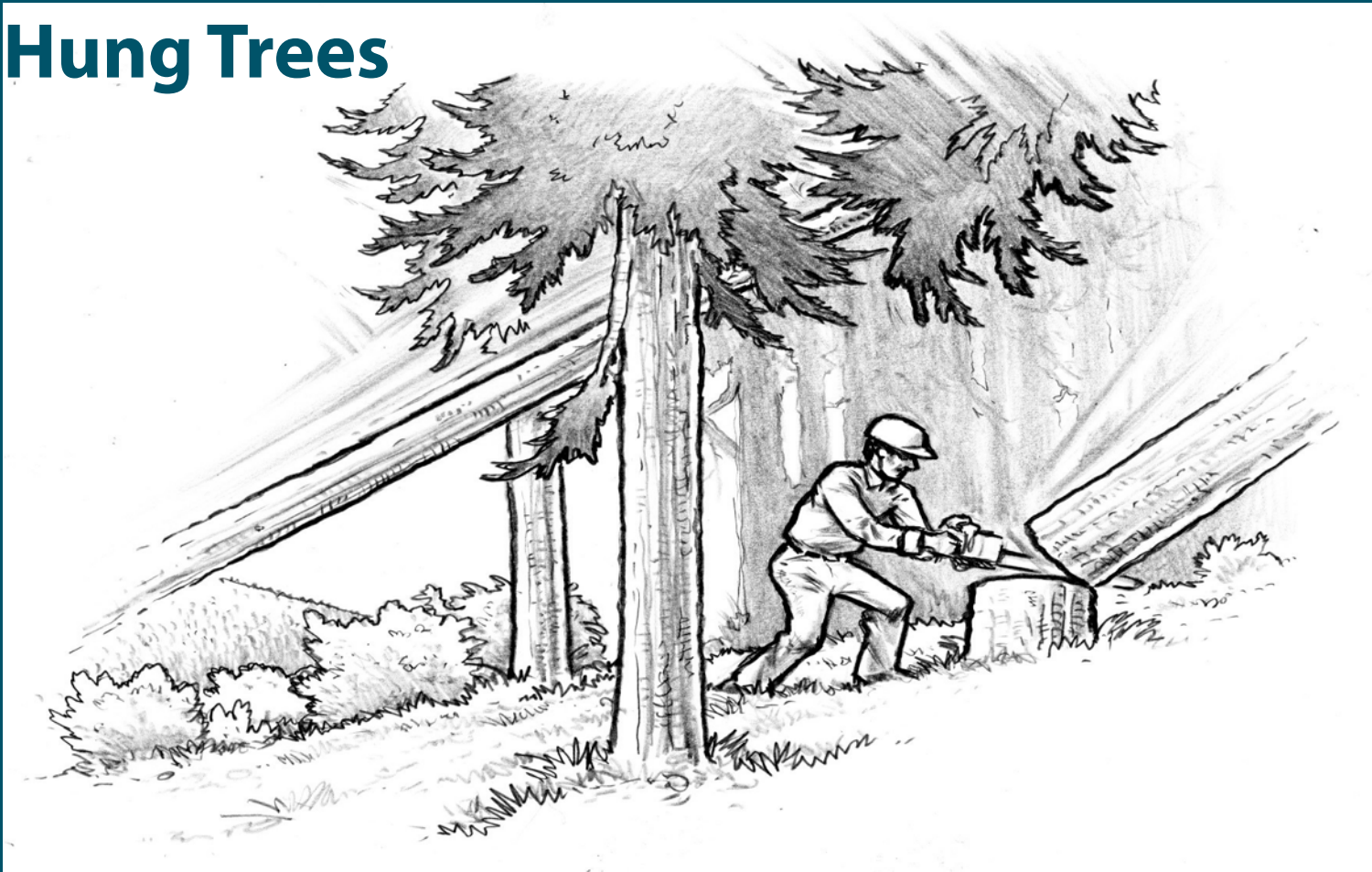
Transportation



Runaway Pickup

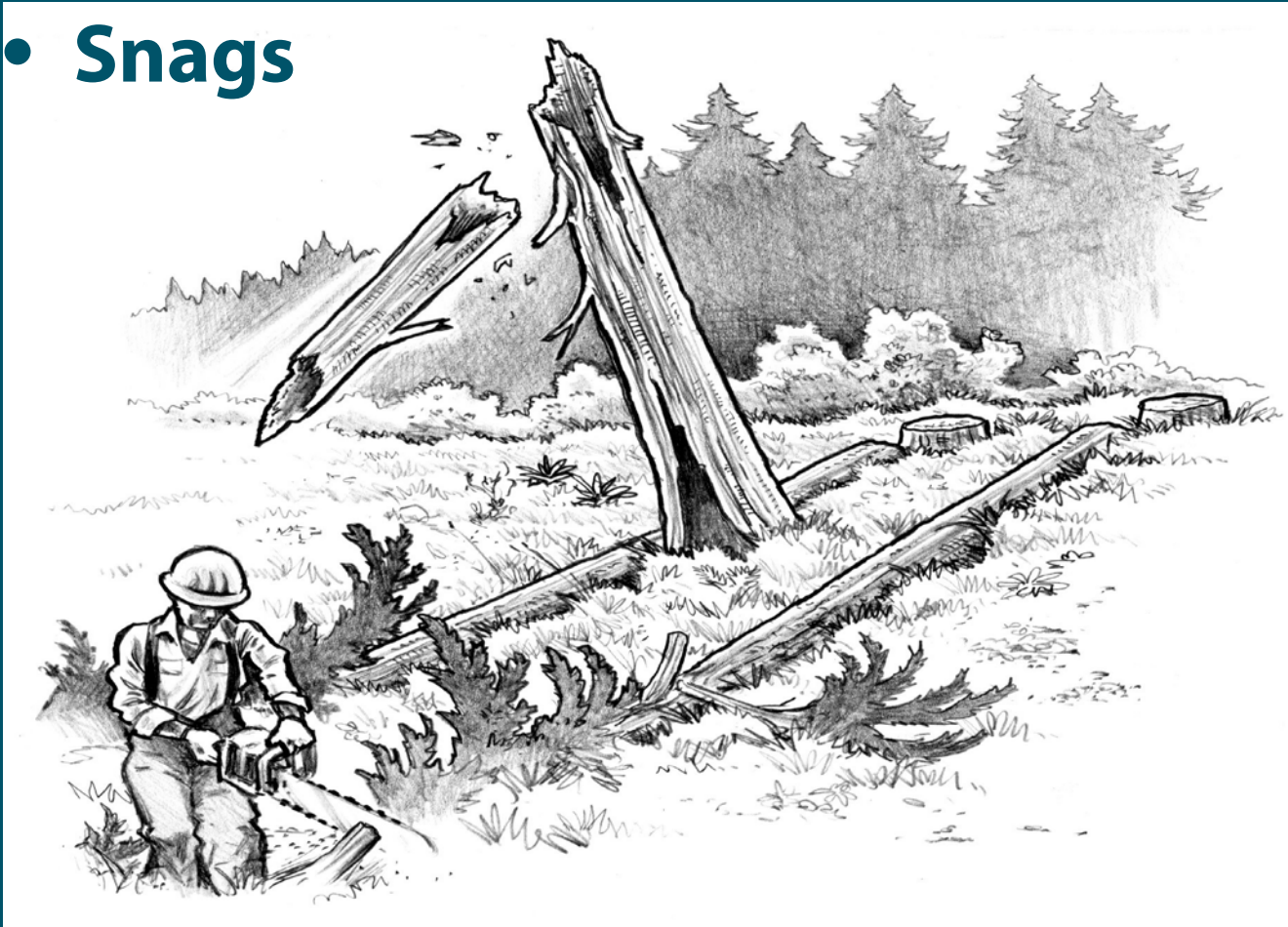
Clatsop County – Sep 2004

Hung Trees



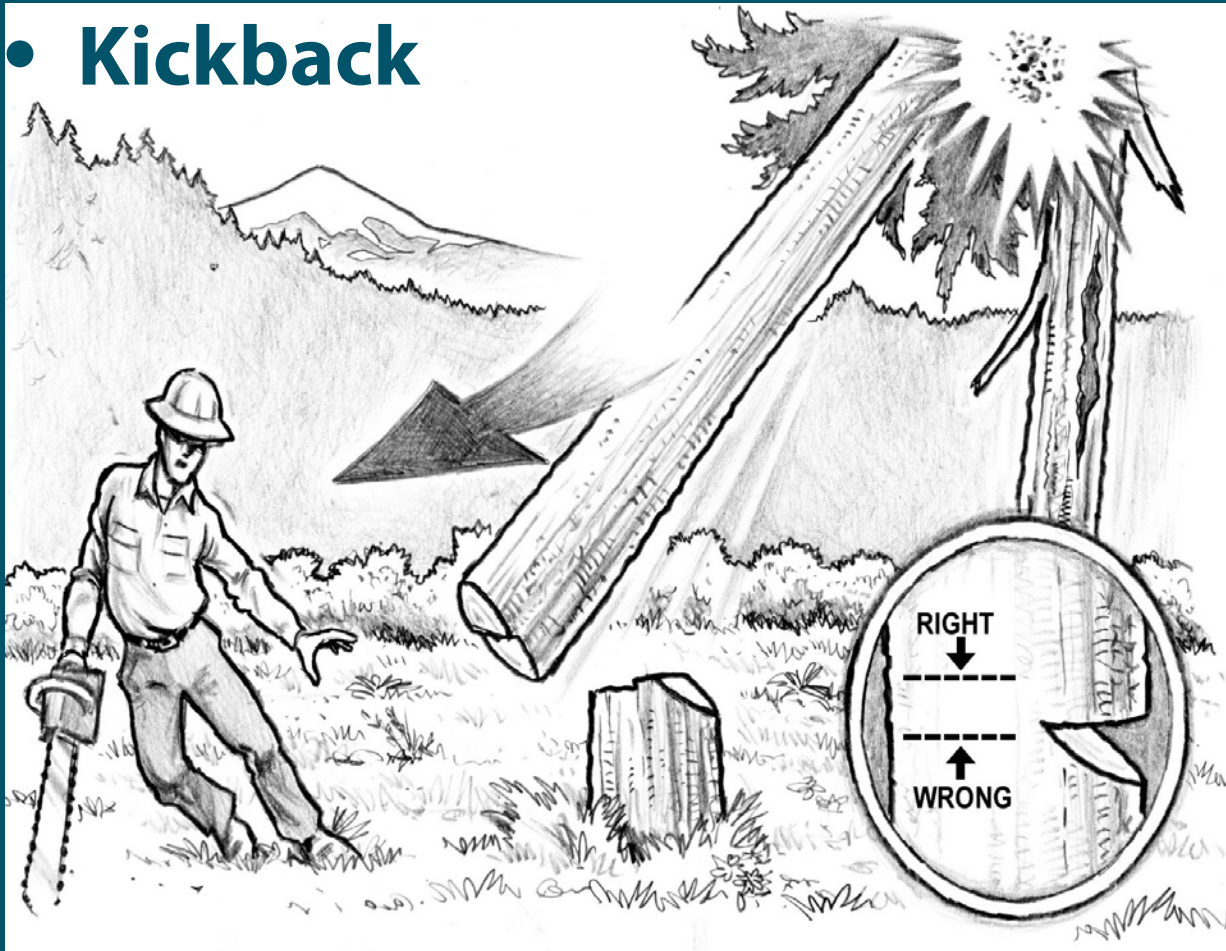
Timber Falling

- **Snags**

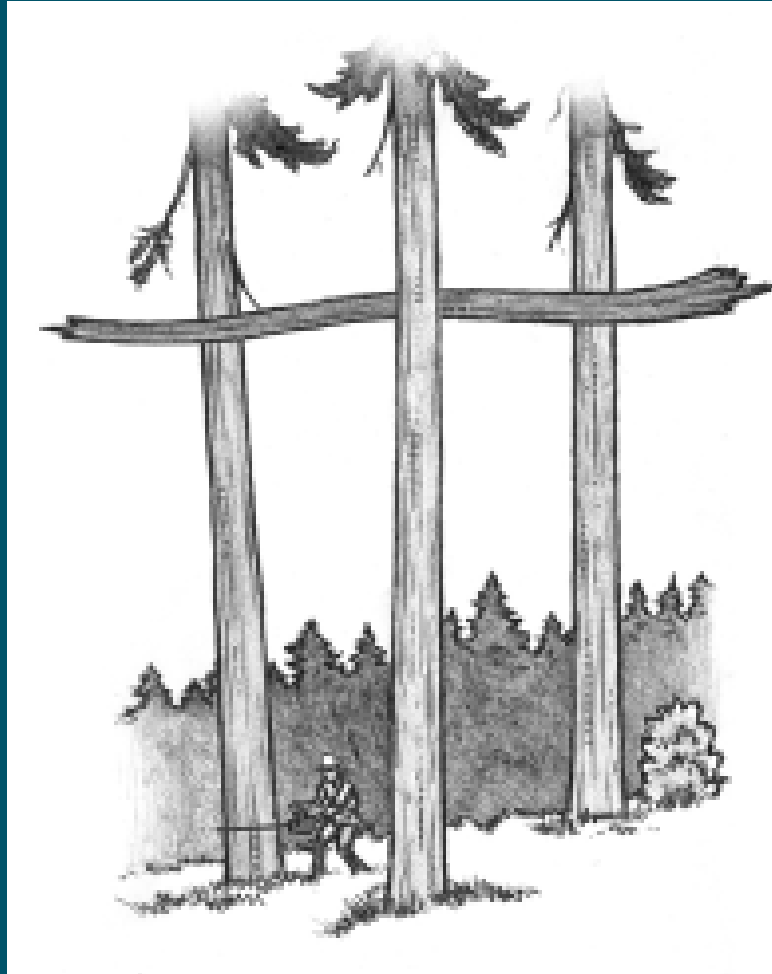


Timber Falling

- **Kickback**



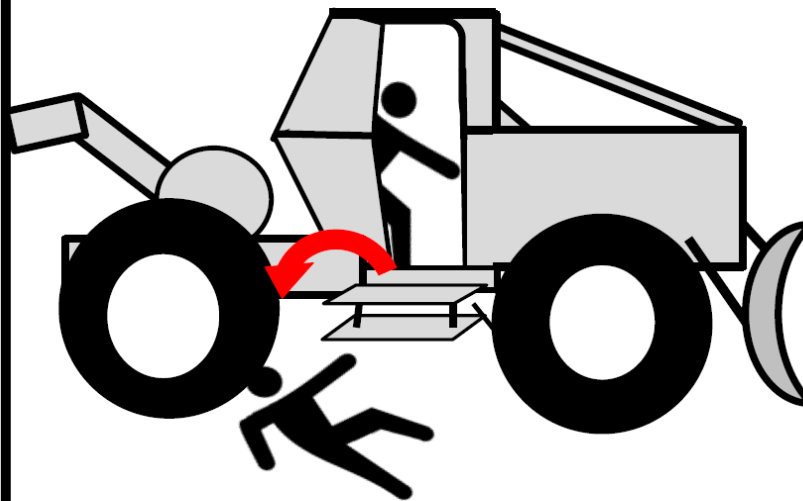
Timber Falling



Timber Falling

- **Falling area**



FATAL HAZARD

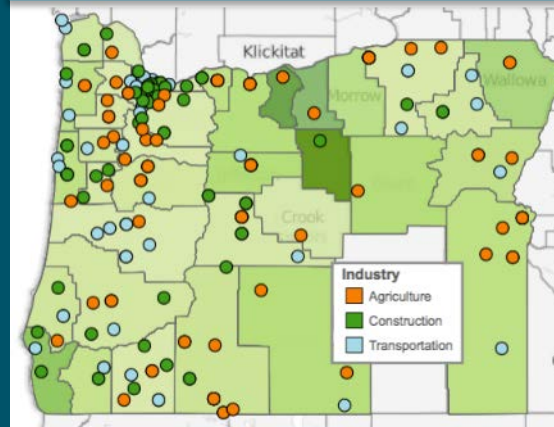
- Never ride as a passenger on a machine unless it is designed for passengers
- Develop formal training for mobile machinery operators

