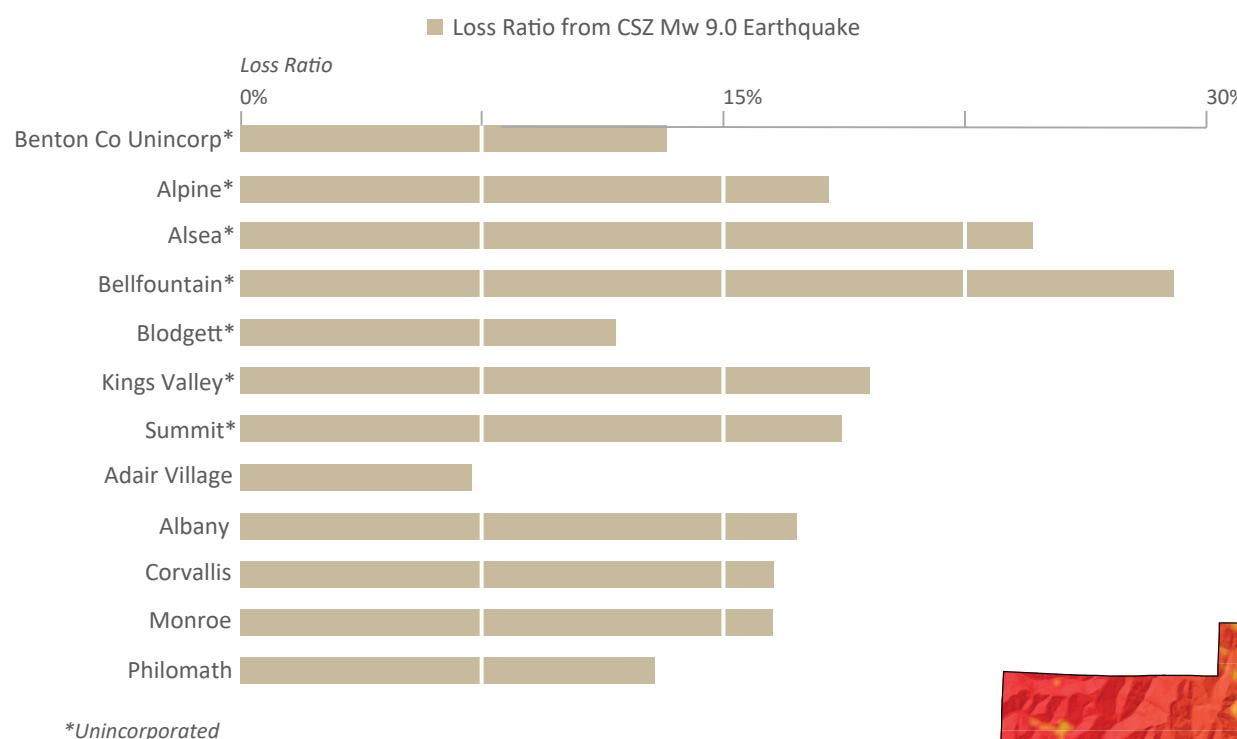




# CSZ Magnitude-9.0 Earthquake Shaking Map of Benton County, Oregon

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.

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



**Data Sources:**  
 Earthquake peak ground acceleration: 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, 2022

