



*** Fish Passage Center
Accomplishments**

2012

- * The FPC staff, working with the Fish Passage Advisory Committee and the Lamprey Technical Workgroup implemented the USFWS standardized approach to juvenile lamprey identification
- * In 2012 a standardized protocol for juvenile lamprey condition monitoring was implemented at McNary and Bonneville dams in addition to John Day Dam which was first implemented in 2011

* Smolt Monitoring Program

- * November 2012 the FPC staff reported lamprey monitoring results to the Lamprey Technical Work Group.
- * The Work Group did not propose modifications in lamprey monitoring for 2013
- * The SMP was successfully implemented within the sampling conditions of the ESA permit issued by NOAA. All reporting requirements were successfully completed for the 2012 permit.
- * The Gas Bubble Trauma monitoring report was successfully completed and submitted to the COE in November.

- * Collaboration with the CSS Oversight Committee resulted in publication of, “Assessing Freshwater and Marine Environmental Influences on Life-Stage-Specific Survival Rates of Snake River Spring-Summer Chinook Salmon and Steelhead”
- * Updated the CSS bootstrap software to migrate to a C++ platform with the objective of processing larger and more data sets at greater speed.

* Comparative Survival Study

- * Collaboration with IDFG to add a sockeye PIT tag mark group to CSS to begin to build a time series of Snake River sockeye data, first year 2013.
- * 2012 CSS Annual Review meeting, presented consolidated life cycle analyses of CSS and historical data.
- * Working to develop smolt-to-adult return data for Upper Columbia River stocks
- * Included Snake River Fall Chinook metrics in the CSS Annual Report.
- * Working to describe a spill metric that includes surface spill passage structures

Snake River hatchery groups marked for the 2012 smolt outmigration that have all or part of their PIT-tags provided by the CSS. Many groups have tags cooperatively provided by the CSS and other entities. The hatchery, species, tag funding sources and tag totals are shown for each. Through cooperative efforts, pre-assignments are carried out by either the CSS or the other associated agencies.

Hatchery	Species	IDFG LSRCP	CSS	IPC	PIT-Tag Funding Source ¹			Total PIT- tags
					ODFW LSRCP	USFWS	WDFW LSRCP	
Rapid River	Chinook		32,000	20,000				52,000
McCall	Chinook	20,000	32,000					52,000
Clearwater	Chinook	51,000	21,800					72,800
Pahsimeroi	Chinook		6,400	15,000				21,400
Sawtooth	Chinook	15,000	6,400					21,400
Magic Valley	Steelhead	24,600	11,900					36,500
Hagerman	Steelhead	19,000	8,100					27,100
Niagara Springs	Steelhead		28,300					28,300
Clearwater	Steelhead	16,800	7,000					23,800
Lookingglass (Imnaha AP)	Chinook		21,000					21,000
Lookingglass (Catherine AP)	Chinook		21,000					21,000
Irrigon (Grande Ronde, Imnaha)	Steelhead		14,000		31,400			45,400
Dworshak	Chinook		52,000					52,000
Dworshak	Steelhead		9,000			19,900		28,900
Lyon's Ferry (Cottonwood AP)	Steelhead		2,000				4,000	6,000
Grand Total	-	146,400	272,900	35,000	31,400	19,900	4,000	509,600

¹ Tag funding sources are: Idaho Fish and Game (IDFG), Idaho Power Company (IPC), Oregon Department of Fish and Wildlife (ODFW), U.S. Fish and Wildlife Service (USFWS), Washington Department of Fish and Wildlife (WDFW), Comparative Survival Study (CSS), and Lower Snake River Compensation Plan (LSRCP).

Wild fish marked for the 2012 smolt outmigration that have all or part of their PIT-tags provided by the CSS. Many groups have tags cooperatively provided by the CSS and other entities. The location of marking, species, tag funding sources and tag totals are shown for each. Through cooperative efforts, pre-assignments are carried by either the CSS or these groups except for the Chiwawa Trap and Lower Wenatchee Trap (i.e., Upper Columbia Basin).

Location	Wild Species	<u>PIT-Tag Funding Source¹</u>				Total PIT-tags
		SMP	CSS	IDFG	ODFW	
Clearwater/Salmon tributaries	Ch./St.		24,000	40,000		64,000
Snake & Salmon Traps	Ch./St.	8,800	7,000			15,800
Clearwater Trap	Ch./St.		5,200			5,200
Grande Ronde Trap	Ch.	4,000	1,400			5,400
Grande Ronde tributaries	Ch.		2,200		6,000	8,200
Chiwawa Trap, Lower Wenatchee Trap	Ch./St.		30,000			30,000
Grand Total		12,800	69,800	40,000	6,000	128,600

¹ Tag funding sources are: Smolt Monitoring Program (SMP), Idaho Fish and Game (IDFG), Oregon Department of Fish and Wildlife (ODFW). PIT-tags are provided for both wild Chinook and wild steelhead at some locations but the actual numbers captured and tagged by species are not known until after the outmigration is complete.

Groups marked for the 2012 smolt outmigration that do not include PIT-tags provided by the CSS but are included in the study. The CSS does random pre-assignments for some groups. The location of marking/hatchery, species, primary marking agency and tag totals are shown for each.

