

Appendix A

RECOMMENDATIONS REGARDING HABITAT OBJECTIVES AND FUNDING SOURCES

The following were recommended by the fishery managers as actions that should be taken to meet the habitat objectives listed in Section 7.6D. The Council lists these recommendations here as potential means of achieving compliance with those objectives.

Sediment

- The Council recommends actions like the following to correct sediment problems: 1) no further ground disturbance or vegetation removal within the watershed until the objective is met, 2) suspend ongoing activities that generate elevated sediment delivery until the objective is met, and 3) initiate active restoration methods such as road obliteration and revegetation.

Bank Stability

- The Council recommends, where the bank stability objective is not being met, that activities that decrease bank stability or forestall bank recovery (i.e. riparian grazing, vegetation removal and road construction) be temporarily eliminated until bank stability is greater than 90 percent.

Water Quality

- Where the water quality objective is not being met, the Council recommends actions such as: 1) restoring the hydrologic regime, 2) not allowing the removal of streamside shading, and 3) restoring streamside shading.

Riparian Vegetation

- The Council recommends active riparian planting in areas with static or declining riparian vegetation trends if natural revegetation is shown to be inadequate for desired improvements. The Council also recommends monitoring trends in riparian vegetation.

Stream Morphology

- The Council recommends actions to improve stream morphology such as: 1) restoring floodplains by removing floodplain impacts (i.e. roads, riprap, and mining operations), 2) prohibiting channalization and channel armoring, and 3) meeting bank stability and sediment objectives. In addition, monitor trends in woody debris, pool frequency and pool volume.

Roads

- The Council recommends actions such as: 1) reducing roads as necessary to meet sediment and other water quality objectives, 2) using watershed-level inventories of terrestrial and aquatic conditions to determine which and how many roads should be obliterated, relocated, or otherwise treated, and 3) road closure, obliteration and revegetation where conditions do not meet the sediment objective.

Grazing

- Where current practices are not compatible with program habitat objectives, reductions or elimination of grazing until these habitat objectives are met or a peer reviewed scientific study describes the level of grazing compatible with such rapid fish habitat recovery.

Timber Harvest

- The Council recommends not harvesting timber in areas prone to landslides or erosion which could degrade the soils or release sediment to streams.

Mining

- The Council recommends that: 1) mining, and associated facilities and roads, not occur in riparian areas, 2) location and design of waste facilities use best available techniques to ensure mass stability and to prevent the release of acid or toxic materials, 3) reclamation bonds be adequate to ensure long-term chemical and physical stability of mine waste facilities, 4) waste facilities be reclaimed immediately after mining operations, 5) transport and holding of toxic materials along spawning and rearing reaches be seasonally restricted, and 6) mining operations be monitored and adjustments be made to operations as needed.

POTENTIAL SOURCES OF RESOURCES FOR HABITAT PROTECTION AND IMPROVEMENT

FEDERAL

Entity	Program	Assistance	Recipients	Purpose	Comments
Farm Home Administration	Watershed & Flood Protection	Loans	Municipalities, local non-profit organizations	Including flood control, recreation and storage	Used in conjunction with Soil Conservation Service's small watershed program
Soil Conservation Service	Small Watershed Program	Technical assistance and grants	State agencies, municipalities, districts	Planning and construction of projects which utilize resources of small watersheds	Covers up to 100% flood control and up to 50% of most other purposes
Soil Conservation Service	Conservation Reserve Program	Direct payment	Private land owners	Soil erosion control	
Soil Conservation Service	Wetlands Reserve Program	Direct payment	Private land owners	Wetlands protection	
Agricultural Stabilization Conservation Service	Rural Clean Water Program	Direct payments	Private landowners	To solve water problems resulting from agricultural nonpoint surface pollution	Cannot be used as local cost share on federal projects
Agricultural Stabilization Conservation Service	Agricultural Conservation Program	Direct payments, technical assistance	Private landowners	Land & water conservation	Up to \$3,500 per year per producer
Agricultural Stabilization Conservation Service	Water Quality Special Projects	Direct payments	Private landowners	Assist large water quality projects involving many participants	Emphasis on hot spots identified by water quality board, national competition

Agricultural Stabilization Conservation Service	Water Quality Incentive Program Wetland Reserve	Direct payments	Private landowners		Direct incentives for improvement measures, no cost share available in Washington
Agricultural Stabilization Conservation Service	Forest Incentive Program	Cost share	Private landowners	Tree planting for woodland improvement	
Agricultural Stabilization Conservation Service		Cost share	Private landowners	Capital improvements to control non-point pollution	
U.S. Bureau of Reclamation	Small Reclamation Projects Act	Loans and grants	Cities, counties, irrigation districts, water districts	Flood control, fish and wildlife, recreation, irrigation & hydropower	Cannot claim other federal funds as local cost share
Bureau of Reclamation	Rehabilitation and Betterment Act Loan Program				
Bureau of Reclamation	Federal Bureau of Reclamation Project Program				
Bureau of Reclamation	Western Watercourse			Facilitate locally sponsored and administered water education programs	
U. S. Fish and Wildlife Service	Partners for Wildlife Prog. Wetlands Restoration	Grants, technical assistance	Private landowners	Restoration and/or enhance wetlands	
US Army Corps of Engineers	Flood Control Studies				

