

**Olympia School District’s Annex to  
the Natural Hazards Mitigation Plan  
for the Thurston Region**

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Demographics

**Governance:** Five Board of Directors: each representing a director district: each is elected to a four year term

District Size (square miles):	81.1
Population, 2000:	54,260
Population, 2008:	59,760
Population, 2030:	83,730
Student Body Growth 2000-2008	1.1%
Students Per Classroom Teacher	16

**Mission**

The teachers, staff, administrators, and directors of the Olympia School District, in partnership with students, their families, and the community, will use the resources of the District to support teaching and learning, so that each student will achieve success in a changing and diverse world.

**Vision**

We envision a supportive environment which promotes student growth and achievement of the highest standards. We build our capacity for success through leading edge programs and operations based on continuous improvement. We have 100 percent commitment to quality and excellence in all things.

**Ethnicity (October 2007):**

American Indian/Alaskan Native	1.2%
Asian	9.0%
Pacific Islander	0.6%
Black	2.4%
Hispanic	5.0%
White	77.0%

**Special Programs (October 2007):**

Transitional Bilingual	1.8%
Special Education	12.3%
Free or Reduced Price Meals	21.7%

Enrollment

2008 - 2009 School Year	Number	Students	Faculty	Staff
Administration/Service Center			35	58
High Schools	3	3,237	181	47
Middle Schools	4	1,900	117	39
Elementary Schools	11	3,747	248	144
Other Schools	1	318	10	1
<b>Total</b>	<b>19</b>	<b>9,201</b>	<b>591</b>	<b>289</b>

Financial

**Assets (2008):**

Valuation of Infrastructure	\$238,163,640.00
Valuation of Contents	\$21,237,959.00
<b>Total</b>	<b>\$259,401,599.00</b>

**Revenues (2008-09):**

	Per Student Amounts	
State	\$6,090	66%
Federal	\$978	11%
Local Tax	\$2,089	23%
Other Sources	\$53	1%
<b>Total</b>	<b>\$9,210</b>	<b>100%</b>

**Expenditures (2006-07):**

	Per Student Amounts	
Central Administration	\$471	5%
Building Administration	\$916	10%
Maintenance and Operations	\$936	10%
Food Services	\$297	3%
Transportation Services	\$312	3%
Teaching	\$5,299	59%
Other	\$758	8%
<b>Total</b>	<b>\$8,989</b>	<b>100%</b>

Sources:

Washington State Superintendent of Public Instruction  
Thurston Regional Planning Council

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## Olympia School District's Plan Development Process

### Hazard Mitigation Plan Workgroup

The following individuals served as the Olympia School District's hazard mitigation plan development team:

Department/Title	Representative(s)
Insert Department Name or Position Title	Insert Name
Transportation	Fred Stanley
Support Services	Julie DeRuew
Capital Projects	Tim Byrne
Teaching and Learning	Jeff Carpenter
Principals	Larry Walsh
Health Services	Audrey James

### Hazard Mitigation Plan Development

Date	Location	Activity	Subject
May 14, 2009	Knox Center	Tim Byrne, Cap. Projects	Hazard Mitigation Update
June 11, 2009	Knox Center	Planning Committee	2009 Initiative Planning Meeting
August 28, 2009	Knox Center	Planning Committee	2009 Mitigation Plan Update
TBA	TBA	Board of Directors	Plan Adoption

### Mitigation Initiative Prioritization Process

The Olympia School District reviewed all mitigation initiatives, identified those that had been completed and those that were still necessary. Two new initiatives were identified.

The prioritization process for the two new initiatives resulted in the examination of both the fiscal personnel, student, staff and community impact. Priority one involves the retrofitting of roof trusses at Capital High School. During the 2008-2009 snow event, roof trusses at Capital High School failed causing a major roof collapse. While repairs were done so that the school could reopen, limitations on the "live weight" that could be carried were such that school would be closed if snow were to accumulate on the roof. In order for school to remain open under snow conditions trusses must be retrofitted.

Priority two involves the retrofitting of three schools with large generators. These schools not only serve the school populations on both the west and east side of the City of Olympia, but also serve as evacuation centers for the city's emergency evacuation plan. At this time, in the event of a power loss these centers would not be available.

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# Olympia School District's Risk Assessment

## Introduction

The risk assessment provides information about the hazards that threaten Olympia School District. This information provides the factual basis to identify and support a strategy that can effectively mitigate the effects of the hazards that threaten this jurisdiction's safety and challenge its ability to perform essential functions.

The content and structure of this plan's risk assessment was developed using the Federal Emergency Management Agency's (FEMA) 2008 "Local Multi-Hazard Mitigation Planning Guidance." Table 1 shows the Disaster Mitigation Act (DMA) Risk Assessment Planning Requirements that must be met in order for this plan to receive a "satisfactory" score. Each of these planning requirements is met through the information contained in both the regional risk assessment and in this local annex.

