

Table I.C.5.1: Coordination, Research, Monitoring & Evaluation Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOMES	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
YN	Ira Jones	Clearwater	Complete Clearwater River Subbasin Assessment & Plan	Coordination, assessment	All	A	US & Canadian Agreements under the Pacific Salmon Treaty (6/30/99); TRP	350,000	150,000	100,000	110,000	121,000	831,000
YN	Ira Jones	Clearwater	Clearwater Focus Watershed Co-Coordinator	Coordination	All	A	Clearwater River Assessment, Plan and M&E Plan to be completed in 2001; Section 7 FWP; TRP	103,000	118,000	123,000	130,000	143,000	617,000
OSU	Ira Jones	Clearwater	Salmon River Watershed Assessment	Assessment	All	A	Assessment ongoing & Sec. 7 FWP	250,000	150,000	100,000	110,000	121,000	731,000
NPT	Ira Jones	Imnaha	Imnaha Subbasin Assessment, Plan, & M&E Plan	Assessment, monitoring & evaluation	All	A	Clearwater River Assessment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP.	250,000	150,000	100,000	110,000	121,000	731,000

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NPT	Ira Jones	Grande Ronde	Grande Ronde Subbasin Assess- ment, Plan & M&E Plan	Assess- ment, monitoring & evaluation	All	A	Clearwater River Assess- ment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP.	250,000	150,000	100,000	110,000	121,000	731,000
NPT	Ira Jones	Snake River	Snake River Subbasin Assess- ment, Plan & M&E Plan	Assess- ment, monitoring & evaluation	All	A	Clearwater River Assess- ment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP.		150,000	100,000	110,000	121,000	481,000
NPT	Ira Jones	Tucannon	Tucannon Subbasin Assess- ment, Plan & M&E Plan	Assess- ment, monitoring & evaluation	All	A	Clearwater River Assess- ment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP.	250,000	150,000	100,000	110,000	121,000	731,000
NPT	Gwen Carter	Clearwater	Mainstem Clearwater Monitoring & Evaluation	Monitor water quality	All	A	Nez Perce Tribal Water Resource Project	300,000	100,000	100,000	100,000	100,000	700,000

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NPT	Gwen Carter	Snake River	Geomorphic Risk Assessment (Address Chronic & Acute Sources of Sediment in Watersheds with Mixed Land Uses)	Assessment	All	A	TRP	10,000	40,000				50,000
NPT	Si Whitman	Snake River	Baseline Genetic Analysis	ESA Stock Genetic Analysis	Chinook, steelhead	A	TRP	250,000	258,000	265,000	273,000	281,000	1,327,000
NPT	Si Whitman	Snake River	Chinook Salmon Escapement Monitoring	Adult abundance monitoring	Chinook	A	TRP	575,000	2,170,000	350,000	360,000	370,000	3,825,000
NPT	Si Whitman	Multiple	Management Support for ESA Stock Recovery	ESA recovery & delisting to increase natural spawning	ESA-listed species & stocks	A	TRP	773,000	796,000	820,000	884,000	869,000	4,142,000

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CTUIR	Aaron Skirvin	Umatilla	Surface Water Monitoring & Gauging Stations	Water quality monitoring	All	A	TRP	130,000	120,000	120,000	120,000	120,000	610,000
CTUIR	Gary James	Umatilla	Umatilla Resident Fish Assessment & Plan	Assess- ment, enhance- ment plan & actions	Multiple	A	TRP	150,000	150,000	150,000	150,000	150,000	750,000
CTUIR	Gary James	Umatilla	Umatilla Steelhead Supplementation Research & Development Progeny Mark Technique	Research, management guidance	Steelhead	A,B	1,2,3,4,5		100,000	100,000	100,000	100,000	400,000
CTUIR	Gary James	Umatilla	Umatilla Hatchery Additional Water/Water Treatment Upgrade Assessment	Increased production	Steelhead, chinook & lamprey	A	TRP	50,000					50,000

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CTUIR	Gary James	Umatilla	Steelhead Genetics Analysis	Genetic info management	Steelhead	A,B	TRP	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
CTUIR	Roy Beatty	Multiple	Enhance Iteroparity (Repeat Spawning) in Columbia Basin Steelhead	Coordination, planning, research	Listed summer steelhead	A	TRP	230,000	330,000	320,000	190,000	110,000	1,180,000
CTUIR	Mike Matylewich	Snake River	Snake River Fall Chinook Radio Tagging Study	Monitoring, research	Fall chinook	A,B	TRP	150,000	420,000	420,000	100,000		1,090,000
CRITFC	Tom Backman	White Salmon	Remote Water Quality Monitoring System: Impacts of Condit Dam Removal	Monitoring, assessment	All	A	TRP	200,000	200,000	25,000	25,000	25,000	475,000

