

# Lower Snake River Compensation Plan Steelhead Symposium



Nathan Wiese LSRCP



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# Housekeeping

- Thanks for being here!
- Bathrooms down the hall



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# Housekeeping

- Please use chat for questions
- Each session will have time for questions
  - Additional questions will be captured on the back easel
- This is meant to be a discussion/interactive
- We will record the meeting



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# Housekeeping

- Snacks and refreshments are from your registration \$\$'s (\$25/each)
- Social hour the Oxford Suites tonight
- Lunch provided tomorrow (Wednesday) from New York Pizza



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# Housekeeping



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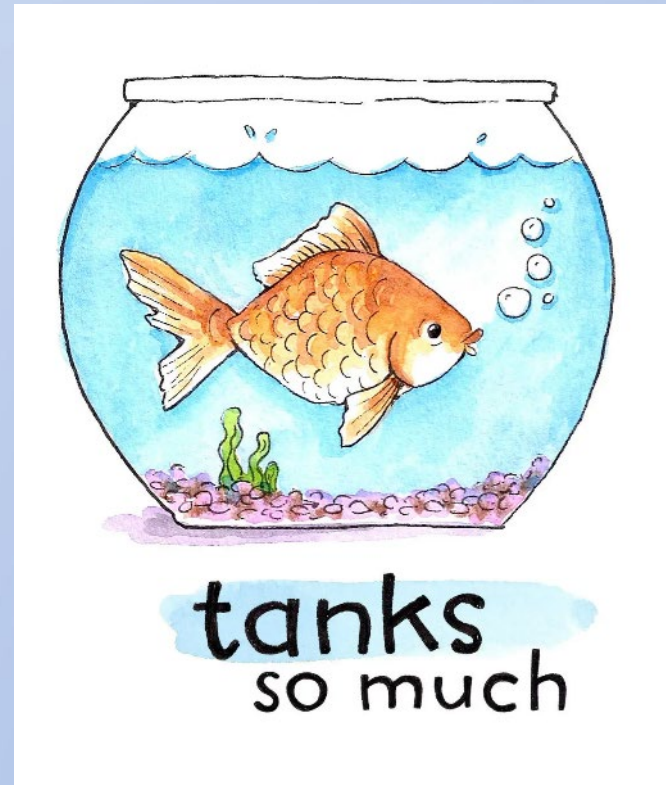
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# Thank You!

- Tanya Wiley – LSRCP Budget Analyst
- Rod Engle – LSRCP
- Erik Merrill – NPCC
- Symposium Presenters
- ISRP Panel
- Pre-Meeting Presenters
- LSRCP Team



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LSRCP VISION

# *Fish for the Future*



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# LSRCP Goal

- Mitigate loss of salmon and steelhead from operation of four Lower Snake River Dams



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# Who is LSRCP?

- Nez Perce Tribe (NPT)
- Shoshone-Bannock Tribe (SBT)
- U.S. Fish and Wildlife Service (USFWS)
- Confederated Tribes of the Umatilla Indian Reservation (CTUIR)
- Oregon Department of Fish and Wildlife (ODFW)
- Washington Department of Fish and Wildlife (WDFW)
- Idaho Department of Fish and Game (IDFG)
- Pacific States Marine Fisheries Commission (PSMFC)
- Bonneville Power Administration (BPA)



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# Goal of Chinook Symposium

- Review past 12 years of performance
- Identify current bottlenecks to meeting adult mitigation goal of 55,100 Steelhead
- Brainstorm ideas to surmount current issues
- Build on our 40-years of experience to outline the next 10-year plan



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# Why a Symposium?

