M9.0 CSZ Earthquake Shaking Map of the Lower Columbia-Sandy Watershed, Oregon
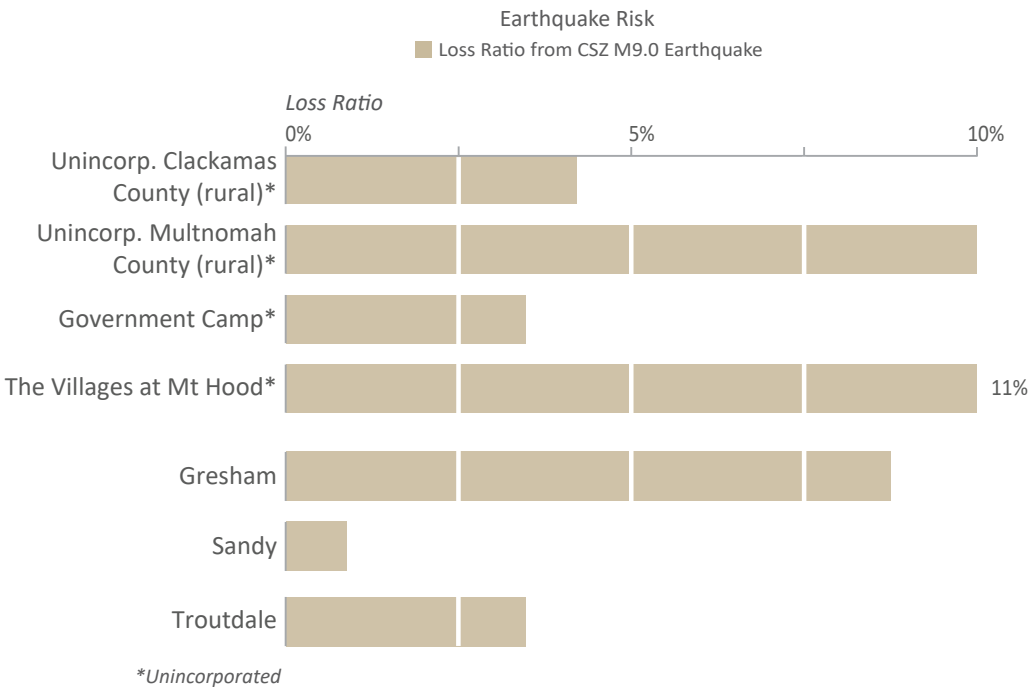
PLATE 3