**Table 1: Disaster Mitigation Act Risk Assessment Planning Requirements**

DMA Section	Requirement
§201.6(c)(2)(i):	[The risk assessment <b>shall</b> include a] description of the type ... of all natural hazards that can affect the jurisdiction ...
§201.6(c)(2)(i):	[The risk assessment <b>shall</b> include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan <b>shall</b> include information on previous occurrences of hazard events and on the probability of future hazard events.
§201.6(c)(2)(ii):	[The risk assessment <b>shall</b> include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description <b>shall</b> include an overall summary of each hazard and its impact on the community.
§201.6(c)(2)(ii):	[The risk assessment in all] plans approved after October 1, 2008 <b>must</b> also address National Flood Insurance Program (NFIP) insured structures that have been repetitively damaged by floods.
§201.6(c)(2)(ii)(A):	The plan <b>should</b> describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas ...
§201.6(c)(2)(ii)(B):	[The plan <b>should</b> describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate ...
§201.6(c)(2)(ii)(C):	[The plan <b>should</b> describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.
§201.6(c)(2)(iii):	For multi-jurisdictional plans, the risk assessment <b>must</b> assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

In general the Federal DMA planning requirements with the words "shall" and "must" indicate that the item is mandatory and must be included in the plan, otherwise it will not be approved by FEMA. Regulations with the word "should" indicate that the item is strongly recommended to be included in the plan, but its absence will not cause FEMA to disapprove the plan.

## Hazard Analysis Definitions

The adjective descriptors (High, Moderate, and Low) for each hazard's probability of occurrence, vulnerability, and risk rating are consistent with the terms used in the regional assessment.

The following terms are used in this plan to analyze and summarize the risk of the hazards that threaten this jurisdiction:

### Risk Rating:

An adjective description (High, Moderate, or Low) of the overall threat posed by a hazard is assessed for the next 25 years. Risk is the subjective estimate of the combination of any given hazard's probability of occurrence and vulnerability.

- **High:** There is strong potential for a disaster of major proportions during the next 25 years; or History suggests the occurrence of multiple disasters of moderate proportions during the next 25 years.
- **Moderate:** There is medium potential for a disaster of less than major proportions during the next 25 years.
- **Low:** There is little potential for a disaster during the next 25 years.

### Probability of Occurrence:

An adjective description (High, Medium, or Low) of the probability of a hazard impacting the jurisdiction within the next 25 years.

- **High:** There is great likelihood that a hazardous event will occur within the next 25 years.
- **Moderate:** There is medium likelihood that a hazardous event will occur within the next 25 years.
- **Low:** There is little likelihood that a hazardous event will occur within the next 25 years.

### Vulnerability:

Vulnerability can be expressed as combination of the severity of a natural hazard's effect and its consequential impacts to the community. An adjective description (High, Medium, or Low) of the potential impact a hazard could have on the community. It considers the population, property, commerce, infrastructure and services at risk relative to the entire jurisdiction.

- **High:** The total population, property, commerce, infrastructure and services of the community are uniformly exposed to the effects of a hazard of potentially great magnitude. In a worse case scenario, there could be a disaster of major to catastrophic proportions.



Figure 1: Risk is a subjective estimate of the combination of a hazard's probability of occurrence and a community's vulnerability.

- **Moderate:** The total population, property, commerce, infrastructure, and services of the community are exposed to the effects of a hazard of moderate influence; or The total population, property, commerce, infrastructure, and services of the community are exposed to the effects of a hazard of moderate influence, but not all to the same degree; or An important segment of population, property, commerce, infrastructure and services of the community are exposed to the effects of a hazard. In a worse case scenario there could be a disaster of moderate to major, though not catastrophic, proportions.
- **Low:** A limited area or segment of population, property, commerce, infrastructure, or service is exposed to the effects of a hazard. In a worse case scenario, there could be a disaster of minor to moderate proportions.

## Summary Risk Assessment

Based on the regional risk assessment and the local risk assessment in the subsequent section, the following hazards pose the greatest threat to Olympia School District:

Hazard	Probability of Occurrence	Vulnerability	Risk
Earthquake	High	High	High
Storm	Moderate	High	High
Flood	Low	Low	Low
Landslide	Low	Low	Low
Wildland Fire	Moderate	Low	Low
Volcanic Event	Low	Moderate	Low

## Local Risk Assessment

A comprehensive risk assessment of the major natural hazards that threaten Olympia School District was developed for this plan through the regional risk assessment process described in Chapter 4.0. The regional risk assessment and its hazard profiles serve as the foundation for this jurisdiction's risk assessment. A list of all of the potential natural hazards that could impact this jurisdiction is located in Chapter 4. Chapter 4 includes six natural hazard profiles for earthquake, storm, flood, landslide, wildland fire, and volcanic events. Each profile defines the hazard and describes its effects, severity, impacts, probability of occurrence, and historical occurrences. The regional profiles describe this jurisdiction's local vulnerabilities in terms of the portion of the jurisdictions land base or service area, population, employment, dwelling units, jurisdiction-owned assets, and critical facilities that are within each hazard zone.