*“Saving salmon is far more a social problem than a scientific problem.”*

– Courtland Smith, Cultural Anthropologist, 1998



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# Outline of Presentation

- History
- Implementation
- Funding
- Agenda



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# LSRCP History

1945

- Congressional Approval

1962

- Ice Harbor Dam

1969

- U.S. v Oregon
- Lower Monumental Dam

1970

- Little Goose Dam

1972

- LSRCP Coordination Act Report

1974

- Lower Granite Dam



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# LSRCP History



1975

- LSRCP Goals Established
- COE/Agency Special Report to Congress

1976

- Environmental Impact Assessment
- Congressional Authorization

1978

- Start of Implementation



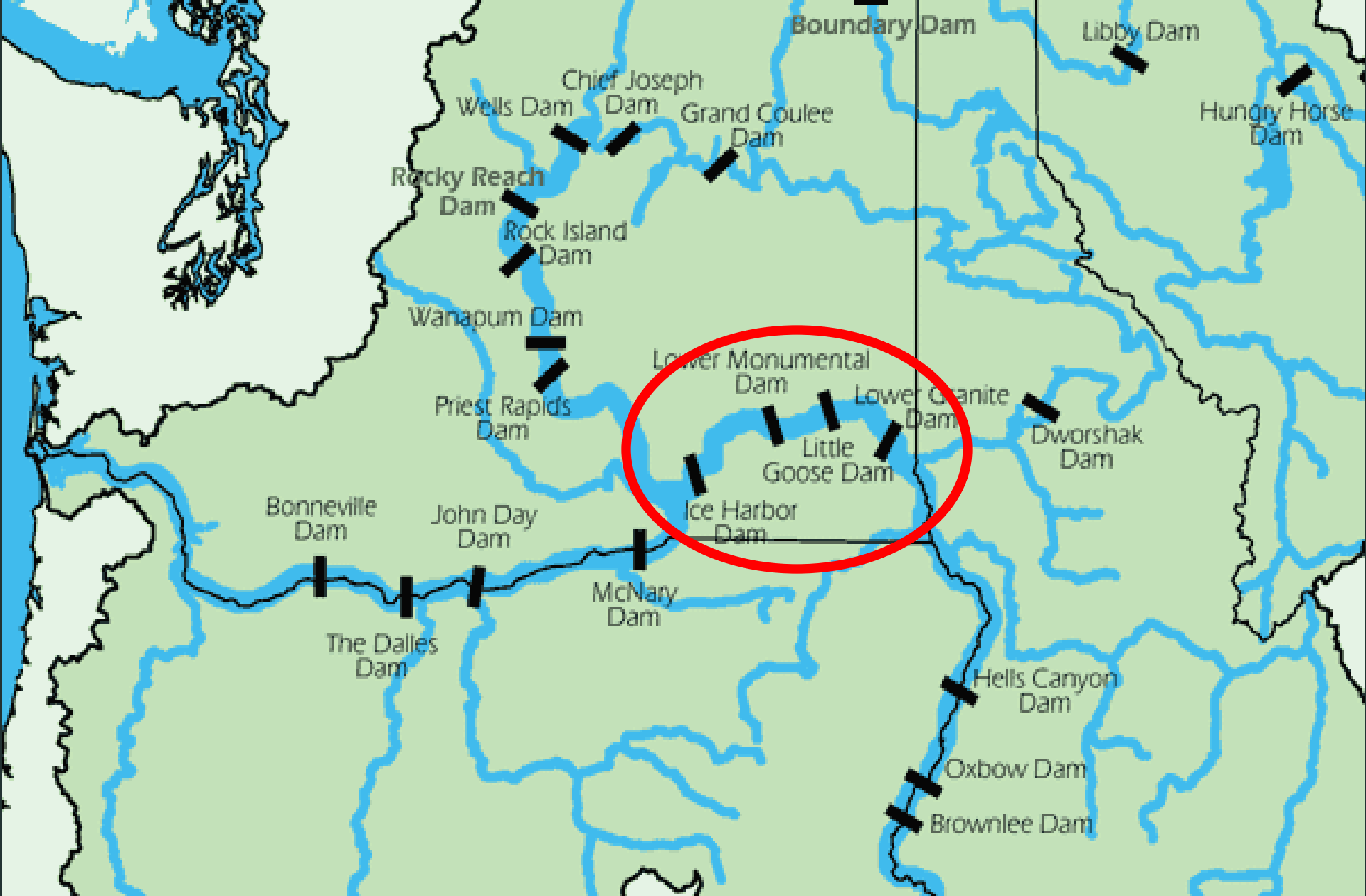
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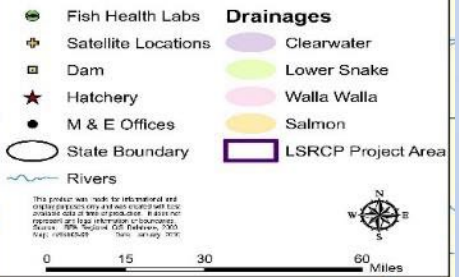