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CRITFC	Paul Lumley	Multiple	Wetlands Assessment/ Cultural Resources	Assessment	All	A	TRP	375,000	375,000				750,000
CRITFC	Paul Lumley	Multiple	Subbasin Assess- ments & Plans, Coordination & GIS/Technical Support	Coordination, assessment	All	A	TRP, FWP	800,000	800,000	800,000	800,000	800,000	4,000,000
CRITFC	Paul Lumley	Multiple	Coordinate Water Quality Activities with Fish & Wildlife Program	Coordination, planning	All	A	TRP, FWP	600,000	600,000	600,000	600,000	600,000	3,000,000
CRITFC	Paul Lumley	Lower Columbia	Fish Consump- tion Study	Data collection, public information	All	A	LCREP	200,000	200,000				400,000

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CRITFC	Paul Lumley	Lower Columbia	Fate and Transport Study	Data collection	All	A	LCREP	200,000	200,000				400,000
CRITFC	Paul Lumley	Lower Columbia	Lower Columbia River Restoration Project (Habitat Assessment)	Assessment	All	A	LCREP	180,000					180,000
CRITFC	Paul Lumley	Lower Columbia	Lower Columbia River Restoration Project (Monitoring & Evaluation)	Monitoring & evaluation	All	A	LCREP	600,000	600,000	600,000	600,000	600,000	3,000,000
CRITFC	Phil Roger	Basinwide	Columbia Basin Fish & Wildlife Science Institute (includes present cost of ISAB & ISRP)	Effective research, monitoring, evaluation, data mgmt, & project review	All	A,B	TRP	3,000,000	3,150,000	3,300,000	3,500,000	3,650,000	16,600,000

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CRITFC	Paul Lumley	Basinwide	Implement Wy-Kan-Ush-Mi Wa Kish-Wit	Coordination, planning	All	A	TRP		350,000	350,000	350,000	350,000	1,400,000
CRITFC	Andre Talbot	Basinwide	Analysis of NMFS' Artificial Propagation Policy (ESU)	Analysis		A	TRP	80,000					80,000
CRITFC	Chris Beasley	Basinwide	Benefit/Risk Analysis	Analysis		A	TRP	90,000	95,000	100,000	105,000	110,000	500,000
CRITFC	Phil Roger	Basinwide	Develop & Test Broad-Scale Assessment Methodology	Analysis	All	A	TRP	200,000	1,005,000	1,010,000	1,015,000	1,030,000	4,260,000

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4 Tribes/ CRITFC	Phil Roger	Basinwide	Quantitative Analysis of Survival Trends & Recovery Actions	Analysis	All	A	TRP	200,000	210,000	220,000	232,000	243,000	1,105,000
4 Tribes/ CRITFC	Andre Talbot	Basinwide	Develop Population Viability Analysis Program & Models	Analysis	All	A	TRP	100,000	50,000	50,000	50,000	50,000	300,000
4 Tribes/ CRITFC (EPA cost share of 160,000 over 2 years)	Tom Backman	Basinwide	Develop a Health Evaluation Index to Assess Impacts of Gas Bubble Trauma	Analysis	All	A	TRP	200,000	200,000				400,000
4 Tribes/ CRITFC	Tom Backman	Basinwide	Evaluate Effects of Cumulative Stress on Fitness & Survivorship of Juvenile Salmon During Mainstem Passage	Analysis	All	A	TRP	200,000	200,000				400,000

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4 Tribes/ CRITFC	Jon Matthews	Basinwide	Fish Marketing Analysis & Implementation for Tribal Fisheries	Restore some of lost benefit to treaty fishery of hydrosystem development		A	TRP	250,000	250,000	250,000	250,000	250,000	1,250,000
4 Tribes/ CRITFC	Andre Talbot	Basinwide	Tribal Research Laboratory	Research, monitoring, evaluation	All	A	TRP	3,000,000	1,500,000	1,000,000	1,000,000	1,000,000	7,500,000
TOTALS								21,002,700	19,843,700	15,481,400	15,402,400	15,839,400	86,625,600

Document code for CTUIR Projects:

- 1: NPPC Fish & Wildlife Program
- 2: Wy-Kan-Ush-Mi Wa-Kish Wit (Spirit of the Salmon): Tribal Salmon Restoration Plan
- 3: NPPC Subbasin Plans (1990)
- 4: CBFWA Subbasin Plan Summaries (DAIWP, 1999)
- 5: Comprehensive Plan for Rehabilitation of Anadromous Fish Stocks in the Umatilla Basin (ODFW, 1996)
- 6: Draft Watershed Assessments, Umatilla & Walla Walla (WSU, 2000)
- 7: Draft Hatchery Master Plans, Umatilla & Walla Walla
- 8: Draft Umatilla TMDL
- 9: Walla Walla River Reconnaissance Report (COE, 1997)
- 10: CTUIR Wildlife Mitigation Plan

Note: The Yakama Nation is submitting comments to NPPC under separate cover. Measures listed in the Yakama Nation's submittal will take precedence over measures listed in these tables. If necessary, updated versions of these tables will be made available at a later date.

