



DATE: March 17, 2006

TO: Mainstem and Systemwide Review Team

FROM: Tom Iverson, CBFWA staff 

SUBJECT: Support material for March 20, 2006 Mainstem and Systemwide proposal review meeting

Please find attached several support documents for the first meeting of the Mainstem and Systemwide Review Team (MSRT) on March 20, 2006.

- 1) Draft Agenda – There will be an opportunity to discuss the organization of the meeting and the expected outcomes; the agenda may be modified at the start of the meeting.
- 2) Draft Project Review Criteria – The project review criteria used by CBFWA in the last rolling province review have been provided as a starting point for developing review criteria for the MSRT.
- 3) Draft Project Prioritization Categories – The project prioritization categories used by CBFWA in the last rolling province review have been provided as a starting point for developing prioritization criteria for the MSRT.
- 4) Draft list of projects for the Mainstem and Systemwide review – The projects have been sorted into compartments and sub-compartments in order to facilitate reviewing similar projects at the same time.

As a reminder, the expectation for Monday's meeting is to develop the process that the MSRT will use for reviewing project proposals and providing recommendations to the Northwest Power and Conservation Council. The work group will not necessarily be balancing the budget for this group of projects, but will be focused on determining the priority work needed within this group of proposals.

Please call me, 503-229-0191, or Patty O'Toole, NPCC staff 503-222-5161, with questions.

**Mainstem and Systemwide Review Team
March 20, 2006
10 am to 4 pm
13th Floor Conference Room
851 SW Sixth Ave
Portland, Oregon 97204**

Teleconference Number
503-229-0191 ext. 7097

DRAFT Agenda

- Item 1:** Introductions
- Item 2:** Background and Expectations of Work Group
- Item 3:** Discuss compartment priorities
- Final priorities will be completed by March 31
- Item 4:** Develop review criteria
- Item 5:** Develop prioritization categories
- Item 6:** Set up review schedule
- Available dates April 13, 14, 17, 18, and 19

Support material will be provided prior to the meeting.

Table 1. The CBFWA subbasin project review criteria (2001-2003 Rolling Province Review).

Technical Criteria	
1. Does the proposal demonstrate that the project uses appropriate scientifically valid strategies or techniques and sound principles (best available science)?	Y or N
2. Are the objectives clearly defined with measurable outcomes and tasks that contribute toward accomplishment of the objectives?	Y or N
3. Are the resources proposed (staff, equipment, materials) appropriate to achieve the objectives and time frame milestones?	Y or N
4. Does the proposal include monitoring and evaluation to determine whether objectives are being achieved (including performance measures/methods) at the project level?	Y or N
5. Will the proposed project significantly benefit the target species/ indicator populations?	Y or N
6. Does the proposal demonstrate that project benefits are likely to persist over the long term and will not be compromised by other activities in the basin?	Y or N
7. Does the proposal demonstrate that all reasonable precautions have been taken, to not adversely affect habitat/populations of wildlife, native resident and anadromous fish?	Y or N
8. Are there explicit plans for how the information, technology etc. from this project will be disseminated or used?	Y or N
Management Criteria	
1. Does the proposed project address fish and wildlife related objectives, strategies, needs and actions as identified in the <i>appropriate guidance documents</i> *?	Y or N
2. Does the project address an urgent requirement or threat to population maintenance and/or habitat protection (i.e., threatened, endangered or sensitive species)?	Y or N
3. Does the project promote/maintain sustainable and /or ecosystem processes or maintain desirable community diversity?	Y or N
4. Is there cost share for the construction/implementation and/or monitoring and evaluation of the project?	Y or N
5. Will the project complement management actions on private, public and tribal lands and does the project have demonstrable support from affected agencies, tribes and public?	Y or N
6. Will the project provide data critical for in season, annual and/or longer term management decisions?	Y or N
7. Will this project provide or protect riparian or other habitat that may benefit both fish and wildlife?	Y or N

* For the FY 2007-2009 review, “*appropriate guidance document*” replaces references to subbasin summaries and program summaries.

Table 2. The CBFWA prioritization categories (2001-2003 Rolling Province Review).

