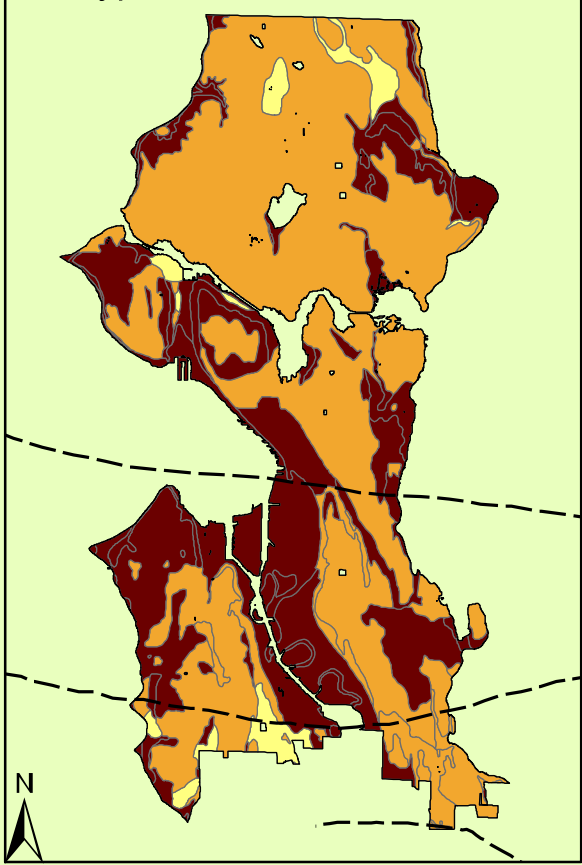


RISK ZONES FOR EARTHQUAKE DAMAGE IN SEATTLE

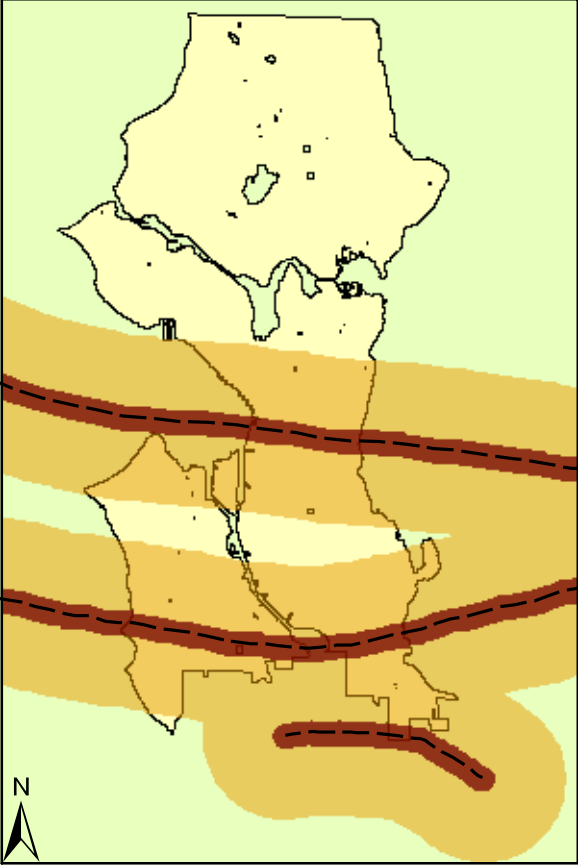
N. Voisin, L. Terry, A. Burgess, B. Nichols, D. Cederlund

Hazard Map Relative To:

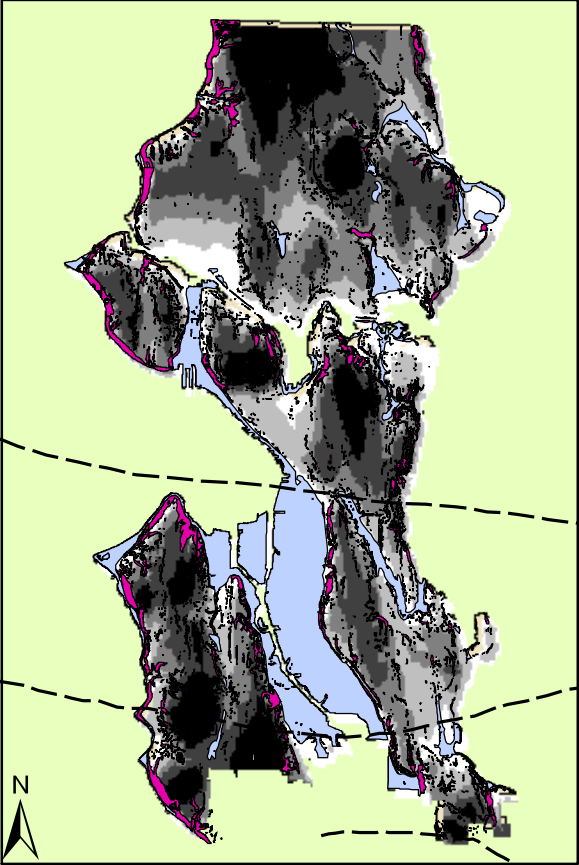
Soil Types, 40%



Distance to Faults, 20%



Liquefaction and slopes, each 20%



LEGEND

- SeattleStreetsNetwork
- Fault_lines



Relative Risk Zones

net_risk

- Low Risk
- Medium Risk
- High Risk
- Steep Slopes
- Liquefaction Area

Weighted Function

Properties	High risk Range	Medium Risk Range	Low Risk Range	Weight
	-3-	-2-	-1-	
Distance	0 - 1,500 ft	1,501 – 10,000 ft	Above 10,000 ft	0.2
Soil Type	Unconsolidated	Moderate	Consolidated	0.4
Liquefaction	Yes	N/A	No	0.2
Steep Slope	Yes	N/A	No	0.2

Seattle Elevation (In Meters)