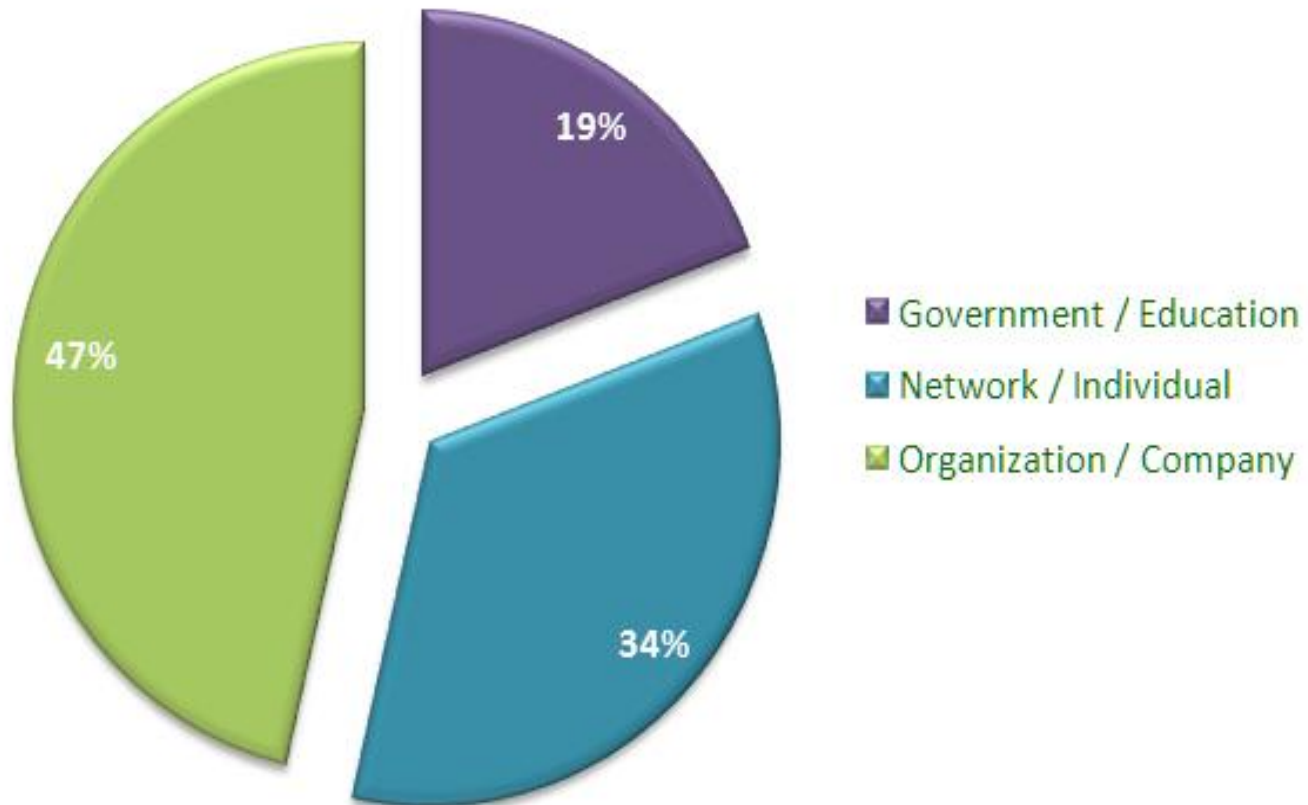
Location/Hatchery	Species	PIT-Tag Marking Agency ¹							
		CTUIR*	SBT*	NPT**	ODFW	COE***	USFWS	YINN	SMP
Wild Groups									
Lookingglass Creek (Grande Ronde basin)	Ch./St.	3,500							
East Fork Salmon, West Fork Yankee Rivers (Salmon basin)	Ch./St.		1,300						
Imnaha Trap (Imnaha basin)	Ch./St.			15,000					
John Day River	Ch./St.				9,300				
Trout Creek (Deschutes basin)	St.				1,300				
Yakima (Rosa Dam)	Ch.							2,000	
Yakima (Satus, Toppenish, & Ahtanum Creeks)	St.							1,300	
Hatchery Groups									
Sawtooth and Oxbow Hatcheries (Snake River)	Sockeye.					62,000			
Carson	Ch.						30,000		
Cle Elum	Ch.							40,000	
Leavenworth	Ch.								15,000
Warm Springs	Ch.						15,000		
Hatchery + Wild									
RIS yearling	Ch.								1,800
RIS subyearling	Ch.								3,500
RIS	St.								4,000
Grand Total		3,500	1,300	15,000	10,600	62,000	45,000	43,300	24,300

¹ Tag funding sources are: Confederated Tribes of the Umatilla (CTUIR), Shoshone Tribe (SBT), Nez Perce Tribe (NPT), Oregon Department of Fish and Wildlife (ODFW), U.S. Army Corps of Engineers (COE), U.S. Fish and Wildlife (USFWS), Yakama Indian Nation (YINN), and Smolt Monitoring Program (SMP). PIT-tags are provided for both wild Chinook and wild steelhead at some locations but the actual numbers captured and tagged by species a not known until after the outmigration is complete.

- * www.fpc.org use continues to increase annually
- * Web farm construction and implementation in 2011 proved to be successful throughout 2012
- * Website operated through out the year without interruption or down time
- * 22,034,962 web site hits compared to 19,268,468 in 2011, an increase of about 13%

* **Provide Data to the
Region**

Percentage of Hits by User Type, 2012



- * In 2012 FPC staff responded to 74 data requests
- * 40 of these requests required summaries and/or analyses and a written response. All of these were posted at www.fpc.org
- * FPC staff provided database and website technical support to IDFG
- * Technical support for agencies and tribes in COE SRWG, FPOM, and AFEP processes and FPAC

* Technical Support

- * Potential office relocation
 - * Switch to fiber optic line
- * Update, modernize www.fpc.org
 - * New web tools
 - * Faster, easier data access for FPC constituents
 - * Expand map based tools
- * Restructure FPC PIT tag data base to conform with PTAGIS data base modifications
- * Fall Chinook mark group
- * Upper Columbia

* **Looking Forward**