IMPLEMENTATION SCHEDULE

The Implementation Schedule that follows describes recovery task priorities, task numbers, task descriptions, duration of tasks, potential or participating responsible parties, total cost estimate and estimates for the next 5 years, if available, and comments. These tasks, when accomplished, are expected to lead to recovery of bull trout in the John Day River Recovery Unit. Cost estimates are not provided for tasks which are normal agency responsibilities under existing authorities.

Parties with authority, responsibility, or expressed interest to implement a specific recovery task are identified in the Implementation Schedule. Listing a responsible party does not imply that prior approval has been given or require that party to participate or expend any funds. However, willing participants may be able to increase their funding opportunities by demonstrating that their budget submission or funding request is for a recovery task identified in an approved recovery plan, and is therefore part of a coordinated effort to recover bull trout. In addition, section 7 (a)(1) of the Endangered Species Act directs all Federal agencies to use their authorities to further the purposes of the Act by implementing programs for the conservation of threatened or endangered species.

The following are definitions to column headings in the Implementation Schedule:

Priority Number: All priority 1 tasks are listed first, followed by priority 2 and priority 3 tasks.

Priority 1: All actions that must be taken to prevent extinction or to prevent the species from declining irreversibly in the foreseeable future.

Priority 2: All actions that must be taken to prevent a significant decline in species population or habitat quality or to prevent some other significant negative effect short of extinction.

Priority 3: All other actions necessary to provide for full recovery (or reclassification) of the species.

Task Number and Task Description: Recovery tasks as numbered in the recovery outline. Refer to the action narrative for task descriptions.

Task Duration: Expected number of years to complete the corresponding task. Study designs can incorporate more than one task, which when combined may reduce the time needed for task completion.

Responsible or Participating Party: The following organizations are those with responsibility or capability to fund, authorize, or carry out the corresponding recovery task. Identified parties include:

BLM	U.S. Bureau of Land Management
CTWSR	Confederated Tribes of the Warm Springs Reservation of Oregon
ES	Extension Service
ID	Irrigation Districts
JDRUT	John Day River Recovery Unit Team
LCDC	Oregon Land Conservation and Development Commission
NGO	Non-governmental organizations
NMFS	National Marine Fisheries Service
NRCS	U.S. Natural Resource Conservation Service
ODEQ	Oregon Department of Environmental Quality
ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
OSP	Oregon State Police
OWRD	Oregon Water Resources Department
PTC	Private Timber Companies
SWCD	Soil and Water Conservation Districts
TMDLWG	Total Maximum Daily Load Working Group
USBOR	U.S. Bureau of Reclamation

USCOE	U.S. Corps of Engineers
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WC	Watershed Councils

Bold face type in the implementation schedule indicates agency or agencies that have the lead role for task implementation and coordination, though not necessarily sole responsibility.

Cost Estimates: Cost estimates are rough approximations and provided only for general guidance. Total costs are estimated for the duration of the task, are itemized annually for the next 5 years, and include estimates of expenditures by local, Tribal, State, and Federal governments and by private business and individuals.

An asterisk (*) in the total cost column indicates ongoing tasks that are currently being implemented as part of normal agency responsibilities under existing authorities. Because these tasks are not being done specifically or solely for bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Double asterisk (**) in the total cost column indicates that estimated costs for these tasks are not determinable at this time. Input is requested to help develop reasonable cost estimates for these tasks.

Triple asterisk (***) indicates costs are combined with or embedded within other related tasks.

Implementation schedule for the John Day River bull trout recovery unit chapter											
Task Priority	**Task Number**	**Task Description**	**Task Duration (years)**	**Responsible Parties**	**Cost Estimates (in $1,000 units)**						**Comments**
					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
1	1.2.1	Screen water diversions and irrigation ditches.	7	**NMFS, ODFW, USBOR, USFWS**, ID, NRCS, SWCD,	350	50	50	50	50	50	New and update existing screens
1	1.2.2	Install appropriate fish passage structures around diversions and/or remove related migration barriers.	5	**NMFS, ODFW, SWCD, USBOR, USFWS**, NRCS	300	75	75	50	50	50	
1	5.2.1	Further define bull trout distribution and habitat use in the John Day Recovery Unit.	5	**ODFW**, USFS, BLM, CTWSR, USFWS	200	40	40	40	40	40	
1	5.5.1	Conduct bull trout spawning ground surveys in Desolation and Clear creeks.	7	**USFWS**, BPA, CTWSR, NPPC, ODFW	500	100	100	100	50	50	
2	1.1.1	Reduce sediment inputs.	25	**ODF,ODOT, PTC, USDOT, USFS**, SWCD, WC	10,000	500	500	500	500	500	See Watershed Assessments and Travel Management Plans

