

*Endangered Species Act  
Federal Columbia River Power System  
2011 Annual Progress Report: Section 3*

**PROJECT TABLES FOR REASONABLE AND PRUDENT ALTERNATIVE  
(RPA) ACTION IMPLEMENTATION**

<b>Attachment 1: Hatchery Safety Net &amp; Conservation Programs and RME Projects Completed or in Progress in 2011.....</b>	<b>3</b>
Attachment 1 - Table 1. BPA Project List .....	3
Attachment 1 - Table 2. Reclamation Project List.....	40
Attachment 1 - Table 3. Corps Project List.....	41
<b>Attachment 2: Summary of 2011 Tributary Habitat Accomplishments by Population.....</b>	<b>45</b>
Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population .....	45
Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects .....	55
Attachment 2 – Table 3. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Supplement Projects Listed in Table 1 .....	60
<b>Attachment 3: Tributary Habitat Reports by the Bureau of Reclamation.....</b>	<b>63</b>
Attachment 3 – Table 1. Tributary Habitat Reports by the Bureau of Reclamation.....	63
<b>Attachment 4: Action Agency 2011 Estuary Habitat Projects .....</b>	<b>67</b>
Attachment 4 – Table 1. Action Agency 2011 Estuary Habitat Projects .....	68

Page is intentionally blank.