OREGON

Study Location Map

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.
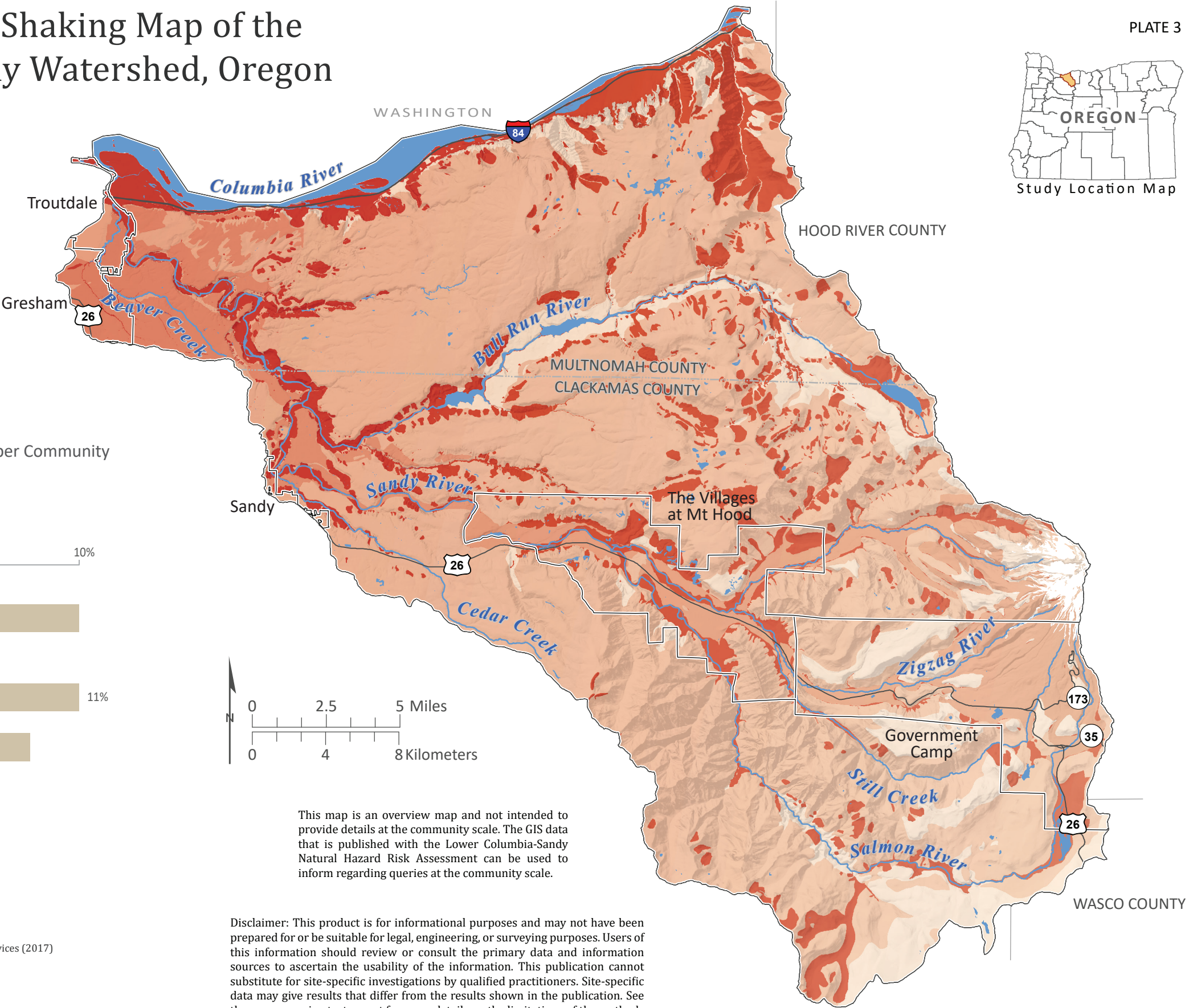
Earthquake Peak Ground Acceleration

(Modified Mercalli Intensity Scale)

Moderate   Severe

Total Building Value Loss Ratio from M9.0 Earthquake per Community

Earthquake Risk
■ Loss Ratio from CSZ M9.0 Earthquake

Loss Ratio

	0%	5%	10%
Unincorp. Clackamas County (rural)*			
Unincorp. Multnomah County (rural)*			
Government Camp*			
The Villages at Mt Hood*			11%
Gresham			
Sandy			
Troutdale			

*Unincorporated

Data Sources:
Earthquake peak ground acceleration: Madin and Burns (2013)
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) | Clackamas County Technology Services (2017)
Basemap: U.S. Geological Survey and Oregon Lidar Consortium (2012)
Hydrography: U.S. Geological Survey National Hydrography Dataset (2017)

Projection: NAD 1983 UTM Zone 10N
Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

WASHINGTON

Columbia River

Troutdale

Gresham

Beaver Creek

26

Sandy

Sandy River

26

Cedar Creek

Bull Run River

MULTNOMAH COUNTY
CLACKAMAS COUNTY

HOOD RIVER COUNTY

The Villages at Mt Hood

Zigzag River

173

35

Government Camp

Still Creek

26

Salmon River

WASCO COUNTY

0		2.5		5 Miles

0	4	8 Kilometers

N

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

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