



STATE OF OREGON
DEPARTMENT OF GEOLOGY AND
MINERAL INDUSTRIES
RUARRI J. DAY-STIRRAT, STATE GEOLOGIST
www.oregongeology.org

Cascadia Subduction Earthquake Shaking Map of Cottage Grove, Oregon

PLATE 3

Modified Mercalli	Perceived Shaking	Potential Damage	Peak Ground Acceleration (g)
I	Not felt	None	< 0.000464
II	Weak	None	0.000464 - 0.00297
III	Weak	None	0.000464 - 0.00297
IV	Light	None	0.00297 - 0.0276
V	Moderate	Very Light	0.0276 - 0.115
VI	Strong	Light	0.115 - 0.215
VII	Very Strong	Moderate	0.215 - 0.401
VIII	Severe	Mod./Heavy	0.401 - 0.747
IX	Violent	Heavy	0.747 - 1.39
X	Extreme	Very Heavy	> 1.39

Map Elements

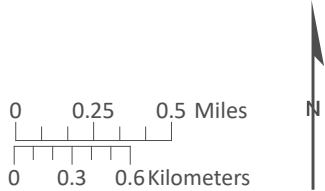
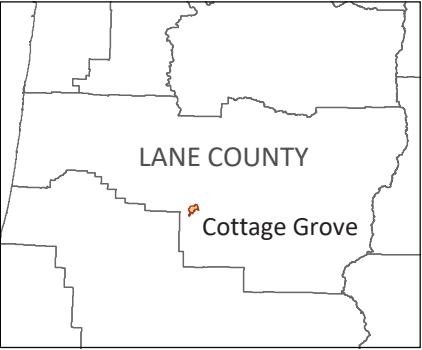
- Cottage Grove Urban Growth Boundary
- Streams
- Major Roads

Community	Earthquake Risk					
	Potentially Displaced Residents	% Potentially Displaced Residents	Exposed Buildings	Exposed Critical Facilities	Building Value Exposed (\$)	Exposure Ratio
Cottage Grove	37	0.4%	318	8	111,599,000	7.1%

Data Sources:
Earthquake peak ground acceleration: Oregon Seismic Hazard Database (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 (2017)
Hydrography: U.S. Geological Survey National Hydrography Dataset (2017)

Projection: NAD 1983 HARN Oregon Statewide Lambert
Software: Esri ArcMap 10, Adobe Illustrator CC

Cartography by: Matt C. Williams, 2022



Peak Ground Acceleration (PGA) is the maximum acceleration in a given location or rather how hard the ground is shaking during an earthquake. It is one measurement of ground motion, which is closely associated with the level of damage that occurs from an earthquake.

Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. This publication cannot substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from the results shown in the publication. See the accompanying text report for more details on the limitations of the methods and data used to prepare this publication.

This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Cottage Grove Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.