## Attachment 1: Hatchery Safety Net & Conservation Programs and RME Projects Completed or in Progress in 2011

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	A	BPA	2012-001-00	AMIP Salmonid Life Cycle Model Support	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2012-001-00">http://www.cbfish.org/Project.mvc/Display/2012-001-00</a>
AMIP	Enhanced RME	III	B	BPA	1982-013-04	Coded Wire Tag-Washington Department of Fish and Wildlife (WDFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-04">http://www.cbfish.org/Project.mvc/Display/1982-013-04</a>
AMIP	Enhanced RME	III	B	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
AMIP	Enhanced RME	III	B	BPA	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-03">http://www.cbfish.org/Project.mvc/Display/1988-053-03</a>
AMIP	Enhanced RME	III	B	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>
AMIP	Enhanced RME	III	B	BPA	1988-053-08	Hood River Production Operations and Maintenance (O&M) and Powerdale	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-08">http://www.cbfish.org/Project.mvc/Display/1988-053-08</a>
AMIP	Enhanced RME	III	B	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
AMIP	Enhanced RME	III	B	BPA	1990-005-00	Umatilla Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-00">http://www.cbfish.org/Project.mvc/Display/1990-005-00</a>
AMIP	Enhanced RME	III	B	BPA	1990-005-01	Umatilla Basin Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-01">http://www.cbfish.org/Project.mvc/Display/1990-005-01</a>
AMIP	Enhanced RME	III	B	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
AMIP	Enhanced RME	III	B	BPA	1991-028-00	Pit Tagging Wild Chinook	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-028-00">http://www.cbfish.org/Project.mvc/Display/1991-028-00</a>
AMIP	Enhanced RME	III	B	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
AMIP	Enhanced RME	III	B	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
AMIP	Enhanced RME	III	B	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
AMIP	Enhanced RME	III	B	BPA	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-35">http://www.cbfish.org/Project.mvc/Display/1995-063-35</a>
AMIP	Enhanced RME	III	B	BPA	1996-019-00	Data Access in Real Time (DART)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-019-00">http://www.cbfish.org/Project.mvc/Display/1996-019-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	B	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
AMIP	Enhanced RME	III	B	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
AMIP	Enhanced RME	III	B	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
AMIP	Enhanced RME	III	B	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
AMIP	Enhanced RME	III	B	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
AMIP	Enhanced RME	III	B	BPA	1998-019-00	Wind River Watershed	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-019-00">http://www.cbfish.org/Project.mvc/Display/1998-019-00</a>
AMIP	Enhanced RME	III	B	BPA	1999-020-00	Analyze Persistence and Dynamics in Chinook Redds	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1999-020-00">http://www.cbfish.org/Project.mvc/Display/1999-020-00</a>
AMIP	Enhanced RME	III	B	BPA	2002-032-00	Snake River Fall Chinook Salmon Life History Investigations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-032-00">http://www.cbfish.org/Project.mvc/Display/2002-032-00</a>
AMIP	Enhanced RME	III	B	BPA	2002-053-00	Asotin Creek Salmon Population Assessment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-053-00">http://www.cbfish.org/Project.mvc/Display/2002-053-00</a>
AMIP	Enhanced RME	III	B	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>
AMIP	Enhanced RME	III	B	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
AMIP	Enhanced RME	III	B	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
AMIP	Enhanced RME	III	B	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
AMIP	Enhanced RME	III	B	BPA	2007-233-00	Distribution and Abundance Monitoring of <i>Oncorhynchus mykiss</i> within the Lower Clearwater Subbasin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-233-00">http://www.cbfish.org/Project.mvc/Display/2007-233-00</a>
AMIP	Enhanced RME	III	B	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
AMIP	Enhanced RME	III	B	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	B	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-030-00	Project to provided VSP Estimates for Yakima Steelhead MPG	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-030-00">http://www.cbfish.org/Project.mvc/Display/2010-030-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-035-00	Abundance, Productivity and Life History of Fifteenmile Creek Winter Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-035-00">http://www.cbfish.org/Project.mvc/Display/2010-035-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-037-00	Toppenish Creek Steelhead Status & Trend Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-037-00">http://www.cbfish.org/Project.mvc/Display/2010-037-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-038-00	Lolo Creek Permanent Weir Construction	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2010-038-00">http://www.cbfish.org/Project.mvc/Display/2010-038-00</a>
AMIP	Enhanced RME	III	B	BPA	2010-042-00	Tucannon Expanded Pit Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-042-00">http://www.cbfish.org/Project.mvc/Display/2010-042-00</a>
AMIP	Enhanced RME	III	C	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
AMIP	Enhanced RME	III	C	BPA	1988-022-00	Umatilla Fish Passage Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-022-00">http://www.cbfish.org/Project.mvc/Display/1988-022-00</a>
AMIP	Enhanced RME	III	C	BPA	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-03">http://www.cbfish.org/Project.mvc/Display/1988-053-03</a>
AMIP	Enhanced RME	III	C	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>
AMIP	Enhanced RME	III	C	BPA	1988-053-08	Hood River Production Operations and Maintenance (O&M) and Powerdale	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-08">http://www.cbfish.org/Project.mvc/Display/1988-053-08</a>
AMIP	Enhanced RME	III	C	BPA	1989-024-01	Evaluate Umatilla Juvenile Salmonid Outmigration	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-024-01">http://www.cbfish.org/Project.mvc/Display/1989-024-01</a>
AMIP	Enhanced RME	III	C	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	C	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
AMIP	Enhanced RME	III	C	BPA	1991-028-00	Pit Tagging Wild Chinook	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-028-00">http://www.cbfish.org/Project.mvc/Display/1991-028-00</a>
AMIP	Enhanced RME	III	C	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
AMIP	Enhanced RME	III	C	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
AMIP	Enhanced RME	III	C	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
AMIP	Enhanced RME	III	C	BPA	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-35">http://www.cbfish.org/Project.mvc/Display/1995-063-35</a>
AMIP	Enhanced RME	III	C	BPA	1996-035-01	Yakama Reservation Watershed Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-035-01">http://www.cbfish.org/Project.mvc/Display/1996-035-01</a>
AMIP	Enhanced RME	III	C	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
AMIP	Enhanced RME	III	C	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
AMIP	Enhanced RME	III	C	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
AMIP	Enhanced RME	III	C	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
AMIP	Enhanced RME	III	C	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
AMIP	Enhanced RME	III	C	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
AMIP	Enhanced RME	III	C	BPA	1998-019-00	Wind River Watershed	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-019-00">http://www.cbfish.org/Project.mvc/Display/1998-019-00</a>
AMIP	Enhanced RME	III	C	BPA	2002-032-00	Snake River Fall Chinook Salmon Life History Investigations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-032-00">http://www.cbfish.org/Project.mvc/Display/2002-032-00</a>
AMIP	Enhanced RME	III	C	BPA	2002-053-00	Asotin Creek Salmon Population Assessment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-053-00">http://www.cbfish.org/Project.mvc/Display/2002-053-00</a>
AMIP	Enhanced RME	III	C	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	C	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
AMIP	Enhanced RME	III	C	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
AMIP	Enhanced RME	III	C	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
AMIP	Enhanced RME	III	C	BPA	2007-233-00	Distribution and Abundance Monitoring of Oncorhynchus mykiss within the Lower Clearwater Subbasin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-233-00">http://www.cbfish.org/Project.mvc/Display/2007-233-00</a>
AMIP	Enhanced RME	III	C	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
AMIP	Enhanced RME	III	C	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>
AMIP	Enhanced RME	III	C	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
AMIP	Enhanced RME	III	C	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
AMIP	Enhanced RME	III	C	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>
AMIP	Enhanced RME	III	C	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
AMIP	Enhanced RME	III	C	BPA	2010-035-00	Abundance, Productivity and Life History of Fifteenmile Creek Winter Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-035-00">http://www.cbfish.org/Project.mvc/Display/2010-035-00</a>
AMIP	Enhanced RME	III	C	BPA	2010-037-00	Toppenish Creek Steelhead Status & Trend Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-037-00">http://www.cbfish.org/Project.mvc/Display/2010-037-00</a>
AMIP	Enhanced RME	III	D	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
AMIP	Enhanced RME	III	D	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
AMIP	Enhanced RME	III	E	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
AMIP	Enhanced RME	III	E	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
AMIP	Enhanced RME	III	E	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
AMIP	Enhanced RME	III	F	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
AMIP	Enhanced RME	III	F	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
AMIP	Enhanced RME	III	F	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
Hydro	Develop & Implement a Kelt Mgmt Plan	33	3	BPA	2007-401-00	Kelt Reconditioning and Reproductive Success Evaluation Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-401-00">http://www.cbfish.org/Project.mvc/Display/2007-401-00</a>
Hydro	Develop & Implement a Kelt Mgmt Plan	33	4	BPA	2007-401-00	Kelt Reconditioning and Reproductive Success Evaluation Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-401-00">http://www.cbfish.org/Project.mvc/Display/2007-401-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	41	All	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	41	All	BPA	1997-038-00	Listed Stock Chinook Salmon Gamete Preservation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-038-00">http://www.cbfish.org/Project.mvc/Display/1997-038-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	41	All	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	41	All	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
Hatchery	Execute on Safety Net & Conservation Objectives	41	All	BPA	2007-404-00	Spring Chinook Captive Propagation-Oregon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-404-00">http://www.cbfish.org/Project.mvc/Display/2007-404-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	41	1	BPA	2010-076-00	Characterizing migration and survival for juvenile Snake River sockeye salmon between the upper Salmon River basin and Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-076-00">http://www.cbfish.org/Project.mvc/Display/2010-076-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2003-023-00	Chief Joseph Hatchery Program	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-023-00">http://www.cbfish.org/Project.mvc/Display/2003-023-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2007-212-00	Okanogan Basin Locally Adapted Steelhead Broodstock Step 1 and 2 (Casimer Bar)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-212-00">http://www.cbfish.org/Project.mvc/Display/2007-212-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2007-401-00	Kelt Reconditioning and Reproductive Success Evaluation Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-401-00">http://www.cbfish.org/Project.mvc/Display/2007-401-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2008-458-00	Steelhead Kelt Reconditioning	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-458-00">http://www.cbfish.org/Project.mvc/Display/2008-458-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	All	BPA	2009-001-00	Expanded Multi-Species Acclimation in the Wenatchee/Methow Basins	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-001-00">http://www.cbfish.org/Project.mvc/Display/2009-001-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	6	BPA	1988-053-01	Northeast Oregon Hatchery Master Plan	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-01">http://www.cbfish.org/Project.mvc/Display/1988-053-01</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
Hatchery	Execute on Safety Net & Conservation Objectives	42	9	BPA	2008-710-00	Development of an Integrated strategy for Chum Salmon Restoration in the tributaries below Bonneville Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-710-00">http://www.cbfish.org/Project.mvc/Display/2008-710-00</a>
Hatchery	Execute on Safety Net & Conservation Objectives	42	10	BPA	2008-710-00	Development of an Integrated strategy for Chum Salmon Restoration in the tributaries below Bonneville Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-710-00">http://www.cbfish.org/Project.mvc/Display/2008-710-00</a>
Predation Mgmt	Imp Pisc Pred Cntrl Measures	43	All	BPA	1990-077-00	Development of Systemwide Predator Control	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-077-00">http://www.cbfish.org/Project.mvc/Display/1990-077-00</a>
Predation Mgmt	Imp Pisc Pred Cntrl Measures	44	All	BPA	2008-718-00	Non-Native Fish Hot Spots	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-718-00">http://www.cbfish.org/Project.mvc/Display/2008-718-00</a>
Predation Mgmt	Imp Pisc Pred Cntrl Measures	44	All	BPA	2008-719-00	Research Non-Indigenous Actions	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-719-00">http://www.cbfish.org/Project.mvc/Display/2008-719-00</a>
Predation Mgmt	Imp Avian Pred Cntrl Measures	45	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>
Predation Mgmt	Imp Avian Pred Cntrl Measures	46	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>
Predation Mgmt	Imp Avian Pred Cntrl Measures	47	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>
Predation Mgmt	Impl Marine Mammal Cntrl Measures	49	All	BPA	2008-004-00	Sea Lion Non-Lethal Hazing	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-004-00">http://www.cbfish.org/Project.mvc/Display/2008-004-00</a>
RME	Monitor Fish Populations	50	1	BPA	1990-080-00	Columbia Basin Pit-Tag Information	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-080-00">http://www.cbfish.org/Project.mvc/Display/1990-080-00</a>
RME	Monitor Fish Populations	50	1	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Monitor Fish Populations	50	2	BPA	2001-003-00	Adult PIT Detector Installation	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2001-003-00">http://www.cbfish.org/Project.mvc/Display/2001-003-00</a>
RME	Monitor Fish Populations	50	2	BPA	2005-002-00	Lower Granite Dam Adult Trap Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2005-002-00">http://www.cbfish.org/Project.mvc/Display/2005-002-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	3	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Monitor Fish Populations	50	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Monitor Fish Populations	50	3	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Monitor Fish Populations	50	3	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Monitor Fish Populations	50	3	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Monitor Fish Populations	50	3	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Monitor Fish Populations	50	3	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Monitor Fish Populations	50	3	BPA	2007-132-00	NEOH Monitoring & Evaluation Implementation (Formerly a component of 198805301)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-132-00">http://www.cbfish.org/Project.mvc/Display/2007-132-00</a>
RME	Monitor Fish Populations	50	3	BPA	2008-311-00	Natural Production Management and Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-311-00">http://www.cbfish.org/Project.mvc/Display/2008-311-00</a>
RME	Monitor Fish Populations	50	4	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Monitor Fish Populations	50	4	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
RME	Monitor Fish Populations	50	4	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Monitor Fish Populations	50	4	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>
RME	Monitor Fish Populations	50	4	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Monitor Fish Populations	50	4	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
RME	Monitor Fish Populations	50	4	BPA	2010-036-00	Lower Columbia Coded Wire Tag (CWT) Recovery Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-036-00">http://www.cbfish.org/Project.mvc/Display/2010-036-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	5	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Monitor Fish Populations	50	5	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Monitor Fish Populations	50	5	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Monitor Fish Populations	50	5	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
RME	Monitor Fish Populations	50	5	BPA	1993-037-01	Technical Assistance of Life Cycle Model	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-037-01">http://www.cbfish.org/Project.mvc/Display/1993-037-01</a>
RME	Monitor Fish Populations	50	5	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Monitor Fish Populations	50	5	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>
RME	Monitor Fish Populations	50	5	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Monitor Fish Populations	50	5	BPA	2005-002-00	Lower Granite Dam Adult Trap Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2005-002-00">http://www.cbfish.org/Project.mvc/Display/2005-002-00</a>
RME	Monitor Fish Populations	50	5	BPA	2009-005-00	Influence of Environment and Landscape on Salmonid Genetics	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-005-00">http://www.cbfish.org/Project.mvc/Display/2009-005-00</a>
RME	Monitor Fish Populations	50	5	BPA	2010-026-00	Chinook and Steelhead Genotyping for Genetic Stock Identification (GSI) at Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-026-00">http://www.cbfish.org/Project.mvc/Display/2010-026-00</a>
RME	Monitor Fish Populations	50	5	BPA	2010-031-00	Snake River Chinook and Steelhead Parental Based Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-031-00">http://www.cbfish.org/Project.mvc/Display/2010-031-00</a>
RME	Monitor Fish Populations	50	5	BPA	2010-038-00	Lolo Creek Permanent Weir Construction	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-038-00">http://www.cbfish.org/Project.mvc/Display/2010-038-00</a>
RME	Monitor Fish Populations	50	6	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Monitor Fish Populations	50	6	BPA	1982-013-02	Coded Wire Tag-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-02">http://www.cbfish.org/Project.mvc/Display/1982-013-02</a>
RME	Monitor Fish Populations	50	6	BPA	1982-013-03	Coded Wire Tag-US Fish and Wildlife Service (USFWS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-03">http://www.cbfish.org/Project.mvc/Display/1982-013-03</a>
RME	Monitor Fish Populations	50	6	BPA	1982-013-04	Coded Wire Tag-Washington Department of Fish and Wildlife (WDFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-04">http://www.cbfish.org/Project.mvc/Display/1982-013-04</a>
RME	Monitor Fish Populations	50	6	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	6	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Monitor Fish Populations	50	6	BPA	1988-022-00	Umatilla Fish Passage Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-022-00">http://www.cbfish.org/Project.mvc/Display/1988-022-00</a>
RME	Monitor Fish Populations	50	6	BPA	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-03">http://www.cbfish.org/Project.mvc/Display/1988-053-03</a>
RME	Monitor Fish Populations	50	6	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>
RME	Monitor Fish Populations	50	6	BPA	1988-053-08	Hood River Production Operations and Maintenance (O&M) and Powerdale	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-08">http://www.cbfish.org/Project.mvc/Display/1988-053-08</a>
RME	Monitor Fish Populations	50	6	BPA	1989-024-01	Evaluate Umatilla Juvenile Salmonid Outmigration	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-024-01">http://www.cbfish.org/Project.mvc/Display/1989-024-01</a>
RME	Monitor Fish Populations	50	6	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Monitor Fish Populations	50	6	BPA	1990-005-00	Umatilla Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-00">http://www.cbfish.org/Project.mvc/Display/1990-005-00</a>
RME	Monitor Fish Populations	50	6	BPA	1990-005-01	Umatilla Basin Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-01">http://www.cbfish.org/Project.mvc/Display/1990-005-01</a>
RME	Monitor Fish Populations	50	6	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Monitor Fish Populations	50	6	BPA	1991-028-00	Pit Tagging Wild Chinook	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-028-00">http://www.cbfish.org/Project.mvc/Display/1991-028-00</a>
RME	Monitor Fish Populations	50	6	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
RME	Monitor Fish Populations	50	6	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
RME	Monitor Fish Populations	50	6	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
RME	Monitor Fish Populations	50	6	BPA	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-35">http://www.cbfish.org/Project.mvc/Display/1995-063-35</a>
RME	Monitor Fish Populations	50	6	BPA	1996-019-00	Data Access in Real Time (DART)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-019-00">http://www.cbfish.org/Project.mvc/Display/1996-019-00</a>
RME	Monitor Fish Populations	50	6	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Monitor Fish Populations	50	6	BPA	1996-035-01	Yakama Reservation Watershed Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-035-01">http://www.cbfish.org/Project.mvc/Display/1996-035-01</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	6	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Monitor Fish Populations	50	6	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Monitor Fish Populations	50	6	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
RME	Monitor Fish Populations	50	6	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
RME	Monitor Fish Populations	50	6	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
RME	Monitor Fish Populations	50	6	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Monitor Fish Populations	50	6	BPA	1998-019-00	Wind River Watershed	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-019-00">http://www.cbfish.org/Project.mvc/Display/1998-019-00</a>
RME	Monitor Fish Populations	50	6	BPA	1999-003-01	Evaluate Spawning of Fall Chinook and Chum Salmon Just Below the Four Lowermost Mainstem Dams	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1999-003-01">http://www.cbfish.org/Project.mvc/Display/1999-003-01</a>
RME	Monitor Fish Populations	50	6	BPA	1999-020-00	Analyze Persistence and Dynamics in Chinook Redds	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1999-020-00">http://www.cbfish.org/Project.mvc/Display/1999-020-00</a>
RME	Monitor Fish Populations	50	6	BPA	2002-032-00	Snake River Fall Chinook Salmon Life History Investigations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-032-00">http://www.cbfish.org/Project.mvc/Display/2002-032-00</a>
RME	Monitor Fish Populations	50	6	BPA	2002-053-00	Asotin Creek Salmon Population Assessment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-053-00">http://www.cbfish.org/Project.mvc/Display/2002-053-00</a>
RME	Monitor Fish Populations	50	6	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>
RME	Monitor Fish Populations	50	6	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Monitor Fish Populations	50	6	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
RME	Monitor Fish Populations	50	6	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	6	BPA	2007-233-00	Distribution and Abundance Monitoring of Oncorhynchus mykiss within the Lower Clearwater Subbasin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-233-00">http://www.cbfish.org/Project.mvc/Display/2007-233-00</a>
RME	Monitor Fish Populations	50	6	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
RME	Monitor Fish Populations	50	6	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>
RME	Monitor Fish Populations	50	6	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-030-00	Project to provided VSP Estimates for Yakima Steelhead MPG	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-030-00">http://www.cbfish.org/Project.mvc/Display/2010-030-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-035-00	Abundance, Productivity and Life History of Fifteenmile Creek Winter Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-035-00">http://www.cbfish.org/Project.mvc/Display/2010-035-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-036-00	Lower Columbia Coded Wire Tag (CWT) Recovery Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-036-00">http://www.cbfish.org/Project.mvc/Display/2010-036-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-037-00	Toppenish Creek Steelhead Status & Trend Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-037-00">http://www.cbfish.org/Project.mvc/Display/2010-037-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-038-00	Lolo Creek Permanent Weir Construction	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2010-038-00">http://www.cbfish.org/Project.mvc/Display/2010-038-00</a>
RME	Monitor Fish Populations	50	6	BPA	2010-042-00	Tucannon Expanded Pit Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-042-00">http://www.cbfish.org/Project.mvc/Display/2010-042-00</a>
RME	Monitor Fish Populations	50	7	BPA	1982-013-02	Coded Wire Tag-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-02">http://www.cbfish.org/Project.mvc/Display/1982-013-02</a>
RME	Monitor Fish Populations	50	7	BPA	1982-013-03	Coded Wire Tag-US Fish and Wildlife Service (USFWS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-03">http://www.cbfish.org/Project.mvc/Display/1982-013-03</a>
RME	Monitor Fish Populations	50	7	BPA	1982-013-04	Coded Wire Tag-Washington Department of Fish and Wildlife (WDFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-04">http://www.cbfish.org/Project.mvc/Display/1982-013-04</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	50	7	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Monitor Fish Populations	50	7	BPA	1988-053-07	Hood River Production Operations and Maintenance (O&M)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-07">http://www.cbfish.org/Project.mvc/Display/1988-053-07</a>
RME	Monitor Fish Populations	50	7	BPA	1988-053-08	Hood River Production Operations and Maintenance (O&M) and Powerdale	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-08">http://www.cbfish.org/Project.mvc/Display/1988-053-08</a>
RME	Monitor Fish Populations	50	7	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Monitor Fish Populations	50	7	BPA	1990-005-00	Umatilla Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-00">http://www.cbfish.org/Project.mvc/Display/1990-005-00</a>
RME	Monitor Fish Populations	50	7	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
RME	Monitor Fish Populations	50	7	BPA	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-35">http://www.cbfish.org/Project.mvc/Display/1995-063-35</a>
RME	Monitor Fish Populations	50	7	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Monitor Fish Populations	50	7	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Monitor Fish Populations	50	7	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
RME	Monitor Fish Populations	50	7	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Monitor Fish Populations	50	7	BPA	2007-404-00	Spring Chinook Captive Propagation-Oregon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-404-00">http://www.cbfish.org/Project.mvc/Display/2007-404-00</a>
RME	Monitor Fish Populations	50	7	BPA	2008-710-00	Development of an Integrated strategy for Chum Salmon Restoration in the tributaries below Bonneville Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-710-00">http://www.cbfish.org/Project.mvc/Display/2008-710-00</a>
RME	Monitor Fish Populations	50	7	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
RME	Monitor Fish Populations	50	7	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>
RME	Monitor Fish Populations	51	1	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	51	1	BPA	1982-013-02	Coded Wire Tag-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-02">http://www.cbfish.org/Project.mvc/Display/1982-013-02</a>
RME	Monitor Fish Populations	51	1	BPA	1982-013-04	Coded Wire Tag-Washington Department of Fish and Wildlife (WDFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-04">http://www.cbfish.org/Project.mvc/Display/1982-013-04</a>
RME	Monitor Fish Populations	51	1	BPA	1988-108-04	StreamNet - Coordinated Information System (CIS)/ Northwest Environmental Database (NED)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-108-04">http://www.cbfish.org/Project.mvc/Display/1988-108-04</a>
RME	Monitor Fish Populations	51	1	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Monitor Fish Populations	51	1	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Monitor Fish Populations	51	1	BPA	1996-019-00	Data Access in Real Time (DART)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-019-00">http://www.cbfish.org/Project.mvc/Display/1996-019-00</a>
RME	Monitor Fish Populations	51	1	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Monitor Fish Populations	51	1	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
RME	Monitor Fish Populations	51	1	BPA	1999-020-00	Analyze Persistence and Dynamics in Chinook Redds	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1999-020-00">http://www.cbfish.org/Project.mvc/Display/1999-020-00</a>
RME	Monitor Fish Populations	51	1	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Monitor Fish Populations	51	1	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Monitor Fish Populations	51	1	BPA	2007-407-00	Upper Snake River Tribe (USRT) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-407-00">http://www.cbfish.org/Project.mvc/Display/2007-407-00</a>
RME	Monitor Fish Populations	51	1	BPA	2008-507-00	Tribal Data Network	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-507-00">http://www.cbfish.org/Project.mvc/Display/2008-507-00</a>
RME	Monitor Fish Populations	51	1	BPA	2010-036-00	Lower Columbia Coded Wire Tag (CWT) Recovery Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-036-00">http://www.cbfish.org/Project.mvc/Display/2010-036-00</a>
RME	Monitor Fish Populations	51	2	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Monitor Fish Populations	51	2	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Monitor Fish Populations	51	2	BPA	2010-026-00	Chinook and Steelhead Genotyping for Genetic Stock Identification (GSI) at Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-026-00">http://www.cbfish.org/Project.mvc/Display/2010-026-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Monitor Fish Populations	51	3	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Monitor Fish Populations	51	3	BPA	1982-013-02	Coded Wire Tag-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-02">http://www.cbfish.org/Project.mvc/Display/1982-013-02</a>
RME	Monitor Fish Populations	51	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Monitor Fish Populations	51	3	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Monitor Fish Populations	51	3	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Monitor Fish Populations	51	3	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Hydrosystem RME	52	1	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	1	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	52	1	BPA	1991-051-00	Modeling and Evaluation Statistical Support for Life-Cycle Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-051-00">http://www.cbfish.org/Project.mvc/Display/1991-051-00</a>
RME	Hydrosystem RME	52	1	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Hydrosystem RME	52	1	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	52	2	BPA	1983-319-00	New Marking and Monitoring Technologies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-319-00">http://www.cbfish.org/Project.mvc/Display/1983-319-00</a>
RME	Hydrosystem RME	52	2	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	2	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	52	2	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	52	2	BPA	1990-005-01	Umatilla Basin Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-005-01">http://www.cbfish.org/Project.mvc/Display/1990-005-01</a>
RME	Hydrosystem RME	52	2	BPA	1993-029-00	Survival Estimate for Passage through Snake and Columbia River Dams and Reservoirs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-029-00">http://www.cbfish.org/Project.mvc/Display/1993-029-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	52	2	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Hydrosystem RME	52	2	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Hydrosystem RME	52	2	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	52	2	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Hydrosystem RME	52	2	BPA	2008-908-00	FCRPS Water Studies & Passage of Adult Salmon & Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-908-00">http://www.cbfish.org/Project.mvc/Display/2008-908-00</a>
RME	Hydrosystem RME	52	3	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	52	3	BPA	1991-051-00	Modeling and Evaluation Statistical Support for Life-Cycle Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-051-00">http://www.cbfish.org/Project.mvc/Display/1991-051-00</a>
RME	Hydrosystem RME	52	3	BPA	2005-002-00	Lower Granite Dam Adult Trap Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2005-002-00">http://www.cbfish.org/Project.mvc/Display/2005-002-00</a>
RME	Hydrosystem RME	52	3	BPA	2008-508-00	Power Analysis Catch Sampling Rates	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-508-00">http://www.cbfish.org/Project.mvc/Display/2008-508-00</a>
RME	Hydrosystem RME	52	3	BPA	2008-908-00	FCRPS Water Studies & Passage of Adult Salmon & Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-908-00">http://www.cbfish.org/Project.mvc/Display/2008-908-00</a>
RME	Hydrosystem RME	52	4	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	4	BPA	2008-724-00	Pit tag Sr Sockeye-Uc Sp. Chinook	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2008-724-00">http://www.cbfish.org/Project.mvc/Display/2008-724-00</a>
RME	Hydrosystem RME	52	5	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	5	BPA	2010-076-00	Characterizing migration and survival for juvenile Snake River sockeye salmon between the upper Salmon River basin and Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-076-00">http://www.cbfish.org/Project.mvc/Display/2010-076-00</a>
RME	Hydrosystem RME	52	6	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	52	6	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Hydrosystem RME	52	7	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	52	7	BPA	2008-105-00	Selective Gear Deployment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-105-00">http://www.cbfish.org/Project.mvc/Display/2008-105-00</a>
RME	Hydrosystem RME	52	7	BPA	2008-908-00	FCRPS Water Studies & Passage of Adult Salmon & Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-908-00">http://www.cbfish.org/Project.mvc/Display/2008-908-00</a>
RME	Hydrosystem RME	53	1	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	53	1	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Hydrosystem RME	53	1	BPA	1991-051-00	Modeling and Evaluation Statistical Support for Life-Cycle Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-051-00">http://www.cbfish.org/Project.mvc/Display/1991-051-00</a>
RME	Hydrosystem RME	53	1	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Hydrosystem RME	53	2	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	53	2	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	53	2	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Hydrosystem RME	53	2	BPA	1991-028-00	Pit Tagging Wild Chinook	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-028-00">http://www.cbfish.org/Project.mvc/Display/1991-028-00</a>
RME	Hydrosystem RME	53	2	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Hydrosystem RME	53	2	BPA	1991-051-00	Modeling and Evaluation Statistical Support for Life-Cycle Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-051-00">http://www.cbfish.org/Project.mvc/Display/1991-051-00</a>
RME	Hydrosystem RME	53	2	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Hydrosystem RME	53	2	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	53	2	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	53	2	BPA	2010-026-00	Chinook and Steelhead Genotyping for Genetic Stock Identification (GSI) at Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-026-00">http://www.cbfish.org/Project.mvc/Display/2010-026-00</a>
