

TABLE OF CONTENTS

Executive Summary	1
Introduction.....	1
Plan Purposes.....	1
Planning Partners.....	2
Public Participation.....	2
Risk Assessment.....	3
Mitigation Goals.....	3
Mitigation Initiatives.....	3
Mitigation Initiatives by Jurisdiction.....	4
Plan Adoption.....	11
Plan Monitoring and Maintenance.....	12
Implementation through Existing Programs.....	12
Continued Public Involvement.....	13
I. Introduction	I-1
Multi-Jurisdictional Planning Effort.....	I-1
Plan Criteria.....	I-2
II. Plan Purpose and Development	II-1
Plan Purpose.....	II-1
Plan Development.....	II-3
Public Participation.....	II-5
III. Thurston County Profile	III-1
Geography and Topography.....	III-1
County Weather.....	III-2
Environment and Quality of Life.....	III-3
Growth - Population and Development Trends.....	III-5
Vulnerable Populations.....	III-24
Economics.....	III-28
Agriculture.....	III-31
Transportation.....	III-31
Local Government Structure.....	III-32
Education.....	III-34
Native American Tribes with Traditional Lands within Thurston County.....	III-35
IV. Risk Assessment	IV-1
Introduction.....	IV-1
Federal Disaster Declarations.....	IV-1
Hazard Analysis Definitions.....	IV-2
Hazard Identification.....	IV-3
Earthquake Hazard Description.....	IV-7
Earthquake Hazard Historical Occurrences and Impacts.....	IV-8
Earthquake Hazard Assessing Vulnerability.....	IV-12

Flood Hazard Description	IV-21
Flood Hazard Historical Occurrences and Impacts	IV-23
Flood Hazard Assessing Vulnerability	IV-26
Landslide Hazard Description	IV-40
Landslide Hazard Historical Occurrences and Impacts	IV-41
Landslide Hazard Assessing Vulnerability	IV-42
Storm Hazard Description	IV-56
Storm Hazard Historical Occurrences and Impacts	IV-56
Storm Hazard Assessing Vulnerability	IV-57
Vulnerability – Methodology for Inventory, Forecast, and Dollar Value of Assets ...	IV-58
V. Mitigation Goals and Initiatives.....	V-1
Mitigation Goals	V-1
Mitigation Initiatives.....	V-4
Preparation of Mitigation Initiatives.....	V-4
Categories of Mitigation Initiatives	V-5
Identification Number for Mitigation Initiatives	V-6
Mitigation Initiatives by Entity.....	V-7
County Wide	V-11
Confederated Tribes of the Chehalis Reservation	V-33
Intercity Transit.....	V-41
Lacey.....	V-45
Olympia.....	V-67
Olympia School District	V-85
Rainier School District.....	V-93
Tenino	V-101
The Evergreen State College	V-107
Thurston County	V-149
Thurston County Fire District #4.....	V-209
Thurston County Fire District #9.....	V-213
Thurston County Fire District #13.....	V-223
Tumwater	V-227
Tumwater School District.....	V-265
Yelm.....	V-275
VI. Monitoring, Implementation and Maintenance	VI-1
Plan Adoption	VI-1
Plan Monitoring and Maintenance.....	VI-2
Assessment after a Significant Disaster Event	VI-3
Revisions between Plan Updates	VI-3
Future Plan Updates.....	VI-5
Implementation through Existing Programs	VI-6
Community Rating System Coordination.....	VI-6
Continued Public Involvement	VI-7
Resources	VI-8

List of Tables

III-1	Thurston County Weather.....	III-2
III-2	Small Area Population Estimates and Population Forecast, Thurston County Jurisdictions, 1990-2025.....	III-6
III-3	Dwelling Unit Estimates of Cities and UGAs, Thurston County 1994-2002.....	III-8
III-4	Residential Land Supply and Demand, Thurston County	III-11
III-5	Simple Projection of Residential Development Trends to Year 2015.....	III-12
III-6	Trends in Infill Development as Measured by Permitted Dwellings and by Acres Developed for Building Permits Presumed Built in the Five Year Interval 1996-2000	III-13
III-7	Trends in Recent Development on Oversized Urban Lots for Building Permits Presumed Built in the Five Year Interval 1996-2000.....	III-14
III-8	Average Achieved Net Density, by Jurisdiction for Building Permits Presumed Built in the Five Year Interval 1996-2000.....	III-16
III-9	Trends in Type of Dwellings Permitted, 1996-2000	III-17
III-10	Average Achieved Density by Generalized Density Category, Residential and Mixed Use Zoning	III-18
III-11	2000 Land Supply in Thurston County – Industrial and Commercial Zoning	III-20
III-12	2000 Land Supply Compared to 2025 Land Demand, Thurston County	III-21
III-13	Simple Projection of Commercial Development Trends to Year 2015	III-22
III-14	Simple Projection of Industrial Development Trends to Year 2015	III-23
III-15	Population Age 65 Years and Older, 1980-2020 Washington State, Thurston, and Adjacent Counties	III-25
III-16	Census 2000, Thurston County Population, Gender, and Age Characteristics Distribution by Jurisdiction, 2000	III-26
III-17	Individuals Below Poverty Level, 1999	III-28
III-18	Household Income, 1999	III-29
III-19	Total Full-Time and Part-Time Employment, Thurston County	III-30
IV-1	Earthquake Liquefaction Hazard Area, Population, 2000 and 2025	IV-15
IV-2a	Earthquake Liquefaction Hazard Area, Vulnerability Assessment, Lacey For Years 2000 and 2025.....	IV-16
IV-2b	Earthquake Liquefaction Hazard Area, Vulnerability Assessment, Olympia For Years 2000 and 2025.....	IV-17
IV-2c	Earthquake Liquefaction Hazard Area, Vulnerability Assessment, Tumwater For Years 2000 and 2025.....	IV-18
IV-2d	Earthquake Liquefaction Hazard Area, Vulnerability Assessment, Unincorporated Thurston County For Years 2000 and 2025.....	IV-19
IV-3	Earthquake Liquefaction Hazard Area, Critical Facilities.....	IV-20
IV-4	Flood Hazard Area, Population, 2000 and 2025.....	IV-29
IV-5a	Flood Hazard Area, Vulnerability Assessment, Bucoda For Years 2000 and 2025.....	IV-30
IV-5b	Flood Hazard Area, Vulnerability Assessment, Chehalis Reservation	IV-31
IV-5c	Flood Hazard Area, Vulnerability Assessment, Lacey For Years 2000 and 2025.....	IV-32

