Potential Impact of Permanent Ground Deformation to Metro Emergency Transportation Route Segments
Cascadia Subduction Zone Magnitude 9.0 Earthquake
Dry Soil Scenario

Permanent ground deformation combines earthquake-induced landslide and lateral spread from liquefaction (Plate 8). Probability of occurrence for segments with > 0.5 m of permanent ground deformation is between 20% and 30% (Plate 9).

Emergency Transportation Routes in Columbia County (OR) and Clark County (WA) not analyzed nor fully represented in this map.

Not all cities are labeled.

Source Data:
City boundaries: Metro Regional Land Information System (RLIS), 2016
Emergency Transportation Routes: Metro, 2006
Map Author: John M. Bauer
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Appendix E: Plate 11
Earthquake Regional Impact Analysis for Clackamas, Multnomah, and Washington Counties, Oregon

0.5
1.0
2.0
< 0.5 meters
0.5 – 1.0 meters
1.0 – 2.0 meters

Maximum Potential Permanent Ground Deformation Within Segment

Miles 0 2.5 5 10
Kilometers 0 4 8 16