- Core Program - These projects are integral to the infrastructure and/or information needs of the F&W Program in the Columbia River Basin for planning and management.
- High Priority - These projects or tasks within a project are high priority within the Program. The project addresses a specific need within an *appropriate guidance document*.*
- Recommended Actions - These are good projects that cannot demonstrate a significant loss by not being funded this year. These projects should be funded, but under a limited budget, they could be delayed temporarily without significant loss.
- Do not fund - These projects are either technically inadequate or do not address a need within an *appropriate guidance document*. * These projects may be inappropriate for BPA funding.

* For the FY 2007-2009 review, “*appropriate guidance document*” replaces references to subbasin summaries and program summaries.

Table 3. FY 2007-2009 Mainstem and Systemwide Project Proposals sorted by compartment and sub-compartment.

Proposal Number	Title	Compartment	Sub-compartment	Organization
198906201	Annual Work Plan CBFWA	Coordination	F&W Manager Participation	Columbia Basin Fish & Wildlife Authority (CBFWA)
199803100	Implement Wy-Kan-Ush-Mi Wa-Kis	Coordination	F&W Manager Participation	Columbia River Inter-Tribal Fish Commission (CRITFC)
200710600	Spokane Tribe Fish and Wildlife Planning and Coordination	Coordination	F&W Manager Participation	Spokane Tribe
200710800	Regional Coordination for Upper Columbia United Tribes	Coordination	F&W Manager Participation	Upper Columbia United Tribes
200711700	Comprehensive Assessment of Coho Salmon Restoration Efforts in the Mid-Columbia and Mid-Snake River Basins	Coordination	F&W Manager Participation	Columbia River Inter-Tribal Fish Commission (CRITFC)
200716200	Kalispel Tribe Fish and Wildlife Coordination	Coordination	F&W Manager Participation	Kalispel Tribe
199800401	Columbia Basin Bulletin	Coordination	Information	Intermountain Communications
200728000	Columbia River Basin Journal	Coordination	Information	Intermountain Communications
199600500	ISAB	Coordination	Program support	Northwest Power and Conservation Council
200702500	Project Compliance Monitoring	Coordination	Program support	XLSolutions
200303600	CBFWA Collaborative Systemwide Monitoring and Evaluation Program	Coordination	Regional M&E	Columbia Basin Fish & Wildlife Authority (CBFWA)
200400200	Pnamp Funding	Coordination	Regional M&E	US Geological Survey (USGS) - Cook
200700100	Aquatic survey protocol comparison.	Coordination	Regional M&E	US Forest Service - National Headquarters
198810804	StreamNet (CIS/NED)	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
200307200	Habitat and Biodiversity Information System For Columbia River Basin	Data Management	Database	Northwest Habitat Institute

Proposal Number	Title	Compartment	Sub-compartment	Organization
200700900	A Spatially Explicit & Web-accessible Database for Managing the Impacts of Expanding Colonial Waterbird Populations on Juvenile Salmonids (<i>Oncorhynchus</i> spp.) in the Columbia River Basin	Data Management	Database	Northwest Fisheries Science Center
200704700	Hydrography Spatial Data Enhancement Project - WDFW & WDNR Operational Data Updates and Integration to the PNW Hydrography Clearinghouse for the WA Columbia Basin	Data Management	Database	Interagency Committee (IAC)
200720000	Idaho Subbasin Planning and Comprehensive Wildlife Conservation Strategy (CWCS) Data Distribution System	Data Management	Database	Idaho Department of Fish & Game
200725400	StreamNet Support and Services for Conservation and Recovery Data Needs	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
200731300	Expanded Acquisition and Display of Fish (Initially Anadromous Salmonids) Harvest Data in the StreamNet Database	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
200731400	Regional Consolidation of Habitat Restoration Project Information From Multiple Funding Sources with Dissemination Through the StreamNet Website	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
200732700	Compilation of Location-Specific Hatchery Release Data in Consistent Format Across Agencies by StreamNet	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
200735200	Feasibility Study and Implementation of a System-wide Conservation Enforcement Web-Based Data Center	Data Management	Database	Steven Vigg & Company
200738800	Fish Passage Data System (Key Functions Previously Performed by the Fish Passage Center)	Data Management	Database	Pacific States Marine Fisheries Commission (PSMFC)
199008000	Columbia Basin Pit-Tag Information System.	Data Management	Hydro passage monitoring	Pacific States Marine Fisheries Commission (PSMFC)

