

**State Agencies' Action Plan Status Report
for Fiscal Year 2000**

Action ID	Action Item Title	Lead Agency	FTE	Biennial Total	Tasks Planned for Fiscal Year 2000	Status
ADAPTIVE MANAGEMENT AND MONITORING - MONITORING ACTIVITIES						
Mon-1	Facilitate the development of a statewide monitoring framework	GSRO	0.9	160,200	Identify monitoring needs that are currently met and unmet, identify improvement in resource needs, and if appropriate expand and improve the comprehensive statewide monitoring framework presented in the Statewide Strategy to Recover Salmon.	<p>A tool to monitor agencies' performance and environmental indicators (Salmon Recovery Scorecard) was developed and finalized in May 2000. The Scorecard workgroups have identified monitoring needs and improvements and budget needed to implement. First report on scorecard was completed at the end of September 2000.</p> <p>Subgroup of the Interagency ad hoc Salmon Science workgroup is addressing issues related to project monitoring and is tracking monitoring products of other groups (e.g. Tri-County).</p> <p>(Also see Mon-8 describing the activities of the Independent Science Panel).</p>
Mon-2	Develop criteria and guidelines for monitoring and adaptive management	GSRO, WDFW	0.45	70,900	Develop criteria and guidelines regarding the definition and use of adaptive management and monitoring in recovery plans.	<p>The Forests and Fish agreement includes an adaptive management and monitoring program.</p> <p>An effectiveness monitoring design team is developing a coordinated monitoring framework for forested environments. (See For-6 for additional information).</p> <p>WDFW is developing a reference guide for monitoring protocols for some data elements contained in the Salmon and Steelhead Habitat Information and Assessment Project (SSHIAIP).</p>

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Mon-3	Implement Puget Sound Ambient Monitoring Program (PSAMP)	ECY, PSAT	0	2,565,084	Implement PSAMP to monitor freshwater, marine biological resources, nearshore habitat, sediment and assess the effects of contaminants on fish.	Freshwater, marine, and sediment long-term monitoring stations were sampled as scheduled. PSAT worked with Northwest Indian Fisheries Commission and WDFW to initiate a project to develop a diagnostic food web model of south Puget Sound.
					Coordinate/integrate with other monitoring activities.	Puget Sound monitoring activities were coordinated and integrated through PSAMP, and with National Oceanic and Atmospheric Administration and EPA.
					Analyze data, summarize findings of monitoring program and evaluate performance of programs and projects.	The 2000 Puget Sound Update was published in March 2000. This report compiles information from PSAMP monitoring and from other studies to describe the condition of the Puget Sound environment in the late 1990s. Information on the status and trends of biological resources is provided along with information on the status and trends of stressors (including physical alteration of the environment and contamination by toxic contaminants, nutrients and pathogens).
Mon-4	Update Salmonid Stock Inventory (SaSI) Project and integrate with Salmon and Steelhead Habitat Information and Assessment Project (SSHIAP)	WDFW, Tribes	3	400,000	Update data on current SaSI.	SaSI is currently being updated to include fish stock distribution linked to SSHIAP stream reaches. A cutthroat SaSI document was produced. Database is being expanded, updated and reformatted to increase informational content and ease of query. Stock report format is being revised to reflect greater scientific objectivity and to make status criteria more quantitative. Stock status ratings will be updated for several key recovery ESUs in next few months.
					Integrate SaSI data with SSHIAP to allow tracking of salmon recovery.	Coordination/linkage has been established with SSHIAP and other relevant databases.
Mon-5	Expand existing Salmon and Steelhead Habitat Inventory and Assessment Program (SSHIAP)	WDFW, Tribes	7	1,000,000	Expand Geographic Information System (GIS) for Water Resource Inventory Areas (WRIAs) 24-62 and estuarine/marine areas.	Data collection has begun for SSHIAP salmon habitat variables in WRIAs 24-30 and in estuarine/nearshore marine areas.
					Develop delivery mechanisms for SSHIAP system data to partners and other users.	SSHIAP data delivery systems have begun, and reflect: 1) general SSHIAP/Salmonid Stock Inventory (SaSI) information, 2) canned queries and data summaries, 3) Geographic Information System (GIS) layers that can be downloaded, and 4) interactive web delivery. SSHIAP's web site is www.wa.gov/wdfw/hab/sshiap

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Mon-6	Expand annual spawner abundance monitoring	WDFW, Tribes	9.2	554,000	Carry out spawner surveys and associated data compilation and analysis on key index streams.	Completed
Mon-7	Continue and expand freshwater productivity research	WDFW, ECY and Tribes	20.6	2,157,000	Monitor key watersheds throughout the state to enumerate the anadromous salmon smolts produced.	Expanded the smolt monitoring program to include seven new stream systems (total 51 stream systems within 19 Water Resource Inventory Areas (WRIAs)). These systems were selected to expand monitoring of ESA listed species. In addition, the cooperative smolt monitoring projects were conducted with volunteer groups. (Specific information is available from WDFW if needed).
					Establish at least seven more monitoring sites, initiate habitat monitoring in five of those key watersheds, and produce annual reports.	The five index watersheds and monitoring sites were identified. ECY began field sampling for flow, temperature, water quality, and collection of benthic macroinvertebrate.
Mon-8	Provide independent recommendations for salmon recovery monitoring	ISP, GSRO	0.1	75,000	Begin review, assessment, and development of recommendations regarding standardized monitoring data quality guidelines and effectiveness monitoring.	On January 12, 2000 the Independent Science Panel issued Technical Memorandum 2000-1: "Preliminary review of issues regarding development of a statewide salmonid recovery monitoring program." The Independent Science Panel is finishing work on the December 2000 monitoring report.
Mon-9	Monitor marine and estuarine vegetation	DNR	0	-	Design a protocol for monitoring submerged vegetation.	Protocol for monitoring of submerged vegetation is in draft form, and is being field tested. It was revised in summer 2000. Island County and the Dumas Bay Center in Federal Way are working cooperatively in developing and using this protocol for selected sites. Summer 2000 data collection focused on eelgrass (<i>Zostera marina</i>). The data will be analyzed to detect changes in distribution and abundance.
					Collect submerged vegetation monitoring data using the protocol developed.	Submerged vegetation data was collected statewide in summer 2000. Data will be analyzed and results available spring 2001.
Subtotal			41.25	6,982,184		