



Washington State Enhanced Hazard Mitigation Plan

Plan Maintenance Process

The Washington State Hazard Mitigation Plan (SHMP) is a living document and will be reviewed, updated and adopted by state officials and submitted to the Federal Emergency Management Agency (FEMA) for approval every three years. The plan will be revised more frequently if conditions under which the plan was developed materially change – through new or revised state policy, a major disaster, or availability of funding, for example – to reflect the new reality of hazard mitigation in Washington State.

This chapter describes the framework identified in the 2004 plan through which it will be reviewed and revised, as well as revisions being made to the process for the 2007 plan. Revisions for the 2007 plan will be noted by “2007-2010.”

I. Monitoring, Evaluating, and Updating the Plan

Requirement 201.4.c.5.i: *To be effective the Plan Maintenance Process must include an established method and schedule for monitoring, evaluating and updating the plan.*

The Mitigation and Recovery Section of the State Emergency Management Division (EMD) is responsible for developing and maintaining the SHMP. The section’s Hazard Mitigation Strategist is the individual responsible for overseeing this work.

Participants in the plan maintenance process include the following:

- Members of the State Hazard Mitigation Advisory Team (SHMAT) (see Planning Process, Tab 2, for information on the makeup and involvement of this team in the state plan).
- Representatives of the agencies of Washington State Government that participated in development of the state plan (see Planning Process, Tab 2, for information on the agencies that are part of the state plan).
- Representatives of local jurisdictions whose hazard mitigation plans were used in the development of the state plan.

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The state plan review will take place in three ways:

- Annually, for progress made on mitigation actions and projects identified in the Mitigation Strategy of the state plan and in the agency annexes.
- After each major disaster in Washington State declared by the President, to look for areas where the state plan should be refocused due to the impact of the disaster.
- Every three years, before submission to FEMA for approval.

Annual Progress Review

The purpose of the annual review is to gauge the progress as well as any changed conditions that may affect hazard mitigation planning and implementation in Washington State. The state plan will be revised annually only as necessary to reflect significant policy changes that took place during the preceding year.

Based on FEMA approving the SHMP in the summer of 2007, the annual review of the plan will take place in the summer (June-August) of each year; if approval takes place after this date, the initial annual review will occur approximately 12 months following approval.

Review on progress implementing the actions and projects identified in the state plan's Mitigation Strategy and in state agency annexes will occur every six months. State agencies that are part of the state plan will submit brief progress reports on a semi-annual basis, tentatively March 31 and September 30, but schedule to be determined by the date of the state plan approval. Information from these reports will form the basis for a summary of progress submitted by EMD's Mitigation and Recovery Section for the annual report of the State Emergency Management Council.

Once a year, SHMAT and the state agencies whose annexes are part of the plan will:

- Review and revise the state plan's Risk Assessment as necessary to ensure its currency. This will include a review and update of hazard profiles and data on vulnerable state facilities as new information becomes available.
- Examine progress on mitigation actions and projects in the state plan's Mitigation Strategy and in agency annexes.
- Identify implementation problems (technical, political, legal, and financial).
- Recommend how to increase involvement by state agencies and local jurisdictions in hazard mitigation.

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- Recommend revisions to the Risk Assessment and to the Mitigation Strategy's goals and objectives, projects and timelines only to reflect major changes in policies, priorities, programs, and funding.

After FEMA approves the state plan, EMD's Mitigation and Recovery Section will incorporate annexes from additional state agencies joining the state plan on a quarterly basis.

Discussion of effectiveness: State agencies submitted annual progress reports twice during the 2004-2007 timeframe. Information from the last report filed was used in the two tables that appear at the end of the narrative of this chapter. The first table *Report Card of 2004 Mitigation Strategy Actions* shows progress made on action items identified in the Mitigation Strategy of the 2004 SHMP. The second table *State Agency Report Card of 2004 Actions* shows progress on mitigation actions identified by state agencies in annexes that accompanied the 2004 SHMP. SHMAT was not convened for a progress meeting until the spring of 2006 due to EMD Mitigation and Recovery Section staff involvement in a multi-year, multi-agency regional mitigation project (development of a scenario for a major earthquake on the Seattle Fault with recommendations for action co-sponsored by EMD and the Earthquake Engineering Research Institute of Oakland, CA). Another such project is not envisioned during the 2007-2010 period.

2007 – 2010 Plan: The concept for an annual review by SHMAT is sound, and the framework described above will continue for the next three years with the following revisions:

- Separate agency annexes to the state plan, each with separate narratives and mitigation goals, objectives and action items, will not be required. Beginning with this plan, one set of mitigation goals will cover all participating agencies, and all agency mitigation action items will be included into one table in the Mitigation Strategy section of this plan. State agency participation will continue to be required in the plan review and revision process.
- Annual progress reports by participating state agencies will be required rather than semi-annual reports.

Post-Disaster Review

After each Presidentially-declared major disaster in Washington State, EMD's Mitigation and Recovery Section will document the effects of the disaster, and convene SHMAT to examine the disaster and, as necessary, develop recommendations to improve resistance to the hazard. This process allows for a review of the state plan vis-à-vis the hazard event as well as providing an opportunity to determine whether the Mitigation Strategy requires revision.

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In documenting the disaster, EMD's Mitigation and Recovery Section may consult representatives from FEMA, appropriate state and local agencies, and private sector partners impacted by the disaster. About six months after the event, the Mitigation Section will prepare and disseminate a report outlining the disaster and its impact, and proposing new or revised recommendations for the state plan's Mitigation Strategy.

Such a post-disaster review may replace an annual review in any year a major disaster event occurs, depending upon severity of the disaster event and on the timing of the survey vis-à-vis the state plan's annual progress review.

Discussion of Effectiveness: The state received three disaster declarations after approval of the 2004 plan – the January 2006 Severe Storm (DR-1641), the November 2006 Flood (DR-1671), and the December Windstorm (DR-1682). DR-1641 was not a major event, impacting 11 counties, primarily along the Pacific Coast and Puget Sound, and did not warrant a review. DR-1671 and DR-1682 occurred in rapid succession in late 2006, and were considered significant events. Before they were declared as disasters, the state's long-time State Hazard Mitigation Program Manager left state employment. This left EMD's Hazard Mitigation Strategist, responsible for documenting the impacts of the disasters, to begin implementing Hazard Mitigation Grant Programs (HMGP), managing the state's application process for Pre-Disaster Mitigation (PDM) and Flood Mitigation Assistance (FMA) programs, as well as completing revision of the 2004 SHMP. The Hazard Mitigation Strategist position remained unfilled until September 2007. As a result, SHMAT was not convened to examine the impacts of either disaster. EMD's Mitigation and Recovery Section documented impacts of both disasters, and the State Military Department completed Governor-requested review of state and local response for DR-1682. Additionally, the Mitigation staff at the Joint Field Office for DR-1671 produced two loss-avoidance studies. The first showed that elevation of 28 homes along the Snoqualmie River saved an estimated \$300,000 above the cost of the project, and a second of elevated mobile homes along the Puyallup River showed that losses prevented exceeded the cost of the project.

2007-2010 Plan: The state continues to believe that the framework described above for a post-disaster review of the SHMP is sound and should be continued for the next three years. SHMAT should complete a review of the state plan vis-à-vis DR-1671 and DR-1682 in early 2008. Now that the Mitigation and Recovery Section is fully staffed, review of the SHMP vis-à-vis significant disaster events will be completed in a timely manner in future.