IV-5d	Flood Hazard Area, Vulnerability Assessment, Olympia For Years 2000 and 2025	IV-33
IV-5e	Flood Hazard Area, Vulnerability Assessment, Rainier For Years 2000 and 2025	IV-34
IV-5f	Flood Hazard Area, Vulnerability Assessment, Tenino For Years 2000 and 2025	IV-35
IV-5g	Flood Hazard Area, Vulnerability Assessment, Tumwater For Years 2000 and 2025	IV-36
IV-5h	Flood Hazard Area, Vulnerability Assessment, Unincorporated Thurston County For Years 2000 and 2025	IV-37
IV-5i	Flood Hazard Area, Vulnerability Assessment, Yelm For Years 2000 and 2025	IV-38
IV-6	Flood Hazard Area, Critical Facilities	IV-39
IV-7	Landslide Hazard Area, Population, 2000 and 2025	IV-45
IV-8a	Landslide Hazard Area, Vulnerability Assessment, Bucoda For Years 2000 and 2025	IV-46
IV-8b	Landslide Hazard Area, Vulnerability Assessment, Chehalis Reservation	IV-47
IV-8c	Landslide Hazard Area, Vulnerability Assessment, Lacey For Years 2000 and 2025	IV-48
IV-8d	Landslide Hazard Area, Vulnerability Assessment, Olympia For Years 2000 and 2025	IV-49
IV-8e	Landslide Hazard Area, Vulnerability Assessment, Rainier For Years 2000 and 2025	IV-50
IV-8f	Landslide Hazard Area, Vulnerability Assessment, Tenino For Years 2000 and 2025	IV-51
IV-8g	Landslide Hazard Area, Vulnerability Assessment, Tumwater For Years 2000 and 2025	IV-52
IV-8h	Landslide Hazard Area, Vulnerability Assessment, Unincorporated Thurston County For Years 2000 and 2025	IV-53
IV-8i	Landslide Hazard Area, Vulnerability Assessment, Yelm For Years 2000 and 2025	IV-54
IV-9	Landslide Hazard Area, Critical Facilities.....	IV-55

List of Maps

Map 1: Vicinity Map with Shaded Relief.....	III-37
Map 2: Intercity Transit	III-38
Map 3: Fire Districts and Departments.....	III-39
Map 4: School Districts	III-40
Map 5: North Urban Area Liquefaction Susceptibility	IV-14
Map 6: Flood Hazards.....	IV-28
Map 7: Slope Map.....	IV-44
Addendum 7 Map: Volcanic Lahar: Mount Rainier.....	7-4
Addendum 8 Map: Earthquake Liquefaction: Liquefaction Susceptibility.....	8-2

List of Appendices

A.	Multi-Jurisdictional Plan Adoption	A-1
B.	Planning Partners	B-1
	Steering Committee Members	B-1
	Planning Committee Members	B-1
C.	Public Participation Details	C-1
D.	Abbreviated Data Entry Form for Proposed Mitigation Initiatives	D-1
E.	Mitigation Initiatives Characterization Form	E-1
F.	Initiatives Which Were Not Carried Forward, Completed, or are Being Terminated	F-1
	Initiatives Which Were Not Carried Forward.....	F-1
	Initiatives Completed	F-3
	Initiatives Which Were Terminated.....	F-20
G.	Mitigation Initiatives Template	G-1

List of Addenda

Addendum 1: Town of Bucoda	1-1
Addendum 2: City of Rainier	2-1
Addendum 3: Providence St. Peter Hospital	3-1
Addendum 4: North Thurston Public Schools	4-1
Addendum 5: Yelm Community Schools	5-1
Addendum 6: Wildfire/Forest Fire	6-1
Addendum 7: Volcanic Lahar	7-1
Addendum 8: Earthquake Liquefaction	8-1

This page left blank intentionally.