# Lower Snake River Compensation Plan



The LSRCP was authorized by Congress in 1976 to mitigate for fish losses due to the construction and operation of the four dams on the lower Snake River. The program consists of 11 fish hatcheries, 15 spawning and acclimation facilities, 4 fish health labs, and 7 monitoring and evaluation projects. Bonneville Power Administration funds the Fish and Wildlife Service to maintain the LSRCP.



**LSRCP HARVEST and ESCAPEMENT GOALS**

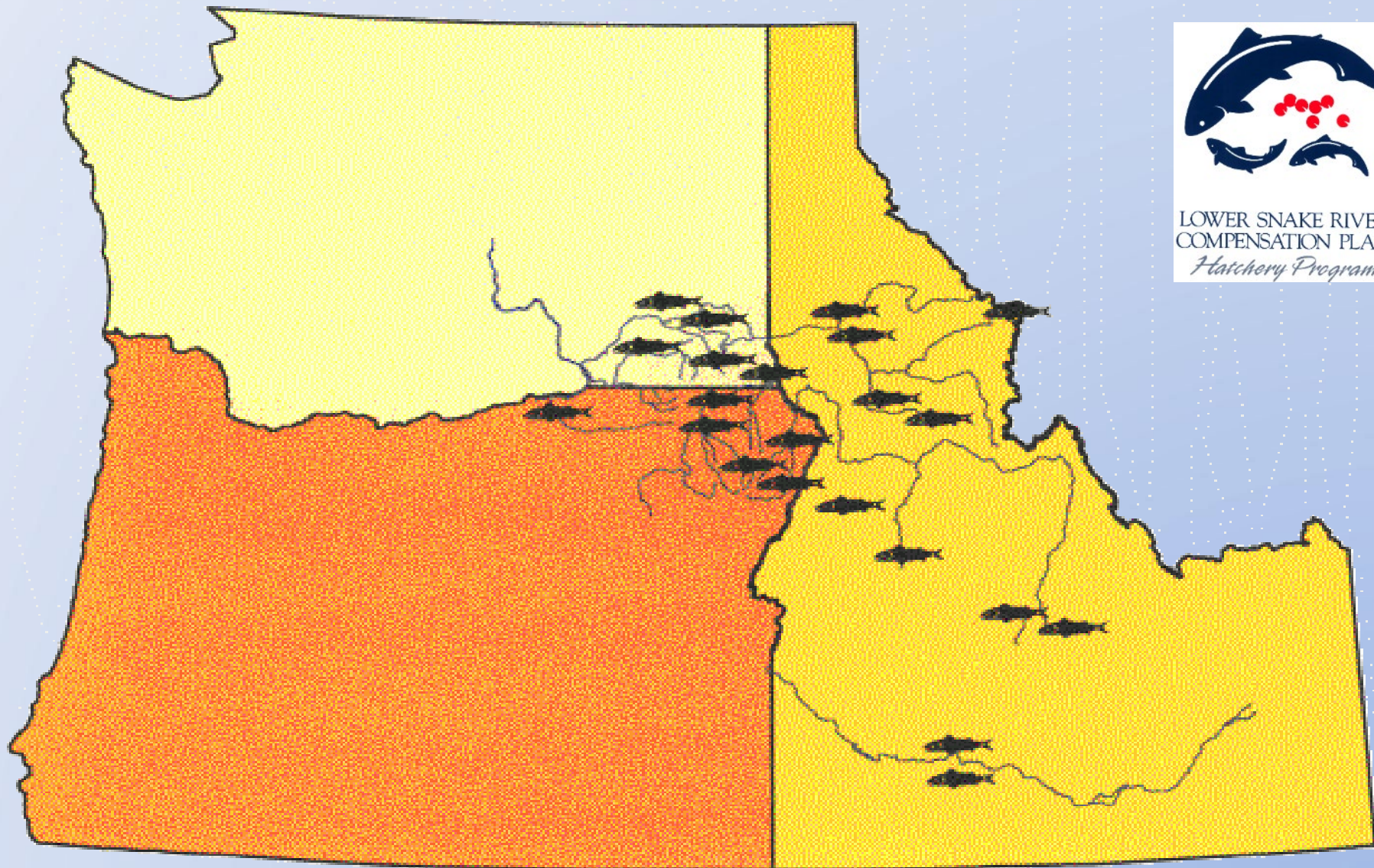
Species	Escapement		
	Coast Wide Harvest	To/Above Project Area	Production
Fall Chinook	73,200	18,300	91,500
Spring/Summer Chinook	234,000	58,700	293,500
S steelhead	110,200	55,100	165,300
Rainbow Trout	Stock 86,000 lbs into local waters		