Three-Year Plan Review and Revision

Every three years, EMD's Hazard Mitigation Section, will facilitate review and revision of the Washington SHMP prior to its submission to FEMA for approval. The review will begin approximately 12 months before FEMA approval is required. Review and revision will involve SHMAT and state agencies and local jurisdictions whose plans influenced development of the state plan. Additionally, the SHMP will be coordinated with other state plans, as appropriate.

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It is the state's intent that the 2010 edition of the plan should address both natural and manmade or technological hazards. The state plan's Risk Assessment will incorporate profiles for each of the identified manmade or technological hazards that affect Washington State.

To the extent possible, local multi-jurisdiction hazard mitigation plans completed as of the start of the three-year review and revision cycle (c. spring 2006) will provide the basis for revising the state plan, especially those sections related to hazard identification and risk assessment.

In the three-year review, SHMAT and state and local planning partners will:

1. Examine and revise the Risk Assessment to ensure it remains current. Hazard profiles will incorporate new information and maps of at-risk areas, as available, as well as information from local hazard mitigation plans. Panels of hazard experts will validate the profiles prior to their official revision. State agency risk managers and facility managers will review and update information on state facilities vulnerable to hazards.
2. Examine progress on and determine the effectiveness of mitigation actions and projects in the Mitigation Strategy and in agency annexes, and determine how the performance of those projects should influence the state plan's Mitigation Strategy.
3. Examine the effectiveness of state-funded, local mitigation projects, and determine how the performance of those projects should influence the Mitigation Strategy.
4. Examine implementation of the state plan, identify problems (technical, political, legal, and financial) and develop recommendations to overcome them.
5. Recommend ways to increase participation by state agencies and local jurisdictions in hazard mitigation.
6. Recommend necessary revisions to the Risk Assessment and to the Mitigation Strategy's goals and action plan to reflect changes in policies, priorities, programs, and funding; as appropriate, recommendations will include the findings of any hazard mitigation reports following disaster events.
7. Following review and revision of the state plan, participants will analyze the plan maintenance process, and make changes to improve the process and method used to review the plan and its agency annexes.

Additionally, state agencies will review and revise their annexes to the state plan using the processes they have identified and described in their annexes.

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Discussion of Effectiveness: In general, the framework for the three-year plan review and revision described above was followed, but not entirely:

- The three-year review of the plan began in March 2006, with involvement from SHMAT and participating state agencies (for details, see Planning Process section, Tab 2).
- Natural hazard profiles in the 2004 state plan were reviewed and updated (for details, see Risk Assessment Introduction section, Tab 3). However, the initiative to develop profiles for man-made and technological hazards was not completed due to other priorities within the Planning and Mitigation and Recovery sections of EMD, where the bulk of the work would be accomplished. Therefore, profiles for man-made and technological hazards are not included in this plan. The EMD Planning Section plans to complete these hazard profiles in 2008 and use them for revising the state's Comprehensive Emergency Management Plan in 2009. Whether man-made and technological hazards will be included in the 2010 update of the SHMP will depend, in part, upon timeliness of their completion as well as the result of consultation with communities that will be reviewing and revising their local hazard mitigation plans during this period.
- Local hazard mitigation plans were reviewed in late 2005 and early 2006 for hazard information and potential losses from risk assessments that potentially could be incorporated into this update of the state plan. How such information is incorporated into this plan is discussed in the Risk Assessment Introduction section, Tab 3.

In addition, for the items identified in numbers 1 through 7 in the *Three-Year Plan Review and Revision* above:

- Item 1, Hazard Profiles: Available new information and maps were included in hazard profiles, and hazard experts reviewed the profiles (see Risk Assessment Introduction, Tab 3, for more information).
- Item 2, Implementing Mitigation Actions: Participating state agencies and SHMAT reviewed the mitigation actions identified both in the Mitigation Strategy and in agency annexes. Table 1 and Table 2 later in the section document the status and progress of mitigation action items identified in the 2004 plan by state agencies participating in the 2007 plan.
- Item 3, Effectiveness of state-funded, Local Mitigation Projects: This initiative was not completed.
- Item 4, Identification of Implementation Issues: This initiative was not completed due to circumstances described above related to priority project and staffing limitations.
- Item 5, Increase State, Local Participation in Hazard Mitigation:

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- The EMD Mitigation and Recovery Section identified shortfalls in follow-up participation by state agencies following publication of the 2004 state plan, and developed strategies to increase participation following publication of this plan.
- The EMD State Hazard Mitigation Programs Manager, who oversees implementation of federally funded mitigation grant programs, surveyed local jurisdictions that expressed intent but did not apply for DR-1671 HMGP funding. Purpose of the survey was to determine what factors kept the jurisdictions from completing an application as well as what types of assistance the jurisdictions believe they need to become successful applicants. A similar survey will be conducted following closure of the DR-1682 HMGP application period on July 31, 2007. Survey results will be used to develop strategies and actions designed to increase local and state agency participation in mitigation funding programs available following disasters (HMGP) as well as on an annual basis (PDM, FMA, etc.).
 - Item 6, Revisions to Risk Assessment, Mitigation Strategy: SHMAT reviewed and reaffirmed the mitigation goals and objectives of the state hazard mitigation program as stated in the Mitigation Strategy. The team also reviewed and reaffirmed the natural hazards identified as priority hazards for mitigation initiatives as stated in the Risk Assessment Introduction.
 - Item 7, Plan Maintenance: The EMD Mitigation and Recovery Section rather than SHMAT conducted the review of the process to maintain the SHMP. Revisions to the process are described throughout this section.
- State agency review of annexes: Agencies reviewed progress made on action items identified in their annexes twice during the 2004-2007 timeframe.

2007-2010 Plan: The following framework will be the process used for the Three-Year Plan Review and Revision prior to the state plan's submission to FEMA in 2010:

- Review will continue to involve SHMAT and participating state agencies, as well as local jurisdictions as appropriate.
- Including man-made and technological hazards in the 2010 plan will depend, in part, upon timeliness of completed hazard profiles, as well as consultation with communities that will be reviewing and revising their local hazard mitigation plans during the 2007-2010 timeframe.
- Hazard and risk-assessment information in local plans that are revised and re-approved by mid 2009 will be reviewed and considered in the 2010 state plan update process.