Table I.C.4.1: Habitat Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOMES	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/ REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
NPT	Ira Jones	Clearwater	Salmon Corps Habitat Projects	Habitat Restoration	All	A,B	Clearwater River Assessment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP, TRP		200,000	210,000	231,000	254,000	895,000
NPT	Ira Jones	Clearwater	High Priority Road Obliteration (North Lochsa Face, Squaw to Papoose)	Reduced sedimentation	All	A,B	Squaw to Papoose EAWS, TRP	650,000	715,000	786,500	865,150	951,665	3,968,315
NPT	Ira Jones	Clearwater	High Priority Road Obliteration (Lochsa River & Tributaries)	Reduced sedimentation	All	A,B	Squaw to Papoose EAWS & Section 7 FWP, TRP		750,000	800,000	850,000	900,000	3,300,000
NPT	Ira Jones	Clearwater	High Priority Road Obliteration & Channel Restoration (Newsome)	Reduced sedimentation	All	A,B	South Fork Clearwater Landscape Assessment & Section 7 FWP, TRP	400,000	500,000	550,000	610,000	400,000	2,460,000
NPT	Ira Jones	Clearwater	High Priority Road Obliteration (South Fork Clearwater)	Reduced sedimentation	All	A,B	South Fork Clearwater Landscape Assessment & Section 7 FWP, TRP		450,000	500,000	550,000	600,000	2,100,000
NPT	Ira Jones	Clearwater	Protect Mill Creek	Reduced sedimentation	Listed Steelhead	A,B	South Fork Clearwater Landscape Assessment & Section 7 FWP, TRP	97,822	102,650	112,300	123,550	135,800	572,122
NPT	Ira Jones	Clearwater	Riparian Fencing on Jim Ford's Creek (20 miles)	Improve water quality	Listed Steelhead	A,B	Jim Ford's Creek TMDL & Section 7 FWP, TRP	150,000					150,000
NPT	Ira Jones	Clearwater	Clearwater Fencing: Comprehensive Plan (construct 100 miles of riparian fencing)	Improve water quality	All	A,B	Clearwater River Assessment, Plan, and M&E plan to be completed in 2001 & Section 7 of FWP, TRP	150,000	150,000	150,000	150,000	150,000	750,000
NPT	Ira Jones	Clearwater	Potlatch River: Collection of Baseline Data	Assessment	Listed fall chinook	A	TRP	50,000					50,000
NPT	Ira Jones	Clearwater	Remediate Mining Impacts	Decreased sediment, improved water quality	All	A,B	South Fork Clearwater Landscape Assessment & Section 7 FWP, TRP	600,000	550,000	655,000	720,500	742,500	3,268,000

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NPT	Ira Jones	Clearwater	Slate Creek Restoration (road obliteration, fencing, and channel rehabilitation)	Decreased sediment, improved water quality	All	A,B	Slate Creek EAWS & Section 7 FWP, TRP		300,000	330,000	363,000	399,300	1,392,300
NPT	Ira Jones	Clearwater	Restore McComas Meadows/ Meadow Creek	Decreased temperature & sediment	Steelhead, chinook	A,B	Meadow Face EAWS & Section 7 FWP, TRP	120,000	250,000	275,000	302,500	332,752	1,280,252
NPT	Ira Jones	Clearwater	Reclamation of Degraded Channel (Lapwai)	Decreased sediment, improved water quality	All	A,B	Lapwai Creek Assessment to be completed 2000 & Section 7 FWP, TRP	100,000	355,000	375,000	475,000	495,000	1,800,000
NPT	Ira Jones	Clearwater	Reclamation of Degraded Channel (Big Canyon)	Decreased sediment, improved water quality	All	A,B	Big Canyon Creek Assessment to be completed 2000 & Section 7 FWP, TRP	100,000	355,000	365,000	385,000	395,000	1,600,000
NPT	Ira Jones	Clearwater	Protect & Restore Lolo Creek Watershed	Improved habitat condition & water quality	All	A,B	Lolo Creek EAWS/FS 2007 & Section 7 FWP, TRP	367,044	404,000	443,950	488,338	537,150	2,240,482
NPT	Don Bryson	Grande Ronde	Wallowa Dam Passage & Wallowa Lake Restoration	Passage Improvement, improved water quality	Sockeye	A,B	TRP	850,000	425,000	425,000	425,000	425,000	2,550,000
YN	Lynn Hatcher	Yakima	Bull Ditch/Wilson Creek Screen	Increased juvenile salmon survival	All	A,B	TRP	200,000					200,000
YN	Lynn Hatcher	Yakima	Ahtanum Creek Fencing & Riparian Restoration	Improved water quality	All	A,B	TRP	70,000					70,000
YN	Mel Sampson	Klickitat	Castile Falls Fish Passage Improvement	Increased salmonid habitat	All	A,B	TRP	113,000					113,000
YN	Bob Pimms	Yakama	Reecer Creek Irrigation Improvement Demonstration Project (demonstrate model irrigation system improvements)	Improved water quality	All	A,B	TRP	200,000					200,000
YN	Bill Sharp	Klickitat	Klickitat Mill Site Acquisition	Improved water quality	All	A,B	TRP	200,000	50,000	50,000	50,000	50,000	400,000
YN	Yakama	Yakima	Simcoe/ Toppenish Creek Habitat Acquisition	Reconnected habitat, improved habitat & water quality	Listed Steelhead	A,B	TRP	5,000,000	3,750,000	3,750,000	3,750,000	3,750,000	20,000,000