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LOWER SNAKE RIVER  
COMPENSATION PLAN  
*Hatchery Program*



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# Program Reviews

- 1990 – Internal Review - Herrig
- 1998 – Internal Review
- 2002 – ISRP Total Program Review
- 2009-2011 - HRT/HSRG
- 2011 – ISRP – Spring Chinook
- 2013 – ISRP - Steelhead
- 2014 – ISRP – Fall Chinook
- 2016-2018 – BiOps
- 2022 – ISRP – Spring Chinook
- Ongoing – Annual Operating Plan Meetings



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# Previous Symposium Format

- Presentations at Symposium
- Questions posed
- Questions/Answers returned in written format
- 2025 Review
  - Symposium presentations
  - Follow-up questions and updates of reports
  - Final document compilation



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# Previous ISRP Recommendations

- Adjust smolt releases to freshwater carrying capacity
- Take action to establish viable natural populations
- No goal established for juvenile survival to Granite and survival not well understood
- How are programs being modified?



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# Overall Chinook Program

- Egg to Smolt survival goal is well above 70%
- Smolt production has been consistent at 5.5M
- 67% average survival to Lower Granite Dam (range 22%-84%)
- SAR is <0.93% (target = 0.50% to 0.87% BUT with 11M smolts)



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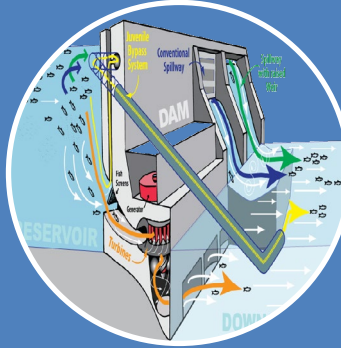


# Steelhead History



## Escapement

- Adult Estimates Pre-Dams
- Steelhead= 114,800+



## Hydrosystem Loss

- Construction/Operations
- 48% loss
- Project Area goals
- $114,800 * 0.48 = 55,100$