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- Item 1, Hazard Profiles: New information and maps, as available, will be included in natural hazard profiles. Additionally, hazard experts will review the profiles for completeness and accuracy.
- Item 2, Implementing Mitigation Actions: Participating state agencies and SHMAT will review the status of and progress on mitigation actions identified in the Mitigation Strategy of this plan.
- Item 3, Effectiveness of state-funded, Local Mitigation Projects: This initiative will be addressed in the section of the state plan entitled “Enhanced Plan – Comprehensive State Hazard Mitigation Program,” Tab 3, per the requirements of 44 CFR 201.5.b.2.iv, and dropped from this section of the plan.
- Item 4, Identification of Implementation Issues: The EMD Mitigation and Recovery Section in conjunction with SHMAT will examine issues related to implementing mitigation actions identified in this plan and make recommendations for their resolution in the 2010 plan.
- Item 5, Increase State, Local Participation in Hazard Mitigation:
 - The EMD Mitigation and Recovery Section will increase its outreach to state agencies in a variety of ways, including but not limited to State Agency Liaison meetings; one-on-one meetings with agency staff; through critical infrastructure protection, homeland security, and other related planning initiatives; and through the office of The Adjutant General, State Military Department, to the Governor’s Cabinet, as necessary. Section staff also will increase outreach to local jurisdictions through presentations at conferences, one-on-one technical assistance visits, scheduling of mitigation-related training and workshops (mitigation planning, benefit-cost analysis, application preparation, etc.); and increased communication through phone, email and Internet, among other means.
 - An inventory of state-owned and leased facilities maintained annually by the State Office of Financial Management will be used as the facilities database for the 2010 SHMP. Use of this database will be expanded in the coming years to meet the needs of a variety of state planning initiatives including hazard mitigation; this will streamline the collection of information on state facilities, reduce the burden on state agencies participating in the state hazard mitigation planning initiative, and should encourage increased participation.
- Item 6, Revisions to Risk Assessment, Mitigation Strategy: SHMAT, hazard experts and others will continue to review the individual pieces of and the complete Risk Assessment and Mitigation Strategy for the 2010 plan.

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- Item 7, Plan Maintenance: The EMD Mitigation and Recovery Section will continue to monitor the process of maintaining the state plan, involving SHMAT and others as needed and appropriate.
- State agency review of annexes: Agency annexes were eliminated in this plan; however, state agencies will continue to review and report on mitigation action items belonging to them on an annual basis.

II. Monitoring Progress of Mitigation Activities

Requirement 201.4.c.5.ii: *The Plan Maintenance Process must include :*

- ***A system for monitoring implementation of mitigation measures and project closeouts.***
- ***A system for reviewing progress on achieving goals as well as activities and projects in the Mitigation Strategy.***

The process used to monitor the implementation of mitigation measures and project closeouts will be similar to the one used to monitor, evaluate and update the plan. EMD's Mitigation and Recovery Section is responsible for monitoring implementation of projects identified in the state plan and agency annexes. The section's Hazard Mitigation Strategist will work in conjunction with the section's State Hazard Mitigation Programs Manager to oversee this work.

Review on progress implementing the actions and projects identified in the state plan's Mitigation Strategy and in state agency annexes will occur once a year. State agencies that are part of the state plan will submit brief progress reports on an annual basis, in the summer months, with the exact schedule to be determined by the date of the state plan approval. The EMD Mitigation and Recovery Section will track progress of actions and projects identified in the state plan and agency annexes.

Once a year, the SHMAT and the state agencies whose annexes are part of the plan will:

- Examine progress on mitigation actions and projects in the state plan's Mitigation Strategy and in agency annexes, using information from progress reports and the project database.
- Identify implementation problems (technical, political, legal, and financial) and, as appropriate, develop recommendations and strategies to overcome them.

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- Develop a summary of progress for the annual report of the Governor's Emergency Management Council submitted by EMD's Mitigation Section.

State agencies with projects identified in their annexes that end up funded by the HMGP, the PDM, the FMA, and other federally funded mitigation grant programs, will be required to make quarterly reports of progress to EMD's Mitigation Section. Additionally, agencies and local governments receiving hazard mitigation grants are required to submit a closeout report at the conclusion of any grant-funded project. Information from these quarterly reports also will be tracked and reviewed on an annual basis, using the process described above. More information on the process used to monitor progress of mitigation actions funded by hazard mitigation programs listed above can be found in the Hazard Mitigation Administrative Plan, Tab 2.

Discussion of Effectiveness: As discussed in the pages above, state agencies provided two annual reports and SHMAT was convened in March 2006 to begin examining on progress with implementation of mitigation actions identified in the 2004 state plan. The State Hazard Mitigation Programs Manager made quarterly reports to FEMA on progress implementing mitigation grant-funded projects and conducted project monitoring and closeout activities as described in the state's Hazard Mitigation Programs Administrative Plan, Tab 2. EMD Mitigation and Recovery Section staff prepared an annual report of mitigation activities that was included in the annual report of the Governor's Emergency Management Council.

2007-2010 Plan: The state will continue to follow the framework of monitoring progress of and closing out mitigation projects as described above, with the following exception – state agencies will be required to report annually on implementation progress rather than twice a year as identified in the 2004 plan.

Report Card of Mitigation Actions Identified in 2004 State Plan

Two tables on the following pages demonstrate progress implementing mitigation actions described in the 2004 SHMP.

Table 1 – Report Card of 2004 Mitigation Strategy Actions, pages 11-39, describes progress made on the mitigation actions identified in the Mitigation Strategy of the 2004 plan.

Table 2 – State Agency Report Card of 2004 Mitigation Actions, pages 40-49, describes progress made on the mitigation actions identified in agency annexes in the 2004 plan of those agencies that participated in the 2007 plan. For the purposes of this report, agency actions were organized by state goals and objectives into a table similar to the one in the Mitigation Strategy, Tab 2.

