

# Site Amplification Class Map of Douglas County, Oregon



STATE OF OREGON  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
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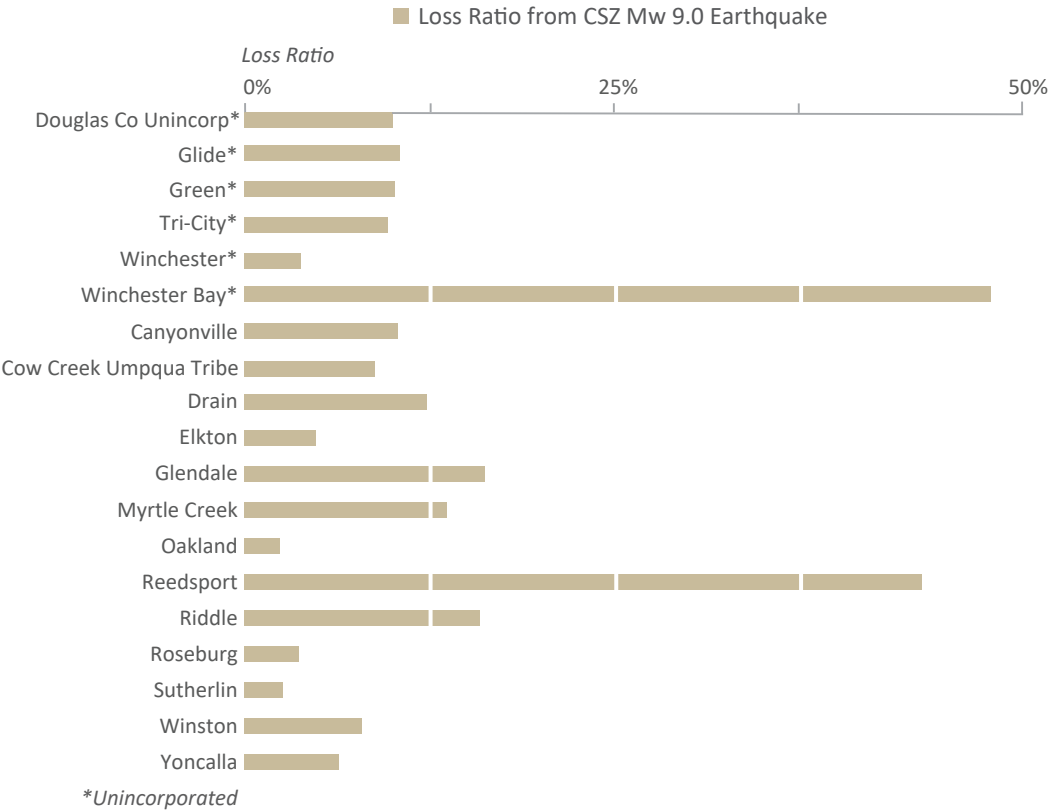
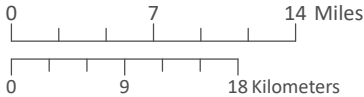
Study Location Map

This map is an overview map and not intended to provide details at the community scale. The GIS data that are published with the Douglas County Multi-Hazard Risk Assessment can be used to inform regarding queries at the community scale.

### NEHRP Class

- B
- C
- D
- E, F

Site Amplification is the degree to which soil types attenuate (weaken) or amplify (strengthen) seismic waves produced from an earthquake. The National Earthquake Hazards Reduction Program (NEHRP) classifies these geologic units into soft rock (B), dense soil or soft rock (C), stiff soil (D), and soft clay or soil (E, F). NEHRP soils can significantly affect the level of shaking and amount of damage that occurs at a specific location during an earthquake



**Data Sources:**  
Soil amplification: Oregon Department of Geology and Mineral Industries (2021)  
Roads: Oregon Department of Transportation Signed Routes (2013)  
Place names: U.S. Geological Survey Geographic Names Information System (2015)  
City limits: Oregon Department of Transportation (2014)  
Basemap: Oregon Lidar Consortium (2014)  
Hydrography: U.S. Geological Survey National Hydrography Dataset (2017)

Projection: NAD 1983 UTM Zone 10N  
Software: Esri® ArcMap 10, Adobe® Illustrator CC  
Cartography by: Matt C. Williams, 2023

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