This section of the plan provides additional details or explains differences where this jurisdiction's risks for each hazard vary from the risks facing the entire planning area. Maps of the hazards that affect Olympia School District are scaled to local boundaries and are included in this section.

## Earthquake

### Severity

Severity is dependent upon the source and type of quake, shallow, subduction and deep, all of which can effect our area. The most recent major quake occurred in 2001 and was a deep quake centered near the Nisqually River Delta in Thurston County. This quake measured 6.8 on the Richter Scale.

### Impacts

While major earthquakes have and will pose the potential for major damage the extent of that damage is based on the severity and location of the quake. While District facilities are located in low and low to moderate liquefaction zones the potential for damage to structures, equipment, student/ staff transportation, and transportation routes exists.

### Probability of Occurrence

Past events suggest that a destructive quake reoccurs approximately every 26 years. Therefore, the overall probability of a damaging earthquake is considered “high”.

### Historical Occurrences and Impacts Specific to this Jurisdiction

The 2001, magnitude 6.8, earthquake produced strong ground shaking throughout the region. Specific impacts from this event on the Olympia School District included significant damage to one structure and moderate to minor damage to others.

### Summary Assessment

History suggests a high probability of occurrence for another damaging earthquake in this region. It will be potentially stronger, and/or shallower, than the 2001 quake resulting in much greater damage to District structures, property and persons.

#### Summary Risk Assessment for Earthquake in Olympia School District

Probability of Occurrence	Vulnerability	Risk
High	High	High

## Storm

### Severity

Severe weather events are the most frequent source of “natural disasters” for the Olympia School District. High winds, heavy rain, heavy snow, freezing rain and ice, hail and lightning all impact the District. Each of these elements poses varying degrees of threat throughout the District impacting facilities, transportation, communications, students and staff.

### Impacts

High winds pose the greatest impact to District operations. Falling trees and limbs cause widespread and localized power outages as well as damage to facilities and transportation routes.

Heavy Snow conditions can, and have, caused widespread power outages and structure failures due to the weight of the snowload. In addition, transportation is reduced or canceled causing delays in school starting and ending times or cancelation of all events.

Freezing rain and ice have produced debilitating effects on the District and the community, as experienced in 1996. Slick, blocked roads, fallen trees, electrical, and phone outages caused the community to literally shut-down for up to 10 days in some areas of the District. The results of such an event closes all District facilities, cancels events, and can cause structural damage to facilities.

Heavy Rain related impacts cause localized flooding. Landslides can occur and impact District transportation and some facilities.

### Probability of Occurrence

Heavy Rain, heavy snowfall, freezing rain/ice, high winds, hail and lightning all impact Thurston County and the Olympia School District. Each element poses a threat in varying degrees depending on severity.

High winds, heavy rain and heavy snowfall have a “high” probability of occurrence while freezing rain/ice, hail and lightning can be considered a “moderate” probability.

### Historical Occurrences and Impacts Specific to this Jurisdiction

Historically, the greatest impact of these events has resulted from high winds, heavy snowfall and freezing rain/ice storms. The primary impact of these occurrences has been on transportation and facilities. Specific impacts include structural failures due to heavy snow/ice loads and high winds, as well as the disruption of transportation causing either adjustments in starting/closing times or cancellation of classes and events.

## Summary Assessment

The high reoccurrence rate of regional storms, the record historical damage to facilities and loss of instruction/work time associated with these destructive events make the District highly vulnerable to storm events. Thus the overall risk rating for severe storms is “high”.

### Summary Risk Assessment for Storm in Olympia School District

<b>Probability of Occurrence</b>	<b>Vulnerability</b>	<b>Risk</b>
Moderate	High	High

## Flood

### Severity

Floods can occur during any season and can happen at any time. In the District, the primary risk of flooding is due to either groundwater or urban flooding conditions.

Groundwater flooding events can be characterized by wet winter weather and periodic heavy rains.

### Impacts

Based upon Thurston County data no District facilities are located within an area of “high groundwater”, “100 year floodplain” or a “500 year flood plane”. However, transportation of students and staff can be disrupted due to flooding.

### Probability of Occurrence

Over the past decade, the increasing frequency of heavy rainfall has overwhelmed urban infrastructure. During this period, rain and high groundwater flooding can also be expected.

### Historical Occurrences and Impacts Specific to this Jurisdiction

Flooding events have not presented significant impact to the District or delivery of educational programs and services.

### Summary Assessment

While history indicates a high probability of future occurrence, the severity and impact on District programs and services is “low”.

#### Summary Risk Assessment for Flood in Olympia School District

Probability of Occurrence	Vulnerability	Risk
Low	Low	Low

## Landslide

### Severity

Factors contributing to landslides include erosion, earthquakes, increased land bearing loads, hydrologic (water) factors, and removal of underlying support. While District boundaries include areas with slopes in excess of forty percent no District facilities are located in areas of “steep slopes”.

### Impacts

While no facilities are located in areas of slopes exceeding forty percent, transportation routes would be impacted by potential landslide hazard zones.