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|--|--|--|--|---|---------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 1.1 – Improve systems that provide warning and emergency communications. | 1.1.1 – Develop a plan and seek funding to expand the pilot All-Hazard Alert Broadcasting (AHAB) radio local warning system statewide. | State Emergency Management Division | Ongoing; 27 systems operational primarily in tsunami-vulnerable communities, 24 additional installations planned by end June 2007 | Ongoing, continuing to seek funds from state, federal sources | \$2.4 million to date | State general fund, NOAA National Tsunami Hazard Mitigation Program |
| | 1.1.2 – Help National Weather Service expand NOAA Weather Radio coverage, especially in high terrain areas. | State Emergency Management Division, with the National Weather Service | Ongoing. Blaine station operational in 2006, Upper Cowlitz station operational in fall 2007, planning ongoing for Spanish language NWS station in Yakima | Ongoing, continuing to seek funding for system expansion | \$50,000 for two stations | NOAA National Weather Service, local funds |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|------------------------|--|--|---|---|-------------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.1.3 – Investigate the feasibility of developing a real-time landslide warning system along key transportation routes. | Department of Natural Resources – Division of Geology and Earth Resources, Department of Transportation, and State Emergency Management Division with US Geological Survey | Still in scoping phase | Ongoing; continuing to seek funds from state, federal sources | Dependent on scope of project | State general fund, US Geological Survey |
| | 1.1.4 – Develop a plan to install satellite-based, real-time tsunami and earthquake information systems in county and city emergency operation centers. | State Emergency Management Division with US Geological Survey and National Oceanic and Atmospheric Administration | 18 jurisdictions, tribes provided CISN software | Ongoing, as funding is available to support CISN software and training sessions | \$25,000 | State general fund, NOAA National Tsunami Hazard Mitigation Program |
| | 1.1.5 – Develop maps with information on land ownership, response boundaries, roads, and other features to allow fire fighting agencies to adequately prepare for response to wildland fires in interface areas. | Department of Natural Resources – Resource Protection Division | Maps provided through our DNR regional offices and via the Internet | Ongoing | Not available | DNR Resource Protection budget |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|--|---|--|---|--|--|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 1.2 – Develop or amend laws so they effectively address hazard mitigation. | 1.2.1 – Develop and promote comprehensive and cost-effective recommendations for local land-use plans and ordinances that reduce the risk of natural hazards, including wildland fire in interface areas. | Department of Natural Resources – Resource Protection Division, Department of Community Trade and Economic Development – Growth Management Division, Department of Ecology – Floodplain Management | Ongoing. DOE - More than over 40 communities have adopted higher floodplain standards. DNR - Provides model hazard mitigation language for land-use plans, and model ordinance for large-lot subdivisions in high-risk counties. Staff supports updating of wildfire hazard mitigation plans by high-risk counties. Provides Firewise workshops to local government on wildfire mitigation strategies, and recognition program for local planning and project implementation. | Ongoing. DOE conducting outreach to 35-50 communities per year on floodplain management | DOE - \$120,000/year per year DNR - \$150,000 | DOE – State Flood Control Assistance Account and FEMA, CAP-SSSE DNR – State general funds, National Fire Plan grants |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|------------------------|---|--|--|--|--|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.2.2 – Expand the number of local governments that include hazard reduction planning into their land-use plans and development regulations. | Department of Community Trade and Economic Development – Growth Management Division, with State Emergency Management Division Department of Ecology – Floodplain Management | Ongoing. More than over 40 communities have adopted higher floodplain standards | Ongoing. DOE conducting outreach to 35-50 communities per year plus communities that initiate or revise Comprehensive Flood Hazard Management Plans (CFHMPs) | DOE - \$120,000/year plus up to \$500,000 to \$1 million per biennium in local grants for CFHMPs | DOE – State Flood Control Assistance Account (all CFHMP grants) and FEMA, CAP-SSSE |
| | 1.2.3 – Develop and promote recommendations for local ordinances to prevent fires in interface areas resulting from fireworks, debris burning, campfires, and other human-caused sources. | Department of Natural Resources – Resource Protection Division, with Department of Community Trade and Economic Development – Local Government Division and Washington State Patrol – Office of the State Fire Marshal | DNR provides model hazard language for ordinances, cooperative agreements for burning regulations, fire prevention teams supporting local July 4 fireworks | Ongoing | DNR - \$100,000/year | DNR fire prevention budget |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|------------------------|--|---|---|---------------------------|----------------|----------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.2.4 – Identify and resolve conflicts in laws and regulations that currently prevent effective fuel management in wildland fire interface areas. | Department of Natural Resources – Resource Protection Division, with Department of Community Trade and Economic Development – Local Government Division | DNR works with DOE to resolve conflicts and provide alternatives to burning | Ongoing | Minimal | Not Available |
| | 1.2.5 – Request the Governor’s Office prepare an executive order requiring state agencies to include hazard mitigation actions into owned and leased structures upon first occupancy, into renovation of existing owned structures, and into the design or redesign of interior work spaces. | State Emergency Management Division, with Department of General Administration, Governor’s Emergency Management Council, and Office of Financial Management – Executive Policy Office | Emergency Management Division has drafted an executive order on non-structural mitigation, but has not yet worked this issue. | Ongoing | \$0 | Not Applicable |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|---|--|--|---|---|--|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 1.3 – Reduce the impacts of hazards on vulnerable populations | 1.3.1 – Help K-12 schools and state colleges and universities develop vulnerability assessments, mitigation plans and mitigation projects to improve safety in their most vulnerable buildings. | State Emergency Management Division, with Office of Superintendent of Public Instruction, public schools and higher education institutions | Ongoing. Three universities and a half-dozen community colleges involved in mitigation planning initiatives. Western Wash. University: Emergency Planning template for persons with disabilities posted on the WWU website in 2005-06. | Ongoing | Unknown WWU: Building mitigation ongoing, with about \$7 million committed during 2003-05 and 2005-07 biennial budgets. | State general and capital funds, and federal hazard mitigation grants |
| | 1.3.2 – Develop a pilot project that provides funding or incentives for non-structural seismic mitigation in low-income households and for housing that is vulnerable to the effects of natural hazards. | Department of Community Trade and Economic Development – Housing and Local Government Divisions, with State Emergency Management Division | City of Seattle's Project Impact used grant funds to seismically retrofit about 1,000 homes from 2003 through 2006. | Proposed action will not be pursued by state in 2007-2010 period. | \$1 million | Hazard Mitigation Grant Program. |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #1 – Protect Life | | | | | | |
|--|--|--|---|---------------------------|---------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 1.4 – Strengthen state and local building codes and enforcement. | 1.4.1– Pursue certification of building inspectors through code organizations and provide continuing education to improve the quality of building inspections. | State Building Code Council, with Washington Association of Building Officials (WABO) | Ongoing; WABO provided statewide training institute; About 1,000 of 1,400 inspectors statewide certified through code organizations | Ongoing | \$750,000 per fiscal year | Private/local |
| 1.5 – Train emergency responders. | 1.5.1 – Deliver standardized training on wildland fires to firefighters responding to fires in interface areas. | Department of Natural Resources – Resource Protection Division, with Washington State Patrol – Office of the State Fire Marshal, and the state’s fire services | Ongoing, all fire training includes training on urban interface | Ongoing | \$2,400,000 | DNR Resource Protection training budget |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|--------------------------------|---|---|---|---------------------------|----------------|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 2.1 – Protect critical assets. | 2.1.1 – Prioritize structural and non-structural retrofits for critical state-owned facilities based on their vulnerability to natural hazards. | Department of General Administration. | No work completed during this period. State EMD would like to pursue this effort in 2007-2010 in conjunction with ongoing critical infrastructure protection planning | Unknown | Unknown | Prioritization would have minimal cost. Retrofit projects could be funded with state capital funds and/or federal mitigation grants. |
| | 2.1.2 – Develop a pilot project that analyzes vulnerability of various school construction types to earthquake damage and recommend mitigation measures for each construction type. | State Emergency Management Division, with the State Building Code Council, Office of Superintendent of Public Instruction, and local school districts | No work completed during this period. State EMD would like to pursue this initiative in 2007-2010 | Unknown | Unknown | |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|---|--|--|--|---------------------------|----------------|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.1.5 – Develop a plan to examine the vulnerability of transportation infrastructure and lifelines along the Interstate 5 corridor from Vancouver, B.C., to Portland, OR, and the Interstate 90 corridor from Seattle to Coeur d’Alene, ID, using the recently completed Port to Port Transportation Corridor Earthquake Vulnerability Study as a model. The plan should include strategies to obtain funding for this work. | State Emergency Management Division, with Department of Transportation and others | Ongoing, via the Lifeline Routes state bridge seismic retrofit program | 2015 | \$87 million | State general funds |
| 2.2 – Protect and preserve facility contents. | 2.2.1 – Develop a pilot project that provides funding or incentives for non-structural seismic mitigation in facilities that serve vulnerable populations (e.g., children, elderly, low income). | State Emergency Management Division, with Department of Community Trade and Economic Development – Local Government Division, Department of Social and Health Services, and Department of Health | No work completed on this initiative during plan period. State EMD would like to pursue this action in 2007-2010 | Unknown. | Unknown | State general and capital funds and federal hazard mitigation grants |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|----------------------------|---|---|---|---------------------------|---|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.2.2 – Help state agencies and the state’s colleges and universities assess the seismic safety of facilities in high-risk areas and develop recommendations to mitigate seismic hazards. | Department of General Administration and State Emergency Management Division, with state agencies and higher education institutions | State EMD will continue pursuing this initiative in 2007-2010 in conjunction with ongoing critical infrastructure protection planning | Ongoing | Western Washington University: Seismic mitigation ongoing, with more than \$2 million appropriated in 2003-05 and 2005-07 biennial budgets. | Prioritization would have minimal cost. Retrofit projects could be funded with state capital funds and/or federal mitigation grants. |
| | 2.2.3 – Encourage increased funding to speed up mitigation of identified seismic hazards in vulnerable state agency facilities and the state’s colleges and universities. | State Emergency Management Division, Department of General Administration, and Higher Education Coordinating Board | No work completed during this period. State EMD would like to pursue this effort in 2007-2010 in conjunction with ongoing critical infrastructure protection planning | Unknown | Unknown | Prioritization would have minimal cost. Retrofit projects could be funded with state capital funds and/or federal mitigation grants. |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|---|---|--|--|---------------------------|--|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.2.4 – Develop a real-time monitoring program (SHAKECAST) for critical state bridges and make the data available for use in regional shake maps. | Department of Transportation and University of Washington | System in place, ground shaking of sufficient intensity to trigger system has not yet taken place | Monitoring ongoing | \$60,000 to date | State general fund and federal grants |
| 2.3 – Reduce repetitive and severe repetitive losses, including those caused by flooding. | 2.3.1 – Help communities identify repetitive and severe repetitive loss areas and obtain potential funding for mitigation in those areas. | Department of Ecology – Floodplain Management, Department of Natural Resources, with State Emergency Management Division | Ongoing. In 2006-07 revised repetitive loss property list for CRS communities using National Mitigation Tool; will attempt to expand to all affected communities | October 2009 | \$50,000/ year in staff, \$500,000 or more in grants to locals for repetitive loss property acquisition per biennium | State Flood Control Assistance Account Program (all grants) and FEMA, CAP-SSSE |
| | 2.3.2 – Streamline the permitting and funding processes for flood damage reduction and stream improvement projects. | Department of Ecology – Floodplain Management, Department of Fish and Wildlife, and Governor's Office of Regulatory Assistance | Ongoing. Streamlining particularly for WSDOT projects that are in progress; funding level restored for FCAAP | Ongoing | \$3 million available for local grants from FCAAP per biennium | State Flood Control Assistance Account Program |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|----------------------------|---|---|---|--|--|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.3.3 – Update guidelines for comprehensive flood hazard management plans, the state model flood damage prevention ordinance, and policy guidance to reduce flood losses. | Department of Ecology – Floodplain Management | Ongoing. Providing interim guidance to communities engaged in developing or revising CFHMPs | Guidance document republished by July 2009 | \$150-200,000 for publication and distribution of new guidance document | State Flood Control Assistance Account Program |
| | 2.3.4 – Encourage communities to record high water marks to improve or update flood maps or develop other measures to reduce flood damage. | Department of Ecology – Floodplain Management | Ongoing. Flood event of Nov 2006 resulted in several communities completing this task which may be used in flood hazard map updates through the Map Modernization Program | Ongoing | No specific costs established for high water mark recording. Map updates will be accomplished through the FEMA Map Modernization process | FEMA Map Modernization Program funds |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #2 – Protect Property | | | | | | |
|----------------------------|---|--|---|--|-------------------|--------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.3.5 – Seek additional resources to expand the Flood Control Assistance Account Program. | Department of Ecology – Floodplain Management, with Emergency Management Council | Successful. 2007-09 budget restored FCAAP funding to statutory levels. However, additional funding still needed for flood control planning and projects | Each state budget cycle attempts will be made to secure additional funding | Not applicable | State general fund |
| | 2.3.6 – Establish database to record effectiveness of hazard mitigation projects. | State Emergency Management Division | Ongoing. Work delayed by two disasters in late 2006. | Mid-2008 | Unknown, minimal. | State general fund |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|--|--|-------------------------------------|--|---------------------------|----------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 3.1 – Provide incentives and resources for mitigation planning | 3.1.1 – Provide grants, planning tools, training and technical assistance to increase the number of public and private sector hazard mitigation plans and initiatives, especially multi-jurisdiction partnerships. | State Emergency Management Division | Ongoing. State EMD will increase outreach, training and technical assistance during 2007-2010 to help local jurisdictions develop new plans or revise existing plans | Ongoing | Unknown | State general funds, federal mitigation grants |
| | 3.1.2 – Develop a hazard event database to help state and local emergency managers with hazard mitigation and other planning initiatives. | State Emergency Management Division | State EMD held initial discussion, but no substantive work was completed; initiative will be pursued during 2007-2010 | Ongoing | \$10,000 | State general funds |
| | 3.1.3 – Develop state hazard profiles for manmade and technological hazards. | State Emergency Management Division | Ongoing | Mid-2008 | | State general funds, Emergency Management Program Grant funds |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|--|---|---|----------------|---|----------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 3.1.4 – Increase the number of state agencies participating as planning partners in the State Hazard Mitigation Plan. | State Emergency Management Division | Ongoing | Ongoing | Minimal | State general fund |
| 3.2 – Continue critical business operations. | 3.2.1 – Help state agencies develop continuity of operations and evacuation/relocation plans for critical business operations located in high-risk hazard areas, including lahar inundation zones and areas of high seismic risk. | State Emergency Management Division, with Department of Natural Resources – Division of Geology and Earth Resources | Ongoing | Ongoing, continuing to seek funds from state, federal sources | | State general fund, NOAA National Tsunami Hazard Mitigation Program |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|---|---|------------------------------------|--|---------------------------|--|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 3.2.2 – Develop a plan and seek funding for installing backup telecommunication systems in critical state-owned facilities. | Department of Information Services | Ongoing. Project in place for establishing disaster recovery and operational capacity in Eastern Washington | June 2009 | One-time expenses, for equipment and consulting, are \$606,010 in 2007-09 biennium. Ongoing funding FY08: \$3 million FY09: \$2.7 million | State General Fund Public Safety & Education Account-State Dependent Care Administrative Acct State Patrol Highway Account Motor Vehicle Account Data Processing Revolving Account Dept of Retirement Systems Expense Accident Account Medical Aid Account Deferred Compensation Admin Account |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|---|--|---|--|---------------------------|----------------|---------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 3.2.3 – Help state agencies develop, implement and test mandated plans to ensure their information technology infrastructure are protected against service interruptions, including those caused by large-scale disasters. | Department of Information Services – Information Services Board | Ongoing. Required for state agencies, established in Information Services Board (ISB) policy. Compliance monitored through annual certifications provided by agencies to ISB | Not Applicable | Not Available | State general funds |