US Army Corps of Engineers	Small Flood Control Prog.				
US Army Corps of Engineers	Beach Protection Studies				
Environmental Protection Agency	205J program	Direct payment	State and local agencies	Water quality demonstration projects	
Environmental Protection Agency	State Revolving Fund Program	Loans	State and local entities	Water quality projects	80 percent federal funds and 20 percent state funds
Environmental Protection Agency	Americorp Program	Grants	Federal, state, and tribal entities	Job training and watershed improvement	
Environmental Protection Agency	106 Grants Program				
Environmental Protection Agency	604B Grants Program				
Environmental Protection Agency	314 Grants Program				
Environmental Protection Agency	National Estuary Program				
Bonneville Power Administration	Fish and Wildlife Program	Direct payment	Various	Fish and wildlife mitigation	Funds model watersheds
U.S. Dept. of Agriculture	Urban Assistance Program	Grants and direct payment	Local and private entities	Urban watershed improvement	
U.S. Fish and Wildlife Service	Washington State Ecosystem Conservation Project	Direct payment		Wetland improvement and protection	Requires cost sharing

STATE

Entity	Program	Assistance	Recipients	Purpose	Comments
Washington of Dept. of Fish and Wildlife	Habitat Enhancement Program				
Washington State Conservation Commission	Water Quality Research Grant Program	Grants to conservation district's, water quality projects			
Washington State Conservation Commission	Nonpoint Water Quality Grants Program	Grants	Conservation districts	Water quality projects	
Washington State Conservation Commission	Dairy Waste Management Program	Loans and grants	Conservation districts and private land owners	Water quality improvement and protection	
Washington Dept. of Ecology	Clean Water Act Section 319	Grants	State or federal government entities	Improvement of natural watershed and quality of surface and ground water	
Washington Dept. of Ecology	Centennial Clean Water Fund	Grants	State or local entities	Water quality projects	
Washington Dept. of Ecology	Lake Restoration				
Washington Department of Ecology	Coastal Zone Management Grants				Environmental Protection Agency funds for coastal waters protection
Washington Department of Ecology	Flood Control Assistance Account Program				

Washington Dept. of Natural Resources	Stewardship Incentive Program	Grants	Woodland owners with 5-1,000 acres of forest land	Improve land management	Cost share is 50-75% & up to \$10,000 per owner per year, program practices include riparian, wetland & fisheries protection
Washington Dept. of Natural Resources & Washington Dept. of Fish and Wildlife	Jobs for the Environment Program	Grants	State, local, and private entities	Employing displaced workers	Works in conjunction with Watershed Restoration Partnership Program
Washington Dept. of Natural Resources & Washington Dept. of Fish and Wildlife	Watershed Restoration Partnership Program	Grants	State, local, and private entities	Watershed projects to enhance fish	Jobs for the Environment Program
Washington Dept of Community Development.	Community Development Block Grant				
Washington State Salmon Enhancement funds					
Oregon Dept. of Water Resources	Oregon Watershed Health Program	Direct payment	Local watershed councils	Watershed improvement	
Oregon Governor's Watershed Enhancement Board	Oregon Watershed Improvement Program	Grants	Various	Watershed improvement and protection	
Oregon Dept. of Agriculture				Watershed improvement	Buck Hollow 2000 Project

PRIVATE

Entity	Program	Assistance	Recipients	Purpose	Comments
Nature Conservancy		Direct payments	State and local entities	Watershed enhancement projects, land & water purchase/lease	
Isaac Walton League		Volunteer assistance		Habitat protection and improvement	
Blue Mt. Natural Resources. Institute	Blue Mountain Elk Initiative	Restoration projects	varies	Restoration of elk habitat	Partnership of 22 tribal, government, and private entities
Trout Unlimited	Embrace-A-Stream Projects	Grants, volunteer assistance		Habitat and fisheries enhancement and protection	
Rocky Mountain Elk Foundation					Potential source of funding for land purch.
Key Bank	Washington Waters Program	Grants	State, local, and private entities	Watershed improvement and protection	
Mid-Columbia Public Utility Districts		Direct payments		Watershed improvement	
Phillips Petroleum Company	Phillips Environmental Partnership Awards	Schools and community organizations		Habitat and wildlife, water, public works, school grounds, recycling, environmental education	\$500-\$5000, Center for Environ. Edu, Oklahoma State U., Gunderson Hall, Stillwater, OK, 74078

Long Live the Kings				Watershed improvement	
Peace Trees				Youth group that does environmental work	
Nordstroms, Inc		Grants		Watershed improvement	
Council of International Education Exchange				Habitat improvement	Volunteers from Europe
Adopt-A-Stream Foundation	Adopt-A-Stream Program	Volunteer		Watershed improvement	
The Land Trust Alliance				Provides specialized services, publications, information, and training on land trusts	
Ducks Unlimited		Grants, volunteer		Wetlands protection and improvement	
Northwest Steelheaders				Watershed improvement	Buck Hollow 2000 Project
Oregon Wildlife Heritage Foundation					Buck Hollow 2000 Project

OTHER

Entity	Program	Assistance	Recipients	Purpose	Comments
Northwest Power Planning Council	Fish & Wildlife Program	Direct payments	State & federal agencies, tribes, and private entities	Program to protect, mitigate and enhance fish and wildlife affected by hydropower system	Can be used as local cost share on federal projects
City and county governments, conservation districts	Stream Walk Program	Volunteer training and funding	Various	Water quality monitoring and stream/riparian enhancement	