



M6.9 MHFZ Earthquake Shaking Map of the Lower Columbia-Sandy Watershed, Oregon

PLATE 4

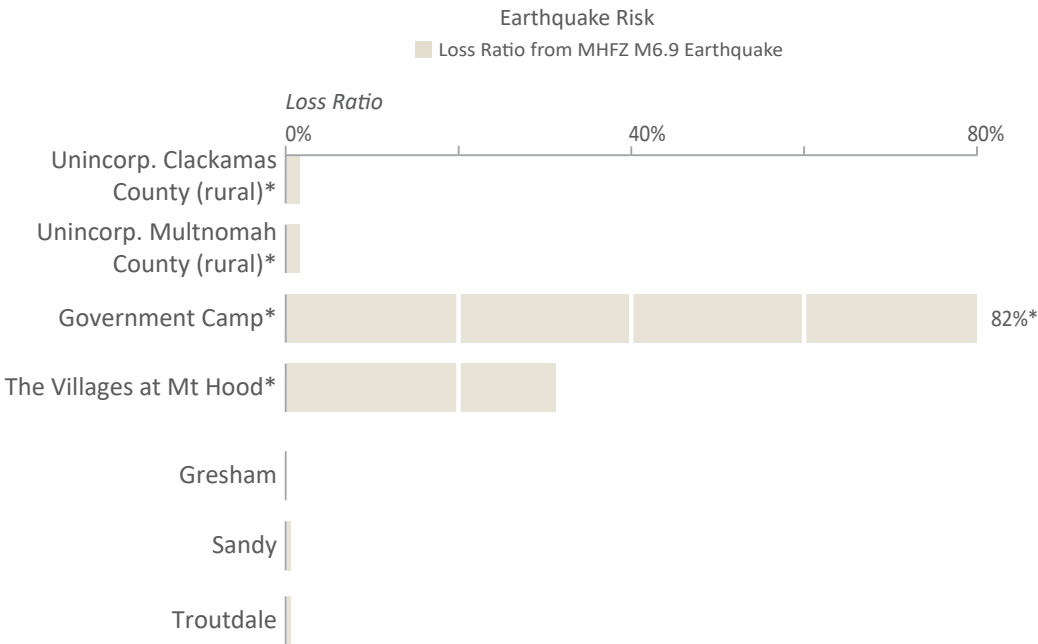


Peak Ground Acceleration (PGA) is the maximum acceleration in a given location or rather how hard the ground is shaking during an earthquake. It is one measurement of ground motion, which is closely associated with the level of damage that occurs from an earthquake.

Earthquake Peak Ground Acceleration

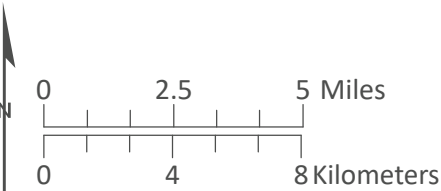
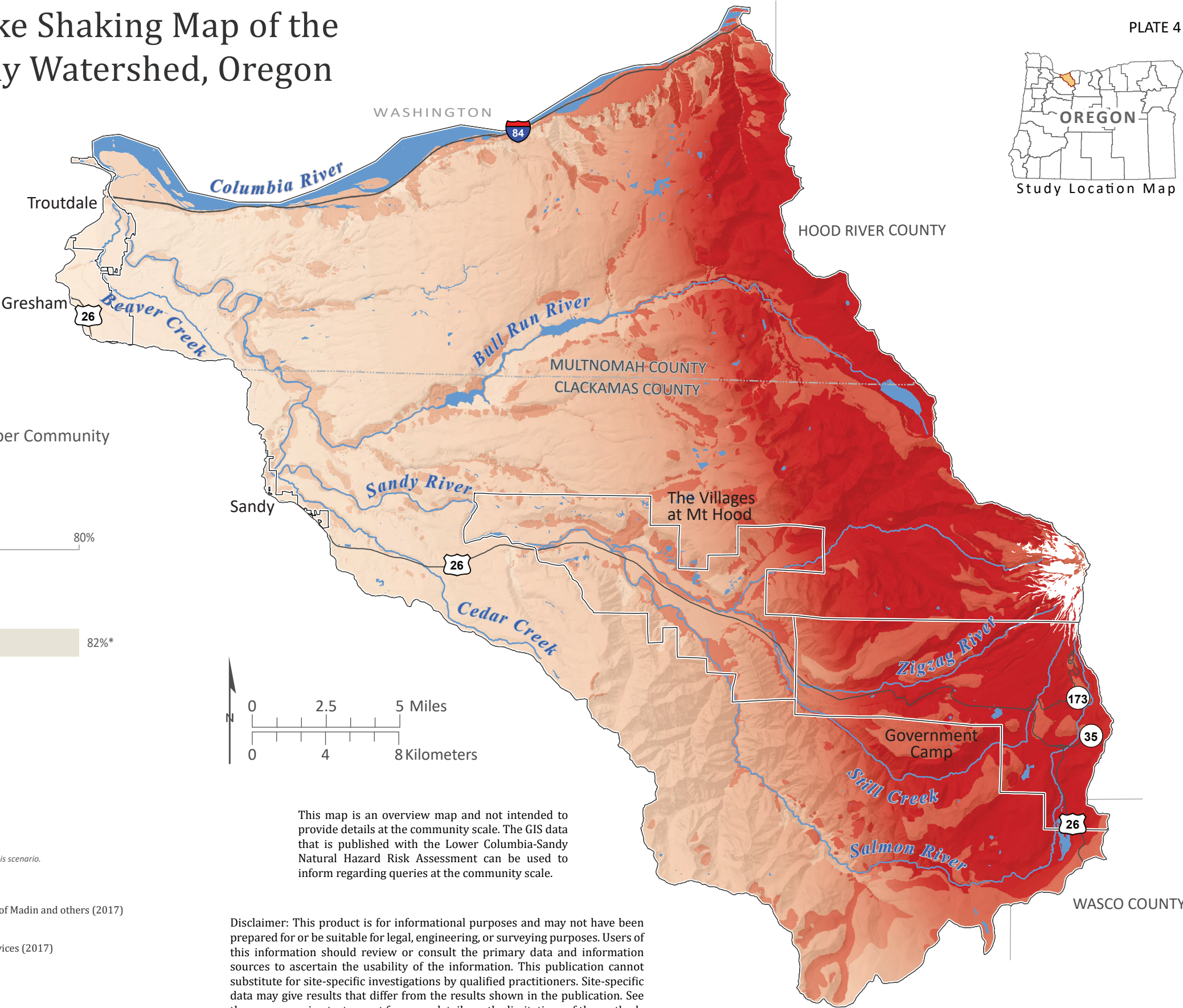


Total Building Value Loss Ratio from M9.0 Earthquake per Community



*Unincorporated
*Most of this damage is incurred from the community's most expensive buildings (e.g. Timberline Lodge) in this scenario. The percentage of red and yellow tagged buildings for Government Camp is near 40%.

Data Sources:
Earthquake peak ground acceleration: Oregon Department of Geology, HAZUS Interpretation of Madin and others (2017)
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



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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