

Total CWT costs in the Columbia River Basin

5/12/2011

Recovery costs

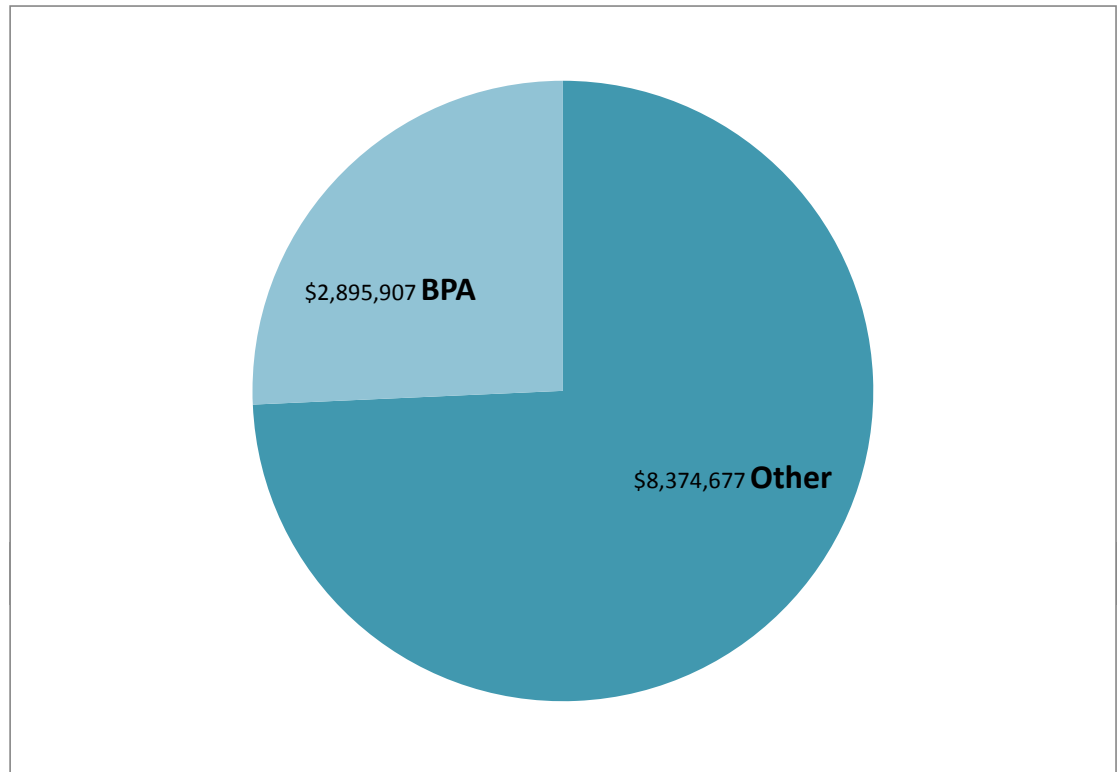
BIA	\$	300
NMFS	\$	655,704
PacifiCorp	\$	153,000
PGE	\$	10,400
Idaho Power	\$	8,000
PSMFC	\$	32,500
ODFW	\$	472,600
Anad. Fish Cons. Act	\$	107,699
USFWS	\$	784,946
WDFW	\$	445,099
Other Federal Funds	\$	82,004
PUDs	\$	74,000
IDFG, ODFW, WDFW, USFWS	\$	1,615,385
ADFG - Alaska	\$	92,400
CDFO - Canada	\$	80,640
BPA	\$	2,218,907

