

Mainstem/Systemwide
FY 2004 - FY 2006
(Council Approved, 6/11/03)

ID	Title	Sponsor	CBFWA	ISRP	NOAA Fisheries/BPA rank	FY 2004 total	FY 2005 total	FY 2006 total	General Comments
1. Council Staff preferred projects that fit province allocation									
35019	Develop and Implement a Pilot Status and Trend Monitoring Program for Salmonids and their Habitat in the Wenatchee and Grande Ronde River Basins	NMFS	Urgent*	Fundable (Qualified)	2	1,515,000	1,515,000	1,515,000	Adjusted 060403 to reflect BPA revision to budget. As approved by the Council on May 7, 2003.
35033	Collaborative, Systemwide Monitoring and Evaluation Program.	CBFWA	Core Program*	Fundable	2	968,800	968,802	968,802	Check ties to overall CBFWA project (#1989-062-01) for any overlap.
198201301	Coded-Wire Tag Recovery Program	PSMFC	Core Program	Fundable	2	2,028,757	2,028,757	2,028,757	Reduce scope of objectives 1a, 1c, 1d, 3a, 6a and 7b to 2001 levels.
198201302	Annual Stock Assessment - Coded Wire Tag Program (ODFW)	ODFW	Core Program	Fundable	2	217,881	217,881	217,881	
198201304	Annual Stock Assessment - Coded Wire Tag Program (WDFW)	WDFW	Core Program	Fundable	2	319,137	319,137	319,137	
198331900	New Marking and Monitoring Techniques for Fish	NMFS	Urgent	Fundable	1	41,900	-	-	Project is R&D for capitol project 2001-003-00, planning and design should be capital, total reflects only expense portion
198712700	Smolt Monitoring by Federal and Non-Federal Agencies	PSMFC	Core Program	Fundable	1 (RPA N/A); 2 (RPA 180)	1,910,000	1,910,000	1,910,000	
198906500	Annual Stock Assessment - CWT (USFWS)	USFWS	Core Program	Fundable	2	119,268	119,268	119,268	
198909600	Monitor and evaluate genetic characteristics of supplemented salmon and steelhead	NMFS	Urgent	Fundable	2	593,900	460,500	460,500	
199007700	Northern Pikeminnow Management Program	PSMFC	Urgent	Fundable in Part	1	1,435,000	1,435,000	1,435,000	Effort divided into 2 zones, above and below the Dalles Dam. Alternate zones each year.
199008000	Columbia Basin Pit Tag Information System	PSMFC	Core Program	Fundable (Qualified)	1 (RPA 192); 2 (RPA 198)	2,431,442	2,431,442	2,431,442	Address ISRP concerns regarding metadata.

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199009300	Genetic Analysis of <i>Oncorhynchus nerka</i> (modified to include chinook salmon)	UI	Urgent	Fundable	2	126,436	126,000	98,000	Link to programmatic captive broodstock issue.
199302900	Estimate Survival for the Passage of Juvenile Salmonids Through Dams and Reservoirs of the Lower Snake and Columbia Rivers	NMFS	Core Program	Fundable	1 (RPA 185); 3 (RPA 189)	1,884,200	1,884,200	1,884,200	Should be part of programmatic review of PIT tag program.
199305600	Assessment of Captive Broodstock Technologies	NMFS	Urgent	Fundable	2	1,468,100	1,468,100	1,468,100	Link to programmatic captive broodstock issue.
199403300	The Fish Passage Center	PSMFC	Core Program	Fundable	1	1,302,904	1,302,904	1,302,904	
199602000	Comparative Survival Rate Study (CSS) of Hatchery Pit Tagged Chinook & Comparative Survival Study Oversight	PSMFC/CBFWF	Core Program	Fundable (Qualified)	1 (RPA 189); 3 (RPA 187)	1,736,542	1,806,066	1,806,066	Address ISRP concerns, rework funding for mathematical and statistical models for ISRP review
199602100	Gas bubble disease research and monitoring of juvenile salmonids	USGS	Core Program	Fundable	1	16,885	16,885	16,885	
199606700	Manchester Spring Chinook Broodstock Project	NMFS	Urgent	Fundable	2	877,600	792,000	767,200	Link to programmatic captive broodstock issue.
199900301	Evaluate Spawning of Fall Chinook and Chum Salmon Just Below the Four Lowermost Mainstem Dams	PSMFC/ODFW/USFWS/PNNL	Urgent	Fundable	(RPA 199); 1 (RPA 157); 2 (RPA 156); 3 (RPA 155)	779,586	779,586	779,586	Budget revised by Council decision. Need management plan from NMFS.
200000700	Infrastructure to Complete FDA Registration of Erythromycin	UI	Urgent	Fundable	2	160,919	161,000	-	FDA approval seems to be taking too long. Project request funding through 2006. Anticipate completion by 05 with, no funding beyond.
35002	Determine origin, movements and relative abundance of bull trout in Bonneville Reservoir.	WDFW/YN	Urgent	Fundable in Part	USFWS BI-op	293,351	305,000	-	Two year project addresses USFWS Bi-op, according to BPA designation. ISRP recommends only funding the feasibility of bull trout capture in
200001700	Kelt Reconditioning: A Research Project to Enhance Iteroparity in Columbia Basin Steelhead (<i>Oncorhynchus</i>)	CRITFC	Urgent	Fundable	2	555,121	544,119	544,119	Project evaluation in 05 to address concerns raised by ISRP in 2002-14 (Step Review).
198810804	StreamNet	PSMFC	Core Program	Fundable in Part (Qualified)	3	2,261,033	2,261,033	2,261,033	Dependent on coordination of database system issue for subbasin plans.