RME	Hydrosystem RME	53	3	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	53	3	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Hydrosystem RME	53	3	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Hydrosystem RME	53	3	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	53	4	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	54	1	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	54	1	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	2	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	54	2	BPA	1993-029-00	Survival Estimate for Passage through Snake and Columbia River Dams and Reservoirs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-029-00">http://www.cbfish.org/Project.mvc/Display/1993-029-00</a>
RME	Hydrosystem RME	54	3	BPA	2001-003-00	Adult PIT Detector Installation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2001-003-00">http://www.cbfish.org/Project.mvc/Display/2001-003-00</a>
RME	Hydrosystem RME	54	4	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	54	5	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	54	5	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Hydrosystem RME	54	5	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	6	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	54	6	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	54	6	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Hydrosystem RME	54	6	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Hydrosystem RME	54	6	BPA	2001-003-00	Adult PIT Detector Installation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2001-003-00">http://www.cbfish.org/Project.mvc/Display/2001-003-00</a>
RME	Hydrosystem RME	54	6	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	7	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	54	7	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	54	7	BPA	1993-029-00	Survival Estimate for Passage through Snake and Columbia River Dams and Reservoirs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-029-00">http://www.cbfish.org/Project.mvc/Display/1993-029-00</a>
RME	Hydrosystem RME	54	7	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	8	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	54	8	BPA	1990-077-00	Development of Systemwide Predator Control	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-077-00">http://www.cbfish.org/Project.mvc/Display/1990-077-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	54	8	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	9	BPA	1983-319-00	New Marking and Monitoring Technologies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-319-00">http://www.cbfish.org/Project.mvc/Display/1983-319-00</a>
RME	Hydrosystem RME	54	11	BPA	2001-003-00	Adult PIT Detector Installation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2001-003-00">http://www.cbfish.org/Project.mvc/Display/2001-003-00</a>
RME	Hydrosystem RME	54	12	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Hydrosystem RME	54	12	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	54	13	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Hydrosystem RME	55	1	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	55	1	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	55	1	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Hydrosystem RME	55	1	BPA	1991-028-00	Pit Tagging Wild Chinook	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-028-00">http://www.cbfish.org/Project.mvc/Display/1991-028-00</a>
RME	Hydrosystem RME	55	1	BPA	1996-020-00	Comparative Survival Study (CSS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-020-00">http://www.cbfish.org/Project.mvc/Display/1996-020-00</a>
RME	Hydrosystem RME	55	1	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	55	1	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Hydrosystem RME	55	1	BPA	2005-002-00	Lower Granite Dam Adult Trap Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2005-002-00">http://www.cbfish.org/Project.mvc/Display/2005-002-00</a>
RME	Hydrosystem RME	55	2	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Hydrosystem RME	55	2	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Hydrosystem RME	55	2	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Hydrosystem RME	55	2	BPA	2003-041-00	Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-041-00">http://www.cbfish.org/Project.mvc/Display/2003-041-00</a>
RME	Hydrosystem RME	55	2	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Hydrosystem RME	55	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	55	4	BPA	1987-127-00	Smolt Monitoring by Non-Federal Entities	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1987-127-00">http://www.cbfish.org/Project.mvc/Display/1987-127-00</a>
RME	Hydrosystem RME	55	4	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	55	4	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Hydrosystem RME	55	4	BPA	2002-032-00	SNAKE RIVER FALL CHINOOK SALMON LIFE HISTORY INVESTIGATIONS	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-032-00">http://www.cbfish.org/Project.mvc/Display/2002-032-00</a>
RME	Hydrosystem RME	55	7	BPA	1983-319-00	New Marking and Monitoring Technologies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-319-00">http://www.cbfish.org/Project.mvc/Display/1983-319-00</a>
RME	Hydrosystem RME	55	8	BPA	1983-319-00	New Marking and Monitoring Technologies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-319-00">http://www.cbfish.org/Project.mvc/Display/1983-319-00</a>
RME	Hydrosystem RME	55	8	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Hydrosystem RME	55	8	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Hydrosystem RME	55	9	BPA	1983-319-00	New Marking and Monitoring Technologies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-319-00">http://www.cbfish.org/Project.mvc/Display/1983-319-00</a>
RME	Tributary Habitat RME	56	1	BPA	1984-021-00	John Day Habitat Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1984-021-00">http://www.cbfish.org/Project.mvc/Display/1984-021-00</a>
RME	Tributary Habitat RME	56	1	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Tributary Habitat RME	56	1	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Tributary Habitat RME	56	1	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Tributary Habitat RME	56	1	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	56	1	BPA	2008-471-00	Upper Columbia Nutrient Supplementation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-471-00">http://www.cbfish.org/Project.mvc/Display/2008-471-00</a>
RME	Tributary Habitat RME	56	1	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
RME	Tributary Habitat RME	56	1	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	56	2	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Tributary Habitat RME	56	2	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	56	2	BPA	2005-002-00	Lower Granite Dam Adult Trap Operations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2005-002-00">http://www.cbfish.org/Project.mvc/Display/2005-002-00</a>
RME	Tributary Habitat RME	56	2	BPA	2008-471-00	Upper Columbia Nutrient Supplementation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-471-00">http://www.cbfish.org/Project.mvc/Display/2008-471-00</a>
RME	Tributary Habitat RME	56	2	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	56	3	BPA	1984-021-00	John Day Habitat Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1984-021-00">http://www.cbfish.org/Project.mvc/Display/1984-021-00</a>
RME	Tributary Habitat RME	56	3	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Tributary Habitat RME	56	3	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	56	3	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
RME	Tributary Habitat RME	56	3	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Tributary Habitat RME	56	3	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
RME	Tributary Habitat RME	56	3	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Tributary Habitat RME	56	3	BPA	2011-008-00	Technical Support for BiOp RM&E Coordinated Assessments	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2011-008-00">http://www.cbfish.org/Project.mvc/Display/2011-008-00</a>
RME	Tributary Habitat RME	57	1	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	57	1	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
RME	Tributary Habitat RME	57	1	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	57	2	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	57	2	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	57	3	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Tributary Habitat RME	57	3	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	57	3	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	57	4	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Tributary Habitat RME	57	4	BPA	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-034-00">http://www.cbfish.org/Project.mvc/Display/2010-034-00</a>
RME	Tributary Habitat RME	57	4	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Tributary Habitat RME	57	5	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Tributary Habitat RME	57	5	BPA	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-004-00">http://www.cbfish.org/Project.mvc/Display/2009-004-00</a>
RME	Tributary Habitat RME	57	5	BPA	2011-008-00	Technical Support for BiOp RM&E Coordinated Assessments	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2011-008-00">http://www.cbfish.org/Project.mvc/Display/2011-008-00</a>
RME	Estuary Habitat RME	58	1	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Estuary Habitat RME	58	1	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Estuary Habitat RME	58	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Estuary Habitat RME	58	3	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Estuary Habitat RME	58	3	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	58	4	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Estuary Habitat RME	58	4	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	59	1	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	59	1	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>
RME	Estuary Habitat RME	59	2	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	59	4	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	59	4	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Estuary Habitat RME	59	5	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Estuary Habitat RME	59	5	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	59	5	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>
RME	Estuary Habitat RME	59	5	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Estuary Habitat RME	60	1	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	60	1	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>
RME	Estuary Habitat RME	60	2	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Estuary Habitat RME	60	3	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>
RME	Estuary Habitat RME	61	1	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Estuary Habitat RME	61	1	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	61	1	BPA	2003-009-00	Canada-USA Shelf Salmon Survival Study	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-009-00">http://www.cbfish.org/Project.mvc/Display/2003-009-00</a>
RME	Estuary Habitat RME	61	1	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Estuary Habitat RME	61	2	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Estuary Habitat RME	61	2	BPA	2003-009-00	Canada-USA Shelf Salmon Survival Study	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-009-00">http://www.cbfish.org/Project.mvc/Display/2003-009-00</a>
RME	Estuary Habitat RME	61	2	BPA	2003-114-00	Coastal Ocean Acoustic Salmon Tracking (COAST)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-114-00">http://www.cbfish.org/Project.mvc/Display/2003-114-00</a>
RME	Estuary Habitat RME	61	3	BPA	1989-107-00	Statistical Support For Salmon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-107-00">http://www.cbfish.org/Project.mvc/Display/1989-107-00</a>
RME	Estuary Habitat RME	61	3	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Estuary Habitat RME	61	3	BPA	2003-011-00	Columbia River Estuary Habitat Restoration	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-011-00">http://www.cbfish.org/Project.mvc/Display/2003-011-00</a>
RME	Estuary Habitat RME	61	4	BPA	1998-014-00	Ocean Survival Of Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-014-00">http://www.cbfish.org/Project.mvc/Display/1998-014-00</a>
RME	Harvest RME	62	1	BPA	2008-502-00	Expanded Tribal Catch Sampling	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-502-00">http://www.cbfish.org/Project.mvc/Display/2008-502-00</a>
RME	Harvest RME	62	1	BPA	2008-508-00	Power Analysis Catch Sampling Rates	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-508-00">http://www.cbfish.org/Project.mvc/Display/2008-508-00</a>
RME	Harvest RME	62	1	BPA	2008-908-00	FCRPS Water Studies & Passage of Adult Salmon & Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-908-00">http://www.cbfish.org/Project.mvc/Display/2008-908-00</a>
RME	Harvest RME	62	2	BPA	1993-060-00	Select Area Fisheries Enhancement	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1993-060-00">http://www.cbfish.org/Project.mvc/Display/1993-060-00</a>
RME	Harvest RME	62	2	BPA	2007-249-00	Evaluation of Live Capture Gear	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-249-00">http://www.cbfish.org/Project.mvc/Display/2007-249-00</a>
RME	Harvest RME	62	2	BPA	2008-105-00	Selective Gear Deployment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-105-00">http://www.cbfish.org/Project.mvc/Display/2008-105-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	62	3	BPA	2008-105-00	Selective Gear Deployment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-105-00">http://www.cbfish.org/Project.mvc/Display/2008-105-00</a>
RME	Harvest RME	62	4	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Harvest RME	62	4	BPA	1982-013-02	Coded Wire Tag-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-02">http://www.cbfish.org/Project.mvc/Display/1982-013-02</a>
RME	Harvest RME	62	4	BPA	1982-013-03	Coded Wire Tag-US Fish and Wildlife Service (USFWS)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-03">http://www.cbfish.org/Project.mvc/Display/1982-013-03</a>
RME	Harvest RME	62	4	BPA	1982-013-04	Coded Wire Tag-Washington Department of Fish and Wildlife (WDFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-04">http://www.cbfish.org/Project.mvc/Display/1982-013-04</a>
RME	Harvest RME	62	4	BPA	1983-350-00	Nez Perce Tribal Hatchery Operations and Maintenance (O&M)	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-00">http://www.cbfish.org/Project.mvc/Display/1983-350-00</a>
RME	Harvest RME	62	4	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	62	4	BPA	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-03">http://www.cbfish.org/Project.mvc/Display/1988-053-03</a>
RME	Harvest RME	62	4	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
RME	Harvest RME	62	4	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Harvest RME	62	4	BPA	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-060-00">http://www.cbfish.org/Project.mvc/Display/2002-060-00</a>
RME	Harvest RME	62	4	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
RME	Harvest RME	62	4	BPA	2010-036-00	Lower Columbia Coded Wire Tag (CWT) Recovery Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-036-00">http://www.cbfish.org/Project.mvc/Display/2010-036-00</a>
RME	Harvest RME	62	5	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	62	5	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>
RME	Harvest RME	62	5	BPA	1989-096-00	Genetic Monitoring and Evaluation (M&E) Program for Salmon and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-096-00">http://www.cbfish.org/Project.mvc/Display/1989-096-00</a>
RME	Harvest RME	62	5	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	62	5	BPA	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-055-00">http://www.cbfish.org/Project.mvc/Display/1990-055-00</a>
RME	Harvest RME	62	5	BPA	1991-073-00	Idaho Natural Production Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-073-00">http://www.cbfish.org/Project.mvc/Display/1991-073-00</a>
RME	Harvest RME	62	5	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
RME	Harvest RME	62	5	BPA	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-35">http://www.cbfish.org/Project.mvc/Display/1995-063-35</a>
RME	Harvest RME	62	5	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Harvest RME	62	5	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Harvest RME	62	5	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
RME	Harvest RME	62	5	BPA	1997-038-00	Listed Stock Chinook Salmon Gamete Preservation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-038-00">http://www.cbfish.org/Project.mvc/Display/1997-038-00</a>
RME	Harvest RME	62	5	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
RME	Harvest RME	62	5	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Harvest RME	62	5	BPA	2002-030-00	Salmonid Progeny Markers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-030-00">http://www.cbfish.org/Project.mvc/Display/2002-030-00</a>
RME	Harvest RME	62	5	BPA	2002-053-00	Asotin Creek Salmon Population Assessment	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2002-053-00">http://www.cbfish.org/Project.mvc/Display/2002-053-00</a>
RME	Harvest RME	62	5	BPA	2003-039-00	Monitor and Evaluate (M&E) Reproductive Success and Survival in Wenatchee River	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-039-00">http://www.cbfish.org/Project.mvc/Display/2003-039-00</a>
RME	Harvest RME	62	5	BPA	2003-050-00	Evaluate the Reproductive Success of Wild and Hatchery Steelhead in Natural and Hatchery Environments	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-050-00">http://www.cbfish.org/Project.mvc/Display/2003-050-00</a>
RME	Harvest RME	62	5	BPA	2003-054-00	Evaluate the Relative Reproductive Success of Hatchery-Origin and Wild-Origin Steelhead Spawning Naturally in the Hood River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-054-00">http://www.cbfish.org/Project.mvc/Display/2003-054-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	62	5	BPA	2003-063-00	Natural Reproductive Success and Demographic Effects of Hatchery-Origin Steelhead in Abernathy Creek, Washington	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-063-00">http://www.cbfish.org/Project.mvc/Display/2003-063-00</a>
RME	Harvest RME	62	5	BPA	2007-404-00	Spring Chinook Captive Propagation-Oregon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-404-00">http://www.cbfish.org/Project.mvc/Display/2007-404-00</a>
RME	Harvest RME	62	5	BPA	2008-310-00	White River Supplementation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-310-00">http://www.cbfish.org/Project.mvc/Display/2008-310-00</a>
RME	Harvest RME	62	5	BPA	2008-907-00	Genetic Assessment of Columbia River Stocks	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-907-00">http://www.cbfish.org/Project.mvc/Display/2008-907-00</a>
RME	Harvest RME	62	5	BPA	2009-005-00	Influence of Environment and Landscape on Salmonid Genetics	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2009-005-00">http://www.cbfish.org/Project.mvc/Display/2009-005-00</a>
RME	Harvest RME	62	5	BPA	2010-026-00	Chinook and Steelhead Genotyping for Genetic Stock Identification (GSI) at Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-026-00">http://www.cbfish.org/Project.mvc/Display/2010-026-00</a>
RME	Harvest RME	62	5	BPA	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-028-00">http://www.cbfish.org/Project.mvc/Display/2010-028-00</a>
RME	Harvest RME	62	5	BPA	2010-030-00	Project to provided VSP Estimates for Yakima Steelhead MPG	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-030-00">http://www.cbfish.org/Project.mvc/Display/2010-030-00</a>
RME	Harvest RME	62	5	BPA	2010-031-00	Snake River Chinook and Steelhead Parental Based Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-031-00">http://www.cbfish.org/Project.mvc/Display/2010-031-00</a>
RME	Harvest RME	62	5	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>
RME	Harvest RME	63	1	BPA	2010-076-00	Characterizing migration and survival for juvenile Snake River sockeye salmon between the upper Salmon River basin and Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-076-00">http://www.cbfish.org/Project.mvc/Display/2010-076-00</a>
RME	Harvest RME	63	1	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	63	1	BPA	1989-096-00	Genetic Monitoring and Evaluation (M&E) Program for Salmon and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-096-00">http://www.cbfish.org/Project.mvc/Display/1989-096-00</a>
RME	Harvest RME	63	1	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Harvest RME	63	1	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
RME	Harvest RME	63	1	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	63	1	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
RME	Harvest RME	63	1	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
RME	Harvest RME	63	1	BPA	1998-007-04	Grande Ronde Spring Chinook on Lostine/Catherine Creek/ Upper Grande Ronde Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-04">http://www.cbfish.org/Project.mvc/Display/1998-007-04</a>
RME	Harvest RME	63	1	BPA	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-016-00">http://www.cbfish.org/Project.mvc/Display/1998-016-00</a>
RME	Harvest RME	63	1	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Harvest RME	63	1	BPA	2007-132-00	NEOH Monitoring & Evaluation Implementation (Formerly a component of 198805301)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-132-00">http://www.cbfish.org/Project.mvc/Display/2007-132-00</a>
RME	Harvest RME	63	1	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
RME	Harvest RME	63	1	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>
RME	Harvest RME	63	1	BPA	2007-404-00	Spring Chinook Captive Propagation-Oregon	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2007-404-00">http://www.cbfish.org/Project.mvc/Display/2007-404-00</a>
RME	Harvest RME	63	1	BPA	2008-710-00	Development of an Integrated strategy for Chum Salmon Restoration in the tributaries below Bonneville Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-710-00">http://www.cbfish.org/Project.mvc/Display/2008-710-00</a>
RME	Harvest RME	63	1	BPA	2010-042-00	Tucannon Expanded Pit Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-042-00">http://www.cbfish.org/Project.mvc/Display/2010-042-00</a>
RME	Harvest RME	63	2	BPA	2010-076-00	Characterizing migration and survival for juvenile Snake River sockeye salmon between the upper Salmon River basin and Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-076-00">http://www.cbfish.org/Project.mvc/Display/2010-076-00</a>
RME	Harvest RME	63	2	BPA	1993-056-00	Advance Hatchery Reform Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-056-00">http://www.cbfish.org/Project.mvc/Display/1993-056-00</a>
RME	Harvest RME	63	2	BPA	2010-042-00	Tucannon Expanded Pit Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-042-00">http://www.cbfish.org/Project.mvc/Display/2010-042-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	63	2	BPA	2010-050-00	Evaluation of the Tucannon endemic program	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-050-00">http://www.cbfish.org/Project.mvc/Display/2010-050-00</a>
RME	Harvest RME	64	1	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>
RME	Harvest RME	64	1	BPA	1989-096-00	Genetic Monitoring and Evaluation (M&E) Program for Salmon and Steelhead	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1989-096-00">http://www.cbfish.org/Project.mvc/Display/1989-096-00</a>
RME	Harvest RME	64	1	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
RME	Harvest RME	64	1	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
RME	Harvest RME	64	1	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
RME	Harvest RME	64	1	BPA	1998-007-04	Grande Ronde Spring Chinook on Lostine/Catherine Creek/ Upper Grande Ronde Rivers	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-04">http://www.cbfish.org/Project.mvc/Display/1998-007-04</a>
RME	Harvest RME	64	1	BPA	2003-039-00	Monitor and Evaluate (M&E) Reproductive Success and Survival in Wenatchee River	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-039-00">http://www.cbfish.org/Project.mvc/Display/2003-039-00</a>
RME	Harvest RME	64	1	BPA	2003-054-00	Evaluate the Relative Reproductive Success of Hatchery-Origin and Wild-Origin Steelhead Spawning Naturally in the Hood River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-054-00">http://www.cbfish.org/Project.mvc/Display/2003-054-00</a>
RME	Harvest RME	64	1	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Harvest RME	64	2	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	64	2	BPA	1988-053-01	Northeast Oregon Hatchery Master Plan	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-01">http://www.cbfish.org/Project.mvc/Display/1988-053-01</a>
RME	Harvest RME	64	2	BPA	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-03">http://www.cbfish.org/Project.mvc/Display/1988-053-03</a>
RME	Harvest RME	64	2	BPA	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-053-04">http://www.cbfish.org/Project.mvc/Display/1988-053-04</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	64	2	BPA	1989-096-00	Genetic Monitoring and Evaluation (M&E) Program for Salmon and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-096-00">http://www.cbfish.org/Project.mvc/Display/1989-096-00</a>
RME	Harvest RME	64	2	BPA	1989-098-00	Salmon Studies in Idaho Rivers-Idaho Department of Fish and Game (IDFG)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-098-00">http://www.cbfish.org/Project.mvc/Display/1989-098-00</a>
RME	Harvest RME	64	2	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Harvest RME	64	2	BPA	1992-026-04	Grande Ronde Early Life History of Spring Chinook and Steelhead	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1992-026-04">http://www.cbfish.org/Project.mvc/Display/1992-026-04</a>
RME	Harvest RME	64	2	BPA	1993-056-00	Advance Hatchery Reform Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1993-056-00">http://www.cbfish.org/Project.mvc/Display/1993-056-00</a>
RME	Harvest RME	64	2	BPA	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1995-063-25">http://www.cbfish.org/Project.mvc/Display/1995-063-25</a>
RME	Harvest RME	64	2	BPA	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-043-00">http://www.cbfish.org/Project.mvc/Display/1996-043-00</a>
RME	Harvest RME	64	2	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Harvest RME	64	2	BPA	1997-030-00	Chinook Salmon Adult Abundance Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-030-00">http://www.cbfish.org/Project.mvc/Display/1997-030-00</a>
RME	Harvest RME	64	2	BPA	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-02">http://www.cbfish.org/Project.mvc/Display/1998-007-02</a>
RME	Harvest RME	64	2	BPA	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-03">http://www.cbfish.org/Project.mvc/Display/1998-007-03</a>
RME	Harvest RME	64	2	BPA	1998-007-04	Grande Ronde Spring Chinook on Lostine/Catherine Creek/ Upper Grande Ronde Rivers	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-007-04">http://www.cbfish.org/Project.mvc/Display/1998-007-04</a>
RME	Harvest RME	64	2	BPA	1998-010-04	Monitor and Evaluate (M&E) Performance of Juvenile Snake River Fall Chinook Salmon from Fall Chinook Acclimation Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-010-04">http://www.cbfish.org/Project.mvc/Display/1998-010-04</a>
RME	Harvest RME	64	2	BPA	2000-039-00	Walla Walla River Basin Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2000-039-00">http://www.cbfish.org/Project.mvc/Display/2000-039-00</a>
RME	Harvest RME	64	2	BPA	2002-031-00	Growth Modulation in Salmon Supplementation	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2002-031-00">http://www.cbfish.org/Project.mvc/Display/2002-031-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	64	2	BPA	2003-039-00	Monitor and Evaluate (M&E) Reproductive Success and Survival in Wenatchee River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-039-00">http://www.cbfish.org/Project.mvc/Display/2003-039-00</a>
RME	Harvest RME	64	2	BPA	2003-050-00	Evaluate the Reproductive Success of Wild and Hatchery Steelhead in Natural and Hatchery Environments	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-050-00">http://www.cbfish.org/Project.mvc/Display/2003-050-00</a>
RME	Harvest RME	64	2	BPA	2003-054-00	Evaluate the Relative Reproductive Success of Hatchery-Origin and Wild-Origin Steelhead Spawning Naturally in the Hood River	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-054-00">http://www.cbfish.org/Project.mvc/Display/2003-054-00</a>
RME	Harvest RME	64	2	BPA	2003-063-00	Natural Reproductive Success and Demographic Effects of Hatchery-Origin Steelhead in Abernathy Creek, Washington	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-063-00">http://www.cbfish.org/Project.mvc/Display/2003-063-00</a>
RME	Harvest RME	64	2	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Harvest RME	64	2	BPA	2007-132-00	NEOH Monitoring & Evaluation Implementation (Formerly a component of 198805301)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-132-00">http://www.cbfish.org/Project.mvc/Display/2007-132-00</a>
RME	Harvest RME	64	2	BPA	2007-299-00	Investigation of Relative Reproductive Success of Stray Hatchery & Wild Steelhead & Influence of Hatchery Strays on Natural Productivity in Deschutes	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-299-00">http://www.cbfish.org/Project.mvc/Display/2007-299-00</a>
RME	Harvest RME	64	2	BPA	2007-401-00	Kelt Reconditioning and Reproductive Success Evaluation Research	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-401-00">http://www.cbfish.org/Project.mvc/Display/2007-401-00</a>
RME	Harvest RME	64	2	BPA	2007-402-00	Snake River Sockeye Captive Propagation	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-402-00">http://www.cbfish.org/Project.mvc/Display/2007-402-00</a>
RME	Harvest RME	64	2	BPA	2007-403-00	Spring Chinook Captive Propagation-Idaho	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-403-00">http://www.cbfish.org/Project.mvc/Display/2007-403-00</a>
RME	Harvest RME	64	2	BPA	2007-404-00	Spring Chinook Captive Propagation-Oregon	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-404-00">http://www.cbfish.org/Project.mvc/Display/2007-404-00</a>
RME	Harvest RME	64	2	BPA	2008-458-00	Steelhead Kelt Reconditioning	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-458-00">http://www.cbfish.org/Project.mvc/Display/2008-458-00</a>
RME	Harvest RME	64	2	BPA	2010-031-00	Snake River Chinook and Steelhead Parental Based Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-031-00">http://www.cbfish.org/Project.mvc/Display/2010-031-00</a>
RME	Harvest RME	64	2	BPA	2010-032-00	Imnaha River Steelhead Status Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-032-00">http://www.cbfish.org/Project.mvc/Display/2010-032-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Harvest RME	64	2	BPA	2010-033-00	Study Reproductive Success of Hatchery and Natural Origin Steelhead in the Methow	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-033-00">http://www.cbfish.org/Project.mvc/Display/2010-033-00</a>
RME	Harvest RME	64	2	BPA	2010-042-00	Tucannon Expanded Pit Tagging	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-042-00">http://www.cbfish.org/Project.mvc/Display/2010-042-00</a>
RME	Harvest RME	64	2	BPA	2010-085-00	Columbia River Hatchery Effects Evaluation Team (CRHEET)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-085-00">http://www.cbfish.org/Project.mvc/Display/2010-085-00</a>
RME	Harvest RME	64	3	BPA	2010-033-00	Study Reproductive Success of Hatchery and Natural Origin Steelhead in the Methow	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-033-00">http://www.cbfish.org/Project.mvc/Display/2010-033-00</a>
RME	Harvest RME	65	1	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	65	1	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Harvest RME	65	1	BPA	1998-010-04	Monitor and Evaluate (M&E) Performance of Juvenile Snake River Fall Chinook Salmon from Fall Chinook Acclimation Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-010-04">http://www.cbfish.org/Project.mvc/Display/1998-010-04</a>
RME	Harvest RME	65	2	BPA	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1983-350-03">http://www.cbfish.org/Project.mvc/Display/1983-350-03</a>
RME	Harvest RME	65	2	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Harvest RME	65	2	BPA	1998-010-04	Monitor and Evaluate (M&E) Performance of Juvenile Snake River Fall Chinook Salmon from Fall Chinook Acclimation Project	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-010-04">http://www.cbfish.org/Project.mvc/Display/1998-010-04</a>
RME	Harvest RME	65	3	BPA	1991-029-00	Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/1991-029-00">http://www.cbfish.org/Project.mvc/Display/1991-029-00</a>
RME	Predation Mgmt RME	66	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>
RME	Predation Mgmt RME	67	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>
RME	Predation Mgmt RME	68	All	BPA	1997-024-00	Avian Predation on Juvenile Salmonids	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-024-00">http://www.cbfish.org/Project.mvc/Display/1997-024-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Predation Mgmt RME	69	All	BPA	2008-004-00	Sea Lion Non-Lethal Hazing	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-004-00">http://www.cbfish.org/Project.mvc/Display/2008-004-00</a>
RME	Predation Mgmt RME	70	1	BPA	1990-077-00	Development of Systemwide Predator Control	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-077-00">http://www.cbfish.org/Project.mvc/Display/1990-077-00</a>
RME	Predation Mgmt RME	70	2	BPA	1990-077-00	Development of Systemwide Predator Control	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-077-00">http://www.cbfish.org/Project.mvc/Display/1990-077-00</a>
RME	Predation Mgmt RME	70	3	BPA	1990-077-00	Development of Systemwide Predator Control	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-077-00">http://www.cbfish.org/Project.mvc/Display/1990-077-00</a>
RME	Predation Mgmt RME	70	4	BPA	2008-719-00	Research Non-Indigenous Actions	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-719-00">http://www.cbfish.org/Project.mvc/Display/2008-719-00</a>
RME	Predation Mgmt RME	70	4	BPA	2010-076-00	Characterizing migration and survival for juvenile Snake River sockeye salmon between the upper Salmon River basin and Lower Granite Dam	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-076-00">http://www.cbfish.org/Project.mvc/Display/2010-076-00</a>
RME	Coordination & Data Mgmt	71	3	BPA	1994-033-00	Fish Passage Center	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1994-033-00">http://www.cbfish.org/Project.mvc/Display/1994-033-00</a>
RME	Coordination & Data Mgmt	71	3	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Coordination & Data Mgmt	71	4	BPA	1988-108-04	StreamNet - Coordinated Information System (CIS)/ Northwest Environmental Database (NED)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-108-04">http://www.cbfish.org/Project.mvc/Display/1988-108-04</a>
RME	Coordination & Data Mgmt	71	4	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2003-072-00	Habitat and Biodiversity Information System for Columbia River Basin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-072-00">http://www.cbfish.org/Project.mvc/Display/2003-072-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Coordination & Data Mgmt	71	4	BPA	2008-507-00	Tribal Data Network	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-507-00">http://www.cbfish.org/Project.mvc/Display/2008-507-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Coordination & Data Mgmt	71	4	BPA	2011-008-00	Technical Support for BiOp RM&E Coordinated Assessments	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2011-008-00">http://www.cbfish.org/Project.mvc/Display/2011-008-00</a>
RME	Coordination & Data Mgmt	71	5	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Coordination & Data Mgmt	71	5	BPA	2003-072-00	Habitat and Biodiversity Information System for Columbia River Basin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-072-00">http://www.cbfish.org/Project.mvc/Display/2003-072-00</a>
RME	Coordination & Data Mgmt	71	5	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	71	6	BPA	2003-072-00	Habitat and Biodiversity Information System for Columbia River Basin	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-072-00">http://www.cbfish.org/Project.mvc/Display/2003-072-00</a>
RME	Coordination & Data Mgmt	71	6	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	1989-062-01	Annual Work Plan for Columbia Basin Fish and Wildlife Authority (CBFWA)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-062-01">http://www.cbfish.org/Project.mvc/Display/1989-062-01</a>
RME	Coordination & Data Mgmt	72	1	BPA	1988-108-04	StreamNet - Coordinated Information System (CIS)/ Northwest Environmental Database (NED)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-108-04">http://www.cbfish.org/Project.mvc/Display/1988-108-04</a>
RME	Coordination & Data Mgmt	72	1	BPA	1998-031-00	Implement Wy-Kan-Ush-Mi Wa-Kish-Wit	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-031-00">http://www.cbfish.org/Project.mvc/Display/1998-031-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Ended	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-022-00">http://www.cbfish.org/Project.mvc/Display/2003-022-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2007-083-00">http://www.cbfish.org/Project.mvc/Display/2007-083-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2008-507-00	Tribal Data Network	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-507-00">http://www.cbfish.org/Project.mvc/Display/2008-507-00</a>
RME	Coordination & Data Mgmt	72	1	BPA	2008-727-00	Regional Data Management Support and Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-727-00">http://www.cbfish.org/Project.mvc/Display/2008-727-00</a>