| Goal # 4 – Protect The Environment | | | | | | |
|---|--------|--------------------|----------------|---------------------------|----------------|----------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| No action items identified for this mitigation goal. | | | | | | |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|--|---|---|---|---|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 5.1 – Understand natural hazards and the risk they pose. | 5.1.1 – Ensure that hydraulic analysis of watersheds and updated flood maps use the most current modeling available in order to provide an accurate portrayal of anticipated flood conditions. | Department of Ecology | Ongoing. DOE participates as a Cooperating Technical Partner (CTP) with FEMA and hired a mapping specialist | October 2010 | \$120,000/year in staff costs and \$3-5 million in mapping costs over life of project | FEMA Map Modernization Program funds – CTP and Map Modernization Management Support (MMMS) |
| | 5.1.2 – Establish minimum standards and develop a model checklist for geotechnical reports. | Department of Natural Resources – Division of Geology and Earth Resources, with Department of Licensing | Complete | Complete | Minimal | State general fund |
| | 5.1.3 – Establish a funded program for state agency or peer review of geotechnical and geologic reports to ensure their accuracy and basis on best available science. | Department of Natural Resources – Division of Geology and Earth Resources | Still in scoping phase | Ongoing, continuing to seek funds from state, federal sources | Depends upon scope of project | State general fund |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|--|---|---|---|------------------|--------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.1.4 – Seek additional funding for the state’s geologic survey for research to improve understanding of the threats posed by earthquakes, landslides, and other geologic hazards in Washington. | Department of Natural Resources – Division of Geology and Earth Resources, with Governor’s Emergency Management Council | Received \$600,000/year in 2006 legislature; added three FTE for landslide and ground motion amplification mapping, contracted with UW for landslide hazard mapping in King, Pierce, and Kitsap Counties; received \$156,000/year for ground failure susceptibility mapping in tsunami hazard zones to facilitate evacuation planning, effective July 1, 2007. Currently recruiting new staff | Ongoing, continuing to seek funds from state, federal sources | \$1 million/year | State general fund |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|--|---|---|---------------------------|--|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.1.5 – Seek additional funding for maintenance and expansion of the Pacific Northwest Seismic Network (PNSN), and for deploying the Advanced National Seismic System. | Department of Natural Resources – Division of Geology and Earth Resources, State Emergency Management Division, with University of Washington and Governor’s Emergency Management Council | PNSN received \$400,000 in 2006 legislature to expand services. ShakeMap upgraded; EQ information improved; participating in regional workshops to inform public, improve disaster planning | Ongoing | \$400,000/year (State general fund) \$1.5 million/year (US Geological Survey) | State general fund, US Geological Survey |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|--|---|---|---|--------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.1.6 – Obtain funding to complete tsunami modeling for all coastal areas of the state, including Puget Sound. | State Emergency Management Division, with Department of Natural Resources – Division of Geology and Earth Resources | Initial tsunami mapping 80 percent complete. Modeling, mapping complete for Pacific coastal communities. Modeling complete for Tacoma, with inundation mapping scheduled for FY 08. Modeling for Everett scheduled for FFY 08, and inundation mapping for FFY 09. | FFY 2009 | \$100,000/yr for 6 years | NOAA National Tsunami Hazard Mitigation Program |
| 5.2 – Improve hazard information, including databases and maps. | 5.2.1 – Develop and maintain an inventory of existing geographical databases for natural hazards. | Department of Natural Resources, with State Emergency Management Division and State Geographic Information Council | In scoping phase | Ongoing, continuing to seek funds from state, federal sources | \$100,000/year | State general fund, US Geological Survey |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|---|---|--|---|-----------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.2.2 – Accelerate mapping of natural hazard areas around the state, including tsunami inundation areas in coastal areas, and develop GIS-compatible database products for them. | Department of Natural Resources – Division of Geology and Earth Resources | See 5.1.4; all hazard mapping is now being done in GIS | Ongoing, continuing to seek funds from state, federal sources | \$1million/year | State general fund, NOAA National Tsunami Hazard Mitigation Program |
| | 5.2.3 – Develop and maintain a central repository of geotechnical, geologic and hydrologic historical data. | Department of Natural Resources – Division of Geology and Earth Resources | Developing proposal for legislation | Ongoing, continuing to seek funds from state, federal sources | \$100,000/year | State general fund |
| 5.3 – Improve public knowledge of hazards and protective measures so individuals appropriately respond during hazard events. | 5.3.1 – Assess the state’s public education program on emergency preparedness and disaster resistance to determine its effectiveness and establish a baseline for future education efforts. | State Emergency Management Division | Program assessment not completed. State and local agencies surveyed on public education needs. | Unknown | Unknown | Unknown |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|---|-------------------------------------|---|---------------------------|---------------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | <p>5.3.2 – Develop and implement a coordinated state all-hazard public education strategy that builds on the results of the assessment of previous education efforts. The strategy shall address development of programs and materials that:</p> <ul style="list-style-type: none"> • Motivate individuals and families to take action to prepare for and then respond appropriately to hazard events. • Are culturally relevant for various ethnic populations. • Address the needs of special population groups, including but not limited to school children, senior citizens, and low-income families. | State Emergency Management Division | <p>Established state public education steering committee. Implemented Map your Neighborhood Program, developed new online tools for school and personal preparedness, coordinated with State CERT program, beginning to translate materials into five languages including Spanish, developed ICS for day cares, beginning to address needs of special populations</p> | Ongoing | \$200,000 per year in 2004-2007 | <p>State General Fund, Emergency Management Program Grant, Homeland Security, NOAA Tsunami funds, Hazmat.</p> |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|--|---|---|---|-------------------------------------|--|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.3.3 – Develop and maintain a comprehensive public education program that increases awareness of the wildland interface fire risk and promotes actions that reduce the risk of fire to life and property. | Department of Natural Resources – Resource Protection Division | Ongoing. Wildfire awareness week is popular. The Fire risk website which shows the fire danger for specific locations is visited on a daily basis, and is being updated | Ongoing | Fire Risk website update - \$50,000 | National Fire Plan grant and DNR funds |
| | 5.3.4 – Expand the concept of the disaster information clearinghouse (e.g., Nisqually Earthquake Clearinghouse) into a multi-hazard information center. | State Emergency Management Division, in conjunction with Department of Natural Resources – Division of Geology and Earth Resources, and Federal Emergency Management Agency | Hired contractor to research legislative requirements | Ongoing, continuing to seek funds from state, federal sources | Not available at this time | State general fund |