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198906201	Fish and Wildlife Program Implementation	CBFWA	Core Program	Not Applicable		1,245,700	1,245,700	1,245,700	Revised 061103 by Council decision, objectives 1 and 4 of Section 6 need to be revised to reflect current work plan. Section 7 to be reviewed for
	Request for studies (placeholder)					1,800,000	1,800,000	1,800,000	Placeholder funds for RFP's to address Bi-op gaps.
199800401	Electronic Fish and Wildlife Newsletter		NWPPC responsibility	Fundable		179,800	179,800	179,800	Support information and communication of fish and wildlife news throughout basin.
35010	An Interactive Biodiversity Information System for the Columbia River Basin	NHI	Core Program*	Fundable in Part		432,000	583,902	583,902	Dependent on coordination of database system issue for subbasin plans.
35036	Identify the mechanisms of stranding of juvenile fall chinook salmon in the Hanford Reach	USGS/USFWS	Urgent*	Fundable		250,332	225,868	207,000	Addresses impacts to Hanford fall chinook. Identified by CBFWA as highest priority new projects.
35047	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon Smolts through Snake River Dams	NMFS	High Priority	Fundable	2	1,100,000	1,100,000	1,100,000	Correct budgets are needed.
199105100	Monitoring and Evaluation Statistical Support	UW	Do Not Fund	Fundable	1	394,655	394,655	394,655	NOAA Fisheries/BPA rank 1.
198605000	White Sturgeon Mitigation and Restoration in the Columbia and Snake Rivers Upstream from Bonneville Dam	ODFW	Urgent	Fundable		1,378,916	1,378,916	1,251,803	Project reduced, hatchery component removed. Fund Section 5 Task 1a. Section 7 tasks 1c, 3a, b (complete by 2005) and 3c. CBFWA had
199705900	Securing Habitat Mitigation Sites - Oregon	OMC	Urgent	Fundable (Qualified)		123,000	123,000	80,187	Land Acquisition/ CI removed @ \$1.8, \$3.0 and \$3.0 million for '03 to '05. Costs reflect only ongoing O&M expense.
199601900	Second-Tier Database Support	UW	Do Not Fund	Fundable	2 (RPA 198); 3 (RPA 180)	275,111	264,075	264,075	Identified as Bi-op critical.
199803100	Implement Wy-Kan-Ush-Mi Wa-Kish-Wit Watershed Assessment and Restoration Plan Now	CRITFC	Core Program	Fundable (Qualified)		314,093	314,093	314,093	
200002900	Identification and thermal requirements of larval Pacific, river, and western brook lampreys	USGS, CRRL	Urgent	Fundable		186,945	75,000	-	Relatively small dollar figure for two year ongoing.