Tagging costs

Other	\$	3,760,000
BPA	\$	677,000

Totals \$ 11,270,584

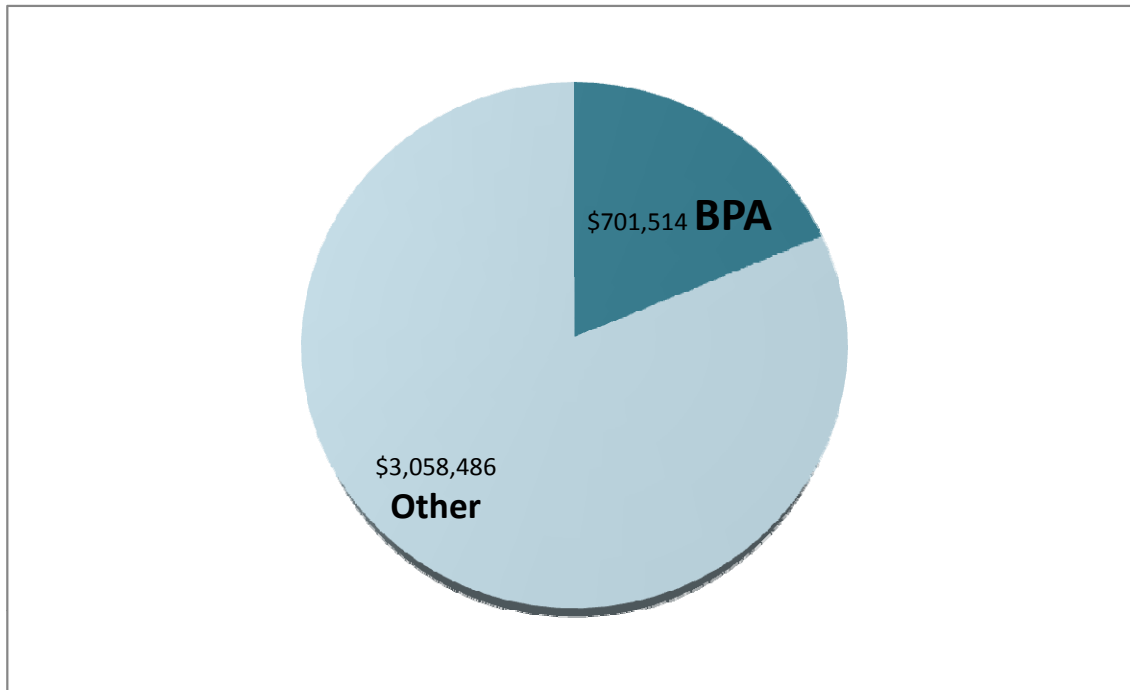
Other	\$	8,374,677
BPA	\$	2,895,907



Columbia Basin Coded Wire Tagging Costs

5/12/2011

		Cost	
Total CWTs Annually	23,500,000	\$3,760,000	
BPA Funded CWTs		\$701,514	19%
ODFW	\$242,839		
USFWS	\$115,000		
WDFW	\$343,675		
Other Funding		\$3,058,486	



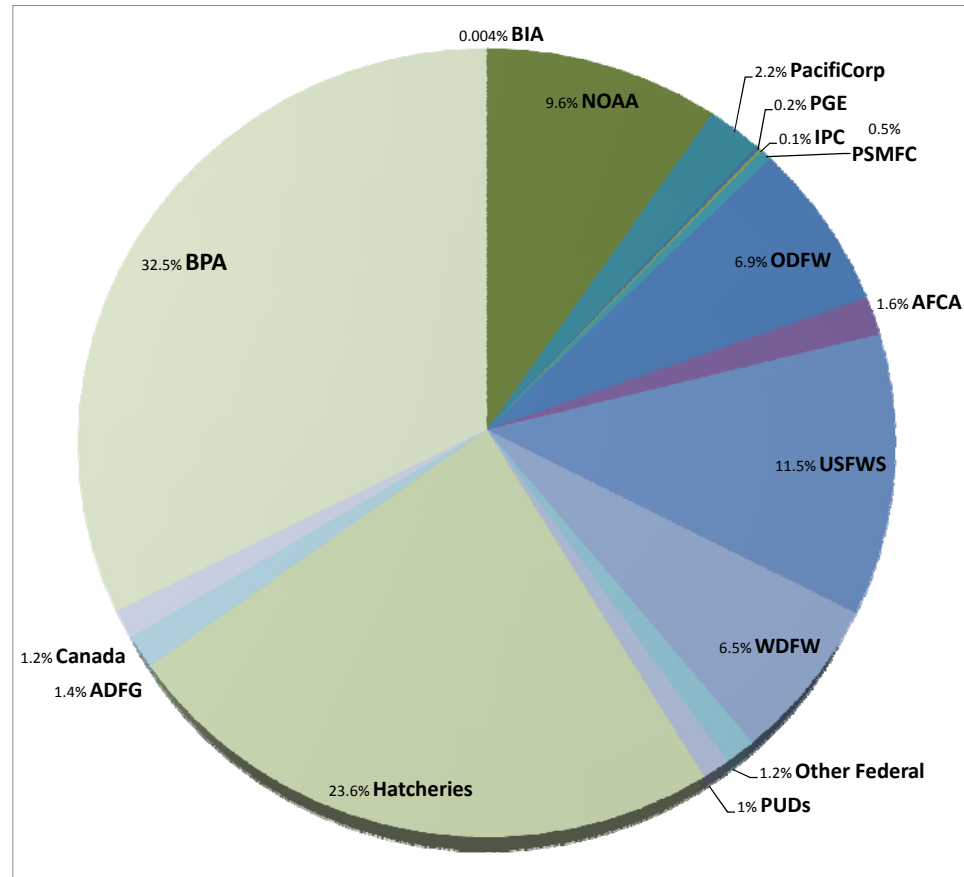
Uses of Coded Wire Tags:

- Estimate total run size by tag code (stock specific run reconstruction)
- Evaluate hatchery program effectiveness (e.g. meeting mitigation goals)
- Determine smolt to adult survival rates (recruitment success)
- Study of migration patterns
- Determine strays on spawning grounds
- Evaluate in-hatchery treatments
- Evaluate hatchery contributions to catch
- Weak stocks harvest management, i.e. impacts on natural populations
- Determine impacts of avian predation (e.g. arctic tern nesting sites recoveries)
- Stock assessments using 40 years of data for comparison over time
- Meeting U.S. - Canada Salmon Treaty obligations
- Meeting tribal treaty obligations

CWT Recovery Program Costs for Columbia River Basin Origin Fish

5/12/2011

	<u>Costs</u>	<u>Percent</u>	
BIA		0.004%	\$ 300
ODFW Clackamas CWT Lab	\$ 300		
NMFS		9.6%	\$ 655,704
ODFW Clackamas CWT Lab	\$ 5,687		
PSMFC Mark Center	\$ 65,000		
ODFW Ocean Sampling (55%) ¹	\$ 209,100		
WDFW Selective Fisheries Monitoring	\$ 45,000		
WDFW - PST CWT Lab - (33.2%) ¹	\$ 37,228		
ODFW - PST Ocean Sampling (55%) ¹	\$ 65,605		
ODFW - Ocean Recreational (55%) ¹	\$ 228,084		
PacifiCorp		2.2%	\$ 153,000
WDFW Col. R. Sampling	\$ 153,000		
PGE		0.2%	\$ 10,400
ODFW Clackamas CWT Lab	\$ 10,400		
Idaho Power		0.1%	\$ 8,000
IDFG CWT Lab	\$ 8,000		
PSMFC		0.5%	\$ 32,500
PSMFC Mark Center	\$ 32,500		
ODFW		6.9%	\$ 472,600
ODFW - Marine Sport & Commercial	\$ 326,300		
ODFW Clackamas CWT Lab	\$ 146,300		
Anad. Fish Cons. Act		1.6%	\$ 107,699
WDFW Ocean Sampling - (33.2%) ¹	\$ 78,020		
WDFW CWT Lab - (33.2%) ¹	\$ 29,679		
USFWS		11.5%	\$ 784,946
ODFW Clackamas CWT Lab	\$ 56,166		
PSMFC Mark Center	\$ 250,000		
IDFG Sport Sampling (LSRCP)	\$ 187,300		
IDFG CWT Lab (LSRCP)	\$ 64,800		
ODFW Col. R. Sampling	\$ 226,680		
WDFW		6.5%	\$ 445,099
WDFW Col. R. Sampling	\$ 403,700		
WDFW Ocean Sampling - (33.2%) ¹	\$ 26,560		
WDFW CWT Lab - (33.2%) ¹	\$ 14,839		
Other Federal Funds		1.2%	\$ 82,004
WDFW Ocean Sampling - (33.2%) ¹	\$ 82,004		
PUDs		1%	\$ 74,000
Hatchery CWT Sampling	\$ 74,000		
IDFG, ODFW, WDFW, USFWS		23.6%	\$ 1,615,385
CWT Sampling at Col. R. Hatcheries ²	\$ 1,615,385		
ADFG - Alaska		1.4%	\$ 92,400
CWT Recovery Prgrm (2004) - (7.0%) ¹	\$ 92,400		
CDFO - Canada		1.2%	\$ 80,640
CWT Recovery Prgrm (2004) - (11.2%) ¹	\$ 80,640		
BPA		32.5%	\$ 2,218,907
CWT Rec. Prgrm - WDFW	\$ 249,897		
Missing Prod. Groups - WDFW Lab	\$ 45,713		
CWT Rec. Prgrm - WDFW/PSMFC	\$ 729,963		
CWT Rec. Prgrm - ODFW Col. R.	\$ 479,418		
CWT Rec. Prgrm - ODFW Ocean	\$ 333,182		
CWT Rec. Prgrm - ODFW Lab	\$ 186,264		
CWT Rec. Prgrm - Mark Center	\$ 194,470		
Total Cost:	\$ 6,833,584	100%	