**Attachment 1 - Table 1. BPA Project List**

H-Section	BiOp Strategy	Action No.	Sub-Action No.	Lead Agency	Project No.	Project Title	RPA Association Status	Project Information Internet Link
RME	Coordination & Data Mgmt	72	2	BPA	1989-062-01	Annual Work Plan for Columbia Basin Fish and Wildlife Authority (CBFWA)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1989-062-01">http://www.cbfish.org/Project.mvc/Display/1989-062-01</a>
RME	Coordination & Data Mgmt	72	2	BPA	1988-108-04	StreamNet - Coordinated Information System (CIS)/ Northwest Environmental Database (NED)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-108-04">http://www.cbfish.org/Project.mvc/Display/1988-108-04</a>
RME	Coordination & Data Mgmt	72	2	BPA	1990-080-00	Columbia Basin Pit-Tag Information	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1990-080-00">http://www.cbfish.org/Project.mvc/Display/1990-080-00</a>
RME	Coordination & Data Mgmt	72	2	BPA	1996-019-00	Data Access in Real Time (DART)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1996-019-00">http://www.cbfish.org/Project.mvc/Display/1996-019-00</a>
RME	Coordination & Data Mgmt	72	2	BPA	1997-015-01	Imnaha River Smolt Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1997-015-01">http://www.cbfish.org/Project.mvc/Display/1997-015-01</a>
RME	Coordination & Data Mgmt	72	2	BPA	2003-017-00	Integrated Status and Effectiveness Monitoring Program (ISEMP)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-017-00">http://www.cbfish.org/Project.mvc/Display/2003-017-00</a>
RME	Coordination & Data Mgmt	72	2	BPA	2008-507-00	Tribal Data Network	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-507-00">http://www.cbfish.org/Project.mvc/Display/2008-507-00</a>
RME	Coordination & Data Mgmt	72	2	BPA	2008-727-00	Regional Data Management Support and Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-727-00">http://www.cbfish.org/Project.mvc/Display/2008-727-00</a>
RME	Coordination & Data Mgmt	72	2	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Coordination & Data Mgmt	72	3	BPA	1982-013-01	Coded Wire Tag-Pacific States Marine Fisheries Commission (PSMFC)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1982-013-01">http://www.cbfish.org/Project.mvc/Display/1982-013-01</a>
RME	Coordination & Data Mgmt	72	3	BPA	1988-108-04	StreamNet - Coordinated Information System (CIS)/ Northwest Environmental Database (NED)	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1988-108-04">http://www.cbfish.org/Project.mvc/Display/1988-108-04</a>
RME	Coordination & Data Mgmt	72	3	BPA	1998-031-00	Implement Wy-Kan-Ush-Mi Wa-Kish-Wit	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/1998-031-00">http://www.cbfish.org/Project.mvc/Display/1998-031-00</a>
RME	Coordination & Data Mgmt	72	3	BPA	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2003-007-00">http://www.cbfish.org/Project.mvc/Display/2003-007-00</a>
RME	Coordination & Data Mgmt	72	3	BPA	2004-002-00	Pacific Northwest Aquatic Monitoring Program (PNAMP) Coordination	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2004-002-00">http://www.cbfish.org/Project.mvc/Display/2004-002-00</a>
RME	Coordination & Data Mgmt	72	3	BPA	2008-507-00	Tribal Data Network	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2008-507-00">http://www.cbfish.org/Project.mvc/Display/2008-507-00</a>
RME	Coordination & Data Mgmt	72	3	BPA	2011-006-00	Columbia Habitat and Monitoring Program - Pilot (CHaMP-P)	Initiated	<a href="http://www.cbfish.org/Project.mvc/Display/2011-006-00">http://www.cbfish.org/Project.mvc/Display/2011-006-00</a>
RME	Imp & Comp Monitoring	73	1	BPA	2010-075-00	Upper Columbia Implementation and Action Effectiveness Monitoring	Continued	<a href="http://www.cbfish.org/Project.mvc/Display/2010-075-00">http://www.cbfish.org/Project.mvc/Display/2010-075-00</a>

**Attachment 1 - Table 2. Reclamation Project List**

H-Section	BiOp Strategy	Action No.	Sub-action No.	Lead Agency	Project No.	Project Title	RPA Association Status
Hatchery	Ensure Funded Hatchery Programs are not Impeding Recovery	40	4	Reclamation	N/A	Winthrop Adult Holding and Spawning Facility	Under Construction
Hatchery	Ensure Funded Hatchery Programs are not Impeding Recovery	40	4	Reclamation	N/A	Project Alternative Solutions Study (PASS): Winthrop National Fish Hatchery Steelhead Management – RPA Action 40 Implementation Proposals	Study Completed, Draft Report
RME	Tributary Habitat RME	56	All	Reclamation	4887	Methow Fish Prod, Food Webs	Completed
RME	Tributary Habitat RME	56	All	Reclamation	4806	Landscape Classification	Completed
RME	Tributary Habitat RME	57	All	Reclamation	4887	Methow Channel Restoration Fish Productivity Response	Continuing
RME	Tributary Habitat RME	57	All	Reclamation	4806	Landscape Influences on Stream Condition	Continuing
RME	Tributary Habitat RME	56, 57	All	Reclamation	4445	Methow River Basin Demonstration	Continuing
RME	Coordination & Data Mgmt RME	71	All	Reclamation	4930	PNAMP	Continuing
RME	Coordination & Data Mgmt RME	72	All	Reclamation	4445	Integrated Data Modeling, Analyst and Management Activities	Continuing

**Attachment 1 - Table 3. Corps Project List**

H-Section	BiOp Strategy	Action No.	Sub-action No.	Agency	Project No.	Project Title	RPA Association Status
RME	Fish Population Status Monit RME	51	1	NMFS, COE, BPA	2012-001-00	Adaptive Management Implementation Plan (AMIP) Life Cycle Modeling	Continuing
RME	Hydrosystem RME	52	1	COE	SPE-P-10-2	Passage and Survival of Juvenile Salmonids at The Dalles Dam	Continuing
RME	Hydrosystem RME	52	1, 2, 3, 4, 5, 9	COE	SPE-W-05-1	Supplemental Behavior Analysis of Sockeye Salmon and Multi-Year Spillway Survival Analysis for all Species as a Function of Spillbay Operations at McNary Dam.	Continuing
RME	Hydrosystem RME	52	2	COE	SPE-P-10-1	Passage Behavior and Survival of Juvenile Salmonids at Bonneville Dam	New
RME	Hydrosystem RME	52	2	COE	TPE-W-00-04	Evaluating the Responses of Snake River Basin Fall Chinook Salmon to Dam Passage Strategies and Experiences	Continuing
RME	Hydrosystem RME	52	2	COE	TPE-W-04-1	Determine the seasonal effects of transporting fish from the Snake River to optimize a transportation strategy.	Continuing
RME	Hydrosystem RME	52	2	COE	TPE-W-10-1	Determine the feasibility of conducting a sockeye transportation evaluation	New
RME	Hydrosystem RME	54	1,2,3,4	COE	SPE-P-08-3	Passage Behavior and Survival of Juvenile Salmonids at Bonneville Dam	Continuing
RME	Hydrosystem RME	54	1, 2, 3, 4, 5, 9	COE	SPE-W-05-1	Supplemental Behavior Analysis of Sockeye Salmon and Multi-Year Spillway Survival Analysis for all Species as a Function of Spillbay Operations at McNary Dam	Continuing
RME	Hydrosystem RME	54	1, 3, 5, 8	COE	SPE-P-08-3	Studies of Surface Spill at John Day Dam	Continuing
RME	Hydrosystem RME	21	1	COE	ADS-W-11-5	McNary dam steelhead fallback study	Continuing
RME	Hydrosystem RME	53	3	COE	SPE-W-11-3	Investigate juvenile fish impingement on the Oregon shore fish ladder screens at McNary dam.	Continuing
RME	Hydrosystem RME	54	2	COE	BPS-00-10	Determine survival to adult rates for juvenile salmon in the juvenile bypass systems relative to those passing undetected	Continuing
RME	Hydrosystem RME	54	2	COE	TPE-W-10-1	Determine the feasibility of conducting a sockeye transportation evaluation	New
RME	Hydrosystem RME	54	5	COE	SPE-P-10-1	Passage Behavior and Survival of Juvenile Salmonids at Bonneville Dam	Continuing
RME	Hydrosystem RME	54	6	COE	TPE-W-00-04	Evaluating the Responses of Snake River Basin Fall Chinook Salmon to Dam Passage Strategies and Experiences	Continuing

**Attachment 1 - Table 3. Corps Project List**

H-Section	BiOp Strategy	Action No.	Sub-action No.	Agency	Project No.	Project Title	RPA Association Status
RME	Hydrosystem RME	54	6	COE	TPE-W-04-1	Determine the seasonal effects of transporting fish from the Snake River to optimize a transportation strategy.	Continuing
RME	Hydrosystem RME	54	6, 10	COE	TPE-W-11-4	Evaluation of methods to reduce straying rates of barged juvenile steelhead.	New
RME	Hydrosystem RME	54	8	COE	AVS-W-03-01	Avian Predation at John Day and The Dalles Dams 2011: Estimated Fish Consumption Using Direct Observation	Continuing
RME	Hydrosystem RME	54	8	COE	AVS-W-03-01	Electronic recovery of ISO-PIT tags from avian predators in the Columbia River Basin.	Continuing
RME	Hydrosystem RME	54	8	COE	AVS-W-03-01	Research, Monitoring, and Evaluation of Avian Predation on Salmonid Smolts in the Lower and Mid-Columbia River: 2011	Continuing
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Benefits to Columbia River Anadromous Salmonids from Potential Reductions in Avian Predation on the Columbia Plateau	New
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Impacts of Avian Predation on Salmonid Smolts from the Columbia and Snake Rivers <i>2004-2009 Synthesis Report</i>	New
RME	Hydrosystem RME	54	9	COE	SPE-P-06-2	Evaluation of Tag Effects on Acoustic-Tagged Juvenile Salmonids	Continuing
RME	Hydrosystem RME	54	14	COE	ADS-W-11-3	Steelhead kelt and fallback passage through lower Columbia and lower Snake River dams	New
RME	Hydrosystem RME	55	1	COE	BPS-00-10	Snake River Basin differential delayed mortality Synthesis Report: Evaluate comparative delayed mortality of transported and in-river migrating juvenile salmon and steelhead	Continuing
RME	Hydrosystem RME	55	1	COE	TPE-W-04-1	Determine the seasonal effects of transporting fish from the Snake River to optimize a transportation strategy.	Continuing
RME	Hydrosystem RME	55	1, 2	COE	TPE-W-00-04	Evaluating the Responses of Snake River Basin Fall Chinook Salmon to Dam Passage Strategies and Experiences	Continuing
RME	Hydrosystem RME	55	2	COE	TPE-W-04-1	Survival of yearling Chinook salmon during barge transport.	Completed
RME	Hydrosystem RME	55	2	COE	TPE-W-04-1	Determine the seasonal effects of transporting fish from the Snake River to optimize a transportation strategy.	Continuing
RME	Hydrosystem RME	55	4	COE	TPE-W-11-2	Overwintering locations for juvenile Snake River fall Chinook salmon	New
RME	Hydrosystem RME	55	6	COE	TSP-05-1	Biological Index Testing of Snake and Columbia River Dam Turbines-Determining Best Powerhouse Operation for Fish Passage	Continuing
RME	Hydrosystem RME	55	6	COE	TSP-06-1	Biological Index Testing of Snake and Columbia River Dam Turbines-Determining Best Operating Point for Turbines	Continuing

**Attachment 1 - Table 3. Corps Project List**

H-Section	BiOp Strategy	Action No.	Sub-action No.	Agency	Project No.	Project Title	RPA Association Status
RME	Estuary Habitat RME	58	1,2	COE	EST-P-09-1	Evaluation of Life History Diversity, Habitat Connectivity, and Survival Benefits Associated with Habitat Restoration Actions in the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	58	2, 3, 4	COE	EST-P-05-1	Action Effectiveness Research and Monitoring of Ecosystem Restoration Actions within the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	58	all	COE	EST-P-10-1	The Contribution of Tidal Fluvial Habitats in the Columbia River Estuary to the Recovery of Diverse Salmon ESUs	New
RME	Estuary Habitat RME	59	1,3,4,5	COE	EST-P-09-1	Evaluation of Life History Diversity, Habitat Connectivity, and Survival Benefits Associated with Habitat Restoration Actions in the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	59	1,4	COE	EST-P-05-1	Action Effectiveness Research and Monitoring of Ecosystem Restoration Actions within the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	59	all	COE	EST-P-10-1	The Contribution of Tidal Fluvial Habitats in the Columbia River Estuary to the Recovery of Diverse Salmon ESUs	New
RME	Estuary Habitat RME	60	1, 2, 3	COE	EST-P-02-4	Evaluating Cumulative Ecosystem Response to Habitat Restoration Projects in the Lower Columbia River Estuary	Continuing
RME	Estuary Habitat RME	60	2,3	COE	EST-P-05-1	Action Effectiveness Research and Monitoring of Ecosystem Restoration Actions within the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	60	3	COE	EST-P-09-1	Evaluation of Life History Diversity, Habitat Connectivity, and Survival Benefits Associated with Habitat Restoration Actions in the Lower Columbia River and Estuary	Continuing
RME	Estuary Habitat RME	61	3	COE	EST-P-10-1	The Contribution of Tidal Fluvial Habitats in the Columbia River Estuary to the Recovery of Diverse Salmon ESUs	New
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Avian Predation at John Day and The Dalles Dams 2011: Estimated Fish Consumption Using Direct Observation	Continuing
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Benefits to Columbia River Anadromous Salmonids From Potential Reductions in Avian Predation on the Columbia Plateau.	New
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Impacts of Avian Predation on Salmonid Smolts from the Columbia and Snake Rivers 2004-2009 Synthesis Report	New
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Electronic Recovery of PIT Tags from Piscivorous Bird Colonies in the Columbia River Basin	Continuing
RME	Predation Mgmt RME	68	n/a	COE	AVS-W-03-01	Research, Monitoring, and Evaluation of Avian Predation on Salmonid Smolts in the Lower and Mid-Columbia River: 2011	Continuing
RME	Predation Mgmt RME	69	1, 2	COE	ADS-P-02-16	Assessment of Sea Lion Predation and Abundance in the Bonneville Dam Tailrace	Continuing

Page is intentionally blank.

## Attachment 2: Summary of 2011 Tributary Habitat Accomplishments by Population

Attachment 2 summarizes metrics at the population level for tributary habitat measures implemented with funding from BPA or with technical assistance from Reclamation in 2011. BPA uses Pisces, a contract management system, to track and record planned and actual work accomplishments. Details for BPA projects (9-digit numbers) can be found in Pisces via the links provided or in BPA's Report Center Habitat Metrics Report, available at <http://www.efw.bpa.gov/IntegratedFWP/reportcenter.aspx>. Details of

Reclamation projects (USBR 4-digit numbers) are available in Attachment 2, Tables 2 and 3 via the links provided or by referencing the BiOp ID in those tables. In some cases, Reclamation projects complement BPA projects (both agencies participate in the same project) so both project numbers are provided but metrics are only reported once per ESU/DPS. Projects and metrics may be reported twice in this attachment (once under each ESU/DPS) if they improve habitat for both a Chinook salmon ESU and a steelhead DPS.

\* For populations where Limiting Factors and Planned Metrics are not identified, projects were implemented through Fish Accords agreements with various State and Tribal partners and/or were associated with a broader BPA Fish and Wildlife Program.  
 \*\*Only metrics completed in 2011 are reported. Metrics planned for 2010-2012 not reported here may be either previously completed or in progress. Cumulative metrics will be reported in the 2013 Comprehensive Evaluation.

**Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population**

ESU/DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Spring/Summer-run Chinook Salmon ESU	Dry Clearwater	Lapwai/Big Canyon	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Complexity:</b> 0.14 miles improved <b>WQ/Riparian:</b> 1.69 Stream miles protected 1.15 Riparian miles improved 7 Riparian acres improved	<a href="#">1999-017-00: Protect and Restore Lapwai Creek Watershed</a> <a href="#">2002-070-00: Lapwai Creek Anadromous Habitat</a>
		Potlatch River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Passage:</b> 1 barrier addressed <b>WQ/Riparian:</b> 7.27 Riparian Acres protected	<a href="#">2002-061-00: Potlatch River Watershed Restoration</a> <a href="#">2008-604-00: Lwr Clearwater &amp; Potlatch Watersheds Habitat Improvements</a>
		Upper South Fork Clearwater	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Passage:</b> 1 barrier addressed <b>WQ/Riparian:</b> 8 Riparian miles improved 98 Riparian acres improved	<a href="#">1996-077-05: Meadow Creek Watershed Restoration</a> <a href="#">2000-036-00: Mill Creek Watershed Restoration</a> <a href="#">2002-072-00: Red River Watershed Restoration</a> <a href="#">2010-003-00: Lower S Fork Clearwater River Watershed Restoration</a>
	Grand Ronde/Imnaha	Catherine Creek	<b>Flow:</b> Low summer flows <b>Passage:</b> Barriers <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Degraded riparian High summer temps Excess fine sediment	<b>Flow:</b> None identified in 2010-2012 IP <b>Passage:</b> Improve access to 45 miles <b>Complexity:</b> Add 0.1 mile off-channel habitat <b>WQ/Riparian:</b> Protect 1 stream mile Treat 90 wetland acres	<b>Flow:</b> 190.2 af, 0.75 cfs protected <b>Passage:</b> ** <b>Complexity:</b> 4.3 miles improved <b>WQ/Riparian:</b> 2.0 Stream miles protected 15.7 Stream miles improved <b>Other:</b> Treated 10 upland acres	<a href="#">1984-025-00: Blue Mountain Fish Habitat Improvement</a> <a href="#">1992-026-01: Grand Ronde Model Watershed</a> <a href="#">2008-206-00: Instream Flow Restoration</a>
		Grand Ronde River Upper Mainstem	<b>Flow:</b> Low summer flows <b>Passage:</b> Not identified <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Degraded riparian Excess fine sediment Water temperature	<b>Flow:</b> None identified in 2010-2012 IP <b>Passage:</b> None identified in 2010-2012 IP <b>Complexity:</b> Treat 14.7 stream miles <b>WQ/Riparian:</b> Treat 1.5 miles stream channel Remove 0.4 miles road	<b>Flow:</b> ** <b>Passage:</b> 2 barriers addressed <b>Complexity:</b> 11.6 stream miles improved <b>WQ/Riparian:</b> 15.7 Riparian miles improved 15.5 Riparian acres protected 106 Riparian acres improved	<a href="#">1992-026-01: Grand Ronde Model Watershed</a> <a href="#">1996-083-00: Grand Ronde Watershed Restoration</a>
		Imnaha River Mainstem	<b>Passage:</b> Barriers <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Excess fine sediment	<b>Passage:</b> Improve access to 0.5 miles <b>Complexity:</b> None identified in 2010-2012 IP <b>WQ/Riparian:</b> Treat 5 road miles Treat ≈ 5 riparian/stream miles	** No projects in 2011.	No projects in 2011.
		Lostine River	<b>Flow:</b> Not identified <b>Passage:</b> Barriers <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Degraded riparian Excess fine sediment Floodplain connectivity	<b>Flow:</b> None identified in 2010-2012 IP <b>Passage:</b> Improve access to 37 miles <b>Complexity:</b> Reconnect 0.75 miles stream channel <b>WQ/Riparian:</b> Treat <10 wetland acres Treat 1.0 miles floodplain or riparian	<b>Flow:</b> 1,188 af, 15 cfs protected <b>Passage:</b> ** <b>Complexity:</b> 0.25 miles improved <b>WQ/Riparian:</b> **	<a href="#">1992-026-01: Grand Ronde Model Watershed</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU / DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Spring/Summer-run Chinook Salmon ESU	Lower Snake	Asotin Creek	Population not included in 2010-12 IP	No metrics planned in 2010-2012 IP	No projects in 2011.	No Projects in 2011.
		Tucannon River	<b>Complexity:</b> Complexity & connectivity <b>WQ/Riparian:</b> High water temperatures Degraded riparian	<b>Complexity:</b> Install structures in ≈ 0.6 stream mi. <b>WQ/Riparian:</b> Protect ≈ 5.5 miles of streambank Protect ≈ 200 riparian acres	<b>Complexity:</b> 0.53 miles improved <b>WQ/Riparian:</b> 0.9 miles improved 211.6 acres protected 16 acres treated	<a href="#">1994-018-06: Tucannon Stream and Riparian Restoration</a> <a href="#">1994-018-07: Garfield Co Fall Chinook and Steelhead Habitat Improvement</a> <a href="#">2008-202-00: Protect and Restore Tucannon Watershed</a>
	Middle Fork Salmon River	Big Creek	<b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess fine sediment	<b>Passage:</b> Improve access to ≈ 22 miles <b>WQ/Riparian:</b> Decommission ≈ 15 miles road	<b>Passage:</b> 1 barrier, improved 2.5 mi <b>WQ/Riparian:</b> **	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
		Camas Creek	Not included in 2010-12 IP	No metrics planned in 2010-2012 IP	** No projects in 2011.	No projects in 2011.
		Marsh Creek	Not included in 2010-12 IP	No metrics planned in 2010-2012 IP	** No projects in 2011.	No projects in 2011.
	South Fork Salmon River	E. Fork S Fork Salmon River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 0.5 Stream miles protected 10 Riparian acres protected	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
		Little Salmon River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 0.2 Stream miles improved 0.2 Riparian acres improved	<a href="#">2007-064-00: Slate Creek Watershed Restoration</a>
		Secesh River	<b>Passage:</b> Passage barriers <b>WQ/Riparian:</b> Excess sediments	<b>Passage:</b> Improve access to ≈ 12 miles <b>WQ/Riparian:</b> Decommission ≈ 45 miles road	<b>Passage:</b> ** <b>WQ/Riparian:</b> 6 Stream miles improved	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
		South Fork Salmon River	<b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess sediments High water temperature	<b>Passage:</b> Improve access to ≈ 18.6 miles <b>WQ/Riparian:</b> Enhance/Restore ≈ 3 riparian miles	<b>Passage:</b> 3 Barriers improved 10.72 miles <b>WQ/Riparian:</b> 0.02 Riparian miles improved 0.15 Riparian acres improved	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
	Upper Salmon River	East Fork Salmon River	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess fine sediment	<b>Flow:</b> Protect/acquire 3 cfs of water <b>Entrainment:</b> Install 3 fish screens <b>Passage:</b> Improve access to 1.9 miles <b>WQ/Riparian:</b> Protect ≈ 0.5 riparian miles	<b>Flow:</b> ** <b>Entrainment:</b> 3 screens addressed <b>Passage:</b> 1 barrier, improved 1 mi access <b>WQ/Riparian:</b> **	<a href="#">2007-399-00: Upper Salmon Screen Tributary Passage</a> Reclamation Project: <a href="#">4240</a>
		Lemhi	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>Complexity:</b> Degraded conditions <b>WQ/Riparian:</b> Degraded riparian Excess sediments High water temperatures	<b>Flow:</b> Protect/acquire 17 cfs water <b>Entrainment:</b> Install 12 fish screens <b>Passage:</b> Improve access to ≈ 23 miles <b>Complexity:</b> Reconnect 2.0 miles channel <b>WQ/Riparian:</b> Treat 8 stream miles	<b>Flow:</b> 5,645.4 af, 34.13 cfs protected <b>Entrainment:</b> 8 screens addressed <b>Passage:</b> 5 barriers improved 14.82 miles <b>Complexity:</b> 1.1 miles improved <b>WQ/Riparian:</b> 3.07 stream miles protected 4.2 Riparian miles improved 48.6 Riparian acres protected 27.66 Riparian acres improved	<a href="#">1994-015-00: Idaho Fish Screening Project</a> 1994-050-00: Salmon River Habitat Enhancement <a href="#">2007-394-00: Idaho Watershed Habitat Restoration-Lemhi</a> <a href="#">2007-399-00: Upper Salmon Screen Tributary Passage</a> <a href="#">2008-608-00: Idaho MOA/Fish Accord Water Transactions</a> <a href="#">2008-903-00: ESA Habitat Restoration</a> <a href="#">2010-072-00: Lemhi River Restoration</a> USBR Projects: <a href="#">4496</a> , <a href="#">4495</a> , <a href="#">4493</a> , <a href="#">4482</a> , <a href="#">4486</a> , <a href="#">4387</a> , <a href="#">4481</a> , <a href="#">4487</a> , <a href="#">4472</a> , <a href="#">4483</a> , <a href="#">4494</a> , <a href="#">4485</a> , <a href="#">4484</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Spring/Summer-run Chinook Salmon ESU	Upper Salmon River (continued)	Pahsimeroi	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>WQ/Riparian:</b> Degraded riparian habitat	<b>Flow:</b> Protect ≈ 5 cfs instream flow <b>Entrainment:</b> Install 3 fish screens <b>Passage:</b> Improve access to ≈ 15 miles <b>WQ/Riparian:</b> Protect ≈ 3.5 riparian miles Restore ≈ .5 riparian miles	<b>Flow:</b> ** <b>Entrainment:</b> ** <b>Passage:</b> 7 barriers addressed 12.38 miles <b>WQ/Riparian:</b> 8.09 Stream miles protected 1.7 stream miles improved 14.6 Riparian acres protected 4.85 Riparian acres improved	<a href="#">1994-015-00: Idaho Fish Screening Project Restoration-Lemhi</a> <a href="#">1994-050-00: Salmon River Habitat Enhancement</a> <a href="#">2008-603-00: Pahsimeroi River Habitat</a> USBR Projects <a href="#">4489</a> and <a href="#">4431</a>
		Panther Creek	Population not included in 2010-12 IP	No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 2.63 Stream miles protected 96 Riparian acres protected	<a href="#">1994-050-00: Salmon River Habitat Enhancement</a> <a href="#">2008-903-00: ESA Habitat Restoration</a>
		Lower Mainstem Salmon River Below Redfish Lake	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish Entrainment <b>Passage:</b> Barriers <b>Complexity:</b> Lack of complex habitat <b>WQ/Riparian:</b> --	<b>Flow:</b> Protect/acquire ≈ 5.5 cfs flow <b>Entrainment:</b> Install 4 fish screens <b>Passage:</b> Improve access to ≈ 17 miles <b>Complexity:</b> Add 500-1000 ft. side channel <b>WQ/Riparian:</b> --	<b>Flow:</b> Protected 591 af, 2 cfs flow <b>Entrainment:</b> 2 screens addressed <b>Passage:</b> ** <b>Complexity:</b> ** <b>WQ/Riparian:</b> 1.97 Stream miles protected 23 Riparian acres protected 12.5 riparian acres improved <b>Other:</b> Reconnected 0.07 mi stream channel	<a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2007-268-00: Idaho Watershed Habitat Restoration-Custer District</a> <a href="#">2007-399-00: Upper Salmon Screen Tributary Passage</a>
		Upper Mainstem Salmon River above Redfish Lake	<b>Flow:</b> Low stream flow <b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess fine sediment	<b>Flow:</b> Protect ≈ 11 cfs instream flow <b>Passage:</b> -- <b>WQ/Riparian:</b> Treat ≈ 1 stream mile	<b>Flow:</b> ** <b>Passage:</b> ** <b>WQ/Riparian:</b> 0.9 Stream miles protected 1.5 Riparian acres protected	<a href="#">2007-268-00: Idaho Watershed Habitat Restoration-Custer District</a>
		Valley Creek	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers	<b>Flow:</b> Protect ≈ 4 cfs instream flow <b>Entrainment:</b> Install 4 fish screens <b>Passage:</b> Improve access to 4 miles	<b>Flow:</b> ** <b>Entrainment:</b> ** <b>Passage:</b> **	No projects in 2011.
		Lochsa River	Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	** No projects in 2011.	No projects in 2011.
		Lolo Creek	Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 1 Riparian mile improved	<a href="#">1996-077-02: Lolo Creek Watershed Restoration</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU / DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Upper Columbia River Spring-run Chinook Salmon ESU	Upper Columbia/East Slope Cascades	Entiat	<b>Flow:</b> Low Stream flow <b>Entrainment:</b> -- <b>Passage:</b> -- <b>Complexity:</b> Complexity , connectivity	<b>Flow:</b> Protect 6.5 cfs water <b>Entrainment:</b> -- <b>Passage:</b> -- <b>Complexity:</b> Reconnect ≈ 0.5 miles side channel Treat ≈ 1.9 stream miles	<b>Flow:</b> ** <b>Entrainment:</b> 5 Screens addressed <b>Passage:</b> 60 miles improved access <b>Complexity:</b> 0.16 Stream miles improved <b>WQ/Riparian:</b> 0.63 Riparian miles improved	<a href="#">2007-231-00: Entiat River Riparian Restoration</a> USBR Projects: <a href="#">4501</a> , <a href="#">4502</a> , <a href="#">4503</a>
		Methow	<b>Flow:</b> Low Stream flow <b>Entrainment:</b> -- <b>Passage:</b> -- <b>Complexity:</b> Complexity, connectivity <b>WQ/Riparian:</b> Riparian/floodplain function	<b>Flow:</b> Protect ≈ 15 cfs of instream water <b>Entrainment:</b> -- <b>Passage:</b> Improve access to ≈ 0.8 miles <b>Complexity:</b> Reconnect ≈ 2.3 miles side channel <b>WQ/Riparian:</b> Protect 1 stream mile Treat ≈ 3.2 stream miles Restore ≈ 18.6 riparian miles Restore ≈ 70 riparian acres	<b>Flow:</b> 387.4 af, 3.89 cfs flow protected <b>Entrainment:</b> 4 screens addressed <b>Passage:</b> 1 barrier addressed <b>Complexity:</b> 0.28 Stream miles improved <b>WQ/Riparian:</b> 2.6 Stream miles protected 0.7 Riparian miles improved 0.73 Riparian acres improved	<a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2007-035-00: Methow Basin Riparian Enhancement Program</a> <a href="#">2007-251-00: Methow Valley Irrigation District East Irrigation Diversion</a> <a href="#">2009-003-00: Upper Columbia Habitat Restoration</a> USBR Projects: <a href="#">4361</a> , <a href="#">4390</a>
		Wenatchee	<b>Flow:</b> Low stream flow <b>Passage:</b> Barriers <b>Complexity:</b> Complexity, connectivity <b>WQ/Riparian:</b> Riparian/floodplain function High stream temperatures	<b>Flow:</b> Protect ≈ 7.5 cfs of instream water <b>Passage:</b> Improve access to ≈ 7.2 miles <b>Complexity:</b> Reconnect ≈ 1.2 miles side channel <b>WQ/Riparian:</b> Protect/enhance ≈ 8.4 riparian miles Treat ≈ .2 stream miles	<b>Flow:</b> 1.2 cfs protected <b>Passage:</b> 0.3 miles improved <b>Complexity:</b> 0.08 miles improved <b>WQ/Riparian:</b> **	<a href="#">2007-325-00: Wenatchee River Complexity Fisheries Enhancement</a> USBR Projects: <a href="#">4361</a> , <a href="#">4390</a>
Middle Columbia River Steelhead DPS	Cascades Eastern Slope Tributaries	Deschutes River Eastside	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 913.2 af, 2.28 cfs water protected <b>Passage:</b> 1 barrier improved 4.51 miles <b>Complexity:</b> 0.05 miles improved <b>WQ/Riparian:</b> 1.41 Stream miles protected 0.98 Riparian miles improved 61.5 Riparian acres protected 16.22 Riparian acres improved	<a href="#">1994-042-00 : Trout Creek Operations and Maintenance (O&amp;M)</a> <a href="#">1998-028-00: Trout Creek Watershed Restoration</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2002-019-00: Develop Riparian Buffer Systems in Lower Wasco County</a>
		Deschutes River Westside	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 905.4 af, 2.61 cfs flow protected <b>WQ/Riparian:</b> 0.87 Stream miles protected 0.5 Riparian miles improved 34.4 Riparian acres protected 0.5 Riparian acres improved	<a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2002-019-00: Develop Riparian Buffer Systems in Lower Wasco County</a> <a href="#">2008-301-00: Habitat Restoration Planning/ Design/Implementation within boundaries of Warm Springs Reservation, lower Deschutes River, Oregon</a>
		Fifteenmile Creek (Winter Run)	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 334.7 af, 9.41 cfs protected <b>WQ/Riparian:</b> 3.28 Stream miles protected 176.2 Riparian acres protected	<a href="#">1993-040-00: Fifteenmile Creek Habitat Improvement</a> <a href="#">2001-021-00: 15 Mile Creek Riparian Buffers</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
		Klickitat River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Passage:</b> 2 barriers improved 60 miles <b>Complexity:</b> 2.4 miles improved <b>WQ/Riparian:</b> 3.11 Riparian miles improved	<a href="#">1988-115-35: Klickitat River Design and Construction-Yakima/Klickitat Fisheries Project (YKFP)</a> <a href="#">1997-056-00: Klickitat Watershed Enhancement</a>
		Rock Creek	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 0.25 Riparian miles improved	<a href="#">2007-156-00: Rock Creek Fish and Habitat Assessment</a>
		White Salmon	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	** No projects in 2011.	No Projects in 2011
Middle Columbia River Steelhead DPS (Cont)	John Day River	John Day River Lower Mainstem Tributaries	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 0.1 Af, 0.1 cfs flow protected <b>Entrainment:</b> 2 Screens addressed <b>Passage:</b> 4 barriers improved 19.05 miles <b>Complexity:</b> 3.2 Stream miles improved <b>WQ/Riparian:</b> 57.94 Stream miles protected 25.2 Riparian miles improved 883.78 Riparian acres protected 33.95 Riparian acres improved	<a href="#">1984-021-00: John Day Habitat Enhancement</a> <a href="#">2002-015-00: Coord. and Technical Assistance in Sherman Co Oregon</a> <a href="#">2002-019-00: Develop Riparian Buffer Systems in Lower Wasco County</a> <a href="#">2002-034-00: Riparian Buffers in Wheeler County</a> <a href="#">2002-034-00: Riparian Buffers in Wheeler County</a> <a href="#">2002-035-00: Riparian Buffers in Gilliam County</a> <a href="#">2003-017-00: Integrated Status and Effectiveness Monitoring Program</a> <a href="#">2007-397-00: John Day Passage, Flow and Habitat Enhancement</a>
		John Day River Upper Mainstem	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 1,751.6 Af, 23.47 cfs protected <b>Entrainment:</b> 12 Screens addressed <b>Passage:</b> 9 barriers improved 36.7 miles <b>Complexity:</b> 0.05 Stream miles improved <b>WQ/Riparian:</b> 12.5 Stream miles protected 5 Riparian miles improved 330 Riparian acres protected 4.5 Riparian acres improved	<a href="#">1984-021-00: John Day Habitat Enhancement</a> <a href="#">2001-041-01: Forrest Ranch Conservation Area</a> <a href="#">2007-397-00: John Day Passage, Flow and Habitat Enhancement</a> USBR Projects: <a href="#">4405</a> , <a href="#">4406</a> , <a href="#">4407</a> , <a href="#">4414</a> , <a href="#">4415</a> , <a href="#">4447</a> , <a href="#">4452</a> , <a href="#">4434</a> , <a href="#">4435</a>
		Middle Fork John Day River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 1 Screen addressed <b>Passage:</b> 1 barrier improved 1 mile <b>Complexity:</b> 4 stream miles improved <b>WQ/Riparian:</b> 1.25 Riparian miles improved 10.25 Riparian acres improved <b>Other:</b> Protected 187 upland acres	<a href="#">2000-015-00: Oxbow Conservation Area</a> <a href="#">2001-041-01: Forrest Ranch Conservation Area</a> <a href="#">2007-397-00: John Day Passage, Flow and Habitat Enhancement</a> USBR Project: <a href="#">4465</a>
		North Fork John Day River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 2 Screens addressed <b>Passage:</b> 1 barrier improved 5.3 miles <b>Complexity:</b> 0.01 stream miles improved <b>WQ/Riparian:</b> 9.48 Stream miles protected 3 Riparian miles improved 202 Riparian acres protected 50 Riparian acres improved	<a href="#">1984-021-00: John Day Habitat Enhancement</a> <a href="#">2000-031-00: Enhance Habitat in the North Fork John Day River</a>
		South Fork John Day River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 1 screen addressed <b>WQ/Riparian:</b> 1.3 Stream miles protected 15 Riparian acres protected	<a href="#">1984-021-00: John Day Habitat Enhancement</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Middle Columbia River Steelhead DPS (Cont)	Umatilla and Walla river	Touchet River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 1.25 Stream miles protected 86 Riparian acres protected	<a href="#">1996-046-01: Walla Walla River Basin Fish Habitat Enhancement</a>
		Umatilla River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 586 Af, 7.57 cfs protected <b>Complexity:</b> 0.07 Stream miles improved <b>WQ/Riparian:</b> 1.96 Riparian miles improved 62.4 Riparian acres protected 78.15 Riparian acres improved	<a href="#">1987-100-01: Umatilla Anadromous Fish Habitat-Umatilla Tribe</a> <a href="#">1987-100-02: Umatilla Anadromous Fish Habitat-Oregon Department of Fish and Wildlife (ODFW)</a> <a href="#">2008-206-00: Instream Flow Restoration</a>
		Walla Walla River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 1,497 af, 3.53 cfs protected	<a href="#">2007-396-00: Walla Walla Basinwide Tributary Passage and Flow</a> <a href="#">2008-206-00: Instream Flow Restoration</a>
		Willow Creek	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 1 Screens addressed	<a href="#">1993-066-00: Oregon Fish Screens Project</a>
	Yakima River Group	Naches River	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 1 screens addressed <b>Complexity:</b> 1 miles improved <b>WQ/Riparian:</b> 1 Riparian miles improved 5 Riparian acres improved	<a href="#">1988-120-25: Yakima River Management, Data and Habitat- Yakima/Klickitat Fisheries Project (YKFP)</a> <a href="#">1996-035-01: Yakama Reservation Watershed Project</a>
		Satus Creek	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 8,062 af protected	<a href="#">1996-035-01: Yakama Reservation Watershed Project</a>
		Toppenish	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Entrainment:</b> 1 screen addressed <b>WQ/Riparian:</b> 40 Riparian acres improved	<a href="#">1992-062-00: Lower Yakima Valley Riparian Wetlands Restoration</a> <a href="#">1996-035-01: Yakama Reservation Watershed Project</a>
		Yakima River Upper Mainstem	* Population not included in 2010-12 IP	* No metrics planned in 2010-12 IP	<b>Flow:</b> 2,957.5 af, 11.01 cfs protected <b>Entrainment:</b> 3 screens addressed <b>Passage:</b> 4 barriers improved 33 miles <b>Complexity:</b> 3.2 miles improved <b>WQ/Riparian:</b> 1.21 Riparian miles improved 21.2 Riparian acres improved	<a href="#">1988-120-25: Yakima River Management, Data and Habitat- Yakima/Klickitat Fisheries Project (YKFP)</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2007-112-00: Teanaway River Watershed Protection</a> <a href="#">2007-398-00: Yakima Basinwide Tributary Passage and Flow</a>
	Snake River Steelhead DPS	Dry Clearwater	<b>Passage:</b> -- <b>Complexity:</b> Channel morphology, reduced channel complexity, Riparian and channel alteration, collapsed stream banks, channel incision & channel alteration from historic railroad logging, streambed instability - channels frequently scour to bedrock <b>WQ/Riparian:</b> High summer temperature Sediment, nutrients, & flashiness from agricultural runoff. High water temperatures	<b>Passage:</b> -- <b>Complexity:</b> Add structures to ≈ 1.5 stream miles <b>WQ/Riparian:</b> Protect ≈ 2.7 riparian miles Treat ≈ 14 riparian acres and 20 riparian miles Treat ≈ 0.2 road miles	<b>Passage:</b> 1 barrier addressed <b>Complexity:</b> 0.14 Miles improved <b>WQ/Riparian:</b> 1.69 stream miles protected 1.15 Riparian miles improved 7.27 Riparian acres protected 7 Riparian acres improved	<a href="#">1999-017-00: Protect and Restore Lapwai Creek Watershed</a> <a href="#">2002-061-00: Potlatch River Watershed Restoration</a> <a href="#">2002-070-00: Lapwai Creek Anadromous Habitat</a> <a href="#">2008-604-00: Lower Clearwater and Potlatch Watersheds Habitat Improvements</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Steelhead DPS (cont.)	Dry Clearwater	Lochsa River	<b>Passage:</b> Barriers <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Degraded riparian Poor water quality/ elevated stream temps Excess fine sediments	<b>Passage:</b> Improve access to 15 miles <b>Complexity:</b> <b>WQ/Riparian:</b> Treat 170 riparian acres Treat 1575 riparian/upland acres Treat 7.9 road miles Remove 75.2 road miles	<b>Passage:</b> ** <b>Complexity:</b> ** <b>WQ/Riparian:</b> Treated 14.5 road miles	<a href="#">2007-395-00: Protect and Restore Lochsa Watershed</a>
		Lolo Creek	<b>Passage:</b> Barriers <b>WQ/Riparian:</b> Degraded riparian Poor water quality/ elevated stream temps Excess fine sediments	<b>Passage:</b> Improve access to 23.2 miles <b>WQ/Riparian:</b> Treat 3 riparian miles Treat 30 riparian/upland miles Treat 15.1 road miles	<b>Passage:</b> 4 barriers improved 5.5 miles <b>WQ/Riparian:</b> 1 Riparian mile improved	<a href="#">1996-077-02: Lolo Creek Watershed Restoration</a>
		South Fork Clearwater River	<b>Passage:</b> Barriers <b>Complexity:</b> Lack of diverse habitats <b>WQ/Riparian:</b> Degraded riparian condition Excess fine sediments	<b>Passage:</b> Improve access to 23.6 miles <b>Complexity:</b> Add structures to 5.5 stream mi <b>WQ/Riparian:</b> Treat 34.1 riparian miles Treat 31 riparian acres Treat 55 riparian/upland acres Treat 100 upland acres Remove 76.5 road miles Treat 8.5 stream miles	<b>Passage:</b> 1 barrier addressed <b>Complexity:</b> 0.1 miles improved <b>WQ/Riparian:</b> 8 Riparian miles improved 98 Riparian acres improved	<a href="#">1996-077-05: Meadow Creek Watershed Restoration</a> <a href="#">2000-036-00: Mill Creek Watershed Restoration</a> <a href="#">2002-072-00: Red River Watershed Restoration</a> <a href="#">2010-003-00: Lower South Fork Clearwater River Watershed Restoration</a>
	Grande Ronde	Grande Ronde Lower Mainstem Tributaries	<b>Passage:</b> -- <b>WQ/Riparian:</b> Excess sediments	<b>Passage:</b> -- <b>WQ/Riparian:</b> Road decommissioning	<b>Passage:</b> 2 barriers addressed <b>WQ/Riparian:</b> **	<a href="#">1996-080-00: Northeast Oregon Wildlife Project</a>
		Grande Ronde River Upper Mainstem	<b>Flow:</b> Low summer flows <b>Entrainment:</b> -- <b>Passage:</b> Barriers <b>Complexity:</b> Complexity & connectivity	<b>Flow:</b> -- <b>Entrainment:</b> -- <b>Passage:</b> Improve access to ≈ 50 miles <b>Complexity:</b> Add structures to 20.2 stream mi Reconnect/add 0.4 miles channel habitat	<b>Flow:</b> 190.2 af, 0.75 cfs protected <b>Entrainment:</b> ** <b>Passage:</b> ** <b>Complexity:</b> 15.9 miles improved	<a href="#">1992-026-01: Grand Ronde Model Watershed</a> <a href="#">1984-025-00: Blue Mountain Fish Habitat Improvement</a> <a href="#">1996-083-00: Grand Ronde Watershed Restoration</a> <a href="#">2008-206-00: Instream Flow Restoration</a>
			<b>WQ/Riparian:</b> Degraded riparian condition Excess fine sediments Poor water quality/low dissolved oxygen	<b>WQ/Riparian:</b> Protect 1.5 stream miles Treat 7 riparian miles Protect 12-80 riparian acres Treat 220 riparian acres Remove 0.4 road miles	<b>WQ/Riparian:</b> 2 Stream miles protected 31.4 Riparian miles improved 15.5 Riparian acres protected 106 Riparian acres improved Treated 0.1 road miles	