### Probability of Occurrence

Based on historical events, the incidence of landslides are concurrent with winter storms, flooding and earthquakes. Based on geologic data, the probability for occurrence affecting school district property or operations is “low”

### Historical Occurrences and Impacts Specific to this Jurisdiction

Landslide events have not presented a significant impact to the District or the delivery of educational programs.

### Summary Assessment

In the District, landslides tend to occur in isolated areas with minimal impact on facilities, transportation or communications; this would indicate a “low” risk rating.

#### Summary Risk Assessment for Landslide in Olympia School District

Probability of Occurrence	Vulnerability	Risk
Low	Low	Low

## Wildland Fire

### Severity

Sources and factors in “wildfires” include fuel, weather conditions and terrain. In turn, the severity of a fire is influenced by the moisture content of the soil and vegetation, slope of the land and types of structures present.

The severity of a “wildfire” is impacted by aggressive efforts and practices. Over the past years the reduction of “wildlands”, in combination with quicker reporting/response and suppression efforts, have lessened the risk to District assets.

### Impacts

While a large portion of the District service area is located within “Wildfire Hazard Areas” only two District owned facilities are found within these areas.

The direct impact of “wildfires” vary depending on size and location. When a fire does occur, they result in a quick and effective response. While the response may disrupt normal operation of facilities and transportation routes, the effects tend to be short-term in nature.

### Probability of Occurrence

Wildfires continue to present a “high” probability of occurrence within District boundaries. However, in the context of response services and prevention efforts only a “moderate” level of risk is predicted.

### Historical Occurrences and Impacts Specific to this Jurisdiction

While wildfires present a hazard to District operations, in the context of other factors it appears manageable.

### Summary Assessment

Wildfires are quickly reported and suppressed with minimal impact on District operations, this would indicate a “low” risk rating.

#### Summary Risk Assessment for Wildland Fire in Olympia School District

Probability of Occurrence	Vulnerability	Risk
Moderate	Low	Low

## Volcanic Hazards

### Severity

The two most likely hazards to affect the District are volcanic dust and rock fragments. Depending on wind direction, dust and rock fragments could fall within the District boundaries.

### Impacts

Ash fall of a ¼ inch would reduce and cancel transportation of students and staff and those with respiratory health conditions. Larger accumulations of wet ash could result in load bearing problems for structures, trees, and utility lines causing collapses and power/communication outages.

The ability for the District to continue operation during these conditions would be dependent on the severity of the event.

### Probability of Occurrence

Because of prevailing winds, its is likely most ash would be blown east away from the District.

### Historical Occurrences and Impacts Specific to this Jurisdiction

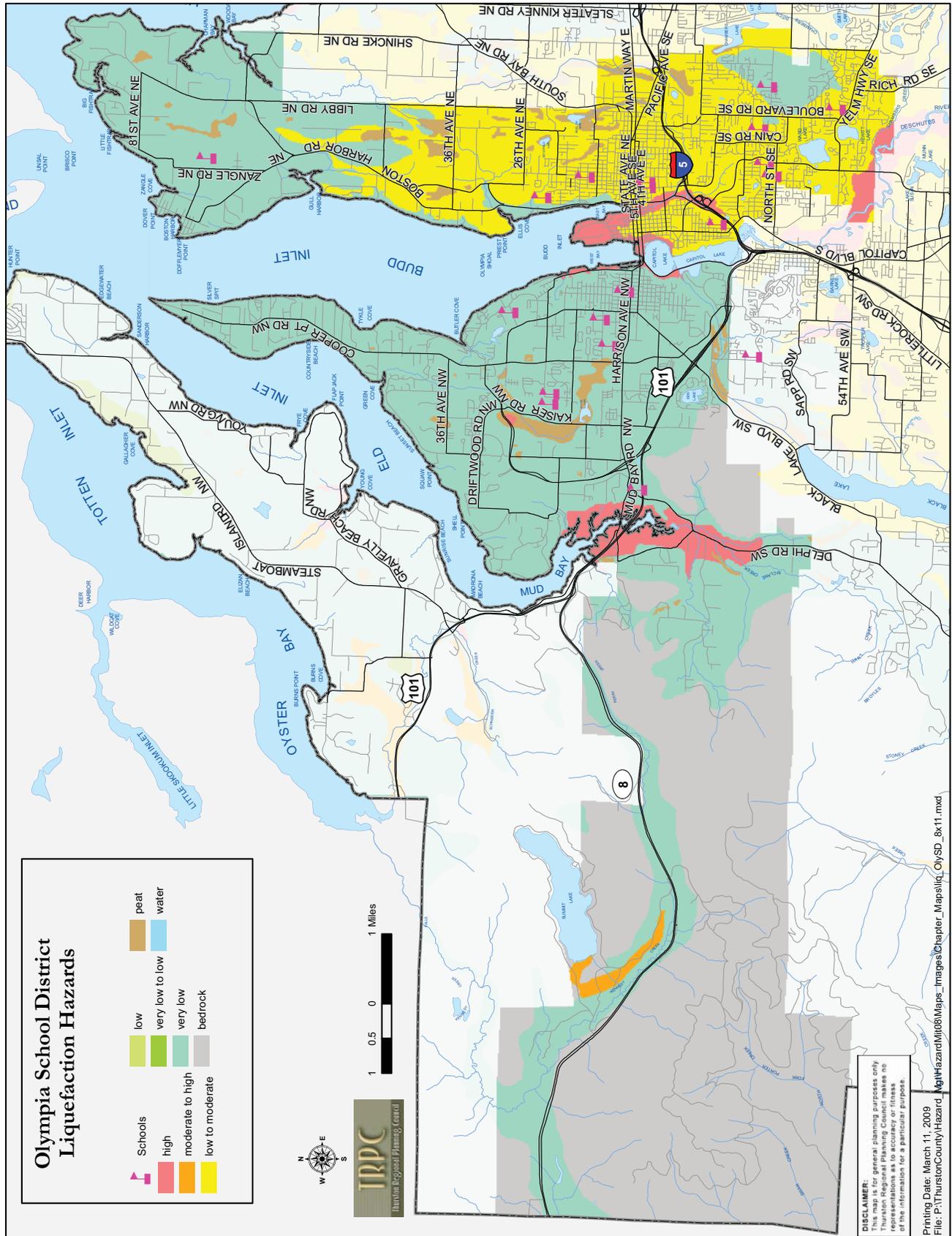
The last major eruption was of Mt. St. Helens in 1980. The impact on the District was limited to minimal ash fall causing no disruption in programs or services.

