



# Hazard Risk Ranking



## Hazard Mitigation Plan Update

Grays Harbor County, its jurisdictions, and special purpose districts are embarking on a planning process to prepare for impacts of natural disasters. Responding to federal mandates in the Disaster Mitigation Act of 2000 (Public Law 106-390), Grays Harbor County Department of Emergency Management is updating its 2011 Hazard Mitigation Plan to enhance resilience throughout the County. During this process, local citizens will be asked to contribute by sharing knowledge of the area's vulnerability to hazards based on past occurrences.

### Countywide Planning Initiative Planning Partners Include

Grays Harbor County  
Aberdeen  
Cosmopolis  
Elma  
Hoquiam  
McCleary  
Montesano  
Oakville  
Ocean Shores  
Westport

Port of Grays Harbor  
Grays Harbor Transit  
Grays Harbor PUD  
Grays Harbor Hospital District  
Summit Pacific Medical Center  
Grays Harbor College  
Fire District 2  
Fire District 5  
Fire District 7  
Fire District 8

#### Types of Hazards Addressed

- Climate Change
- Drought
- Earthquake
- Erosion
- Flood
- Hazardous Materials
- Landslide
- Severe Weather
- Tsunami
- Volcano
- Wildfires

Since 1954, Grays Harbor County has  
**experienced 25 Disaster Events**  
1 Earthquake / 12 Floods / 10 Severe Storms /  
1 Volcanic Eruption / 1 El Nino' Fish Loss

GRAYS HARBOR COUNTY DISASTER HISTORY 1/1/1951 - 9/6/2017					
Disaster Number	Declaration Date	Incident Type	Title	Incident Begin Date	Incident End Date
4253	2/2/2016	Flood	Severe Winter Storm, Straight-Line Winds, Flooding, Landslides, Mudslides	12/1/2015	12/14/2015
4242	10/15/2015	Severe Storm(s)	Severe Windstorm	8/29/2015	8/29/2015
4056	3/5/2012	Severe Storm(s)	Severe Winter Storm, Flooding, Landslides, and Mudslides	1/14/2012	1/23/2012
1825	3/2/2009	Severe Storm(s)	Severe Winter Storm, Record and Near Record Snow	12/12/2008	1/5/2009
1817	1/30/2009	Flood	Severe Winter Storm, Landslides, Mudslides, and Flooding	1/6/2009	1/16/2009
1734	12/8/2007	Severe Storm(s)	Severe Storms, Flooding, Landslides, and Mudslides	12/1/2007	12/17/2007
1682	2/14/2007	Severe Storm(s)	Severe Winter Storm, Landslides, and Mudslides	12/14/2006	12/15/2006
1671	12/12/2006	Severe Storm(s)	Severe Storms, Flooding, Landslides, and Mudslides	11/2/2006	11/11/2006
1641	5/17/2006	Severe Storm(s)	Severe Storms, Flooding, Tidal Surge, Landslides, and Mudslides	1/27/2006	2/4/2006
1499	11/7/2003	Severe Storm(s)	Severe Storms and Flooding	10/15/2003	10/23/2003
1361	3/1/2001	Earthquake	Earthquake	2/28/2001	3/16/2001
1172	4/2/1997	Flood	Heavy Rains, Snow Melt, Flooding, Land and Mudslides	3/18/1997	3/28/1997
1159	1/17/1997	Severe Storm(s)	Severe Winter Storms, Land and Mudslides, Flooding	12/26/1996	2/10/1997
1100	2/9/1996	Flood	High Winds, Severe Storms, Flooding	1/26/1996	2/23/1996
1079	1/3/1996	Severe Storm(s)	Severe Storms, High Wind, and Flooding	11/7/1995	12/18/1995
1037	8/2/1994	Fishing Losses	The El Nino (The Salmon Industry)	5/1/1994	10/31/1994
883	11/26/1990	Flood	Severe Storms, Flooding	11/9/1990	12/20/1990
852	1/18/1990	Flood	Severe Storms, Flooding	1/6/1990	1/14/1990
623	5/21/1980	Volcano	Volcanic Eruption, Mt. St. Helens	5/21/1980	5/21/1980
612	12/31/1979	Flood	Storms, High Tides, Mudslides, Flooding	12/31/1979	12/31/1979
545	12/10/1977	Flood	Severe Storms, Mudslides, Flooding	12/10/1977	12/10/1977
492	12/13/1975	Flood	Severe Storms and Flooding	12/13/1975	12/13/1975
322	2/1/1972	Flood	Severe Storms and Flooding	2/1/1972	2/1/1972
300	2/9/1971	Flood	Heavy Rains, Melting Snow, Flooding	2/9/1971	2/9/1971
185	12/29/1964	Flood	Heavy Rains and Flooding	12/29/1964	12/29/1964

Hazard Ranking Based on the Calculated Priority Risk Ranking

Rank	Hazard	CPRI Score	Level
1	Earthquake	3.85	High
2	Tsunami	3.3	High
3	Flood	3.1	High
4	Severe Weather	3.05	High
5	Landslides	2.95	High
6	Erosion	2.85	Medium
7	Wildfire	2.7	Medium
8	Other Hazards of Concern	2.65	Medium
9	Climate Change	2.35	Low
9	Drought	2.35	Low
10	Volcano	1.55	Low

## Measuring Risk

Grays Harbor County uses a Calculated Priority Risk Ranking method to identify the level of risk and ranking of hazards of concern. Each hazard identified is reviewed based on their impact to the people, property, environment, and economy. In some cases, where specific geographic boundaries are not available, impact is more subjective in nature. In other instances, the risk is defined based on GIS and FEMA Hazus analysis, with updated critical facilities developed by our planning team. Check out the County's Hazard Mitigation Planning Webpage located on Grays Harbor County's Emergency Management website..

## Risk Assessment Summary

Grays Harbor County uses a Calculated Priority Risk Ranking method to identify the level of risk and ranking of hazards of concern. Each hazard identified is reviewed based on their impact to the people, property, environment, and economy. In some cases, where specific geographic boundaries are not available, impact is more subjective in nature. In other instances, the risk is defined based on GIS and FEMA Hazus analysis, with updated critical facilities developed by our planning team. Based on the analysis, the hazards ranked are illustrated to the right.