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Steelhead DPS	Grande Ronde River (cont.)	Joseph Creek	<b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Excess fine sediments Poor water quality/ elevated stream temp Excess nutrients	<b>Complexity:</b> -- <b>WQ/Riparian:</b> Treat/protect 1 riparian mile Road decommissioning	<b>Complexity:</b> ** <b>WQ/Riparian:</b> Treated 20 road miles in riparian zone	<a href="#">1996-080-00: Northeast Oregon Wildlife Project</a>
		Wallowa River	<b>Flow:</b> Low summer flow <b>Passage:</b> Barriers <b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Degraded riparian conditions Excess fine sediments	<b>Flow:</b> Protect 1 cfs of instream water <b>Passage:</b> Improve access to habitat <b>Complexity:</b> Reconnect 0.75 miles <b>WQ/Riparian:</b> Treat 1.4 miles floodplain or riparian habitat Treat <10 wetland acres	<b>Flow:</b> 1188 af, 15 cfs protected <b>Passage:</b> ** <b>Complexity:</b> 0.25 miles improved <b>WQ/Riparian:</b> **	<a href="#">1992-026-01: Grand Ronde Model Watershed</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a>
	Imnaha River	<b>Passage:</b> Barriers <b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Degraded riparian conditions Excess fine sediment	<b>Passage:</b> Improve access to ≈ 23 miles <b>Complexity:</b> -- <b>WQ/Riparian:</b> Treat ≈ 10 riparian/stream mi Decommission ≈ 5 road miles	<b>Passage:</b> <b>Complexity:</b> No projects completed in 2011. <b>WQ/Riparian:</b>	No Projects in 2011.	
	Lower Snake	Asotin Creek	<b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Degraded riparian conditions High water temperatures	<b>Complexity:</b> -- <b>WQ/Riparian:</b> Protect ≈ 15 riparian miles Enhance ≈ 30 riparian acres	<b>Complexity:</b> ** <b>WQ/Riparian:</b> 0.96 stream miles protected 2 Riparian miles improved 12 Riparian acres improved	<a href="#">1994-018-05: Asotin Creek Enhancement and Restoration</a> <a href="#">2002-050-00: Riparian Buffers on Couse and Tenmile Creeks in Asotin Co</a>
		Tucannon	<b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Degraded riparian conditions High water temperatures	<b>Complexity:</b> Install structures ≈ 0.6 stream mi <b>WQ/Riparian:</b> Protect ≈ 5.5 miles of streambank Protect ≈ 200 riparian acres	<b>Complexity:</b> 0.53 miles improved <b>WQ/Riparian:</b> 0.9 Riparian miles improved 211.6 riparian acres protected 16 Riparian acres improved	<a href="#">1994-018-06: Tucannon Stream and Riparian Restoration</a> <a href="#">1994-018-07: Garfield County Fall Chinook and Steelhead Habitat Improvement</a> <a href="#">2008-202-00: Protect and Restore Tucannon Watershed</a>
	Salmon River	Lower Middle Fork Salmon (Big, Camas, and Loon Creeks)	<b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess fine sediment	<b>Passage:</b> Improve access to ≈ 2 miles <b>WQ/Riparian:</b> Decommission ≈ 15 miles road	<b>Passage:</b> 1 barrier, improved 2.5 miles <b>WQ/Riparian:</b> **	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
		East Fork Salmon River	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>Complexity:</b> Lack of complex habitat <b>WQ/Riparian:</b> Excess fine sediment	<b>Flow:</b> Protect/acquire 7.5 cfs <b>Entrainment:</b> Install 3 fish screens <b>Passage:</b> Improve access to 3.9 miles <b>Complexity:</b> Connect ≈ 500-1000' side channels <b>WQ/Riparian:</b> Protect ≈ 0.5 riparian miles	<b>Flow:</b> 591 af, 2 cfs protected <b>Entrainment:</b> 5 screens addressed <b>Passage:</b> 1 barrier, improved 1 mile <b>Complexity:</b> ** <b>WQ/Riparian:</b> 1.97 stream miles protected 23 Riparian acres protected 12.5 Riparian acres improved	<a href="#">2007-268-00: Idaho Watershed Habitat Restoration-Custer District</a> <a href="#">2007-399-00: Upper Salmon Screen Tributary Passage</a> <a href="#">2002-013-01: Water Entity - Water Transaction Program</a> USBR Project: <a href="#">4240</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Snake River Steelhead DPS (cont.)	Salmon River (cont.)	Lemhi	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>Complexity:</b> -- <b>WQ/Riparian:</b> Degraded riparian condition Excess sediments High water temperatures	<b>Flow:</b> Protect/acquire 26 cfs <b>Entrainment:</b> Install 10 fish screens <b>Passage:</b> Improve access to ≈ 25 miles <b>Complexity:</b> Reconnect ≈ 2.0 miles channel <b>WQ/Riparian:</b> Protect ≈ 50 riparian miles Treat ≈ 1 stream miles Protect 68 riparian acres	<b>Flow:</b> 5,645.4 af, 34.13 cfs protected <b>Entrainment:</b> 8 screens addressed <b>Passage:</b> 5 barriers, improved 14.82 miles <b>Complexity:</b> 1.1 miles improved <b>WQ/Riparian:</b> 3.07 stream miles protected 48.6 Riparian acres protected 27.66 Riparian acres improved	<a href="#">1994-015-00: Idaho Fish Screening Project</a> 1994-050-00: Salmon River Habitat Enhancement <a href="#">2007-394-00: Idaho Watershed Habitat Restoration-Lemhi</a> <a href="#">2007-399-00: Upper Salmon Screen Tributary Passage</a> <a href="#">2008-608-00: Idaho MOA/Fish Accord Water Transactions</a> <a href="#">2008-903-00: ESA Habitat Restoration</a> <a href="#">2010-072-00: Lemhi River Restoration</a> USBR Projects: <a href="#">4496</a> , <a href="#">4495</a> , <a href="#">4493</a> , <a href="#">4482</a> , <a href="#">4486</a> , <a href="#">4387</a> , <a href="#">4481</a> , <a href="#">4487</a> , <a href="#">4472</a> , <a href="#">4483</a> , <a href="#">4494</a> , <a href="#">4485</a> , <a href="#">4484</a>
		Middle Fork Salmon River upper mainstem	Population not included in 2010-12 IP	No metrics in 2010-12 IP	No metrics completed in 2011	No Projects in 2011
		Little Salmon and Rapid River *	<b>Passage:</b> -- <b>WQ/Riparian:</b> Altered mainstem and tributaries	<b>Passage:</b> Improve access to 3.0 miles <b>WQ/Riparian:</b> --	<b>Passage:</b> ** <b>WQ/Riparian:</b> 0.2 Riparian miles improved 0.2 Riparian acres improved	<a href="#">2007-064-00: Slate Creek Watershed Restoration</a> *NOTE: Population not evaluated by 2009 expert panel process because it is not included in RPA 35 Table 5. Included here due to potential improvements to MPG.
		Pahsimeroi River	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>WQ/Riparian:</b> Degraded riparian habitat Excess sediments	<b>Flow:</b> Protect ≈ 6 cfs instream flow <b>Entrainment:</b> Install 4 fish screens <b>Passage:</b> Improve access to ≈ 30 miles <b>WQ/Riparian:</b> Protect ≈ 3.5 riparian miles Treat ≈ .5 riparian miles	<b>Flow:</b> ** <b>Entrainment:</b> ** <b>Passage:</b> 7 barriers addressed 12.38 mi <b>WQ/Riparian:</b> 8.09 Stream miles protected 1.7 stream miles improved 14.6 Riparian acres protected 4.85 Riparian acres improved	<a href="#">1994-015-00: Idaho Fish Screening Project Restoration-Lemhi</a> <a href="#">1994-050-00: Salmon River Habitat Enhancement</a> <a href="#">2008-603-00: Pahsimeroi River Habitat</a> USBR Projects: <a href="#">4489</a> , <a href="#">4431</a>
		Panther Creek	Population not included in 2010-12 IP	No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 2.63 Stream miles protected 96 Riparian acres protected	<a href="#">1994-030-00: Salmon River Habitat Enhancement</a> <a href="#">2008-903-00: ESA Habitat Restoration</a>
		Upper Mainstem Salmon River	<b>Flow:</b> Low stream flow <b>Entrainment:</b> Fish entrainment <b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess fine sediment	<b>Flow:</b> Protect ≈ 15 cfs instream flow <b>Entrainment:</b> -- <b>Passage:</b> Improve access to ≈ 4 miles <b>WQ/Riparian:</b> Treat ≈ 1 stream mile	<b>Flow:</b> ** <b>Entrainment:</b> ** <b>Passage:</b> ** <b>WQ/Riparian:</b> 0.9 Stream miles protected 1.5 Riparian acres protected	<a href="#">2007-268-00: Idaho Watershed Habitat</a>
		Secesh River	<b>Passage:</b> Passage barriers <b>WQ/Riparian:</b> Excess sediments	<b>Passage:</b> Improve access to ≈ 12 miles <b>WQ/Riparian:</b> Decommission ≈ 45 miles road	<b>Passage:</b> ** <b>WQ/Riparian:</b> 6 Stream miles improved	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>
		South Fork Salmon River	<b>Passage:</b> Barriers <b>WQ/Riparian:</b> Excess sediments High water temperatures	<b>Passage:</b> Improve access to ≈ 18.6 miles <b>WQ/Riparian:</b> Enhance/Restore ≈ 3 riparian miles	<b>Passage:</b> 3 Barriers improved 10.72 miles <b>WQ/Riparian:</b> 0.5 stream miles protected 0.02 Riparian miles improved 10 Riparian acres protected 0.15 Riparian acres improved	<a href="#">2007-127-00: East Fork of South Fork Salmon River Passage Restoration</a>

Attachment 2 - Table 1. Summary of 2011 Tributary Habitat Accomplishments by Population

ESU/ DPS	MPG	Population	Limiting Factor to be Addressed (Summarized from Expert Panel Process)	Summary of 2010-2012 Planned Metrics (Summarized from 2010-2012 Implementation Plan)	**Summary of 2011 Completed Metrics	Projects Associated with 2011 Completed Metrics
Upper Columbia River Steelhead DPS	Upper Columbia/East Slope Cascades	Entiat	<b>Flow:</b> Low Stream flow <b>Entrainment:</b> -- <b>Passage:</b> -- <b>Complexity:</b> Complexity and connectivity	<b>Flow:</b> Protect 6.5 cfs water <b>Entrainment:</b> -- <b>Passage:</b> -- <b>Complexity:</b> Reconnect ≈ 0.5 miles side channel Treat ≈ 1.9 stream miles	<b>Flow:</b> ** <b>Entrainment:</b> 5 Screens addressed <b>Passage:</b> 60 miles improved access <b>Complexity:</b> 0.16 Stream miles improved <b>WQ/Riparian:</b> 0.63 Riparian miles improved	<a href="#">2007-231-00: Entiat River Riparian Restoration</a> USBR Projects: <a href="#">4501</a> , <a href="#">4502</a> , <a href="#">4503</a>
		Methow	<b>Flow:</b> Low Stream flow <b>Entrainment:</b> -- <b>Passage:</b> Barriers <b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Riparian & floodplain function	<b>Flow:</b> Protect ≈ 15 cfs of instream water <b>Entrainment:</b> -- <b>Passage:</b> Improve access to ≈ 0.8 miles <b>Complexity:</b> Reconnect ≈ 2.3 miles side channel <b>WQ/Riparian:</b> Protect 1 stream mile Treat ≈ 3.2 stream miles Restore ≈ 18.6 riparian miles Restore ≈ 70 riparian acres	<b>Flow:</b> 387.4 af, 3.89 cfs protected <b>Entrainment:</b> 4 screens addressed <b>Passage:</b> 1 barrier addressed <b>Complexity:</b> 0.28 Stream miles improved <b>WQ/Riparian:</b> 2.6 Stream miles protected 0.7 Riparian miles improved 0.73 Riparian acres improved	<a href="#">2002-013-01: Water Entity - Water Transaction Program</a> <a href="#">2007-035-00: Methow Basin Riparian Enhancement Program</a> <a href="#">2007-251-00: Methow Valley Irrigation District (MVID) East Irrigation Diversion</a> <a href="#">2009-003-00: Upper Columbia Habitat Restoration</a> USBR Projects: <a href="#">4361</a> , <a href="#">4390</a>
		Okanogan	<b>Flow:</b> Low Stream flow <b>Entrainment:</b> -- <b>Passage:</b> Barriers <b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Riparian & floodplain function High stream temperatures	<b>Flow:</b> Protect ≈ 5 cfs of instream water <b>Entrainment:</b> Install 30 fish screens <b>Passage:</b> Improve access to ≈ 26 miles <b>Complexity:</b> Reconnect ≈ 2 miles side channel <b>WQ/Riparian:</b> Protect/enhance ≈ 17 riparian miles Protect/enhance ≈ 246 riparian acres Protect ≈ 3540 acres land Treat 15 miles road	<b>Flow:</b> 699.2 af, 120.44 cfs protected <b>Entrainment:</b> ** <b>Passage:</b> 8 barriers, improved 14.6 miles <b>Complexity:</b> 1.8 miles improved <b>WQ/Riparian:</b> 1.5 Stream miles protected 5.7 Riparian miles improved 6 Riparian acres protected 64.62 Riparian acres improved	<a href="#">1996-042-00: Restore Salmon Creek Anadromous Fish</a> <a href="#">2000-001-00: Omak Creek Anadromous Fish Habitat and Passage</a> <a href="#">2007-145-00: Okanogan Livestock and Water for Habitat Improvement</a> <a href="#">2007-224-00: Okanogan Subbasin Habitat Implementation Program</a> <a href="#">2008-104-00: Land &amp; Water Acquisition</a>
		Wenatchee	<b>Flow:</b> Low stream flow <b>Passage:</b> Barriers <b>Complexity:</b> Complexity and connectivity <b>WQ/Riparian:</b> Riparian & floodplain function High stream temperatures	<b>Flow:</b> Protect ≈ 7.5 cfs of instream water <b>Passage:</b> Improve access to ≈ 7.2 miles <b>Complexity:</b> Reconnect ≈ 1.2 miles side channel <b>WQ/Riparian:</b> Protect/enhance ≈ 8.4 riparian miles Treat ≈ .2 stream miles	<b>Flow:</b> 1.2 cfs protected <b>Passage:</b> 0.3 miles access improved <b>Complexity:</b> 0.08 miles improved <b>WQ/Riparian:</b> **	<a href="#">2007-325-00: Wenatchee River Complexity Fisheries Enhancement</a> USBR Projects: <a href="#">4361</a> , <a href="#">4390</a>
		Crab Creek	Population not included in 2010-12 IP	No metrics planned in 2010-12 IP	<b>WQ/Riparian:</b> 120.4 Riparian acres improved	<a href="#">2006-003-00: Desert Wildlife Mitigation</a>

**Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects**

Table 2 contains metric values for actions completed in 2011 with technical assistance provided by Reclamation. These actions complement BPA-funded projects (meaning both agencies participate in the same project). The following abbreviations apply. Streamflow: streamflow protected

under State law. Stream length: stream length affected. Type (channel access): D, diversion; C, culvert. Type (channel complexity): R, restore main channel function; S, side channel reconnection. Extent of barrier: P, partial (upstream access seasonably inaccessible prior to action); F, full

(absolutely no passage prior to action). Access: miles made accessible to next upstream full or partial barrier. Stream miles affected by screen: miles between action location and next diversion. Complexity miles: length of instream habitat treated after action completed.

