

**Table II-10. Worksheet #1: Natural Hazard Identification and Risk Assessment
Hazard Mitigation Plan
Mercer Island, Washington**

Hazard Type	Disaster History (with Federal Disaster No., if any)	Likelihood of Occurrence - Probability (L, M, H)	Location of Assets (i.e. small, medium or large, size of impacted area) - Correspond to map or identifiable area - especially critical facilities and infrastructure	Vulnerability Potential (L, M, H)	Risk Rating (L, M, H)
Landslide and Erosion	1965-1967, January 1986, January 1990, April 1991, November 1996, January 1997, March 1997	H	Vulnerable residences are located along the east, south and west perimeter of Mercer Island (37 acres). However, the least densely populated neighborhoods (zoned for 15,000-sq.-ft. lot size) are located along East and West Mercer ways, which are located in the landslide hazard area. A recorded slide also has occurred in the Central Business District, which is the inland northern portion of Mercer Island. The North Fire Station also is located in this area. The primary and secondary water lines extend across the landslide/erosion hazard area in the northeast portion of Mercer Island.	H	H
Earthquake and Wave-induced Hazards	2001 Nisqually Earthquake (Disaster 1361)	H	All portions of Mercer Island are vulnerable to seismic activity, either to liquefaction or other ground motion. Seiche activity would primarily impact residential property along the shoreline of Mercer Island.	H	H
Severe Storms	November 1988, January 1989, November 1990, December 1992, January 1993, December 1995, November 1996, December 1996, April 1997, February 1999, July 2000, December 2000, January/February 2002 (two events), December 2002, December 2003	H	Mercer Island is threatened annually by regional winter storms. The storms include heavy rain, and strong winds, with occasional damaging snowfall. Aboveground utilities and roads across the island are vulnerable. Residential properties on the shoreline are more vulnerable to windstorms.	H	H
Urban/Wildland Interface Fire	Urban fires annually	H	Mercer Island includes over 475 acres of park and open space lands, many of which are scattered across the community.	M	H

PROBABILITY RATING

L Not likely to occur within 25 years
M Moderate likelihood to occur within 25 years
H Great likelihood to occur within 25 years

RISK RATING

L Low probability, small population vulnerable
M Moderate, portion of population vulnerable
H High, entire population vulnerable

Vulnerability ratios of population, property, commerce, infrastructure and services at risk, relative to entire city.