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YN	Yakama	Yakima	Naches River Salmon & Steelhead Restoration	Improve salmonid survival	Steelhead, spring chinook	A,B	TRP	0	0	0	0	0	0
YN	Joel Hubble	Methow	Methow River Side-Channel Habitat Restoration	Improved salmonid habitat	All	A,B	TRP	400,000	400,000	400,000	400,000	400,000	2,000,000
YN	Joel Hubble	Methow	Methow Basin Road Obliteration	Reduced sedimentation	All	A,B	TRP	100,000	100,000	100,000	100,000	100,000	500,000
YN	Joel Hubble	Methow	Remove and Improve Culverts	Restore lost habitat	All	A,B	TRP	150,000	150,000	150,000	150,000	150,000	750,000
YN	Joel Hubble	Wenatchee	Remove and Improve Culverts	Restore lost habitat	All	A,B	TRP	150,000	150,000	150,000	150,000	150,000	750,000
CTWS	Patty O'Toole	Deschutes	Habitat Actions to Reduce Sediment Delivery to Warm Springs River	Sediment reduction, habitat restoration	All	A,B	TRP	118,000	93,000	93,000	93,000	93,000	490,000
CTWS	Patty O'Toole	John Day	Acquire Oxbow Ranch/ Dewitt Ranch (Middle Fork)	Reconnected habitat, improved habitat & water quality	All	A,B	TRP	1,870,520	135,000	70,000	40,000	40,000	2,155,520
CTWS	Patty O'Toole	John Day	Acquire John Forrest Property: Middle Fork	Reconnected habitat, improved habitat & water quality	All	A,B	TRP	1,700,000	100,000	40,000	40,000	40,000	1,920,000
CTWS	Patty O'Toole	John Day	Acquire John Forrest Property: Mainstem	Reconnected habitat, improved habitat & water quality	All	A,B	TRP	2,300,000	20,000	20,000	20,000	20,000	2,380,000
CTWS	Patty O'Toole	John Day	Acquire Wagner Ranch: Mainstem	Reconnected habitat, improved habitat & water quality	All	A,B	TRP	2,550,000	50,000	50,000	50,000	50,000	2,750,000
CTWS	Patty O'Toole	John Day	Other Potential Habitat Acquisition Opportunities in John Day River Basin in Near Future	Reconnected habitat, improved habitat & water quality	All	A,B	TRP	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	9,000,000
CTWS	Patty O'Toole	John Day	Floodplain Reclamation Project: Oxbow Ranch	Reconnected habitat, improved water quality	All	A,B	TRP	100,000	35,000	10,000			145,000
CTWS	Patty O'Toole	John Day	Water Conservation Program	Increase instream flows, decrease water temperatures	All	A,B	TRP	450,000	450,000	450,000	450,000	450,000	2,250,000
CTWS	Patty O'Toole	Hood	Hood River Land Acquisition	Improved habitat & water quality	All	A,B	TRP						

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CTUIR	Gary James	Umatilla	Squaw Creek Habitat Acquisition	Improved habitat & water quality	All	A,B	1,2,4,10	424,000	50,000	50,000	50,000	50,000	624,000
CTUIR	Gary James	Umatilla	Mission Creek Culvert Replacement	Restore access to habitat	Listed summer steelhead	A,B	2	15,000					15,000
CTUIR	Gary James	Umatilla	Mainstem Umatilla Riparian Floodplain Conservation & Protection	Improved riparian & natural stream function	Multiple	A,B	1,2,3,4,5,6,8	1,500,000	1,000,000	1,000,000	1,000,000	1,000,000	5,500,000
CTUIR	Gary James	Umatilla	Meacham Creek Floodplain Restoration	Improved riparian & natural stream function	Spring chinook, steelhead	A,B	1,2,3,4,5,6,8	200,000	200,000	200,000	200,000	200,000	1,000,000
CTUIR	Gary James	Walla Walla	Instream Passage and Flow Enhancement in the Upper Walla Walla River	Improved passage, increased survival	All	A,B	2	30,000					30,000
CTUIR	Gary James	Walla Walla	Habitat Access/Fish Passage	Improved salmonid survival	Spring chinook, steelhead	A,B	2	48,000					48,000
CTUIR	Gary James	Walla Walla	Upper Mainstem & Tributary Floodplain Conservation & Protection	Improved riparian & natural stream function	Steelhead, spring chinook, bull trout	A,B	1,2,3,4,6	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
CTUIR	Gary James	Grande Ronde	Grande Ronde Valley Water Rights Acquisition	Increased fish survival & distribution	Spring chinook, steelhead	A,B	2,3,4	150,000	150,000	150,000	150,000	150,000	750,000
CTUIR	Gary James	Grande Ronde	Upper Grande Ronde Critical Habitat Acquisition (including Vey Meadows)	Increased natural production	Spring chinook, steelhead	A,B	2,3,4	20,000,000	5,000,000	5,000,000	5,000,000	5,000,000	40,000,000
CTUIR	Gary James	Grande Ronde	McCoy Mountain Property Acquisition	Increased natural production	Spring chinook, steelhead	A,B	2,3,4	4,000,000	50,000	50,000	50,000	50,000	4,200,000
CTUIR	Gary James	Grande Ronde	Lookingglass Creek Property Acquisition	Increased natural production	Spring chinook, steelhead	A,B	2,3,4	1,750,000	50,000	50,000	50,000	50,000	1,950,000
CTUIR	Gary James	Grande Ronde	Grande Ronde Valley Riparian Floodplain Conservation & Protection	Increased natural production	Spring chinook, steelhead	A,B	1,2,3,4	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000