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment		Complexity (miles)	
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge (cfs) (AF/yr)		Stream Miles Affected
<b>Upper Columbia River Steelhead and Spring Chinook Salmon</b>																		
4490	Methow	Streamflow	Prewitt - Methow Water Lease	This 10-year lease is for 1.3 cfs and 521.18 acre-feet annually through the irrigation season of April 1 to October 31 annually in the Methow River.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	48 27 12	120 09 45	4/1/2011	10/31/2021	1.3	49.5	A						
4489	Methow	Streamflow	Beaver Creek Water Purchase - Marrachi	The Marrachi Project was a permanent acquisition resulting in up to 0.7 cfs increase in the instream flow of Beaver Creek from August 1 to September 15 each year.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	48 24 07	120 02 30	8/15/2011	12/31/2099	0.7	8	A						
4491	Methow	Streamflow	Campbell - Beaver Creek Water Purchase	The Campbell Purchase, finalized in 2011, was a permanent acquisition resulting in up to 1.57 cfs increase in Beaver Creek instream flow from August 1 to September 15.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	48 23 54	120 02 40	4/15/2011	12/31/2099	1.57	7.5	A						
<b>Snake River Steelhead and Spring/Summer Chinook Salmon</b>																		
4496	Lemhi	Entrainment and Streamflow	Lower Big Timber Creek Reconnect/Flow	Transferred water rights from a diversion on Lower Big Timber Ck to the Lemhi River, and constructed a new diversion weir, fish screen and pump station on the Lemhi River bank to convey transferred water rights from the Lemhi River to the original point of use. Result was elimination of the lower point of diversion and improved efficiency, elimination of entrainment, increased access to habitat and great assurance of flow remaining the lower Big Timber Creek.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 41 38	113 22 03	8/2/2010	4/15/2011	1.4	1				1			
4495	Lemhi	Entrainment and Streamflow	Canyon Creek Reconnect/Flow	Transfer water rights from a diversion on Lower Canyon Ck to the Lemhi River and constructed a new diversion weir, fish screen and pump station on the Lemhi River bank to convey transferred water rights from the Lemhi River to the original point of use. The result was improved efficiency, elimination of entrainment, and greater assurance of flow remaining in Canyon Creek.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 41 38	113 22 03	8/2/2010	4/15/2011	4	1.25				1			

**Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects**

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Complexity (miles)	
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge			Stream Miles Affected
																(cfs)	(AF/yr)		
4493	Lemhi	Access and Streamflow	L-52 Removal (POD Transfer)	In the L-46A ditch, a pump station and three phase power were installed and a pipeline buried to convey Lemhi water to pivots that were installed to irrigate land formerly irrigated from the L-52 POD. Through a 20-year lease agreement, 4.06 cfs of unused L-52 water was placed in the Lemhi Water Bank for instream flow.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 47 47	113 33 47	3/1/2010	5/16/2011	4.06	6	D	P	1					
4482	Lemhi	Access	Parmenter Lane Culvert Replacement	Two undersized CMP culverts conveying Carmen Creek under Parmenter Lane were identified by IDFG as being undersized and potential fish migration barriers due to excessive water velocities. To improve fish passage, this project removed these culverts and replaced them with a 24-foot by 50-foot prefabricated steel bridge.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 15 55	113 50 02	6/7/2010	9/16/2011			C	P	0.6					
4486	Lemhi	Access	Archie Lane Culvert Replacement	Two undersized CMP culverts conveying Carmen Creek under Archie Lane were identified by IDFG as being undersized and potential fish migration barriers due to excessive water velocities. To improve fish passage, this project removed these culverts and replaced them with a 24-foot by 50-foot prefabricated steel bridge.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 16 88	113 49 36	6/7/2010	9/16/2011			C	P	0.65					
4387	Lemhi	Access	Wimpey Creek - 2 Diversion Replacement	The Wimpey Creek No. 2, LWC-02 diversion check structure, formerly a complete barrier to fish passage, was replaced with a series of rock A Weirs, and about 100 yards of degraded stream channel was rehabilitated. Additional project features included new headworks installation, ditch enlargement, riparian vegetation planting, water measurement device, and a cattle water gap.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 05 56	113 42 55	2/11/2009	11/17/2011			D	F	0.5					
4481	Lemhi	Access, Entrainment, and Streamflow	Little Springs Creek Diversion Closure and Sprinkler Pivot Installation	The water rights for three gravity diversions in Little Springs Creek were transferred to a diversion from the Lemhi River (L-48). A pump station was installed in the L-48 ditch and a pipeline buried to convey irrigation water to pivots that were erected on ground formerly flood irrigated from Little Springs Creek.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 46 47	113 32 37	4/5/2010	5/16/2011	15.9	0.7	D	F	0.7	2	15.9		0.7	
4487	Lemhi	Complexity	Lemhi River Channel Relocation – Amonson Ranch	To improve floodplain connectivity, riparian condition, and fish habitat complexity and ultimately increase available spawning/rearing habitat, 3112 ft. of new river channel was constructed to replace 2051 ft of river channel that had	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 46 01	113 30 29	6/1/2009	6/17/2011										0.5

**Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects**

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Complexity (miles)		
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge			Stream Miles Affected	
																(cfs)	(AF/yr)			
				historically been straightened, diked, perched, and overgrazed by livestock. About 700 feet of backwater rearing habitat was created within the old channel alignment, a bridge was constructed for access, vegetation was planted along stream banks, disturbed areas were hydroseeded, and riparian fencing was constructed to exclude livestock.																
4472	Lemhi	Complexity	Lower Lemhi River – Bridge to Bridge Rehabilitation Project	A Rapid Site Assessment of a 3.6 mile section located within the lower reach of the river evaluated and summarized current channel/hydraulic/geologic conditions and identified potential projects that would protect / increase fish habitat/channel complexity and stabilize streambank to reduce sediment loading to the river.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 05 23	113 43 15	5/9/2011	11/15/2011			R								
4483	Lemhi	Complexity	Lower Lemhi River Bank Stabilization (Sager)	Two hundred feet of eroding stream bank was armored with root wads, rock and planted vegetation to stop bank erosion and enhance fish habitat.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 05 18	113 43 12	4/4/2011	12/16/2011			R								0.5
4423	Upper Salmon	Streamflow and Access	Bayhorse Creek Wells	The purpose of this project is to improve fish passage in Bayhorse Creek by increasing the instream flows and eliminating a diversion. The second diversion in Bayhorse Creek (SBaC-02) can be eliminated by changing the irrigation practices from the historical flood irrigation, approximately 2 cubic feet per second (cfs), to a well and pivot sprinkler system using 0.3 cfs (147 gallons per minute).	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44.23.12	114.15.51	4/1/2011	10/15/2011	2	2	D	F	2						
4240	Upper Salmon	Streamflow	East Fork Salmon River-EF 13 Headgate	A new headgate structure will be installed to allow the irrigator to control the diversion.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 08 45	114 23 26	3/9/2004	8/15/2011			C								
4489	Pahsimeroi	Access	Hooper Lane Culverts	Four stream crossings on Hooper Lane (Big Springs Creek, Pahsimeroi River, Pahsimeroi Little Springs, and Big Springs/Little Springs Connection Channel) that were undersized and restricted fish passage were replaced with steel beam bridges to improve fish access to spawning and/or rearing habitat.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 32 55	113 54 57	12/23/2009	8/12/2011			D	P	6.6						

**Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects**

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Complexity (miles)	
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge			Stream Miles Affected
																(cfs)	(AF/yr)		
4431	Pahsimeroi	Access	Muddy Springs Culverts	Two culverts on Muddy Springs Creek, a tributary to the Pahsimeroi River that previously restricted passage were replaced with 12-foot wide bottomless arch pipe to provide access to rearing habitat.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 35 41	113 57 22	7/1/2009	8/2/2011			D	P	3.8					
<b>Mid-Columbia River Steelhead</b>																			
4465	John Day Middle Fork	Complexity	MF Oxbow Tailings Project Phase I	Phase I of the project, completed in 2011, added complexity to the South Channel with the placement of log structures and flood plain/riparian tree plantings. A small area of dredge tailings was also removed from the floodplain. This phase prepared the South Channel for additional flow that will be added when the North Channel is blocked off in Phase II.	Middle Columbia River Steelhead	44 38 31	118 39 06	10/1/2009	8/15/2011			R							1.07
4405	John Day Upper Main	Access	Lower Deardorf Diversion	The Lower Deardorf Creek Diversion was made of large cobble, gravel, and tarps, with no headgate, and was an impediment to fish passage. The diversion was replaced with a lay-flat stanchion dam with a prefabricated steel weir and pool fish passage structure on one side and slide headgate to control diversion flow.	Middle Columbia River Steelhead	44 23 47	118 33 44	8/21/2009	8/15/2011			D	F	0.1					
4406	John Day Upper Main	Access	Upper Deardorf Diversion	The Upper Deardorf Creek Diversion, like the Lower Deardorf was made of large cobble, gravel, and tarps, with no headgate, and was an impediment to fish passage. The diversion was replaced with a lay-flat stanchion dam with a prefabricated steel weir and pool fish passage structure on one side and slide headgate to control diversion flow.	Middle Columbia River Steelhead	44 23 48	118 33 43	8/21/2009	8/15/2011			D	F	16.5					
4407	John Day Upper Main	Access	East Fork Canyon Creek Diversion	The East Fork Canyon Creek Diversion, one of two diversions on the East Fork of Canyon Creek, was made of large cobble, gravel, and tarps, with no headgate, and was an impediment to fish passage. The diversion was replaced with a lay-flat stanchion dam with a prefabricated steel weir and pool fish passage structure on one side and slide headgate to control diversion flow.	Middle Columbia River Steelhead	44 14 47	118 54 39	8/21/2009	8/15/2011			D	P	1.3					
4414	John Day Upper Main	Access	Dad's Creek #2 Winegar Diversion	The Dads Creek #2 Diversion project is one of four on Dads Creek. The existing diversion consisted of boulders, boards, and tarps and was a complete barrier when installed. It was replaced with a modified	Middle Columbia River Steelhead	44 27 44	118 39 57	10/7/2009	8/15/2011			D	F	0.1					

**Attachment 2 – Table 2. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Complement BPA Projects**

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Com- plexity (miles)	
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge			Stream Miles Affected
																(cfs)	(AF/yr)		
				lay-flat stanchion dam prefabricated out of steel and set in place, with a weir and pool fishway on one side of the structure.															
4415	John Day Upper Main	Access	Dad's Creek #3 CTWSRO Diversion	The Dads Creek #3 Diversion project is one of four on Dads Creek. The existing diversion consisted of boulders, boards, and tarps and was a complete barrier when installed. It was replaced with a modified lay-flat stanchion dam prefabricated out of steel and set in place, with a weir and pool fishway on one side of the structure.	Middle Columbia River Steelhead	44 27 50	118 39 55	10/7/2009	8/15/2011			D	F	1					
4447	John Day Upper Main	Complexity	Edigar Habitat Project	The Edigar property on the Upper John Day River had one section of river bank about 300 feet long that was actively eroding, causing losses in bank vegetation and water quality issues downstream. Logjam and root wad structures were installed to reduce erosion in that area and enhance complexity of the habitat.	Middle Columbia River Steelhead	44 10 10	119 11 02	11/9/2010	8/15/2011			R							0.057
4452	John Day Upper Main	Access	Dads Creek Diversions #4 and #5	The Dads Creek #4 and #5 Diversion projects are two of four projects on Dads Creek. The existing diversions consisted of boulders, boards, and tarps and were complete barriers when installed. Each was replaced with a modified lay-flat stanchion dam prefabricated out of steel and set in place, with a weir and pool fishway on one side of the structure.	Middle Columbia River Steelhead	44 28 35	118 39 33	12/9/2010	8/15/2011			D	P	3.4					
4434	John Day Upper Main	Access	Lawrence Reynolds Creek Diversion	The Mark Lawrence Reynolds Creek diversion consisted of a failing concrete sill and wing walls with slots to support boards. With boards and tarps in place there was no provision for fish passage and no headgate. The diversion was replaced with a lay-flat stanchion dam with a prefabricated steel weir and pool fish passage structure and a headgate to control diversion flow.	Middle Columbia River Steelhead	44 24 51	118 35 15	11/1/2009	8/31/2011			D	F	0.5					
4435	John Day Upper Main	Access	Reynolds Slough Ditch Diversion	The Reynolds Slough Ditch diversion consisted of river cobble and gravel and had a partially functioning headgate. The diversion was replaced with a lay-flat stanchion dam with a prefabricated steel weir and pool fish passage structure on one side and slide headgate to control flow.	Middle Columbia River Steelhead	44 24 40	118 34 40	11/1/2009	8/31/2011			D	P	13.8					

**Attachment 2 – Table 3. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Supplement Projects Listed in Table 1**

Table 3 contains metrics for actions completed in 2011 with technical assistance provided by Reclamation. Actions in table 3 supplement BPA-funded projects (meaning they are in addition to projects reported in BPA's Pisces database). The following definitions apply. Streamflow: streamflow

protected under State law. Stream length: stream length affected. Type (channel access): D, diversion; C, culvert. Type (channel complexity): R, restore main channel function; S, side channel reconnection. Extent of barrier: P, partial (upstream access seasonably inaccessible prior to

action); F, full (absolutely no passage prior to action). Access- miles made accessible to next upstream full or partial barrier. Stream miles affected by screen: miles between action location and next diversion. Complexity miles: length of instream habitat treated after action completed.

BiOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Complexity (miles)
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge (cfs)	(AF/yr)	
<b>Upper Columbia River Steelhead and Spring Chinook Salmon</b>																		
4501	Entiat	Complexity	ARRA Preston Reach Project	Approximately 700 feet of bank was reshaped, fourteen bank large wood complexity structures were installed, and a 100 foot riparian buffer was planted to reduce recruitment of fine sediment and provide in-stream habitat.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	47 51 39	120 25 14	4/5/2009	4/29/2011			R						0.16
4502	Entiat	Entrainment	ARRA Wells	Two existing surface water irrigation diversions were converted to wells, reducing pump entrainment risk to juvenile ESA fish species in the lower Entiat River.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	47 41 16	120 18 55	4/6/2009	9/26/2011					2	2.4		38	
4503	Entiat	Entrainment and Access	Ecology Wells	Three existing surface water irrigation diversions were converted to wells, reducing pump entrainment risk to juvenile ESA fish species in the lower Entiat River.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	47 41 13	120 18 56	5/6/2010	11/21/2011			D	P	60	3	0.64	38	
4390	Wenatchee	Access	Upper Chumstick Barriers	This project removed three diversions on Chumstick Creek that were total fish barriers. Two were replaced with a series of rock weirs, and the third was replaced with a roughened channel. The existing irrigation system was also updated with a fish friendly passive pump screen.	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	47 42 17	120 38 20	12/15/2009	11/11/2011			D	P	0.3				
4361	Wenatchee	Stream-flow	Peshatin Pipeline	Two miles of leaking irrigation ditch were replaced with 36" and 10" pipe, resulting in 1.2 cfs of water to be returned to Peshatin Creek. This water increases the water in the fish bypass at Peshatin Diversion	Upper Columbia River Spring Chinook Salmon, Upper Columbia River Steelhead	47 31 45	120 37 13	4/2/2007	11/15/2011	1.2	2.4	A						
4494	Lemhi	Access, Entrainment, and Stream-flow	L-52 Ditch Closure	Along the length of the L-52 Ditch, head gates were removed and points of diversion were permanently closed to prevent water withdrawal, improving flow and fish passage. At locations where perennial and ephemeral streams were bisected (captured) by the ditch, embankments were removed to allow un-impeded flow of streams to the Lemhi River.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	44 45 24	113 29 23	5/3/2010	8/15/2011	1.5	3	C	F	3	3			

**Attachment 2 – Table 3. Status of Tributary Habitat Actions Completed in 2011 with Reclamation Technical Assistance that Supplement BPA Projects**

BIOp ID	Sub-basin	Limiting Factor	Project Title	Short Description	ESU/DPS	North Latitude D M S	West Longitude D M S	Action Start Date	Action End Date	Stream Flow (cfs)	Stream Length (miles)	Access			Entrainment			Com- plexity (miles)	
												Type	Extent of Barrier	Miles	Number of Screens Replaced	Screened Discharge (cfs)	(AF/yr)		Stream Miles Affected
<b><i>Snake River Steelhead and Spring/Summer Chinook Salmon</i></b>																			
4485	Lemhi	Access	Wallace Creek Culvert Replacement	The existing 42-inch culvert under L Diamond Creek Road on Wallace Creek was undersized and the outlet perched, thus preventing upstream fish migration. The culvert was replaced with a 22-foot by 35-foot prefabricated modular steel bridge.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 15 52	113 54 16	6/1/2010	9/16/2011			C	F	5					
4484	Lemhi	Complexity	Lower Lemhi River Multi Landowner Bank Stabilization	The objective of the project was to improve fish spawning and rearing habitat and stabilize 351 ft. of eroding river bank to prevent lateral migration of the river. A total of 351 feet of eroding stream bank was armored with root wads, rock and planted vegetation. An old levee was removed for increased floodplain connectivity, and an irrigation ditch was relocated and a fence line set back to exclude cattle from access to the streambank and protect additional riparian habitat.	Snake River Spring/Summer Chinook Salmon, Snake River Steelhead	45 09 42	113 50 43	4/4/2011	11/18/2011			R							0.1

Page is intentionally blank.

