

HAZARD ALERT Loggers Killed During Felling Operations

What is the hazard?

Logging was the deadliest civilian occupation in 2015 in the U.S., with a fatality rate of 132.7 per 100,000 full-time equivalent workers; in total, 62 workers were killed.¹ The most common cause of death was being struck by falling trees and limbs. **Since Jan 2016, 8 loggers have been killed by falling trees or limbs during felling operations in Kentucky.**²

Examples of felling– related logging fatalities that have occurred in Kentucky since January 2016 include:

Case 1: A logger had just felled a tree without incident, when he was struck by a falling branch from a nearby tree. He died several days later from severe head injuries.

Case 2: A logger was cutting trees on a hillside with a chain saw. The tree fell, the fork caught another tree and the tree split, striking the logger on the back.

Case 3: A logger was cutting a felled tree into logs. His cut released pressure on a felled tree next to it, which rolled, and a limb from the tree struck him on the head.

Case 4: The tree a logger was felling struck a second tree, causing branches to fall and strike him.



Civilian occupations with high fatal work injury rates, U.S., 2015



Recommendations:

- During felling, assess all overhead hazards, including adjacent dead snags, broken branches, and vines that are connecting trees.
- After determining the fall direction of the tree, identify and establish clear escape paths before felling.
- Always wear Personal Protective Equipment, especially head protection.
- Ensure that all coworkers are at least two tree lengths away during felling process [per 1910.266(h)(1)(iv)].
- During felling, start at the bottom of the hill and proceed up or along the hillside to prevent issues with rolling or sliding logs.



Figure source: see reference 1.

Potential Felling Hazards

Recommendation to Eliminate or Avoid Before cutting, check to ensure that the tree will not fall into other objects or trees. Never turn your back as the tree is falling; keep your eye on the tree as you move quickly from the fall path.
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Avoid felling on obstacles such as stumps, rocks or other debris by using directional felling techniques.
Avoid working around lodged trees. If necessary, have the lodged tree pushed or pulled down safely by a machine.
Knock the limbs down, or pull them down with a machine. Avoid working beneath them, as they may fall and strike you.
Use a machine to bring the snag down. –or— Ensure that it is felled or that you avoid it by two tree lengths, unless the employer can demonstrate that a shorter distance will not place any workers in harms way.
When at all possible use a machine to release spring poles. Only use a chainsaw if the operator has been trained specifically on spring pole release and then only if a machine is not available.
Never fell trees during high winds or otherwise dangerous weather.
Use a machine to fell the tree safely. –or— Cautiously use proper directional felling techniques.
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For more about KY FACE:

Acknowledgements:

http://www.mc.uky.edu/kiprc/face/index.html

Kentucky FACE Program

333 Waller Avenue Suite 242 Lexington, KY 40504 Toll Free: 800-204-3223 | Local: 859-257-5839 Special thanks to the Kentucky Master Logger Program for guidance on the development of this resource. Produced by the Kentucky Fatality Assessment and Control Evaluation Program, Kentucky Injury Prevention and Research Center, a bona fide agent for the Kentucky Department for Public Health. National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. Grant no. 2U600H008483-13.

¹Civilian occupations with high fatal work injury rates, 2015. Census for Fatal Occupational Injuries, U.S. Bureau of Labor Statistics, (2016), PDF. ²Kentucky FACE Database, Jan 2016-Aug 2017 exploratory analysis.