Proposal Number	Title	Compartment	Sub-compartment	Organization
199601900	Technical Management Team (TMT)	Data Management	Hydro passage monitoring	University of Washington
200728700	Delivering Reliable Fish Passage Information for Hydrosystem Management	Data Management	Hydro passage monitoring	Pacific Northwest National Laboratory
200730000	Fish Passage Technical Services Project	Data Management	Hydro passage monitoring	Columbia River Inter-Tribal Fish Commission (CRITFC)
200732100	Data Management for System Operations	Data Management	Hydro passage monitoring	Columbia Basin Fish & Wildlife Authority (CBFWA)
200732600	Monitoring of juvenile and adult salmonid survival through the Federal Columbia River Power System	Data Management	Hydro passage monitoring	Washington Department of Fish and Wildlife (WDFW)
199007700	Dev Of Systemwide Predator Control for Northern Pikeminnows.	Habitat	Predator Control	Pacific States Marine Fisheries Commission (PSMFC)
199702400	Avian Predation on Juvenile Salmonids in the Lower Columbia River	Habitat	Predator Control	Oregon State University
198605000	White Sturgeon Mitigation and Restoration in the Columbia and Snake Rivers Upstream from Bonneville Dam	Habitat	Sturgeon	Oregon Department of Fish & Wildlife (ODFW)
200201301	Water Entity (Rpa 151) NWPPC	Habitat	Water/land Acquisition	National Fish & Wildlife Foundation
200301700	Integrated Status and Effectiveness Monitoring Program (ISEMP): The design and evaluation of monitoring tools for salmon populations and habitat in the Interior Columbia River Basin.	Monitoring and Evaluation	Habitat	Northwest Fisheries Science Center
200717600	A Freshwater Mussel Watch for Biomonitoring in the Columbia River Basin	Monitoring and Evaluation	Habitat	Confederated Tribes of the Umatilla Indian Reservation
200726700	Probabilistic Monitoring of the Status and Trends of Habitat, Water Quality, and Fish Presence in the Washington Portion of the Columbia River Basin	Monitoring and Evaluation	Habitat	Interagency Committee (IAC)

Proposal Number	Title	Compartment	Sub-compartment	Organization
200723800	Providing Services to Assist Record Keeping of Over the Bank Sales in Zone 6 Tribal Fisheries	Monitoring and Evaluation	Harvest	Steven Vigg & Company
198201301	Coded-Wire Tag Recovery	Monitoring and Evaluation	Hatchery effectiveness	Pacific States Marine Fisheries Commission (PSMFC)
198201302	Annual Stock Assessment - Coded Wire Tag Program (ODFW)	Monitoring and Evaluation	Hatchery effectiveness	Oregon Department of Fish & Wildlife (ODFW)
198201303	Coded Wire Tag - USFWS	Monitoring and Evaluation	Hatchery effectiveness	US Fish & Wildlife Service (USFWS)
198201304	Coded Wire Tag - WDFW	Monitoring and Evaluation	Hatchery effectiveness	Washington Department of Fish and Wildlife (WDFW)
198712700	Smolt Monitoring By Non-Feder	Monitoring and Evaluation	Hydro passage effectiveness	Pacific States Marine Fisheries Commission (PSMFC)
198910700	Statistical Support For Salmonid Survival Studies	Monitoring and Evaluation	Hydro passage effectiveness	University of Washington
199105100	M&E Statistical Support For Life-Cycle Studies	Monitoring and Evaluation	Hydro passage effectiveness	University of Washington
199302900	Survival Estimates for the Passage of Juvenile Salmonids Through Snake and Columbia River Dams and Reservoirs	Monitoring and Evaluation	Hydro passage effectiveness	Northwest Fisheries Science Center
199602000	Pit Tagging Spring/Summer Chin	Monitoring and Evaluation	Hydro passage effectiveness	Columbia River Fisheries Program Office
199602100	Gas Bubble Disease Reseach & Monitoring of Juvenile Salmonids	Monitoring and Evaluation	Hydro passage effectiveness	Columbia River Research Laboratory
200203200	Snake River fall Chinook salmon life history investigations	Monitoring and Evaluation	Hydro passage effectiveness	US Geological Survey (USGS) - Cook
200703300	Monitor sub adult and adult bull trout passage through Lower Granite, Little Goose and Lower Monumental juvenile bypass facilities.	Monitoring and Evaluation	Hydro passage effectiveness	US Fish & Wildlife Service (USFWS)
199900301	Evaluate Spawning of Fall Chinook and Chum Salmon Just Below the Four Lowermost Mainstem Dams	Monitoring and Evaluation	Population status	Oregon Department of Fish & Wildlife (ODFW)