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CTUIR	Gary James	Multiple	Rubber Tire Backhoe & Trailer for Habitat Project Implementation & Maintenance	Improved riparian & natural stream function	Multiple	A,B	1,2,3,4,5	85,000					85,000
CRITFC	Rob Lothrop, Marianne McClure	Ocean	Identify Human-caused Mortalities to Col. River Anadromous Species in Ocean & Estuary Habitat; Develop & Implement Plan to Address Impacts Through Reporting of Compliance & Non-Compliance of Existing Habitat Protection Laws	Increased survival and return of anadromous species to Columbia River; protect investments of FWP, ensure achievement of FWP goals	All	A,B	TRP	180,000	1,000,000	1,000,000	1,000,000	1,000,000	4,180,000
4 Tribes/CRITFC	Jill Ory	Basinwide	Inventory, Prioritize and Replace Culverts	Reduced sediment, increased survival, restored access to habitat	All	A,B	TRP	900,000	900,000	900,000	900,000	900,000	4,500,000
4 Tribes/CRITFC	Paul Lumley	Basinwide	Tributary Habitat Protection Program	Increased productivity, reduced contamination of fish; protection of FWP investments; ensure FWP goals are met	All	A,B	TRP	150,000	2,600,000	2,600,000	2,600,000	2,600,000	10,550,000
Spirit of the Salmon Fund	Paul Lumley	All	Land & Water Rights Acquisition Fund	Improved habitat & water quality	All	A,B	TRP	150,000	50,000,000	50,000,000	50,000,000	50,000,000	200,150,000
CRITFC (with Ducks Unlimited, Sea Resources, Columbia Land Trust)	Paul Lumley	Lower Columbia	Lower Columbia River Restoration Project (Phase II, Chinook River Tide Gate Removal)	Increased survival, restored habitat, & passage improvement	All	A,B	LCREP	2,500,000	2,000,000	200,000	100,000	100,000	4,900,000

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SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOMES	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/ REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
CRITFC/LCREP	Paul Lumley	Lower Columbia	Lower Columbia River Restoration Project (Discontinue All Dumping of Dredge Spoils in Lower Columbia Estuary)	Reduced tern predation through natural processes, increased salmonid survival	All salmonids	A,B	LCREP	0	0	0	0	0	0
CRITFC/LCREP	Paul Lumley	Lower Columbia	Lower Columbia River Restoration Project (Restore 1300 acres of LCR Habitat-- Bonneville to Mouth)	Improved habitat & water quality, increased flows	All	A,B	LCREP	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
TOTALS								58,188,386	80,789,650	79,310,750	79,732,038	79,911,167	377,931,991

Document code for CTUIR Projects:

- 1: NPPC Fish & Wildlife Program
- 2: Wy-Kan-Ush-Mi Wa-Kish Wit (Spirit of the Salmon): Tribal Salmon Restoration Plan
- 3: NPPC Subbasin Plans (1990)
- 4: CBFWA Subbasin Plan Summaries (DAIWP, 1999)
- 5: Comprehensive Plan for Rehabilitation of Anadromous Fish Stocks in the Umatilla Basin (ODFW, 1996)
- 6: Draft Watershed Assessments, Umatilla & Walla Walla (WSU, 2000)
- 7: Draft Hatchery Master Plans, Umatilla & Walla Walla
- 8: Draft Umatilla TMDL
- 9: Walla Walla River Reconnaissance Report (COE, 1997)
- 10: CTUIR Wildlife Mitigation Plan

Note: The Yakama Nation is submitting comments to NPPC under separate cover. Measures in the Yakama Nation's submittal will take precedence over Yakama Nation measures listed in these tables. If necessary, an updated version of the tables will be made available at a later date.