Table 1. Report Card of 2004 Mitigation Strategy Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|--|---|---|---|----------------------------|-----------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 5.4 – Develop new policies to enhance hazard mitigation initiatives. | 5.4.1 – Research and develop the rationale for a permanent state organization (board, commission, etc.) to establish, coordinate, and evaluate state policy on seismic safety. | State Emergency Management Division, with Department of Natural Resources and Governor's Emergency Management Council | Developing proposal for legislative authority | Ongoing, continuing to seek funds from state, federal sources | Not available at this time | State general fund |
| | 5.4.2 – Educate key state officials and policy makers about the state's natural hazards, the threats they pose, and strategies to reduce the risk. | State Emergency Management Division, with Governor's Emergency Management Council | Ongoing. State EMD developed and delivered training to local elected officials, legislators, and Governor's Cabinet | Ongoing | | Special appropriation for FY 2007 |

Table 2. State Agency Report Card of 2004 Actions

| Goal #1 – Protect Life | | | | | | |
|--|--|-------------------------------------|---|---------------------------|----------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| Objective 1.1- Improve systems that provide warning and emergency communications | 1.1.1- Expand Emergency power system | University of Washington | Ongoing | Ongoing | | State funding sources |
| | 1.1.2- Enhance and ensure interoperable communication | University of Washington | In Process - * WEBOC Training held for EOC responders in December 2006 * Satellite phones obtain for Seattle Campus. * Mass Assembly areas identified on Seattle Campus. | Ongoing | | Urban Areas Security Initiative Grant, Self-sustaining Revenue, State Funds |
| | 1.1.3- Continue upgrade of fire alarm systems | University of Washington | Ongoing | Ongoing | | Minor Capital Safety |
| | 1.1.4- Building intercom systems | Attorney General's Office | Ongoing | Ongoing | \$50,000 | State general fund |
| | 1.1.5- Continue to upgrade the campus two-way radio system | South Puget Sound Community College | Ongoing | August 2007 | \$1000 | Outside source/college budget |