## Attachment 3: Tributary Habitat Reports by the Bureau of Reclamation

**Attachment 3 – Table 1. Tributary Habitat Reports by the Bureau of Reclamation**

Report Name	Internet address	Date
Reclamation's 2011 Annual Report of Tributary Habitat Projects Completed for the 2010 FCRPS Biological Opinion	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/other/2011annrept.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/other/2011annrept.pdf</a>	May-12
Reclamation's 2010 Annual Report of Tributary Habitat Projects Completed for the 2010 Federal Columbia River Power System Biological Opinion	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/other/2010annrept.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/other/2010annrept.pdf</a>	Jul-11
Reclamation's 2009 Annual Report of Tributary Habitat Projects Completed for the 2008 Federal Columbia River Power System Biological Opinion	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/other/2009habitatannualreport.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/other/2009habitatannualreport.pdf</a>	Dec-10
<b>Washington</b>		
<b>Entiat</b>		
Entiat Tributary Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/tribassmt/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/tribassmt/index.html</a>	Jan-09
Preston Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/prestonreach/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/prestonreach/index.html</a>	Jul-09
Stormy Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/stormyreach/stormy-assmt.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/entiat/stormyreach/stormy-assmt.pdf</a>	Nov-09
<b>Methow</b>		
Middle Methow Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/index.html</a>	Aug-10
Middle Methow Reach Assessments – Technical Appendices	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/m2reachassmt/app.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/m2reachassmt/app.pdf</a>	Aug-10
Completion Report: Wolf Creek Diversion Dam	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/completion/wolfcreekdiversion.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/completion/wolfcreekdiversion.pdf</a>	Mar-09
Methow Subbasin Geomorphic Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/geomorphicassessment/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/methow/geomorphicassessment/index.html</a>	May-08
<b>Wenatchee</b>		
Lower Nason Assessment of Geomorphic and Ecologic Indicators	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/2011-geomorphicassmt-lowernason.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/2011-geomorphicassmt-lowernason.pdf</a>	Apr-11
Kahler Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/kahler/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/kahler/index.html</a>	Mar-09
Upper White Pine Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/whitepine/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/whitepine/index.html</a>	Mar-09

**Attachment 3 – Table 1. Tributary Habitat Reports by the Bureau of Reclamation**

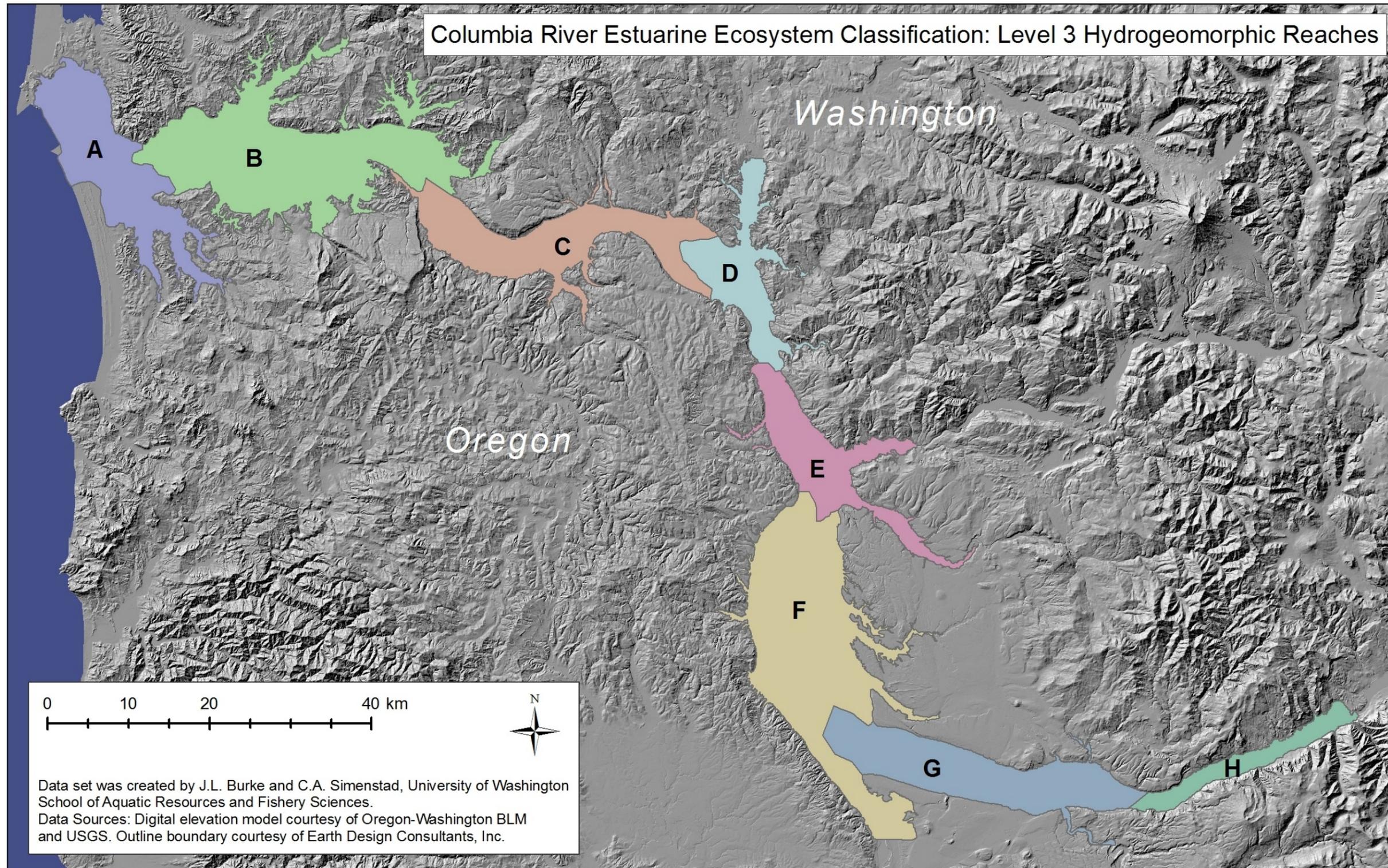
Report Name	Internet address	Date
	<a href="http://ucao.wenatchee.usbr.gov/upperwhitepine/index.html">p/ucao/wenatchee/upperwhitepine/index.html</a>	
Lower White Pine Reach Assessment	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/lowerwhitepine/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/lowerwhitepine/index.html</a>	Feb-09
Nason Creek Tributary Assessment . Technical Appendices	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/tributary-assmt.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/tributary-assmt.pdf</a> <a href="http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/app.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/ucao/wenatchee/nasoncreek/app.pdf</a>	Jul-08
<b>Oregon</b>		
<b>General Documents</b>		
Middle Fork and Upper Fork John Day River Tributary Assessments	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/lcao/tributary-assmt/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/lcao/tributary-assmt/index.html</a>	May-08
<b>Middle Fork John Day</b>		
Forrest Conservation Area Reach Assessment Middle Fork John Day River	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/lcao/middlefork/forestreachassmt.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/lcao/middlefork/forestreachassmt.pdf</a>	Aug-10
Oxbow Conservation Area Reach Assessment Middle Fork John Day River	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/lcao/oxbowreach.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/lcao/oxbowreach.pdf</a>	Mar-10
Geomorphology and Hydraulic Model Analysis of the Oxbow Conservation Area	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/lcao/oxbow/index.html">http://www.usbr.gov/pn/programs/fcrps/thp/lcao/oxbow/index.html</a>	Jun-09
<b>Idaho</b>		
<b>Lemhi</b>		
Completion Report: Lemhi River L-3 Wasteway Diversion Fish Barrier	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L-3.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L-3.pdf</a>	Feb-08
Completion Report: Lemhi River L-9 Diversion Replacement	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L9.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L9.pdf</a>	Dec-07
Completion Report: Lemhi River L-13 Irrigation Fish Screen Replacement	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L-13.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L-13.pdf</a>	Oct-07
Completion Report: Lemhi River L-44 Irrigation Diversion Replacement	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L44.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L44.pdf</a>	Oct-07
Completion Report: Lemhi River L-35A Fish Screen and Headgate Replacement	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L35A.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L35A.pdf</a>	Oct-07
Flow Characterization Study: Instream Flow Assessment, Hawley Creek and Eighteenmile Creek, Idaho	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/phabsim/2006/hawley-flowassessment.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/phabsim/2006/hawley-flowassessment.pdf</a>	Jun-07
Completion Report: L-3 and L-3A Irrigation Diversion Replacement	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L3-L3A.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/lemhi/completion/L3-L3A.pdf</a>	May-07
<b>Little Salmon</b>		
Completion Report: Squaw Creek Culvert Fish Passage Improvement Project	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/littlesalmon/completion/sqawcrk-">http://www.usbr.gov/pn/programs/fcrps/thp/srao/littlesalmon/completion/sqawcrk-</a>	Feb-08

**Attachment 3 – Table 1. Tributary Habitat Reports by the Bureau of Reclamation**

Report Name	Internet address	Date
	<a href="#">culvert.pdf</a>	
<b><i>Upper Salmon</i></b>		
Completion Report: East Fork Salmon River EF/10 and EF/11 Irrigation Diversion Consolidation Project	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/upperalmon/completion/ef1011/ef10-11.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/upperalmon/completion/ef1011/ef10-11.pdf</a>	Jul-07
Completion Report: Garden Creek and Gini Canal Crossing Project	<a href="http://www.usbr.gov/pn/programs/fcrps/thp/srao/upperalmon/completion/ginicanal/gini-garden.pdf">http://www.usbr.gov/pn/programs/fcrps/thp/srao/upperalmon/completion/ginicanal/gini-garden.pdf</a>	Jul-07

Page is intentionally blank.

Attachment 4: Action Agency 2011 Estuary Habitat Projects



**Attachment 4 – Table 1. Action Agency 2011 Estuary Habitat Projects**

Location (Reach A–H)	Project Name	Project Number	Lead Agency/ Sponsor	Estuary Module Action (Project Subactions Addressing Identified Limiting Factors)	Linear Miles of Riparian Stream/ Channel Improved	Acres Planted/ Maintained/ Restored/ Cleared of Invasive Species	Status
<b>Reach A – River Miles 2-14</b>							
A	Chinook River Floodplain Acquisition	2010-020-00	BPA / WDFW	CRE 9.3 Actively purchase off-channel habitats in urban and rural settings that (1) cannot be effectively protected through regulation, (2) are degraded but have good restoration potential, or (3) are highly degraded but could benefit from long-term restoration solutions		220.0	Worked on pre-acquisition activities in 2011 with anticipated Acquisition in 2012; construction completion anticipated in 2013
A	Otter Point	2010-004-00 2003-011-00	BPA / CREST	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		3.9	Phase 1 complete in 2010; Phase II will be completed in 2012
				CRE 15.3 Implement projects to address infestations on public and private lands		19.3	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		30.0	
A	Colewart Creek (Nutel Landing)	2010-004-00	BPA / CREST	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.4		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2012
				CRE 10.2a Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		3.6	
				CRE 10.2b Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		6.2	
				CRE 6.3 Dispose of dredged materials using techniques identified through the demonstration projects and region-wide planning.		11.3	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		4.5	
A	Fort Columbia	2010-004-00	BPA / CREST	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		5.1	Completed in 2011
				CRE 10.3 Upgrade tide gates where (1) no other options exist, (2) upgraded structures can provide appropriate access for juveniles, and (3) ecosystem function would be improved over current conditions		80.0	
A	Wallacut River – Acquisition	2010-073-00 2003-011-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.9		Worked on pre-acquisition activities in 2011 with acquisition completed in 2012; construction completion anticipated in 2014
				CRE 9.3 Actively purchase off-channel habitats in urban and rural settings that (1) cannot be effectively protected through regulation, (2) are degraded but have good restoration potential, or (3) are highly degraded but could benefit from long-term restoration solutions		111.0	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		8.7	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		55.6	
				CRE 15.3 Implement projects to address infestations on public and private lands		80.0	
<b>Reach B – River Mile 14-38</b>							
B	Mill Road (Grays River)	2003-011-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.53		Completed in 2011
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		1.5	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats and tide channels		46.2	
				CRE 15.3 Implement projects to address infestations on public and private lands		46.2	
B	Grays Bay – Crooked Creek Parcel 2 Restoration	2010-073-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.3		Worked on pre-restoration activities in 2011; however project is now on hold.
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		20.3	
				CRE 15.3 Implement projects to address infestations on public and private lands		29.8	
B	Gnat Creek	2010-004-00	BPA / CREST	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.5		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2012
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		42.8	
				CRE 15.3 Implement projects to address infestations on public and private lands		5.3	

**Attachment 4 – Table 1. Action Agency 2011 Estuary Habitat Projects**

Location (Reach A–H)	Project Name	Project Number	Lead Agency/ Sponsor	Estuary Module Action (Project Subactions Addressing Identified Limiting Factors)	Linear Miles of Riparian Stream/ Channel Improved	Acres Planted/ Maintained/ Restored/ Cleared of Invasive Species	Status
B	Knappton Cove Acquisition	2010-073-00 2003-011-00	BPA / Columbia Land Trust	CRE 9.3 Actively purchase off-channel habitats in urban and rural settings that (1) cannot be effectively protected through regulation, (2) are degraded but have good restoration potential, or (3) are highly degraded but could benefit from long-term restoration solutions		197.0	Worked on pre-acquisition activities in 2011 with Acquisition in 2012
B	Liberty Lane	2003-011-00	BPA / CREST	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.3		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2013
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		0.8	
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		7.1	
				CRE 15.3 Implement projects to address infestations on public and private lands		8.0	
B	Grays Bay – Deep River Confluence Acquisition (Olsen)	2010-073-00 2003-011-00	BPA / Columbia Land Trust	CRE 9.3 Actively purchase off-channel habitats in urban and rural settings that (1) cannot be effectively protected through regulation, (2) are degraded but have good restoration potential, or (3) are highly degraded but could benefit from long-term restoration solutions		133.8	Worked on pre-acquisition activities in 2011 with acquisition completed in 2012; construction completion anticipated in 2014
B	Grays Bay – Kandoll Farm Restoration Phase 2	2010-073-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	3.7		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2013
				CRE 6.3 Dispose of dredged materials using techniques identified through the demonstration projects and region-wide planning		11.1	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		6.8	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		157.2	
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		57.7	
				CRE 15.3 Implement projects to address infestations on public and private lands		202.9	
<b>Reach C – River Mile 38-64</b>							
C	Hump-Fisher Shallow Water	P2#323863	Corps / WDFW	CRE 6.3 Dispose of dredged materials using techniques identified through the demonstration projects and region-wide planning	Under investigation	Under investigation	Project design waiting until two similar habitat projects are completed and ERTG feedback on success of those projects is received.
		2009-016-00	BPA / WDFW	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality	Under investigation	Under investigation	
C	Abernathy Creek Tidal Restoration	P2#323863 2009-016-00	Corps / WDFW BPA / WDFW	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.9		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2012
				CRE 6.3 Dispose of dredged materials using techniques identified through the demonstration projects and region-wide planning		0.7	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		1.6	
				CRE 9.4 (LWD structures) restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		0.2	
				CRE 15.3 Implement projects to address infestations on public and private lands		4.8	
C	Germany Creek	2003-011-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.4		Completed in 2011
				CRE 6.2 Identify and implement dredged material beneficial use demonstration projects, including the notching and scrape-down of previously disposed materials and placement of new materials for habitat enhancement and/or creation		4.3	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		2.6	
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		4.0	
				CRE 15.3 Implement projects to address infestations on public and private lands		14.9	

Reach D – River Mile 64-74							
D	Cottonwood Island	P2#323863	Corps / WDFW	CRE 6.2 Identify and implement dredged material beneficial use demonstration projects, including the notching and scrape-down of previously disposed materials and placement of new materials for habitat enhancement and/or creation	Under investigation	Under investigation	Waiting for completion of Columbia White-tailed deer mitigation project. Viability of fish habitat improvement project will be assessed at that time.
		2009-016-00	BPA / WDFW	CRE 6.3 Dispose of dredged materials using techniques identified through the demonstration projects and region-wide planning	Under investigation	Under investigation	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality	Under investigation	Under investigation	
Reach E – River Mile 74-85							
E	Oaks Bottom Section 536		Corps / City of Portland	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	0.5		In process of assessing project feasibility and selecting alternative designs.
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		60.0	
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		60.0	
				CRE 15.3 Implement projects to address infestations on public and private lands		60.0	
E	Mud Lake Restoration	2003-011-00	BPA /Clark County	CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		44.0	On-hold pending negotiations with landowner in cooperation with CLT and Clark County
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		2.0	
				CRE 9.4 (LWD) restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		1.0	
				CRE 6.2 Identify and implement dredged material beneficial use demonstration projects, including the notching and scrape-down of previously disposed materials and placement of new materials for habitat enhancement and/or creation		11.0	
E	Columbia Stock Ranch	2010-073-00	BPA / Columbia Land Trust	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	7.4		Worked on pre-acquisition activities in 2011 with acquisition completed in 2012; construction completion anticipated in 2014
				CRE 6.2 Identify and implement dredged material beneficial use demonstration projects, including the notching and scrape-down of previously disposed materials and placement of new materials for habitat enhancement and/or creation		16.3	
				CRE 9.3 Actively purchase off-channel habitats in urban and rural settings that (1) cannot be effectively protected through regulation, (2) are degraded but have good restoration potential, or (3) are highly degraded but could benefit from long-term restoration solutions		550.0	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		3.0	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		360.3	
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		9.9	
			CRE 15.3 Implement projects to address infestations on public and private lands		746.6		
Reach F – River Mile 85-102.5							
F	Dairy Creek / Sturgeon Lake	P2#145653	Corps / WMSWCD	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		13–26	Obtaining preliminary ERTG evaluation of potential survival benefits of restoring floodplain lake habitat. Project viability to be assessed when that evaluation received.
				CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects		2,000.0	
F	Post Office Lake	P2# 331430	Corps / USFWS	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	1.2		In process of analyzing alternative designs.
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		0.46	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		130.6	
F	Shillapoo Wildlife Area	P2# 323863	Corps / WDFW	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	Under investigation	Under investigation	Investigating feasibility of project, including implications of discovery of pipelines on project site and expense of constructing setback levee (or buying adjacent property).
				2009-016-00	BPA / WDFW	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality	
		CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels	Under investigation			Under investigation	
		CRE 10.2 Remove tide gates to improve the hydrology between wetlands and the channel and to provide juveniles with physical access to off-channel habitat; use a habitat connectivity index to prioritize projects	Under investigation			Under investigation	
					CRE 15.3 Implement projects to address infestations on public and private lands	Under investigation	

<b>Reach G – River Mile 102.5-127</b>							
G	Sandy River Dike Breach	P2#142456	Corps / USFS	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	1.1		In process of selecting alternative designs.
				CRE 6.2 Identify and implement dredged material beneficial use demonstration projects, including the notching and scrape-down of previously disposed materials and placement of new materials for habitat enhancement and/or creation		0.69	
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		10.1	
				CRE 10.1 Breach or lower the elevation of dikes and levees; create and/or restore tidal marshes, shallow-water habitats, and tide channels		50.7	
				CRE 15.3 Implement projects to address infestations on public and private lands		1.0	
<b>Reach H – River Mile 127-145</b>							
H	Duncan Creek Chum Channel Restoration Phase 2	2010-017-00	BPA / WDFW	CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality	0.27		Completed in 2011
				CRE 10.3 Upgrade tide gates where (1) no other options exist, (2) upgraded structures can provide appropriate access for juveniles, and (3) ecosystem function would be improved over current conditions		33.9	
H	Hamilton Creek Chum Channel	2010-017-00	BPA / WDFW	CRE 1.4 Restore and maintain ecological benefits in riparian areas; this includes managing vegetation on dikes and levees to enhance ecological function and adding shoreline/instream complexity for juvenile salmonid refugia	1.4		Worked on pre-restoration activities in 2011 with anticipated construction completion in 2012
				CRE 9.4 restore degraded off-channel habitats with high intrinsic potential for increasing habitat quality		5.8	