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						FY 2004 total	FY 2005 total	FY 2006 total	General Comments
ID	Title	Sponsor	CBFWA	ISRP	NOAA Fisheries/BPA rank				
Total Tier 1						30,724,314	30,537,689	29,755,095	
2. Projects that Council staff would recommend if funding becomes available									
35012	Spatial scales of homing and the efficacy of hatchery supplementation of wild populations	NMFS	High Priority	Fundable	2	370,100	369,000	387,000	Identified as Bi-op critical
35029	Transfer IHN virus genetic strain typing technology to fish health managers	USGS	High Priority	Fundable	2	116,479	149,816	149,816	Identified as Bi-op critical
35039	The influence of hatcheries and their products on the health and physiology of naturally rearing fish	USGS	High Priority	Fundable	2	303,448	652,993	814,700	Identified as Bi-op critical
35030	Evaluate potential to enhance spawning of summer/fall chinook salmon in the tailrace of Chief Joseph Dam, Columbia River	PNNL/CCT	Urgent	Fundable		25,000	125,000	125,000	Identified as Bi-op critical
35052	Conservation Enforcement to Enhance and Restore Fish & Wildlife Resources of the Upper Columbia River under Jurisdiction of the Colville Tribes	CCT	Urgent	Fundable		239,218	235,418	235,418	Other funding sources?
195505500	Umatilla Tribal Fish & Wildlife Enforcement	CTUIR	Urgent	Fundable		108,320	108,320	108,320	Other funding sources?
200005500	Enhanced Conservation Enforcement for Fish & Wildlife, Watersheds of the Nez Perce	NPT	Urgent	Fundable		511,210	511,210	511,210	Other funding sources?
200005600	Protect Anadromous Salmonids in the Mainstem Corridor	CRITFC	Urgent	Fundable		435,787	435,787	435,787	Other funding sources?
35046	Estimate juvenile salmon residence in the Columbia River Plume using micro-acoustic transmitters.	NMFS	High Priority	Fundable (Qualified)	1 (RPA 197); 2 (RPA 195)	96,300	417,500	430,000	Correct budgets are needed, capital determination, large portions of project involve equipment installation for tracking that appear to be capital.
198910700	Statistical Support for Salmonid Survival Studies	UW	Do Not Fund	Fundable	1 (RPA 188); 2 (RPA 195)	265,850	265,850	265,850	Based on NMFS comments of January 21.

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35007	Evaluate Restoration Potential of Snake River Fall Chinook Salmon Spawning Habitat	PNNL	Recommended Action	Fundable	2 (RPA 155); 3 (RPA 180)	564,200	423,300	-	Correct budgets are needed. Potential management actions as a result of this project?
Total Tier 2						3,035,912	3,694,194	3,463,101	
TOTAL Tier 1 and 2						33,760,226	34,231,883	33,218,196	
Capital Projects recommended by staff									
198331900	New Marking and Monitoring Techniques for Fish	NMFS	Urgent	Fundable	1	836,100	1,032,300	508,600	Project is R&D for capital project 200100300, planning and design should be capital
200100300	ISO Adult Pit Interrogation System Installations	PSMFC	Core Program	Fundable	1	1,972,106	1,660,200	665,000	Capital project not counted toward expense budget
199705900	Securing Habitat Mitigation Sites - Oregon	OMC	Urgent	Fundable (Qualified)		2,140,000	3,340,000	3,000,000	Land Acquisition/ CI removed @ \$1.8, \$3.0 and \$3.0 million for '03 to '05, budget here reflects capital component.
TOTAL Capital						4,948,206	6,032,500	4,173,600	
TOTAL Capital and Tier 1						35,672,520	36,570,189	33,928,695	
3. Other projects not recommended by staff									
35001	Habitat Monitoring and Restoration Program for the Lower Columbia River and Columbia River Estuary	LCREP	Withdrawn	Withdrawn					