Table 2. State Agency Report Card of 2004 Actions

| Goal #1 – Protect Life | | | | | | |
|--|--|-------------------------------------|-------------------------------|---------------------------|-----------------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.1.6- Purchase back up wireless communication system | South Puget Sound Community College | Ongoing | August 2008 | \$1000.00 | Outside source/college budget |
| | 1.1.7- Incorporate a review and upgrade of the fire alarm and fire sprinkler systems in all renovation and replacement projects. | Clark College | Ongoing | Ongoing | Cost dependent upon project | State general fund |
| Objective 1.3- Reduce the impacts of hazards on vulnerable populations | 1.3.1- Develop Mass Care and Shelter Plan and capabilities | University of Washington | Not initiated | Unknown | Unknown | Funding source not identified |
| | 1.3.2- Emphasize the consideration of life safety issues and risks in capital budget process | University of Washington | Ongoing | Unknown | Unknown | Capital Budget, Ongoing operational budgets |
| Objective 1.4- Strengthen state and local building code enforcement | 1.4.1- Ensure that all renovations and replacement projects include design elements to address potential hazards. | Clark College | Ongoing | Ongoing | No incremental cost | State general fund |
| Objective 1.5- Train Emergency Responders | 1.5.1- Upgrade emergency response equipment/training | Attorney General's Office | Ongoing | Dec 2007 | \$16,000 | State general fund |
| | 1.5.2- National Incident Management System Training | Attorney General's Office | Ongoing, using online courses | In progress | Minimal | State general fund |

Table 2. State Agency Report Card of 2004 Actions

| Goal #1 – Protect Life | | | | | | |
|------------------------|--|-------------------------------------|----------------|---------------------------|---------------------|-------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.5.3- Incident Drills (Agency and Military Dept. Emergency Management Division drills) | Attorney General's Office | Ongoing | In progress | Unknown | State general fund |
| | 1.5.4- Develop a comprehensive agency Safety & Security Plan and corresponding facility Safety & Security Plans for each location. | Attorney General's Office | Ongoing | March 2007 | Not available | State general fund |
| | 1.5.5- Develop and implement an all college hazard exercise program | South Puget Sound Community College | Ongoing | August 2008 | \$5000.00 | Outside source/college budget |
| | 1.5.6- Continue NIMS and ICS training for staff | South Puget Sound Community College | Ongoing | August 2008 | \$2000.00 | Outside source/college budget |
| | 1.5.7- Complete emergency response CD to be disturbed to emergency response agencies | South Puget Sound Community College | Ongoing | August 2008 | \$2000.00 | Outside source/college budget |
| | 1.5.8- Verify that building evaluation coordinators are identified and trained. | Clark College | Ongoing | June 2008 | \$1,000 | State general fund |
| | 1.5.9- Conduct regular disaster recovery training and drills. | Clark College | Ongoing | Ongoing | No incremental cost | State general fund |

Table 2. State Agency Report Card of 2004 Actions

| Goal #1 – Protect Life | | | | | | |
|------------------------|--|---------------------------------------|--|---------------------------|---------------------|-------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 1.5.10- Review and update the Emergency Response Procedures and Guide consistent with natural and other emergency response issues. | Clark College | Ongoing | June 2008 | No incremental cost | State general fund |
| | 1.5.11- Provide training to staff on emergency preparedness, disaster recovery, First Aid, and CPR. | Economic and Revenue Forecast Council | Ongoing | Continuous | \$250 | State general fund |
| | 1.5.12- Conduct emergency drills for evacuation and emergency procedures. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 1.5.13- Test individual Unit Response Center plans | University of Washington | Not initiated | Unknown | Unknown | Funding not determined |
| | 1.5.14- Expand and support Campus Emergency Response Team program | University of Washington | Ongoing. Training to start in March 2007 | Ongoing | \$25,000 | Internal grant |
| | 1.5.15- Expand and enhance Unit Response Centers | University of Washington | Not determined | Unknown | Unknown | Funding source not identified |
| | 1.5.16- Conduct ATC 20 Training | University of Washington | Ongoing | Ongoing | Unknown | Funding not determined |

Table 2. State Agency Report Card of 2004 Actions

| Goal #2 – Protect Property | | | | | | |
|------------------------------|--|-------------------------------------|----------------|---------------------------|----------------|--------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 2.1- Protect Critical Assets | 2.1.1- Replacement of gym | School for the Blind | Ongoing | July 2009 | \$8,200.000 | State general fund |
| | 2.1.2- Seismic stabilization of Arts & Crafts building | School for the Blind | Ongoing | June 2007 | \$600,000 | State general fund |
| | 2.1.3- Design and building new emergency supply storage shed, to be on-site for storage of equipment, supplies, including medical, during emergency or disaster. This building will also be used as a command post, as it will have computer, phone, and other needs. This building is being shared with neighboring building. | Labor and Industries | Ongoing | Estimated mid-2007 | \$140,000 | Agency funds |
| | 2.1.4- Continue seismic retrofit of critical facilities and infrastructure | University of Washington | Ongoing | Ongoing | Not available | State funding requested |
| | 2.1.5- Purchase a portable generator for emergency operation center | South Puget Sound Community College | Ongoing | August 2007 | \$1,500 | Outside source, college budget |

Table 2. State Agency Report Card of 2004 Actions

| Goal #2 – Protect Property | | | | | | |
|---|---|-------------------------------|----------------|--|--|---------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.1.6- Renovate Carver Gymnasium, including seismic upgrade to 100% of ATC 22 minimum life safety standards | Western Washington University | | Dependent on State Legislature, pre-design funding requested 2007-09 for \$400,000 | \$51,987,000 | State capital funds |
| | 2.1.7- Renovate Art Annex, including seismic upgrade to 100% of ATC 22 minimum life safety standards | Western Washington University | | Dependent on State Legislature, requested 2007-09 | \$4,850,000, (\$291,570 estimated for seismic) | State capital funds |
| | 2.1.8- Renovate Miller Hall including seismic upgrade to 100% of ATC 22 minimum life safety standards | Western Washington University | | Dependent on State Legislature, requested design funding for 2007-09 | \$58,000,000 | State capital funds |
| 2.2- Protect and Preserve facility contents | 2.2.1- Secure computer equipment, copiers, TV's, other equipment | Attorney General's Office | Ongoing | Dec 2007 | \$25/item | State general fund |
| | 2.2.2- Restrain cleaning supplies and other chemicals | Attorney General's Office | Ongoing | Dec 2007 | \$1,500 | State general fund |