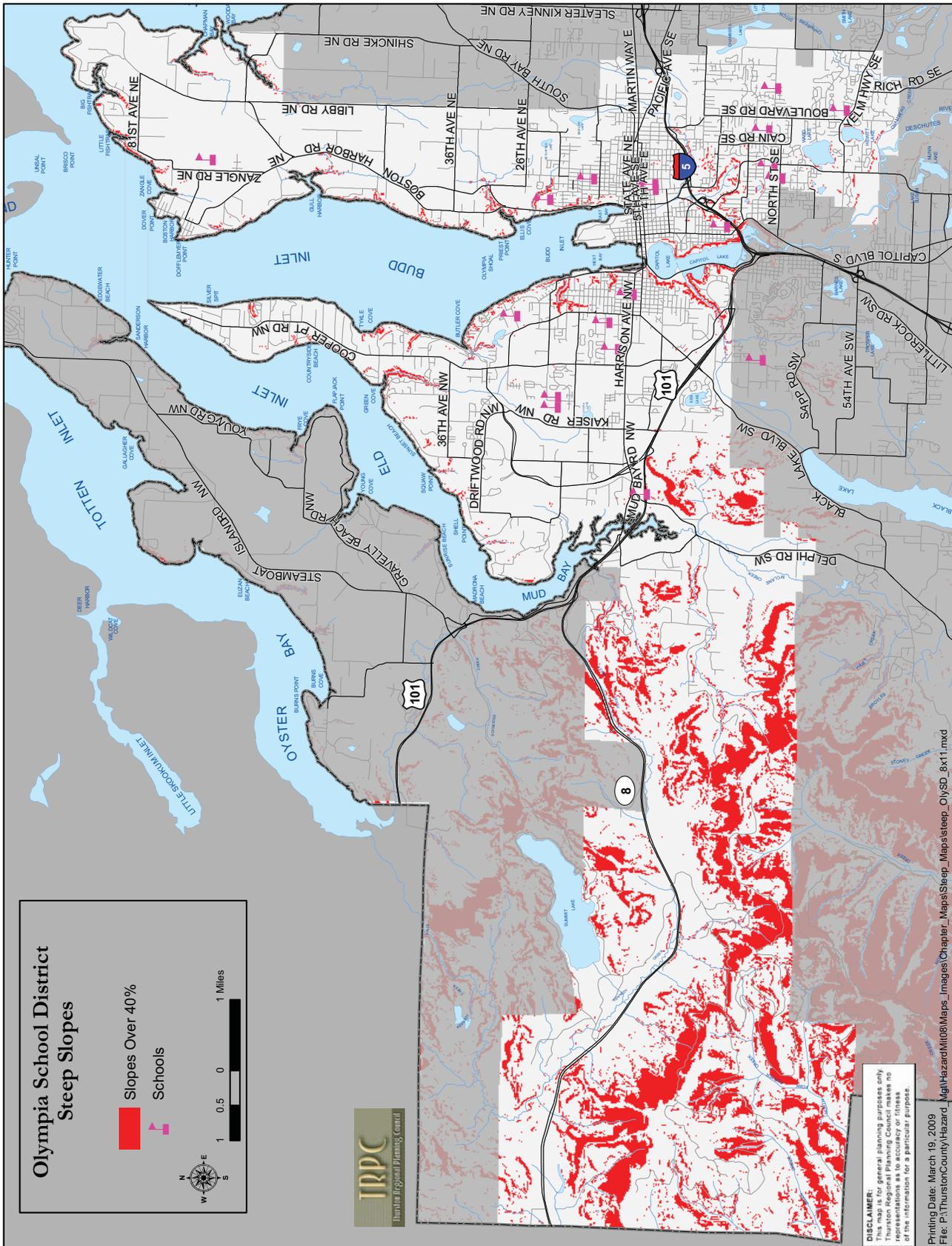
### Summary Assessment

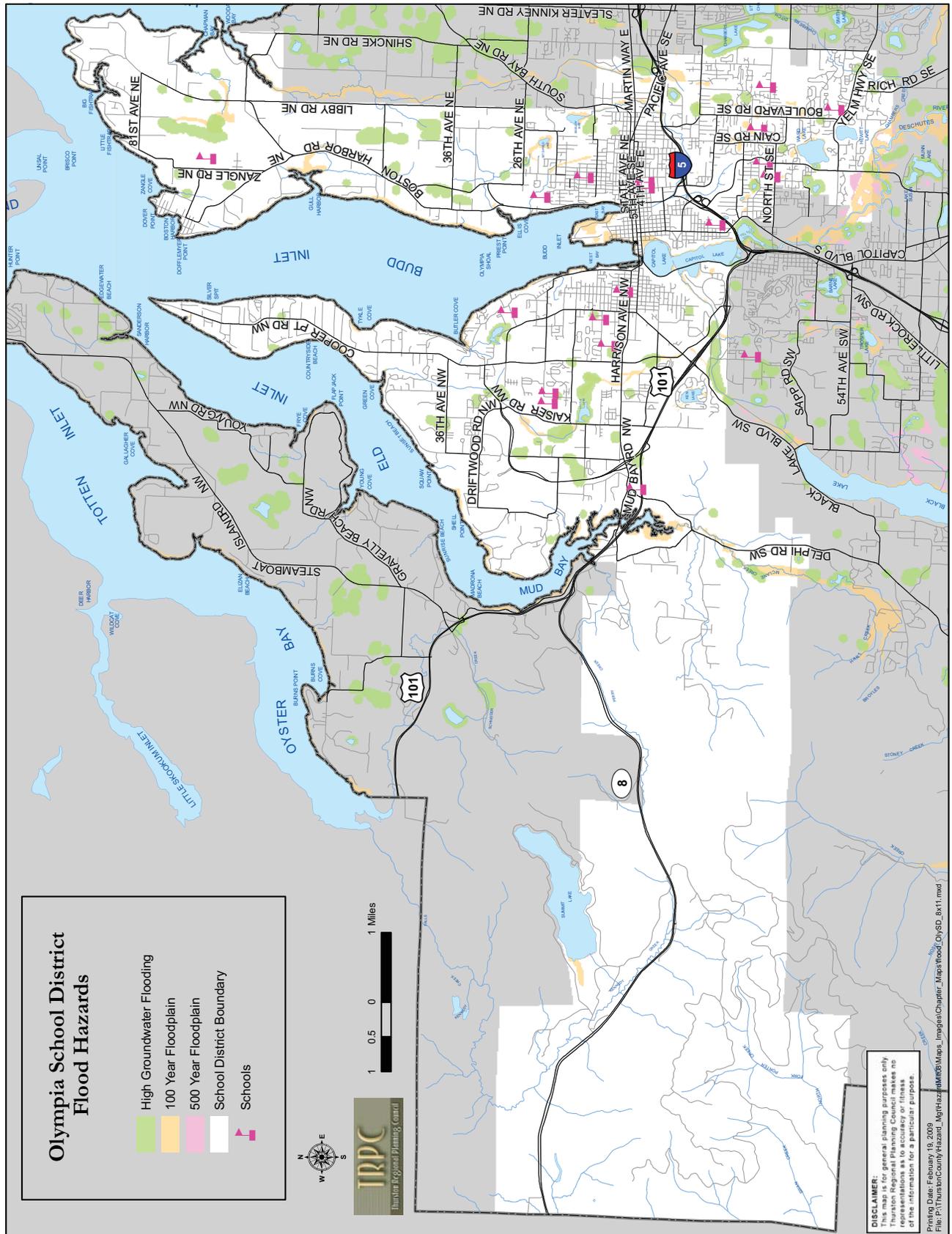
Under certain conditions ash fall would not pose immediate effects on District operations unless specific wind conditions and the severity of the event combined to move ash and/or rock fall into the area. Therefore, the District is at a “low” risk.