Occupational Fatalities in Oregon Annual Report 2012

Occupational Fatalities in Oregon Annual Report 2012

Annual Reports

Interactive Maps



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Snag Hazard Alert

From 2010 to 2013, 10 Oregon workers in the Logging and Forestry industries died after being struck by trees. Hung limbs and snags in trees are a recurring contributing factor to occupational fatalities among tree fallers in Oregon.

Please observe the following safety tips:

- Scan for hung or snagged trees and limbs in your own and others' cutting area and communicate with each other about these hazards.
- When faced with a hazardous situation, stop work and seek assistance from a cutting partner, or a more experienced worker.
- If a snag or hanging tip is identified, after seeking assistance, work with your partner using the best method for removing the hanging limb, tree or snag (CUT-CRACK) working under a lodged tree or the cutting of a tree where another tree is lodged.
- Employers should ensure that workers are trained and understand how to set or snagged or hung limbs and other hazardous logging conditions.

Fatal Stories

Case 1: A 25-year-old self-employed tree caller with 10 years of experience was struck by a lodged tree limb and crushed between previously felled logs and undergrowth. The victim had cut a small sapling and growth tree, but it had hung up in another tree as he was cutting. The victim was caught in the tree for 15 minutes before being rescued. The victim's partner was 200-300 yards away. His partner searched for the victim after he had not heard the victim's saw in 40 minutes. He found the victim dead with a tree on top of him. The victim had 25 years of logging experience.