## Harvest/Habitat Loss

- Habitat (spawning)
- Harvest
  - 2:1 Steelhead
  - $55,100 * 2 = 110,200$

Steelhead Total Adults =  $55,100 + 110,200 = 165,300$



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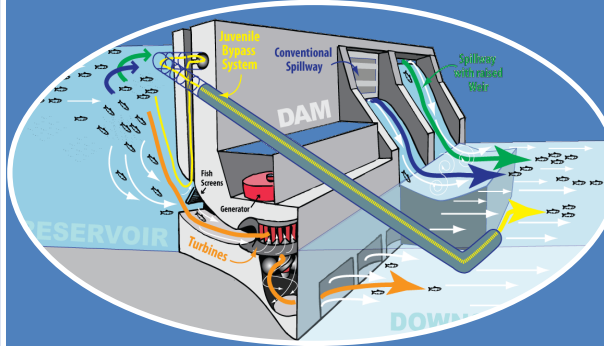


# Fall Chinook History



## Escapement

- Adult Estimates Pre-Dams
- Fall Chinook = 37,700+\*



## Hydrosystem Loss

- Construction/Operations
- 48% loss
- Project Area goals
- $37,700 * 0.48 = 18,300$



## Harvest/Habitat Loss

- Habitat (spawning)
- Harvest
  - 4:1 Chinook
  - $18,300 * 4 = 73,200$

Fall Chinook Total Adults =  $18,300 + 73,200 = 91,500$



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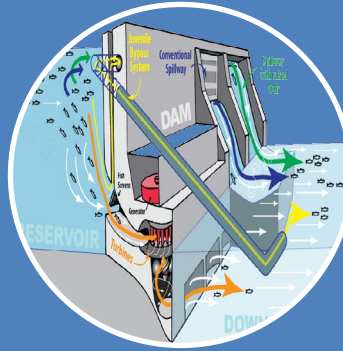


# Spring Chinook History



## Escapement

- Adult Estimates Pre-Dams
- Sp/Su Chinook = 122,000+



## Hydrosystem Loss

- Construction/Operations
- 48% loss
- Project Area goals
- $122,000 * 0.48 = 58,700$



## Harvest/Habitat Loss

- Habitat (spawning)
- Harvest
  - 4:1 Chinook
  - $58,700 * 4 = 234,800$

Spring Chinook Total Adults =  $58,700 + 234,800 = 293,500$



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# History

Species	Project Area Goals	Harvest/Habitat Goals	Total Production Goals
Fall Chinook	18,300	73,200	91,500
Spring/Summer Chinook	58,700	234,800	293,500
Steelhead	55,100	110,200	165,300
Rainbow Trout	86,000 pounds stocked		

- Rainbow trout are to compensate losses of riverine fishing access



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# Implementation

1975 Goals	Fall Chinook	Spring Chinook	Steelhead
Adults	18,300	58,700	55,100
SAR	0.20	0.87	0.50
Smolts	9,160,000	6,750,000	11,000,000
Fish/lb	90	15	8

2022	Fall Chinook	Spring Chinook	Steelhead
Adult Goal	18,300	58,700	55,100
SAR (BY07-20)	0.77	0.42	0.93
Smolts	3,050,000	10,500,000	5,500,000
Fish/lb	25	19	4.6



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# Infrastructure

- We've significantly changed the program with existing infrastructure
- Facilities are 40 years old
- \$225M investment into infrastructure over through 2033



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# Implementation Summary

- Program has changed from 11M smolts (1975) at 8 fpp to 5.5M smolts at an average of 4.6 fpp (2024).
- Steelhead overall are in a significant downtrend, but program goals to project area (SAR) and SAS have been achieved in some years.
- Implementation changes
  - Hagerman PRAS
  - Upper Salmon River B-steelhead program changes



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# Funding



Back in  
2020.....