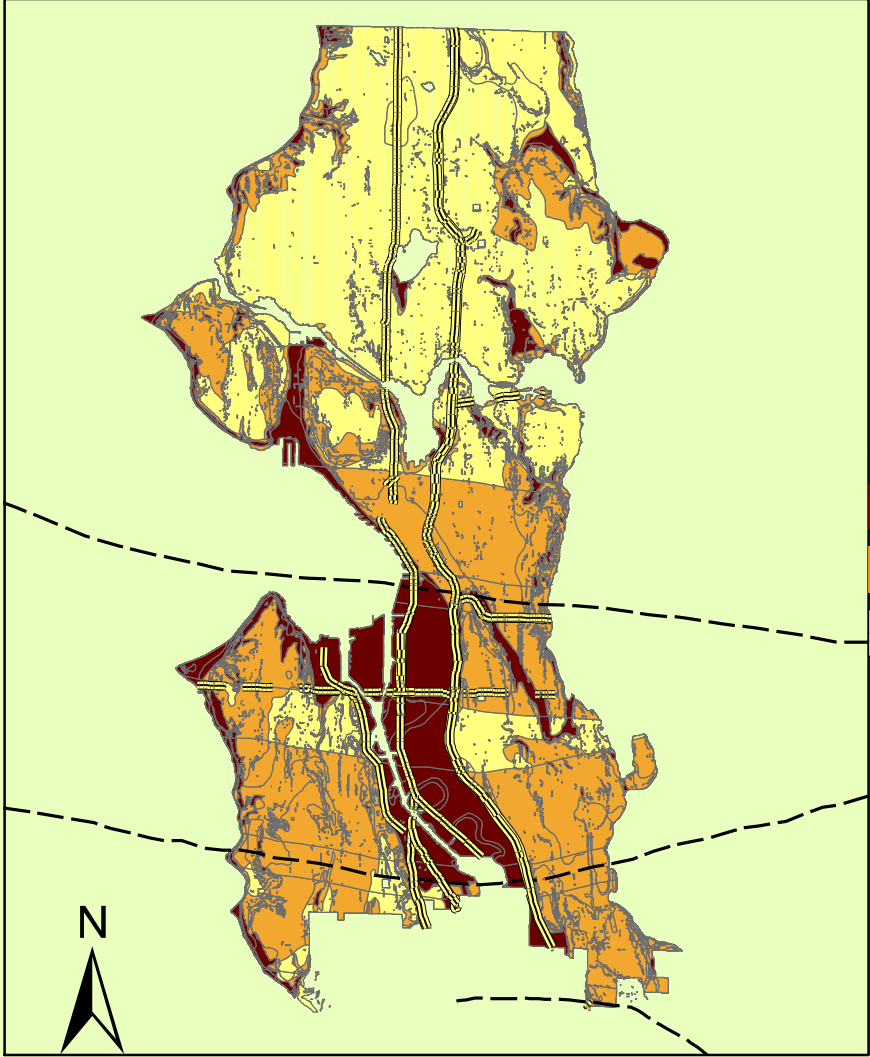
<VALUE>

- 0.6094 - 23.77
- 23.78 - 53.63
- 53.64 - 81.66
- 81.67 - 108.5
- 108.6 - 156

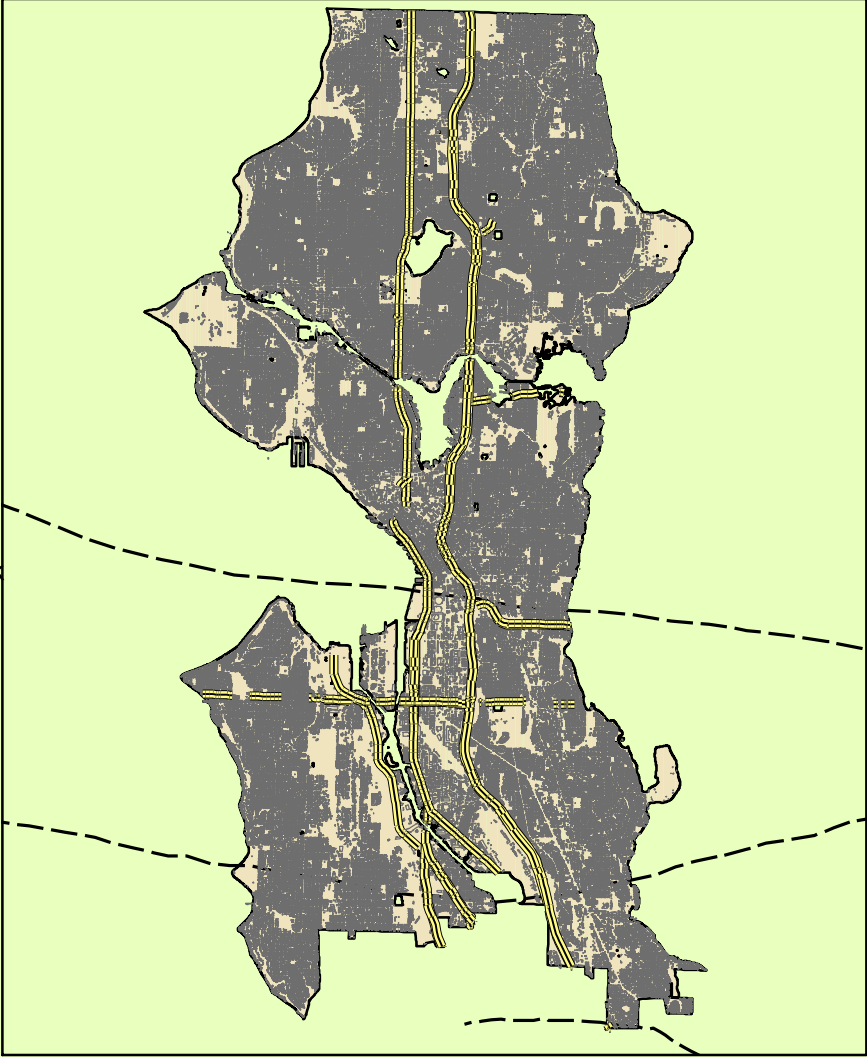
ANALYSIS

The presented results have been derived from a spatial analysis estimating the weighted factor causing or enhancing damages during an earthquake in the Seattle City Limits. Roads, buildings and gas lines are installations at risk.

Final Hazard Map



Installations at Risk



LEGEND

- Fault_lines
- High Risk
- Medium Risk
- Low Risk