Table 2. State Agency Report Card of 2004 Actions

| Goal #2 – Protect Property | | | | | | |
|----------------------------|---|---------------------------------------|----------------|---------------------------|----------------|--------------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.2.3- Dampening platforms were installed under data equipment cabinets in the data center that act as energy absorbers. They allow of to 8" of movement in any direction. The installation method keeps them from toppling over, so human safety has been addressed as well. | Labor and Industries | Complete | February 2007 | \$140,000 | Agency's Information Services budget |
| | 2.2.4- Remove or secure heavy items on the top of cabinets or shelving to prevent them from falling. | Economic and Revenue Forecast Council | Ongoing | 2008 | Not available | Not available |
| | 2.2.5- Secure small items on shelves or cabinet tops using museum putty or rubberized matting. | Economic and Revenue Forecast Council | Ongoing | 2008 | < \$100 | State general fund |
| | 2.2.6- Secure computers and affiliated equipment with tie-downs or rubberized matting. | Economic and Revenue Forecast Council | Ongoing | 2008 | < \$250 | State general fund |
| | 2.2.7- Consolidate information on contents of significant value | University of Washington | Not determined | Unknown | Unknown | Funding source not identified |

Table 2. State Agency Report Card of 2004 Actions

| Goal #2 – Protect Property | | | | | | |
|---|---|--------------------------|--|---------------------------|----------------|-------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 2.2.8- Replace Nisqually EQ Damaged and Non-Compliant Library Shelving | University of Washington | Funding request for next biennia submitted | Unknown | \$2.6 million | Requested state funding |
| | 2.2.9- Assess utility and network systems, capabilities, and vulnerabilities | University of Washington | Ongoing | Ongoing | Not available | Funding not determined |
| 2.3- Reduce repetitive and severe repetitive losses, including those caused by flooding | 2.3.1- Expand Forest or Landscape management plan | University of Washington | Ongoing | Not available | Not available | To be determined |
| | 2.3.2- Routine parking lot patrols will be conducted during severe weather conditions, to ensure storm drains are not clogged, thereby reducing flooding opportunities. | Labor and Industries | Ongoing | Ongoing | Not available | Not available |
| | 2.3.3- Continue abatement of friable asbestos | University of Washington | Ongoing | Ongoing | Not available | Requested state funding |

Table 2. State Agency Report Card of 2004 Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|---|---|---------------------------------------|----------------|---------------------------|---------------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 3.1- Provide incentives for mitigation planning and actions | 3.1.1- Develop a comprehensive agency Business Resumption Plan and corresponding facility Business Resumption Plan by location. | Attorney General's Office | Complete | March 2007 | Not available | Not available |
| | 3.1.2- Develop contingency plans to provide for continuation of programs in the event of disaster. | Clark College | Ongoing | June 2008 | No incremental cost | |
| | 3.1.3- Periodic plan review on how minor damage can be replaced with back-up systems and equipment. | Economic and Revenue Forecast Council | Ongoing | Annual | 0 | Not available |
| | 3.1.4- Periodic plan review on how major damage requires new purchases and restart with back-up informational systems. | Economic and Revenue Forecast Council | Ongoing | Annual | 0 | Not available |
| | 3.1.5- Periodic review of Disaster Recovery and Business Resumption Plan. | Economic and Revenue Forecast Council | Ongoing | Annual | 0 | Not available |
| | 3.1.6- Regular backups made of in-office computer hard drives. | Economic and Revenue Forecast Council | Ongoing | Quarterly | Nominal | State general fund |
| | 3.1.7- Establish Business Continuity Management Program | University of Washington | Ongoing | Not available | Not available | UW operational 2007-2009 budget request |

Table 2. State Agency Report Card of 2004 Actions

| Goal #3 – Promote A Sustainable Economy | | | | | | |
|--|---|---------------------------------------|-----------------------|----------------------------------|-----------------------|------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 3.2- Form partnerships to leverage and share resources | 3.2.1- Arrange mutual aid agreement with off-campus organizations and businesses | University of Washington | Not initiated | Unknown | Unknown | Funding not determined |
| 3.2 | 3.2.2- Establish arrangements with other organizations to share facilities, personnel, and equipment. | Economic and Revenue Forecast Council | Ongoing | Continuous | Could vary | State general fund |

| Goal # 4 – Protect The Environment | | | | | | |
|--|---------------|---------------------------|-----------------------|----------------------------------|-----------------------|-----------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| No agency action items identified for this mitigation goal. | | | | | | |

Table 2. State Agency Report Card of 2004 Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|--|---------------------------------------|-----------------------|----------------------------------|-----------------------|-------------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| 5.2- Improve hazard information, including databases and maps | 5.2.1- Keep emergency contact numbers current. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.2.2- Conduct Risk Analysis through the use of spatial technologies | University of Washington | Evaluating project | Unknown | Not available | Funding source not identified |
| | 5.2.3- Establish official digital latitude and longitude coordinates for University owned and leased facilities and infrastructure | University of Washington | Evaluating project | Unknown | Not available | Not identified |
| 5.3- Improve public knowledge of hazards and protective measures so individuals appropriately respond during hazard events | 5.3.1- Assure all employees know the location of safety equipment and first aid supplies. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.3.2- Assure all employees know of the evacuation routes from the building and meeting place once evacuated from the building. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |

Table 2. State Agency Report Card of 2004 Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|---|---|---------------------------------------|----------------|---------------------------|----------------|--------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.3.3- Maintain disaster packs with emergency food, water, and medical supplies at each employee desk. | Economic and Revenue Forecast Council | Ongoing | Annually | \$200 | State general fund |
| | 5.3.4- Periodic plan review on reporting emergency by calling 911. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.3.5- Periodic plan review on how to invoke applicable emergency response, i.e. evacuation or in place safety measures as appropriate. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.3.6- Periodic plan review on how to check each employee to determine if anyone needs emergency assistance or immediate first aid. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.3.7- Periodic plan review on how to determine whether it is safe for employees to continue work. | Economic and Revenue Forecast Council | Ongoing | Continuous | 0 | Not applicable |
| | 5.3.8- Periodic review of risk management procedures. | Economic and Revenue Forecast Council | Ongoing | Annual | 0 | Not applicable |
| | 5.3.9- Detailed records review and proper records management. | Economic and Revenue Forecast Council | Ongoing | Annual | 0 | Not applicable |

Table 2. State Agency Report Card of 2004 Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|---|--------------------------|---|---------------------------|----------------|---|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.3.10- Enhance dissemination of disaster preparedness and emergency information | University of Washington | Ongoing | Ongoing | Not available | State funding and grants |
| | 5.3.11- Implement Risk Reduction Campaign | University of Washington | Ongoing | Ongoing | Not available | Internal grant |
| 5.4- Develop new policies to enhance hazard mitigation initiatives | 5.4.1- Continue implementation of Nonstructural Mitigation measures in critical university facilities | University of Washington | Ongoing | Ongoing | Not available | Minor Capital SafetyUW Internal grant Program Renewal |
| | 5.4.2- Improve Financing for Catastrophic Losses | University of Washington | Evaluating project | Unknown | Not available | Funding source not identified |
| | 5.4.3- Develop Debris Management Plan | University of Washington | Ongoing. Staff from Seattle campus attended EMI Debris Management course in Summer 2006 | Ongoing | Not available | Funding not determined |

Table 2. State Agency Report Card of 2004 Actions

| Goal # 5 – Increase Public Preparedness For Disasters | | | | | | |
|--|--|---------------------------|-----------------------|----------------------------------|-----------------------|------------------------|
| Strategy | Action | Responsible Agency | Project Status | Projected Completion Date | Estimated Cost | Funding Source |
| | 5.4.4- Assess impacts and conditions to University transportation system in a disaster | University of Washington | Ongoing | Ongoing | Not available | Funding not determined |