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35041	Monitoring the reproductive success of naturally spawning hatchery and natural spring chinook salmon in the Wenatchee, Tucannon, and Kalama Rivers	WDFW/NMFS	Urgent	Fundable	2				
35024	Evaluating the sublethal impacts of current use pesticides on the environmental health of salmonids in the Columbia River Basin	NMFS	Urgent	Fundable	2				
35027	Evaluation of Two Captive Rearing Methods for Assisting with Recovery of Naturally Spawning Populations of Steelhead and Coho Salmon	USFWS	Urgent	Fundable	2				
199702400	Avian Predation on Juvenile Salmonids in the Lower Columbia River	OSU/USGS/CRI TFC/RTR	Urgent	Fundable	1 (RPA 102); 3 (RPA 186)				Not deemed responsibility of ratepayers, COE should fund to attempt to resolve responsibility under lawsuit.
199105500	Natural Rearing Enhancement Systems (NATURES)	NMFS	Urgent	Fundable	2				Currently being implemented (e.g. NPTH and Cle Elum). Staff does not see the need to fund this project given the work in the provinces.
200100700	Evaluate live capture selective harvest methods for commercial fisheries on the Columbia River	ODFW/WDFW	Urgent	Fundable in Part	2				Project was originally billed as innovative evaluation of technology. Have not proven that they can prosecute the fishery without
35003	Vitality based studies of Delayed Mortality	UW	Recommended Action	Fundable					
35004	Harvest Model Development	UW	Do Not Fund	Do Not Fund					
35005	Independent Economic Analysis Board	NPPC	NWPPC responsibility	Not Applicable					
35006	Use of Mainstem Habitats by Juvenile Pacific Lamprey (Lampetra tridentata)	PNNL	Recommended Action	Fundable					
35008	Systemwide Lamprey Program Coordinator	USGS	High Priority	Fundable in Part					

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35009	Evaluate Status of Pacific Lamprey in the Willamette River Subbasin	ODFW	High Priority	Fundable					
35011	The Floating Net Pen Transportation System Pilot Project	CBFR LLC	Do Not Fund	Do Not Fund					
35013	Species- and site-specific impacts of gas supersaturation on aquatic animals	USGS	High Priority	Fundable in Part					
35014	Measurement of Quantitative Genetic Variation Among Columbia River Basin Chinook Propagation Programs	CRITFC	High Priority	Fundable					
35015	Replicated stream system for the evaluation of hatchery and wild juvenile salmonid interaction and development of innovative culture technologies	UI/CRITFC	High Priority	Do Not Fund					
35016	A Pilot Study to Test Links Between Land Use / Land Cover Tier 1 Monitoring Data and Tier 2 and 3 Monitoring Data	NMFS	High Priority	Do Not Fund	2				
35017	Inventory and Synthesis of Physical Process Models and Methods to Supplement Habitat Conditions Analysis and Subbasin Planning	KWA/Golder	Recommended Action	Do Not Fund					
35018	Evaluate recreational and commercial mark-selective fisheries.	WDFW/UI	Withdrawn	Withdrawn					
35020	Regional Project Effectiveness Monitoring Program for Columbia River Basin Listed Anadromous Salmonids.	NMFS	Urgent	Do Not Fund	2				
35021	Purchase And Evaluation of Automated Marking and Tagging Systems (MATS)	ODFW	Recommended Action	Do Not Fund					
35022	Habitat Mitigation Tracking System		Do Not Fund	Fundable (Qualified)					
35023	Establish Relationship between Fish Passage Survival and Turbine Operating Efficiency		Do Not Fund	Do Not Fund					

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35025	Optimization of FCRPS Impacts on Juvenile Salmonids: Restoration of Lower-Estuary and Plume Habitats	OHSU	Recommended Action	Fundable					
35026	On-line Subbasin Planning/Watershed Newsletter		Recommended Action	Fundable					
35028	Evaluate White Sturgeon Nutritional Needs & Contaminant Effects Influenced by the Hydroelectric System	PSU	Recommended Action	Fundable					
35031	Tagging Study Technical Committee	BPA	Recommended Action	Do Not Fund					
35032	Assess the Feasibility of Reducing Predation on Juvenile Salmonids in the Columbia River Through Operation of the Hydronower System	USGS, CRRL; ODFW	High Priority	Do Not Fund					
35034	Fish Behavioral Guidance Through Water Velocity Modification PHASE ONE	NS	Recommended Action	Fundable					
35035	Incorporating Pit Tag Technology to Evaluate and Monitor the Reintroduction Effort for Anadromous Salmonids in the Upper Cowlitz Watershed	WDFW	Recommended Action	Do Not Fund					
35037	Measuring the potential for domestication selection of spawn timing in chinook captive and supplementation programs; implications for recovery.	UW/NMFS	Recommended Action	Fundable					
35038	Develop Computational Fluid Dynamics Model to Predict Total Dissolved Gas Below Spillways	ENSR	Do Not Fund	Fundable					
35040	Determination of post-release survival of spring chinook salmon in a mark-selective sport fishery	PNNL	Recommended Action	Do Not Fund					
35042	Evaluate the Effects of Prey Availability on Recruitment of White Sturgeon in the Columbia River	USGS	High Priority	Fundable					