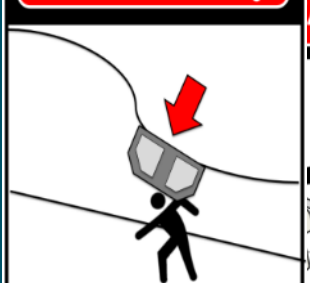
Case 2: A 40-year-old tree faller was killed after a snagged tree fell on top of him. The victim was working as an independent contractor cutting trees. He had just felled a large tree on a hillside, which snagged a smaller tree on its way down. The victim

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OREGON Fatality Assessment & Control Evaluation

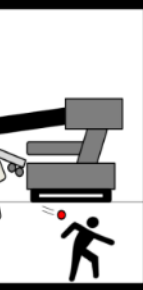
Alerts & Brochures

FATAL HAZARD



- Make sure that machine anchors are rigged correctly
- Remove rigging hang-ups
- Stay clear of rigging

HAZARD



- Set-up directions
- Remove rigging hang-ups
- Stay clear of rigging



- Set-up directions
- Remove rigging hang-ups
- Stay clear of rigging

Toolbox talks

Blogs

Fallers Logging Safety




Yarding Logging Safety



Published


LOGGING AND FORESTRY

- 2011-50-1 Timber faller killed while working under a hung tree limb  (pub Jul 2013)
- 2006-24-1 Logger killed under rigging when carriage drops  (pub Apr 2011)
- 2008-7-1 Rigging slinger killed by swinging log in yarding turn  (pub Apr 2011)
- 2006-14-1 Log truck driver killed when brakes fail on steep road  (pub Sep 2008)
- 2006-1-1 Mechanic killed pouring gasoline on fire  (pub Sep 2008)
- 2005-39-1 Logging worker killed while riding on step of skidder  (pub Dec 2007)
- 2006-9-1 Logger killed by 41-foot pole sliding down steep hill  (pub Oct 2007)
- 2004-21-1 Truck driver crushed by front-end loader in mill yard  (pub Dec 2006)
- 2004-52-1 Logger killed by swinging tree in yarding operation  (pub Aug 2006)
- 2004-23-1 Ranch hand killed by bulldozer while logging  (pub May 2006)
- 2003-29-1 Operator killed when bulldozer slides off logging road  (pub Jan 2006)
- 2003-6-1 Logger killed by falling sheave when yarder tower collapses  (pub Oct 2005)
- 2003-7-1 Logger killed as skyline cable whips free of slash pile  (pub Apr 2005)



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Fatality Investigation Report


OR 2006-14-1

Log truck driver killed when brakes fail on steep road

SUMMARY
On Apr 14, 2006, a log truck driver was killed when the truck failed to stop on a steep road. The driver was a 41-year-old male who had been working for the company for 10 years. The truck was a 2004 Freightliner FLD 120SD with a logging trailer. The driver was alone in the truck when it failed to stop on a steep road. The driver was killed when the truck rolled over. The investigation found that the driver was not wearing his seat belt and that the truck's brakes were not properly maintained. The investigation also found that the driver was not properly trained for the job. The investigation recommended that the company should provide more training for its drivers and that the state should require log truck drivers to wear seat belts.


CAUSE
The investigation found that the driver was not wearing his seat belt and that the truck's brakes were not properly maintained. The investigation also found that the driver was not properly trained for the job.

RECOMMENDATIONS
The investigation recommended that the company should provide more training for its drivers and that the state should require log truck drivers to wear seat belts.



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Fatality Investigation Report


OR 2008-07-1

Rigging slinger killed by swinging log in yarding turn

SUMMARY
A 30-year-old male rigging slinger was killed when a log swung into him during a yarding turn. The slinger was working for a logging company and was in the process of moving a log when it swung into him. The investigation found that the slinger was not properly trained for the job and that the company did not provide adequate safety training. The investigation recommended that the company should provide more training for its slingers and that the state should require logging companies to provide safety training for their workers.


CAUSE
The investigation found that the slinger was not properly trained for the job and that the company did not provide adequate safety training. The investigation also found that the slinger was not wearing his seat belt.

RECOMMENDATIONS
The investigation recommended that the company should provide more training for its slingers and that the state should require logging companies to provide safety training for their workers.