Table I.C.1.1: Harvest Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOMES	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/ REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
4 Tribes/ CRITFC	Doug Hatch	All	Conduct Analysis of Factors that Limit Production & Productivity. Recommend & Implement Actions to Address Limiting Factors, Pursuant to Habitat & Restoration Agreement of PST	Increased production & survival of naturally spawning salmon	All	A,B	US & Canadian Agreements under the Pacific Salmon Treaty (6/30/99); TRP	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	22,500,000
CRITFC	Mike Matylewich	Mainstem, Zone 6	Search & Recovery of Lost Fishing Gear	Increased survival & passage	Adult salmon & sturgeon	A,B	TRP	100,000	100,000	100,000	100,000	100,000	500,000
CRITFC	Mike Matylewich	Mainstem & all tributaries	Improve Accounting of Tribal Harvest for Mainstem & Tributary Fisheries; Document Mgmt & Reporting	Improved harvest mgmt practices & accounting; increased survival & passage; Achievement of escapement objectives	Adult salmon & sturgeon	A,B	TRP	410,000	410,000	410,000	410,000	410,000	2,050,000
CRITFC	Chief John Johnson	Basinwide	Inter-Tribal Law Enforcement Program	Enforcement of tribal fishing regulations in Zone 6	All	A,B	TRP	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000

Table I.C.1.1: Harvest Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOMES	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
4 Tribes/ CRITFC	Jon Matthews	Basinwide	Fish Marketing Analysis & Implementati on for Tribal Fisheries	Restore some of lost benefit to treaty fishery from hydrosystem development	All	A	TRP	250,000	250,000	250,000	250,000	250,000	1,250,000
CTWS	Patty O'Toole	Deschutes	White River Spring Chinook Terminal Fishery	Increased fishing opportunity	Spring chinook	A	TRP	170,000	170,000	170,000	170,000	170,000	850,000
CRITFC	Mike Matylewich	Snake	Snake River Fall Chinook Radio Tagging Study	Monitoring, research	Fall chinook	A,B	TRP	150,000	420,000	420,000	100,000		1,090,000
CRITFC	Mike Matylewich	Multiple	Steelhead Stock Investigation	Monitoring, research	Steelhead	A,B	TRP	150,000	420,000	420,000	100,000		1,090,000
TOTALS								6,730,000	7,270,000	7,270,000	6,630,000	6,430,000	34,330,000

Document code for CTUIR Projects:

- 1: NPPC Fish & Wildlife Program
- 2: Wy-Kan-Ush-Mi Wa-Kish Wit (Spirit of the Salmon): Tribal Salmon Restoration Plan
- 3: NPPC Subbasin Plans (1990)
- 4: CBFWA Subbasin Plan Summaries (DAIWP, 1999)
- 5: Comprehensive Plan for Rehabilitation of Anadromous Fish Stocks in the Umatilla Basin (ODFW, 1996)
- 6: Draft Watershed Assessments, Umatilla & Walla Walla (WSU, 2000)
- 7: Draft Hatchery Master Plans, Umatilla & Walla Walla
- 8: Draft Umatilla TMDL
- 9: Walla Walla River Reconnaissance Report (COE, 1997)
- 10: CTUIR Wildlife Mitigation Plan

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Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
NPT	Si Whitman	Imnaha	Lostine/ Imnaha Rivers Spring Chinook Supplementation	Prevent Extinction, Promote Recovery, Stock Preservation, ESA Delisting	Spring Chinook	A,B	TRP	100,000					100,000
NPT	Si Whitman	Imnaha	Imnaha River Emigration Study Engineering Evaluation/ Construction	Estimate Juvenile Abundance & Estimate Natural Fish SAR	Chinook, steelhead	A,B	TRP	400,000	400,000	100,000	105,000	110,000	1,115,000
NPT	Si Whitman	Clearwater	Clearwater River Spring Chinook Supplementation	Restore Natural Spawning Populations	Spring chinook	A,B	TRP	100,000					100,000
NPT	Si Whitman	Clearwater	Clearwater River Coho Salmon MonitorinG, Evaluation & Restoration	Restore Natural Spawning Populations	Coho	A,B	TRP	683,000	1,208,000	1,346,000	1,387,000	1,429,000	6,053,000
NPT	Si Whitman	Clearwater	Kooskia National Fish Hatchery Remodel	Make facility independent, produce multiple stocks, provide natural spawners	Spring chinook, coho, steelhead	A,B	TRP	9,250,000	925,000	952,000	978,000	1,007,000	13,112,000
NPT	Si Whitman	Clearwater	Steelhead Supplementation Monitoring & Evaluation	Restore Natural Spawning Populations	Steelhead	A,B	TRP	300,000	320,000	330,000	350,000	360,000	1,660,000
NPT	Si Whitman	Snake/Grande Ronde	Snake River/Lower Grande Ronde River Fall Chinook Supplementation	Prevent Extinction, Promote Recovery, Stock Preservation, ESA Delisting	Fall chinook	A,B	TRP	150,000					150,000
NPT	Si Whitman	Snake	Sturgeon Broodstock/Juvenile Mitigation Facility	Increased production	Sturgeon	A,B	TRP	825,000	650,000	670,000	690,000	710,000	3,545,000
NPT	Si Whitman	Snake	Snake River White Sturgeon Aquaculture	Production	White sturgeon	A,B	TRP	200,000					200,000
NPT	Si Whitman	Snake	Genetic Conservation of Snake River Stocks	Genetic material preservation & storage	Multiple	A,B	TRP	1,230,000	460,000	470,000	488,000	503,000	3,151,000

Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
NPT	Si Whitman	Grande Ronde	Cottonwood Creek, Lower Grande Ronde Acclimation Facility	Increased natural spawning	Fall chinook	A,B	TRP	250,000	350,000	350,000	350,000	350,000	1,650,000
NPT	Si Whitman	Salmon	Johnson Creek Artificial Production & Enhancement, Capital Construction	ESA Recovery & Delisting through Supplementation To Increase Natural Spawning	Summer chinook	A,B	TRP	2,500,000	915,000	943,000	970,000	999,000	6,327,000
NPT	Si Whitman	Snake	Remodel Acclimation Facility at Pittsburgh Landing	ESA Recovery & Delisting through Supplementation To Increase Natural Spawning	Fall chinook	A,B	TRP	150,000					150,000
NPT	Si Whitman	Snake	Remodel Alternate Acclimation Facility at Pittsburgh Landing	ESA Recovery & Delisting through Supplementation To Increase Natural Spawning	Fall chinook	A,B	TRP	1,600,000	400,000	412,000	424,000	437,000	3,273,000
NPT	Si Whitman	Snake	Idaho Power Mitigation & IDFG: 1.0 Million Age-0 Fall Chinook Smolts	ESA Recovery & Delisting through Supplementation To Increase Natural Spawning	Fall chinook	A,B	TRP	2,200,000	650,000	669,000	689,000	709,000	4,917,000
NPT	Si Whitman	Salmon	Emergency Conservation Propagation M.F. Salmon ESA Stocks	Preservation/Recovery through Supplementation To Increase Natural Spawning	Chinook	A,B	TRP	820,000	5,700,000	12,300,000	5,550,000	2,300,000	26,670,000
NPT	Si Whitman	Salmon	Salmon River Summer Chinook Supplementation	ESA Recovery & Delisting through Supplementation To Increase Natural Spawning	Summer chinook	A,B	TRP	200,000					200,000
YN	Lynn Hatcher	Klickitat	Rear 1.0M Washougal Coho to Smolt Size	Increased natural spawning	Coho	A,B	TRP	80,000					80,000

Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
YN FY 2000?	Lynn Hatcher	Wenatchee	Increase Hatchery Water Supply at Chiwawa Rearing Site	Increased natural spawning		A,B	TRP	750,000					750,000
YN	Lynn Hatcher	Klickitat	Mitchell Act Facility Coho Project (Klickitat River)	Increased natural spawning	Coho	A,B	TRP	50,000					50,000
YN	Lynn Hatcher	Yakima	Lower Yakima River Supplementation Program	Increased natural spawning		A,B	TRP	125,000					125,000
YN	Lynn Hatcher	Wenatchee, Methow, Entiat	Develop Acclimation Ponds for Steelhead in Wenatchee, Methow & Entiat Basins	Increased natural spawning	Steelhead	A,B	TRP	750,000					750,000
YN	Lynn Hatcher	Multiple	Purchase Equipment for Yakama Supplementation Programs	Increased natural spawning	Multiple	A,B	TRP	325,000					325,000
YN	Tom Scribner	Klickitat	Spring Chinook Supplementation & Acclimation	Increased survival	Spring chinook	A,B	TRP	500,000	750,000	750,000	750,000	750,000	3,500,000
YN	Tom Scribner	Klickitat	Steelhead Supplementation with Acclimation of Endemic Stock	Increased survival	Steelhead	A,B	TRP	800,000	800,000	750,000	750,000	500,000	3,600,000
YN	Tom Scribner	Klickitat	Fall Chinook Supplementation & Acclimation	Increased survival	Fall chinook	A,B	TRP	500,000	750,000	750,000	750,000	500,000	3,250,000
YN	Tom Scribner	Wenatchee	Adult-Based Supplementation with Acclimation in all Major Tributaries	Increased survival	Spring chinook	A,B	TRP	1,000,000	1,000,000	750,000	750,000	500,000	4,000,000
YN	Tom Scribner	Wenatchee	Summer Chinook Supplementation & Acclimation	Increased survival	Summer chinook	A,B	TRP	750,000	500,000	100,000	100,000	100,000	1,550,000

Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
YN	Tom Scribner	Wenatchee	Steelhead Supplementation & Acclimation in all Major Tributaries	Increased survival	Steelhead	A,B	TRP	500,000	750,000	750,000	750,000	500,000	3,250,000
YN	Tom Scribner	Wenatchee	Coho Restoration	Increased survival	Coho	A,B	TRP	2,048,000	2,226,000	2,259,000	3,352,000	7,357,000	17,242,000
YN	Tom Scribner	Wenatchee, Entiat, Methow	Lamprey Restoration	Increased natural spawning	Lamprey	A,B	TRP	800,000	1,000,000	1,000,000	850,000	850,000	4,500,000
YN	Tom Scribner	Entiat	Utilize Entiat Ntl. Fish Hatchery to Restore Natural Spring Chinook or Change Production to Coho	Increased survival	Spring chinook, coho	A,B	TRP	500,000	300,000	300,000	350,000	350,000	1,800,000
YN	Tom Scribner	Entiat	Enhance ESA-listed Populations in Entiat	Increased survival	Steelhead	A,B	TRP	600,000	750,000	750,000	750,000	750,000	3,600,000
YN	Tom Scribner	Entiat	Restore Natural Populations of Coho	Increased survival	coho	A,B	TRP	300,000	400,000	300,000	400,000	500,000	1,900,000
YN	Tom Scribner	Methow	Expand Adult Outplanting/Supplementation in Methow Basin	Increased survival	Spring chinook	A,B	TRP	600,000	750,000	750,000	750,000	750,000	3,600,000
YN	Tom Scribner	Methow	Steelhead Supplementation with Acclimation Development	Increased survival	Steelhead	A,B	TRP	600,000	750,000	750,000	750,000	750,000	3,600,000
YN	Tom Scribner	Methow	Expand Rearing Capacity at Winthrop Ntl. Fish Hatchery; Build Acclimation Site	Increased survival	coho	A,B	TRP	600,000	750,000	750,000	750,000	750,000	3,600,000
YN	Tom Scribner	Methow	Expansion of Acclimation Sites Using Natural Habitat	Increased survival	Summer chinook	A,B	TRP	750,000	500,000	100,000	100,000	100,000	1,550,000
YN	Tom Scribner	Okanogan	Expansion of Acclimation Sites Using Natural Habitat	Increased survival	Summer chinook	A,B	TRP	750,000	500,000	150,000	150,000	150,000	1,700,000

Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
YN	Tom Scribner	Okanogan	Acclimation Development: Improved Supplementation and Stock Recovery	Increased survival	Steelhead	A,B	TRP	600,000	850,000	850,000	850,000	850,000	4,000,000
YN (with Douglas PUD, other PUD's possible)	Tom Scribner	Okanogan	Sockeye Life History Evaluation, Passage & Production	Increased survival	Sockeye	A,B	TRP	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
YN	Tom Scribner	Okanogan	Restore Coho to Okanogan (Acclimation Development)	Increased survival	Coho	A,B	TRP	600,000	850,000	850,000	850,000	850,000	4,000,000
CTWS	Patty O'Toole	Deschutes	Shitike Creek Adult Spring Chinook Outplanting Project	Increased natural spawning	Spring chinook	A,B	TRP	9,300					9,300
CTWS	Patty O'Toole	Hood	Hood River Production Program	Increased natural spawners and increased fishing opportunity	Spring chinook, winter & summer steelhead	A,B	TRP	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
CTWS	Patty O'Toole	Deschutes	Pacific Lamprey Research, Monitoring & Management Project	Increased production; research, monitoring & evaluation	Pacific lamprey	A,B	TRP	105,000	105,000	105,000	105,000	105,000	525,000
CTUIR	Gary James	Walla Walla	Spring Chinook Holding at Walla Walla Facility	Increased natural spawning	Spring chinook	A,B	TRP	10,000					10,000
CTUIR	Gary James	Multiple	Fish Transportation Vehicle to Release Fish into Habitats	Increased natural spawning	Multiple	A	2,3 4,5	200,000					200,000
CTUIR	Dave Close	Multiple	Freshwater Mussel Research & Restoration	Increased natural production	Freshwater mussel	A,B	TRP	300,000	300,000	300,000	300,000	300,000	1,500,000
CTUIR	Gary James	Grande Ronde	Lookingglass Hatchery Water Quality, Quantity & Treatment	Increased production	Steelhead, spring chinook	A,B	2,3,4	3,000,000					3,000,000

Table I.C.3.1: Production Measures

SPONSOR	CONTACT	SUBBASIN	PROJECT TITLE	EXPECTED OUTCOME	SPECIES	EARLY ACTION CATEGORY	DOCUMENT/REFERENCE	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TOTALS
CTUIR	Gary James	Grande Ronde	Acclimation & Release Facilities-Sheep Creek & Upper Catherine Creek	Increased natural production	Spring chinook, steelhead	A,B	1,2,3,4	140,000	1,000,000	210,000	150,000	150,000	1,650,000
CRITFC	Blaine Parker	Multiple	Mitigate for Lost Production of White Sturgeon	Monitoring, research, increased production	White sturgeon	A,B	TRP	3,500,000	1,500,000	750,000	750,000	750,000	7,250,000
CRITFC	Doug Hatch	Multiple	Assess Resource Loss and Initiate Mitigation Projects for Pacific Lamprey in the Columbia River Basin	Increased production; monitoring, research	Pacific lamprey	A,B	TRP	800,000	1,600,000	20,000,000	30,000,000	20,000,000	72,400,000
4 Tribes	Paul Lumley	Multiple	Transfer of Hatcheries to Tribes	Increased production		A	TRP	31,710,000	2,710,000	4,745,000	2,710,000	2,710,000	44,585,000
TOTALS								78,110,300	35,869,000	59,811,000	62,248,000	52,286,000	288,324,300