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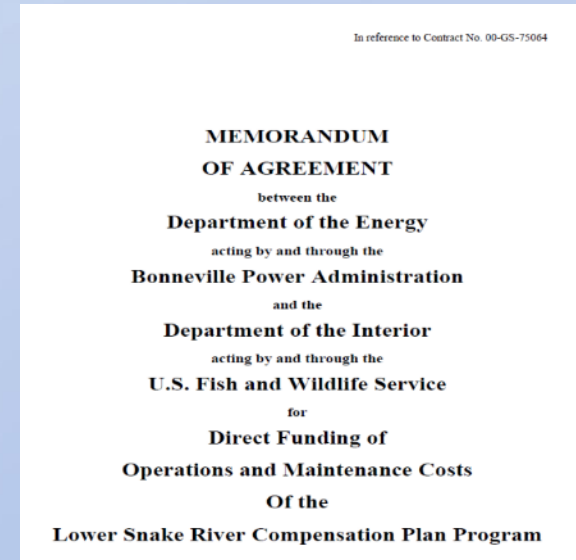
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# MOA with BPA

- Outlines annual funding
- Funding follows BPA Rate Cases
- Cooperative Agreements with NPT, SBT, CTUIR, IDFG, WDFW, PSMFC, and ODFW
- Infrastructure Funding
  - \$25M in RDC – FY2022-2028
  - \$200M in Capital Funding – FY25-FY33



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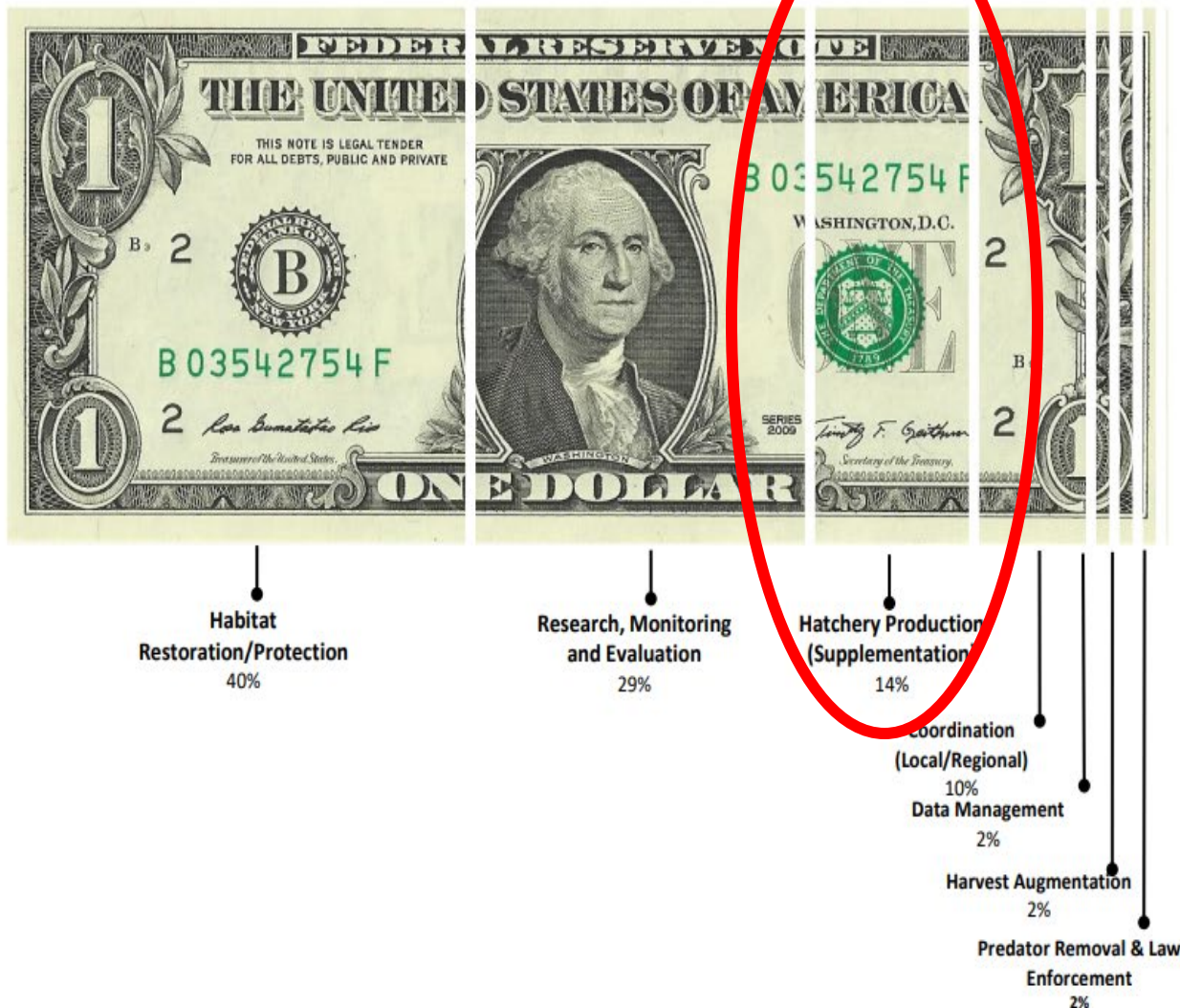