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Fatality Investigation Report


OR 2006-24-1

Logger killed under rigging when carriage drops

SUMMARY
A 45-year-old male logger was killed when a carriage dropped on him during a rigging operation. The logger was working for a logging company and was in the process of moving a log when the carriage dropped on him. The investigation found that the logger was not properly trained for the job and that the company did not provide adequate safety training. The investigation recommended that the company should provide more training for its loggers and that the state should require logging companies to provide safety training for their workers.


CAUSE
The investigation found that the logger was not properly trained for the job and that the company did not provide adequate safety training. The investigation also found that the logger was not wearing his seat belt.

RECOMMENDATIONS
The investigation recommended that the company should provide more training for its loggers and that the state should require logging companies to provide safety training for their workers.



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Fatality Investigation Report

OR 2011-50-1

SPECIAL ALERT – hung limbs and snags in trees are a recurring contributing factor to occupational fatalities among tree fallers in Oregon.

Timber faller killed while working under a hung tree limb

SUMMARY
On December 29, 2011, a 41-year-old Hispanic male was killed while working as a timber faller. The incident occurred at about 1pm on a workday. The victim, working as a lone faller, was attempting to fell a tree that had an alder limb hung up in it. The alder limb was approximately 34 feet in length and 11 inches in diameter. The victim's cutting partner was working on a separate strip of timber approximately 400 to 500 feet away. Witness accounts state that they had observed the hung alder limb in the victim's cutting strip about two hours prior to the incident (see Figure at right). The victim was found underneath the alder limb and was pronounced dead at the scene.




Illustration of the victim working under an alder tree limb hung up in Douglas-fir trees (based on witness descriptions of the scene).

RECOMMENDATIONS

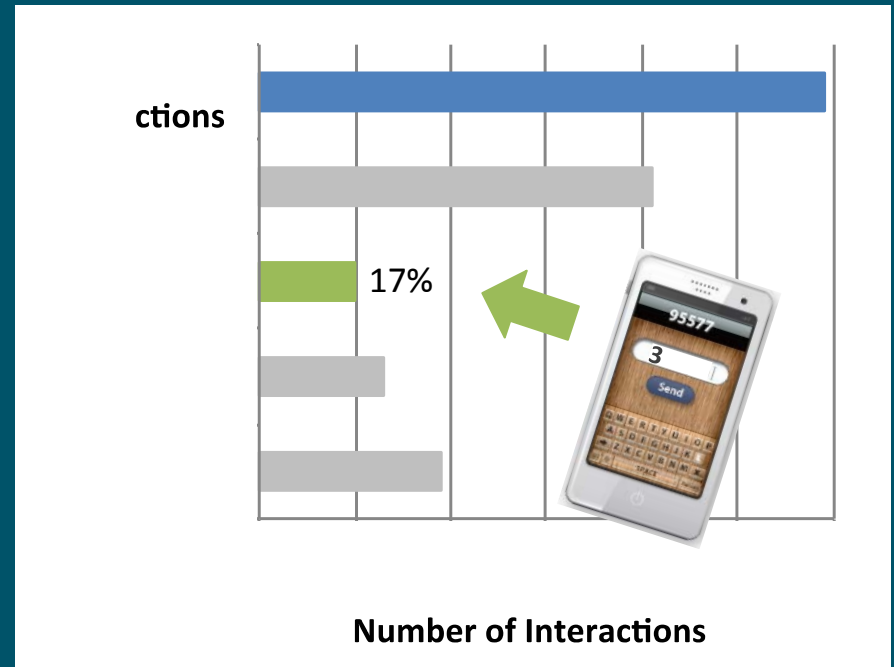
- Workers should scan for hung or snagged trees and limbs in their own and in others' cutting strips, and communicate with each other about these hazards.
- When faced with a hazardous situation, workers should stop work and seek assistance from a supervisor, a cutting partner, or a more experienced worker.
- If a snag or hung tree is identified, after seeking assistance, workers can work with their partner to use another adjacent tree to knock down the hazardous hung limb or to cripple one of the hung trees to eliminate the hazard.
- Employers should ensure that workers are trained and understand how to safely respond to snagged or hung limbs and other hazardous logging conditions.

Keywords: Logging, Hispanic Worker [NAICS=113310]
Publication Date: July 16, 2013
This report is public information and free to copy

Oregon FACE Program
Publication Date: July 16, 2013
Page 1

Future Plans

- **Mobile marketing system to promote and evaluate “toolbox talks”**
- Free subscription
- Receive talks and alerts
- Help OR-FACE by answering mobile polls



**TAKE A SECOND FOR SAFETY
IT COULD SAVE SOMEONES LIFE**

Questions?