Proposal Number	Title	Compartment	Sub-compartment	Organization
200500200	Operation of the Lower Granite Dam Adult Trap	Monitoring and Evaluation	Population status	Northwest Fisheries Science Center
200701400	Stock specific run timing and upstream migration mortality of adult Chinook and sockeye salmon and steelhead through PIT tagging and genetic analyses at Bonneville Dam.	Monitoring and Evaluation	Population status	Columbia River Inter-Tribal Fish Commission (CRITFC)
200707800	Characterizing the Geographic Distribution of Freshwater Mussels in the Columbia Basin Using Museum Collection Data.	Monitoring and Evaluation	Population status	Washington Department of Fish and Wildlife (WDFW)
200708900	Monitoring Invasive Species in the mainstem Columbia River: the development of a design to monitor the status and trends and provide for the early detection of invasive species	Monitoring and Evaluation	Population status	US Geological Survey (USGS) - Cook
200716500	Relative abundance, distribution, and population structure of lampreys in the Columbia River Basin	Monitoring and Evaluation	Population status	Columbia River Research Laboratory
200725300	Monitoring of Adult Abundance and Spatial Distribution for Snake River Spring/Summer Chinook Salmon ESU Populations	Monitoring and Evaluation	Population status	Nez Perce Tribe / Idaho Department of Fish and Game
200725800	Development of reliable ESU-specific estimates of escapement, harvest, and straying for adult anadromous salmonids migrating through the Federal Columbia River Power System.	Monitoring and Evaluation	Population status	University of Idaho
200728100	Washington Salmonid Abundance and Productivity Monitoring Framework	Monitoring and Evaluation	Population status	Washington Department of Fish and Wildlife (WDFW)
200735300	Quantitative and effective analysis of Columbia River Chinook salmon (<i>Oncorhynchus tshawytscha</i>) and steelhead (<i>O. mykiss</i>) population viability.	Monitoring and Evaluation	Population status	Columbia River Inter-Tribal Fish Commission (CRITFC)
200600600	Habitat Evaluation Procedures (HEP)	Monitoring and Evaluation	Project effectiveness	Columbia Basin Fish & Wildlife Authority (CBFWA)

Proposal Number	Title	Compartment	Sub-compartment	Organization
199405400	Migratory Patterns, Structure, Abundance and Status of Bull Trout Populations in Subbasins of the Columbia Gorge, Columbia Plateau and Blue Mountain Provinces	Multi-province		Oregon Department of Fish & Wildlife (ODFW)
199606700	Manchester Spring Chinook Captive Broodstock Project	Multi-province		National Oceanic & Atmospheric Administration (NOAA)
199703800	Listed Stock Chinook Salmon Gamete Preservation	Multi-province		Nez Perce Tribe
199706000	Focus Watershed Coordinator - Nez Perce Tribe	Multi-province		Nez Perce Tribe
200206000	Nez Perce Harvest Monitoring	Multi-province		Nez Perce Tribe
200718300	Restoration of Historical Salmonid Habitat in South West Idaho	Multi-province		Southwest Idaho RC&D
200722300	Genetic characteristics and movement patterns of bull trout populations between Chief Joseph and McNary Dams, within the Columbia Cascade and Columbia Plateau Provinces	Multi-province		US Fish & Wildlife Service (USFWS)
198909600	Genetic Monitoring of Snake River Chinook Salmon and Steelhead	Research	Artificial Production	Northwest Fisheries Science Center
199305600	Research to advance hatchery reform, including captive broodstocks	Research	Artificial Production	Northwest Fisheries Science Center
200001700	Recondition Wild Steelhead Kelt	Research	Artificial Production	Columbia River Inter-Tribal Fish Commission (CRITFC)
200305000	Eval Of Reprod Of Steelhead	Research	Artificial Production	University of Washington
200305400	Repro Of Steelhead In Hood River	Research	Artificial Production	Oregon State University
200306000	Evaluating relative reproductive success of wild and hatchery origin Snake River fall Chinook spawners upstream of Lower Granite Dam	Research	Artificial Production	Washington Department of Fish and Wildlife (WDFW)
200306200	Evaluate the Relative Reproductive Success of Reconditioned Kelt Steelhead	Research	Artificial Production	Columbia River Inter-Tribal Fish Commission (CRITFC)