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# Percentage of EXP spending for each program area



5



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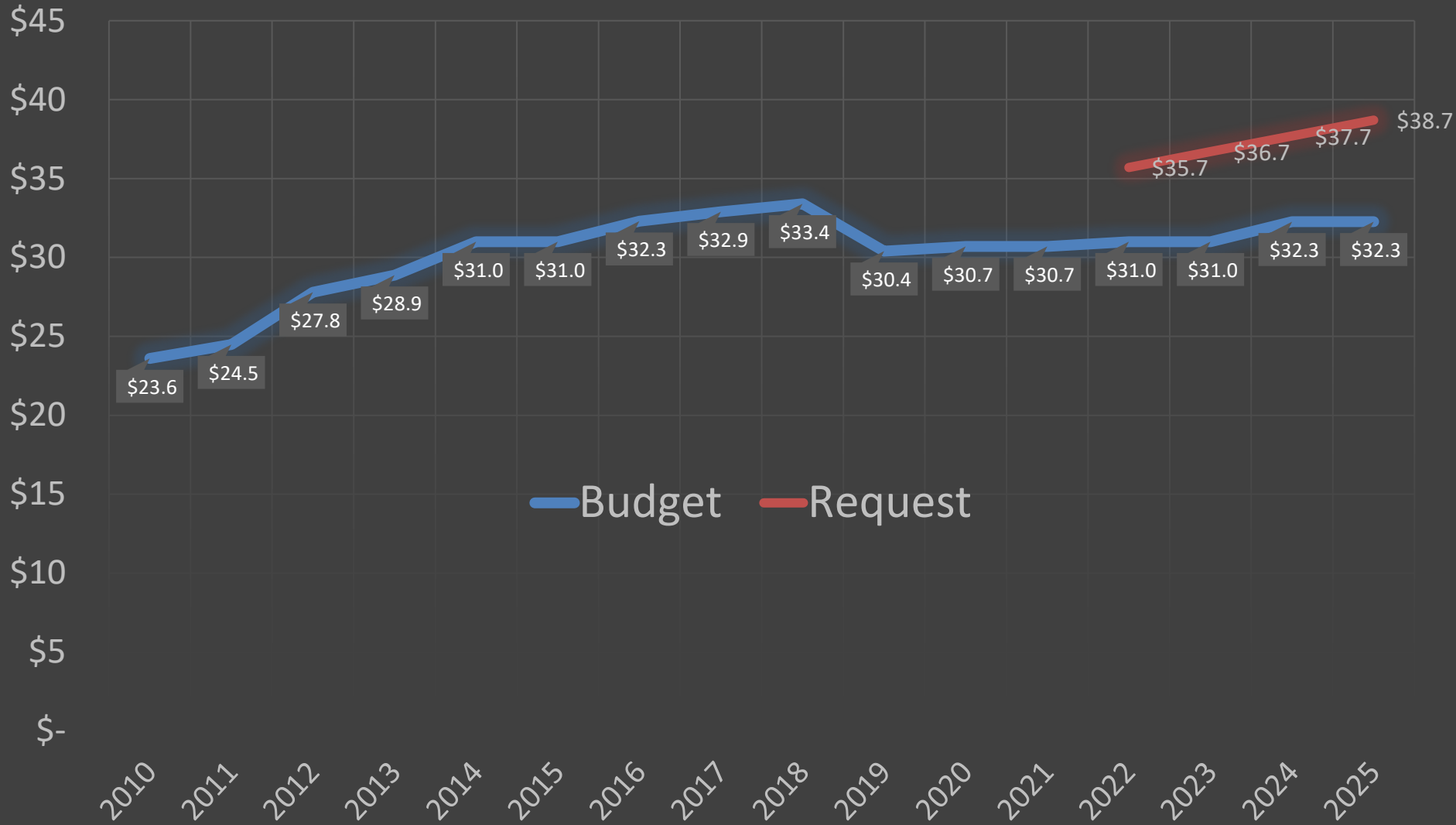
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# LSRCP Funding (Millions)