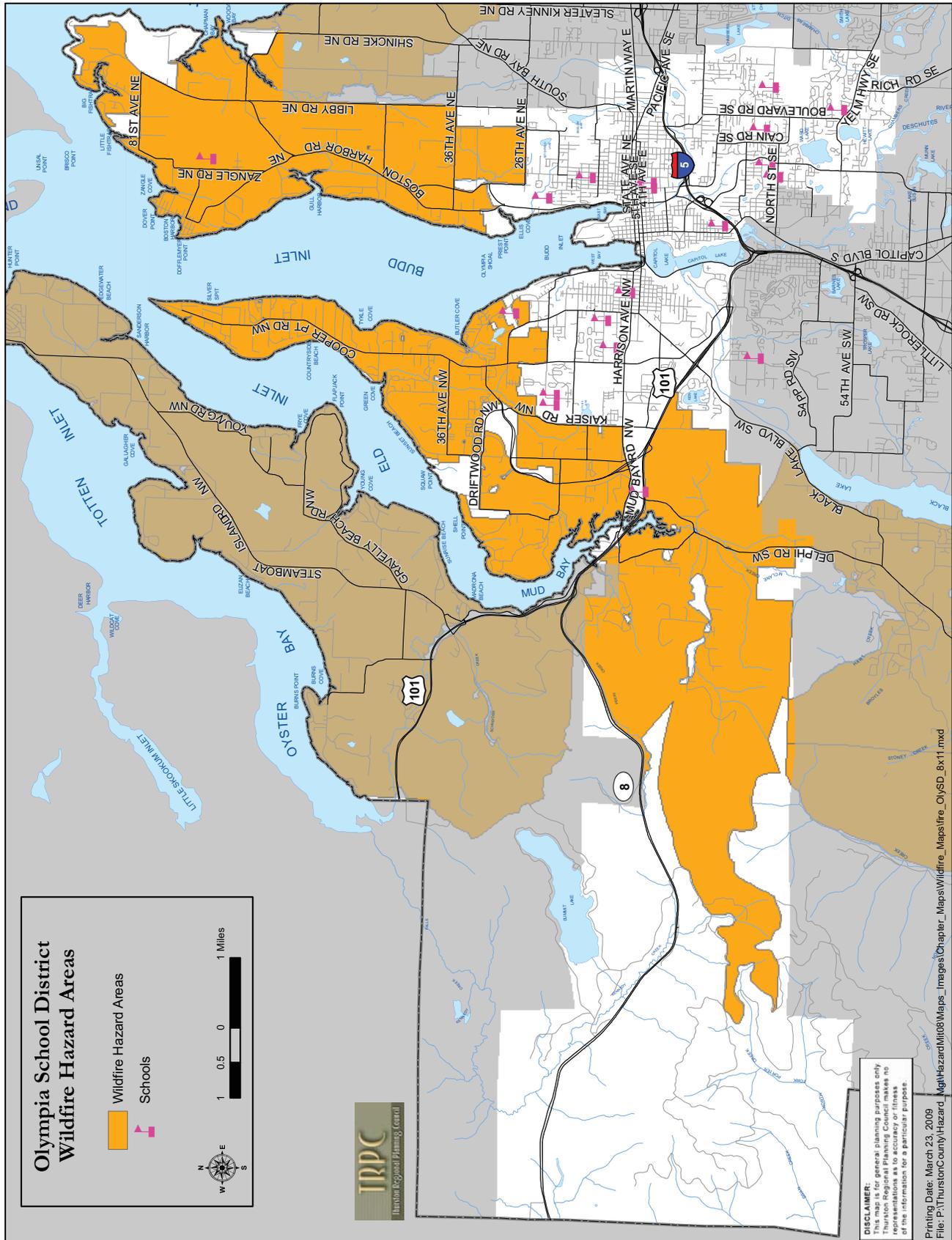
#### Summary Risk Assessment for Volcanic Events in Olympia School District

Probability of Occurrence	Vulnerability	Risk
Low	Moderate	Low









## Olympia School District's Mitigation Initiatives

### Current Adopted Mitigation Initiatives

Current Mitigation Initiatives consist of actions that have not yet begun or require additional work. They consist of new initiatives identified by the Olympia School District during the plan update process. They also consist of existing initiatives that were modified and carried over from the plan adopted in 2003.

Priority	I.D. Number	Category	Action	Status
1 of 3	OSD SH 1	Critical Facilities Retrofit	Repair and/or replacement of roof trusses at Capital High School to sustain "live loads" in accordance with City code.	New
2 of 3	OSD MH 3	Critical Facilities Retrofit	Purchase and install generators to maintain power at Capital High School, Olympia High School and Roosevelt Elementary School.	New
3 of 3	OSD MH 2	Coordinated Planning	Continue active participation in community-wide planning and mitigation efforts directly related to identified natural hazards.	Existing

Hazard Category Codes are as follows: EH=Earthquake Hazard; FH=Flood Hazard; LH=Landslide Hazard; MH=Multi Hazard; SH=Storm Hazard; WH=Wildfire Hazard; and VH=Volcanic Hazard.

### Completed or Removed Mitigation Initiatives

Initiatives that were completed in the last five years are included in this plan to provide evidence of progress made. The following initiatives are no longer relevant and no longer part of the Olympia School District's adopted mitigation strategy; they initiatives are not ranked as they are no longer relevant.

I.D. Number	Category	Action	Status
OSD-MH 1	Transportation	Collect data to create emergency bus route maps.	Completed
OSD-EH 1	Critical Facilities	Undertake a seismic study of all District facilities built between 1986 and 1996 to determine seismic risk.	Completed

Hazard Category Codes are as follows: EH=Earthquake Hazard; FH=Flood Hazard; LH=Landslide Hazard; MH=Multi Hazard; SH=Storm Hazard; WH= Wildfire Hazard; And VH=Volcanic Hazard.