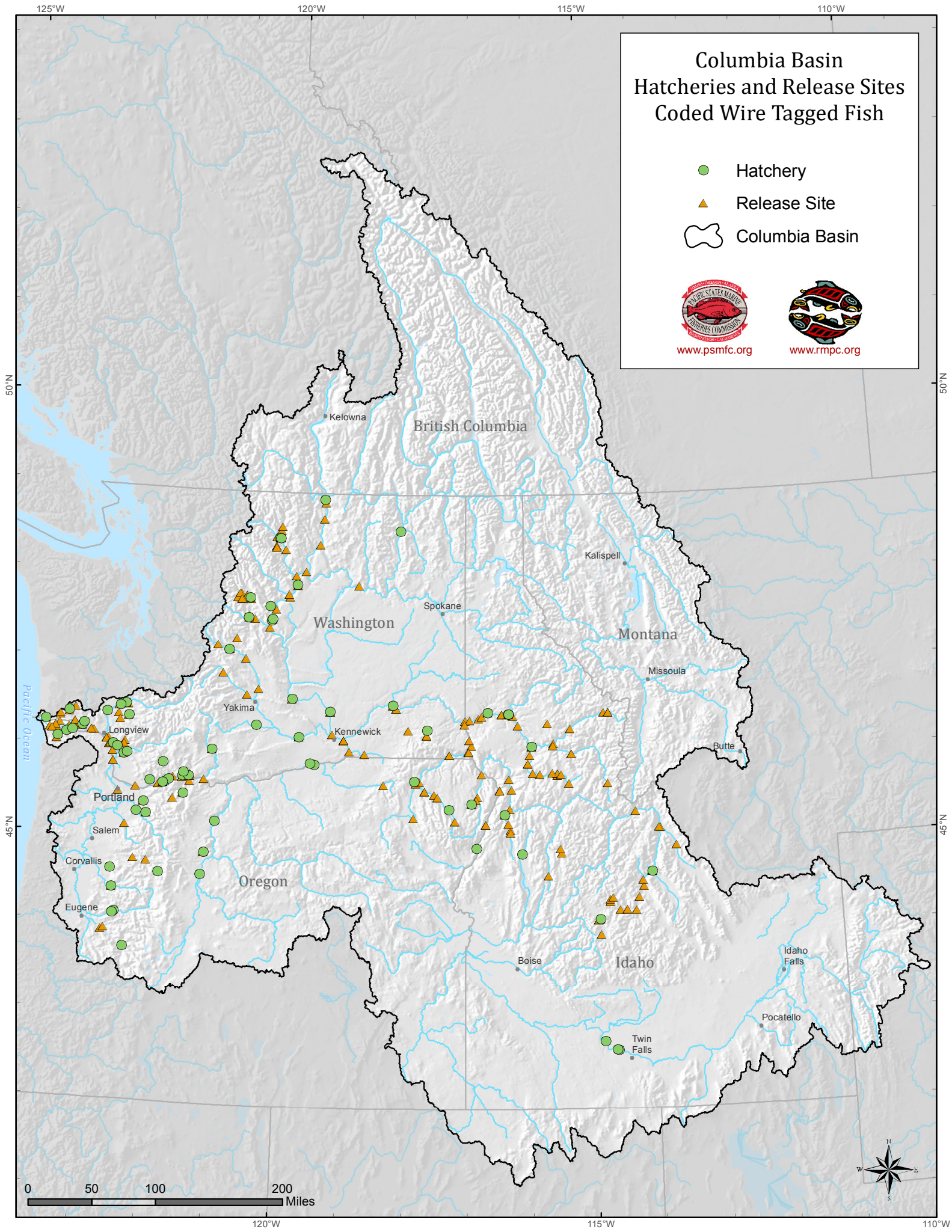


Recovery costs include: retrieving coded wire tags at hatcheries from returning hatchery fish, hatchery and natural origin fish on spawning grounds, fish caught in tribal sport and commercial fisheries, transporting snouts containing tags to labs, recovering and reading tags at the labs and inputting the tag data into agency databases and into RMIS.

Notes:

¹ This is the percentage of Columbia River origin fish processed and the portion of the program's total costs included in this worksheet.

² Estimated costs associated with recovering coded wire tags at all the Columbia River basin hatcheries.



Columbia Basin Hatcheries and Release Sites Coded Wire Tagged Fish

- Hatchery
- ▲ Release Site
- Columbia Basin



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Kelowna

British Columbia

Kalispell

Spokane

Washington

Montana

Missoula

Butte

Pacific Ocean

Longview

Yakima

Kennewick

Portland

Salem

Corvallis

Eugene

Oregon

Boise

Idaho

Idaho Falls

Pocatello

Twin Falls

0 50 100 200 Miles



120°W

115°W

110°W

50°N

45°N

50°N

45°N