Proposal Number	Title	Compartment	Sub-compartment	Organization
200711000	Differences in Functional Genes Between Hatchery and Wild Chinook Salmon	Research	Artificial Production	University of Idaho - Aquaculture Research Institute
200715500	Develop a Master Plan for a Rearing Facility to Enhance Selected Populations of White Sturgeon in the Columbia River Basin	Research	Artificial Production	Columbia River Inter-Tribal Fish Commission (CRITFC)
200717700	Protecting wild steelhead populations by minimizing the behavioral differences between hatchery and wild populations.	Research	Artificial Production	Northwest Fisheries Science Center
200722700	Rapid DNA Profiling of Hatchery and Wild Salmon Stocks with Single Nucleotide Polymorphism (SNP) Profiling	Research	Artificial Production	Pacific Northwest National Laboratory
200729400	Control of BKD by Inactivation of the Renibacterium salmoninarum Sortase Enzyme as an Alternative to Antibiotics	Research	Artificial Production	Northwest Fisheries Science Center
200723600	Strategic Adaptation of the Federal Columbia River Power System to Climate Variability and Change	Research	Climate change	Portland State University
200303800	Evaluate Restoration Potential of Snake River Fall Chinook Salmon Spawning Habitat	Research	Habitat	Pacific Northwest National Laboratory
200713600	Beavers as stream restorationists? Determining Systemwide status and trends in beaver impoundments in tributary streams, and the relationships between beaver impoundment and salmonids.	Research	Habitat	University of Idaho
200715100	Nutrient Enhancement Business Plan	Research	Habitat	Lower Columbia Fish Enhancement Group
200718000	Evaluating and prioritizing restoration of riparian habitat for improving in-stream conditions for anadromous salmonids in the Columbia River basin.	Research	Habitat	US Forest Service (USFS) - Pacific Northwest Research Station

Proposal Number	Title	Compartment	Sub-compartment	Organization
200725200	Multi-scale assessment of hyporheic flow, temperature and fish distribution in Columbia River Tributaries	Research	Habitat	Confederated Tribes of the Umatilla Indian Reservation
200725600	Physical and Biological Testing of a Flow Velocity Enhancement System	Research	Habitat	Natural Solutions
200726200	Enhanced Landscape Classification to Improve Assessment of Conservation Restoration and Mitigation Projects	Research	Habitat	Pacific Northwest National Laboratory
200710700	What was old is new again: evaluate the pound net and beach seine as innovative live capture selective harvest gears	Research	Harvest	Washington Department of Fish and Wildlife (WDFW)
200723000	Selective Gear Demonstration Project: Reef Net Fishing Gear for Lower Columbia River Commercial Salmon Fishery	Research	Harvest	Washington Sea Grant Program
200724900	Evaluation of Live Capture, Selective Fishing Gear	Research	Harvest	Colville Confederated Tribes
200737900	Surveying Jobs that Depend on the Existence of Lower Snake River Reservoirs	Research	Human development	bluefish.org
199102900	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Research	Hydrosystem	US Fish & Wildlife Service (USFWS)
200202700	Forecasting Hydrosystem Operations to Benefit Anadromous Fish Migration	Research	Hydrosystem	US Department of Energy (DOE)
200304100	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Research	Hydrosystem	Northwest Fisheries Science Center
200736400	Determining the effects of load following on reservoir hydraulics and migration behavior of juvenile salmonids.	Research	Hydrosystem	Columbia River Research Laboratory
200737400	Investigating Juvenile Salmonid Mortality Associated with Lock Flushing	Research	Hydrosystem	bluefish.org
200737700	Cooler Temperatures for Federally Controlled Reservoirs	Research	Hydrosystem	bluefish.org