**Priority: 1 of 3****Status: New****Hazard Addressed: Severe Storm Hazard**  
**Category: Critical Facilities Retrofit****OSD - SH 1: Capital High School Roof Structure Repair and Replacement****Rationale:** Areas framed with the original trusses cannot sustain code required live loads. All truss joints should be repaired or all trusses should be replaced to avoid another roof collapse during heavy snowfall.**Relates to Plan Goal(s) and Objectives: 7C****Implementer:** Capital Facilities Department**Estimated Cost:** \$6,000,000**Time Period:** Testing was done in 2009. Repairs or replacement should be completed within a three year period.**Funding Source:** State, local, federal and grant funding**Source and Date:** N/A**Adopted Plan Number:** OSD-MH 1**Reference Page:** N/A**Initiative and Implementation Status:** While the initial testing has been completed, further study and planning will take place during the 2009 – 2010 school year as part of the long-range Capital Projects Plan.

**Priority: 2 of 3****Status: New****Hazard Addressed: Multi-Hazard**  
**Category: Critical Facilities Retrofit****OSD-MH 3:** Purchase and install generators to maintain power to Capital High School, Olympia High School, and Roosevelt Elementary School.**Rationale:** Power during severe storms and earthquakes has a likelihood of being disrupted. Power is essential to provide critical areas of operation. The schools listed above have been designated transportation “drop-off” locations and emergency centers for students in the event of a disaster occurring during the school day. In addition, the City of Olympia, in cooperation with the District may designate these facilities as emergency centers during a disaster.**Relates to Plan Goal(s) and Objectives:** 4D**Implementer:** Capital Facilities Department**Estimated Cost:** \$600,000**Time Period:** Completed by 2012 through 2015**Funding Source:** State, local and grant funding**Source and Date:** N/A**Adopted Plan Number:** OSD-MH 3**Reference Page:** N/A**Initiative and Implementation Status:** Initial discussion have taken place within the District and with the City related to this initiative.

**Priority: 3 of 3**

**Status: Existing**

**Hazard Addressed: Multi Hazard**  
**Category: Coordinated Planning**

**OSD-MH 2:** Continued active planning in direct cooperation with local government, community business, volunteer organizations, and parents is essential.

**Rationale:** Through the coordinated efforts of all community stakeholders, a comprehensive plan for the mitigation of natural hazards and responding to disasters will provide a comprehensive safety net for students and staff.

**Relates to Plan Goal(s) and Objectives: 2A**

**Implementer:** District Staff

**Estimated Cost:** Staff Time

**Time Period:** Ongoing

**Funding Source:** N/A

**Source and Date:** 2003 Natural Hazard Mitigation Plan for the Thurston Region

**Adopted Plan Number:** OSD-MH 2

**Reference Page:** V-91

**Initiative and Implementation Status:** While this initiative is a continuation of effort initiated as a result of the adopted 2003 plan efforts will continue to be enhanced.

**Priority: N/A**

**Status: Completed**

**Hazard Assessed: Multi-Hazard**

**Category: Student Transportation Plan**

**OSD-MH 1: Collect data to create emergency bus route maps.**

**Rationale:** In the event that standard transportation routes are impassable, it would be necessary to ensure the safety of students through planned adjustments to the standard transportation plan.

**Relates to Plan Goal(s) and Objectives:** 9A

**Implementer:** Transportation Department

**Estimated Cost:** Staff Time

**Time Period:** Completed 2007, Updated 2009

**Funding Source:** General Fund

**Source and Date:** 2003 Natural Hazards Mitigation Plan for the Thurston Region

**Adopted Plan Number:** OSD-MH 1

**Reference Page:** V-89

**Initiative and Implementation Status:** This initiative was completed. We have fully developed and communicated a plan for addressing potential modifications in District transportation routes. The plan was implemented during the 2008-09 snow storm.

**Priority: N/A**

**Status: Completed**

**Hazard Assessed: Earthquake Hazard**  
**Category: Critical Facilities**

**OSD-EH 1: Undertake a seismic study of all District facilities built between 1986 and 1996 to determine seismic risk.**

**Rationale:** Buildings constructed between 1986 and 1996 may be subject to earthquake damage. To ensure the safety of students and staff these facilities should be studied and recommendations for potential retrofitting made.

**Relates to Plan Goal(s) and Objectives: 7C**

**Implementer:** Capital Planning Department

**Estimated Cost:** \$105,000

**Time Period:** The seismic study was completed in June 2009

**Funding Source:** state, local and grant funding sources

**Source and Date:** 2003 Natural Hazard Mitigation Plan for the Thurston Region

**Adopted Plan Number:** OSD-EH 1

**Reference Page:** V-87

**Initiative and Implementation Status:** This initiative was completed. We have fully reviewed the report and studied a process for implementation of any recommendations contained within.