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					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
2	1.1.2	Control agricultural and sewage effluent.	25	**ODA, ODEQ, USEPA**, BLM, NRCS, SWCD, USFS	1,000	500	500				Ongoing and changes with landowner and new development
2	1.1.3	Assess and mitigate effects of nonpoint source pollution.	8	**ODA, ODEQ, USEPA**, BLM, NRCS, ODF, SWCD, USFS,	2,000	250	250	250	250	250	ODEQ lists streams that are water qaulity limited and there is a plan for ag sources
2	1.1.4	Reduce mining runoff.	8	**ODA, ODEQ, USEPA**, BLM, NRCS, SWCD, USFS	2,000	250	250	250	250	250	ODEQ lists streams that are water qaulity limited due to mining effluent
2	1.2.3	Securie instream flows.	15	**NMFS, ODFW, OWRD, USFWS**, ID, NRCS, SWCD	1,050	70	70	70	70	70	
2	1.3.1	Revegetate to restore shade and canopy, riparian cover, and native vegetation.	25	**BLM, NRCS, ODA, ODEQ, USFS**, CTWSR, SWCD	375	25	25	25	25	25	

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					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
2	1.3.2	Reduce grazing impacts.	7	**BLM, ODA, NRCS, USFS**, BPA, CTWSR, SWCD	500	70	70	70	70	70	
2	2.5.1	Evaluate presence/absence of introduced fishes in bull trout habitat and determine site specific biological, economic, and social impacts.	5	**ODFW, USFS**, BLM, USFWS	250	50	50	50	50	50	
2	2.5.2	Assess severity of threat due to hybridization with brook trout where two species co-occur in the North Fork John Day River and upper mainstem John Day River.	5	**ODFW, USFWS**, USFS	100	20	20	20	20	20	in conjunctin with 2.5.1
2	2.5.3	Implement nonnative species removal efforts wherever feasible and biologically supportable.	25	**ODFW, USFWS,** USFS	300	25	25	25	25	25	possibility of new introductins

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					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
2	3.1.1	Integrate multiple planning processes, incorporating bull trout recovery actions into *The Oregon Plan for Salmon and Watersheds* and the Pacific Northwest Power Planning Council Subbasin plans.	5	**NPPC, ODFW, USFWS**, BLM, BPA, SWCD, USFS	150	30	30	30	30	30	
2	3.1.2	Coordinate monitoring with the Oregon Salmon Plan.	5	**ODFW, OWEB**	150	30	30	30	30	30	
2	3.2.1	Ensure compliance with angling regulations and policies and target problem areas for enforcement.	Ongoing[1]	**BLM, NMFS, ODEQ, ODFW, OSP, USEPA, USFS, USFWS,**	*						Agency responsibility, no additional cost
2	3.2.2	Reduce angler pressure in key areas where incidental mortality is evaluated as detrimental to recovery.	Ongoing	**ODFW, OSP, USFWS**	50	2	2	2	2	2	

[1] Ongoing tasks are currently being implemented as part of normal agency responsibilities that may benefit bull trout. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Implementation schedule for the John Day River bull trout recovery unit chapter											
Task Priority	**Task Number**	**Task Description**	**Task Duration (years)**	**Responsible Parties**	**Cost Estimates (in $1,000 units)**						**Comments**
					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
2	5.6.1	Evaluate food web interactions in drainages most affected by introduced fishes, such as the North Fork John Day River and upper mainstem John Day River.	5	**ODFW, USFWS, USGS**, CTWSR, USFS	150	30	30	30	30	30	
2	6.1.1	Provide long-term habitat protection through purchase from willing sellers, conservation easements, management plans, land exchanges, etc..	25	**BPA, CTWSR, NPPC, USFWS**, NMFS, ODFW	*						Ongoing management concern, cost dependent on the extent of the action
3	1.3.3	Conduct stream channel restoration activities.	15	**BLM, ODFW, USFS**, BPA, CTWSR	2,000	50	50	50	50	50	e.g., mine tailings
3	1.4.1	Integrate watershed analyses and restoration activities on public lands.	Ongoing	**BLM, NPPC, ODFW**, USFS, BPA, SWCD	*						Subbasin plans can be used as vehicle, no additional cost
3	1.4.2	Assess current and historic effects of upland management on changes to the hydrograph.	5	**BLM, USFS, USGS**, CTWSR	1,000	20	20	20	20	20	

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					Total Costs	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	
3	1.4.3	Plant site appropriate vegetation in the Tower, Summit, and Bull fire areas, focusing on nearby existing seed sources to speed natural recovery.	3	**USFS**, ODF, PTC	*						Agency requirement, no additional cost