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35043	Monitoring and Models for Adaptive Management of White Sturgeon	USGS	Recommended Action	Fundable					
35044	Determine Effects of Contaminants on White Sturgeon Reproduction and Parental Transfer of Contaminants to Embryos in the Columbia River Basin	OSU	High Priority	Fundable					
35045	Modeling and Information Management System to Assess Effectiveness of Alternative Actions	PNNL	Recommended Action	Do Not Fund					
35048	NWFSC Salmon Data Management, Analysis, and Access for Research Monitoring and Evaluation Programs	NMFS	Recommended Action	Do Not Fund (Qualified)	2				
35049	A multiscale evaluation of steelhead supplementation in the West Fork Elochoman River	NMFS	High Priority	Fundable					
35050	UW Offsite Habitat and Fish Survival Effectiveness Monitoring	UW	Do Not Fund	Do Not Fund					
35051	Evaluate Feasibility of a System-wide Multi-Agency Fish, Wildlife & Habitat Conservation Enforcement Web-Based Data Center		Recommended Action	Fundable					
35053	Biological Feasibility of Reintroducing Fishwheels to the Columbia River System		Recommended Action	Do Not Fund					
35054	Engaging the Public in Watershed Planning; A Tool Box for Cultural Shift	CBFWA	Recommended Action	Do Not Fund					
35055	Role of Bacteria as Indicator Organisms for Watershed Assessment and in Determining Fish Pathogen Relationships with Fauna of Abernathy Creek	USFWS	Recommended Action	Do Not Fund					
35056	Develop Human Resources Necessary to Exercise Co-Management Responsibilities	CRITFC	Recommended Action	Do Not Fund					

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35057	Habitat Condition and Restoration Potential of Columbia River Flood Plains: A Critical, Missing Element of Fisheries Recovery Science and Policy	UM	Recommended Action	Fundable (Qualified)					
35058	Evaluation of food availability and juvenile salmonid growth rates under differing thermal and sediment regimes.	CRITFC	Do Not Fund	Do Not Fund					
35059	Rapid Detection of White Sturgeon Iridovirus in Spawning Fluids, Eggs and Juvenile Tissues of White Sturgeon	USFWS	Do Not Fund	Do Not Fund					
35060	Instream evaluation of populations, migration, individual adult return and wild-hatchery interactions of naturally produced salmonids	USFWS	High Priority	Fundable					
35061	Prophylactic Treatments for White Sturgeon Infected with the White Sturgeon Iridovirus (WSIV)	USFWS	Do Not Fund	Do Not Fund					
35062	Impacts of Flow Regulation on Riparian Cottonwood Ecosystems in the Columbia River Basin	UI	High Priority	Fundable (Qualified)					
35063	Compare Bacterial Fish Pathogen Populations in Hatchery Water and in Adjacent Creek Water and Evaluate Possible Disease Transfer	USFWS	Recommended Action	Do Not Fund					
35064	An Acoustic Tracking Array for Studying Ocean Survival and Movements of Columbia River Salmon	Kintama Corp	TBD - Do Not Fund (Estuary)	Fundable in Part (Qualified)					
35065	Canada-USA Shelf Salmon Survival Study	DFO	TBD - Do Not Fund (Estuary)	Fundable in Part (Estuary)					
198740100	Assessment of Smolt Condition: Biological and Environmental Interactions	USGS	High Priority	Fundable in Part (Qualified)	3				
198907201	Independent Scientific Advisory Board Support	DOE/ORNL	NWPPC responsibility	Not Applicable					Placeholder

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199600500	Independent Scientific Advisory Board	CBFWF	NWPPC responsibility	Not Applicable					Placeholder
199800800	Regional Forum Facilitation Services	NMFS	Core Program	Fundable (Qualified)					
200005200	Upstream migration of Pacific lampreys in the John Day River: behavior, timing, and habitat use	USGS	High Priority	Fundable					
						38,708,432	40,264,383	37,391,796	