Proposal Number	Title	Compartment	Sub-compartment	Organization
200737800	Investigating Reservoir Sediment Concerns of a Restored Free-Flowing Lower Snake River	Research	Hydrosystem	bluefish.org
200738000	Keeping Irrigators Whole in the Event of Reservoir Removal	Research	Hydrosystem	bluefish.org
200738300	Keeping Commodity Shippers Whole in the Event of Reservoir Removal	Research	Hydrosystem	bluefish.org
200738400	Reducing the Cost of Reservoir Removal	Research	Hydrosystem	bluefish.org
200738500	Investigating Flood Control Benefits and Flooding Risks of Federally Controlled Lower Snake Dams	Research	Hydrosystem	bluefish.org
200738600	Estimating Bonneville Power Administration Revenue Effects in the Event of Reservoir Removal	Research	Hydrosystem	bluefish.org
200727500	Impact of American shad in the Columbia River	Research	Invasive species	Columbia River Research Laboratory
198331900	New Marking & Monitoring Tech	Research	monitoring and Evaluation	National Oceanic & Atmospheric Administration (NOAA)
200100300	Adult Pit Detector Installation	Research	monitoring and Evaluation	Pacific States Marine Fisheries Commission (PSMFC)
200713100	Screening diversions for conservation of fish populations in the Columbia River Basin: entrainment losses, prioritization, and the efficacy of alternative technology designs	Research	monitoring and Evaluation	Columbia River Research Laboratory
200714800	Monitoring and Models for Restoration and Adaptive Management of White Sturgeon in the Columbia River Basin	Research	monitoring and Evaluation	US Geological Survey (USGS) - Cook
200719800	Next Steps in Subbasin Planning: Umatilla Pilot Project	Research	monitoring and Evaluation	Confederated Tribes of the Umatilla Indian Reservation

Proposal Number	Title	Compartment	Sub-compartment	Organization
200721600	Pacific Northwest Aquatic Monitoring Partnership-Fish Population Monitoring (FPM)--RME Design and Protocols. Programmatic and Standardized Work Products for PNW and the Columbia Basin	Research	monitoring and Evaluation	Pacific Northwest Aquatic Monitoring Partnership (PNAMP)
200735800	Estimating the detection efficiency of snorkeling for detecting anadromous salmonid parr	Research	monitoring and Evaluation	US Forest Service (USFS) - Rocky Mt Research Station
199801400	Ocean Survival Of Salmonids	Research	Ocean	National Oceanic & Atmospheric Administration (NOAA)
200300900	Canada-Usa Shelf Salmon Survival Study	Research	Ocean	Canada Department Of Fisheries & Oceans
200311400	Acoustic Tracking For Survival	Research	Ocean	Kintama Research
200709000	Effects of the marine environment on the growth and survival of Columbia Basin spring Chinook and sockeye salmon stocks.	Research	Ocean	Columbia River Inter-Tribal Fish Commission (CRITFC)
200702200	Characterizing stress responses in lampreys: assessments based on cDNA microarrays	Research	Physiology	Columbia River Research Laboratory
200714400	Evaluation of water temperature exposure in the Columbia River hydrosystem on reproductive success of adult and juvenile Chinook salmon and steelhead	Research	Physiology	University of Idaho
200716000	Evaluation of spawning success in Pacific salmon using electromyogram telemetry	Research	Physiology	Pacific Northwest National Laboratory
200729700	Effect of Elevated Water Temperature and Gas Supersaturation on Bull Trout Reproduction and Growth.	Research	Physiology	Abernathy Fish Tech. Center
200706300	Use of drift nets to monitor production and limiting factors in recruitment of larval Pacific lamprey	Research	population structure	Oregon State University
200713300	Systemwide distribution of genetic variation within and among populations of the	Research	population structure	University of California at Davis

Proposal Number	Title	Compartment	Sub-compartment	Organization
	white sturgeon (<i>Acipenser transmontanus</i>)			
200716800	Using otolith microstructure and microchemistry to delineate growth patterns and spatial structure of Snake River Fall Chinook salmon	Research	population structure	National Oceanic & Atmospheric Administration (NOAA)
200717500	DNA typing to identify native inland <i>Oncorhynchus mykiss</i>	Research	population structure	Washington State University
200718700	Use of Mainstem Habitats by Juvenile Pacific Lamprey (<i>Lampetra tridentata</i>)	Research	population structure	Pacific Northwest National Laboratory
200721300	Assessing Recruitment Failure Across White Sturgeon Populations: Differences in Prey Availability and Physical Habitat Among Areas with Consistent, Inconsistent, and no Annual Recruitment to Age-1	Research	population structure	US Geological Survey (USGS) - Cook
200719700	Evaluating the sublethal impacts of current use pesticides on the environmental health of salmonids in the Columbia River Basin.	Research	Toxics	Northwest Fisheries Science Center