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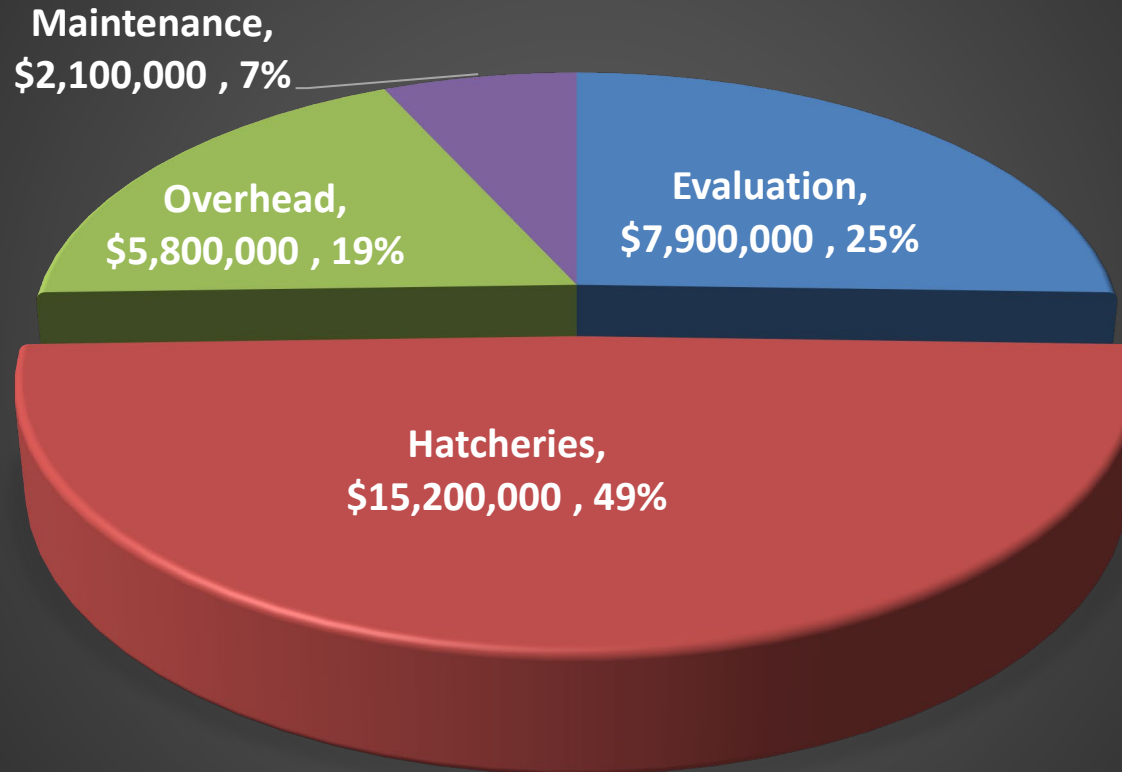
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# LSRCP BUDGET - \$31M



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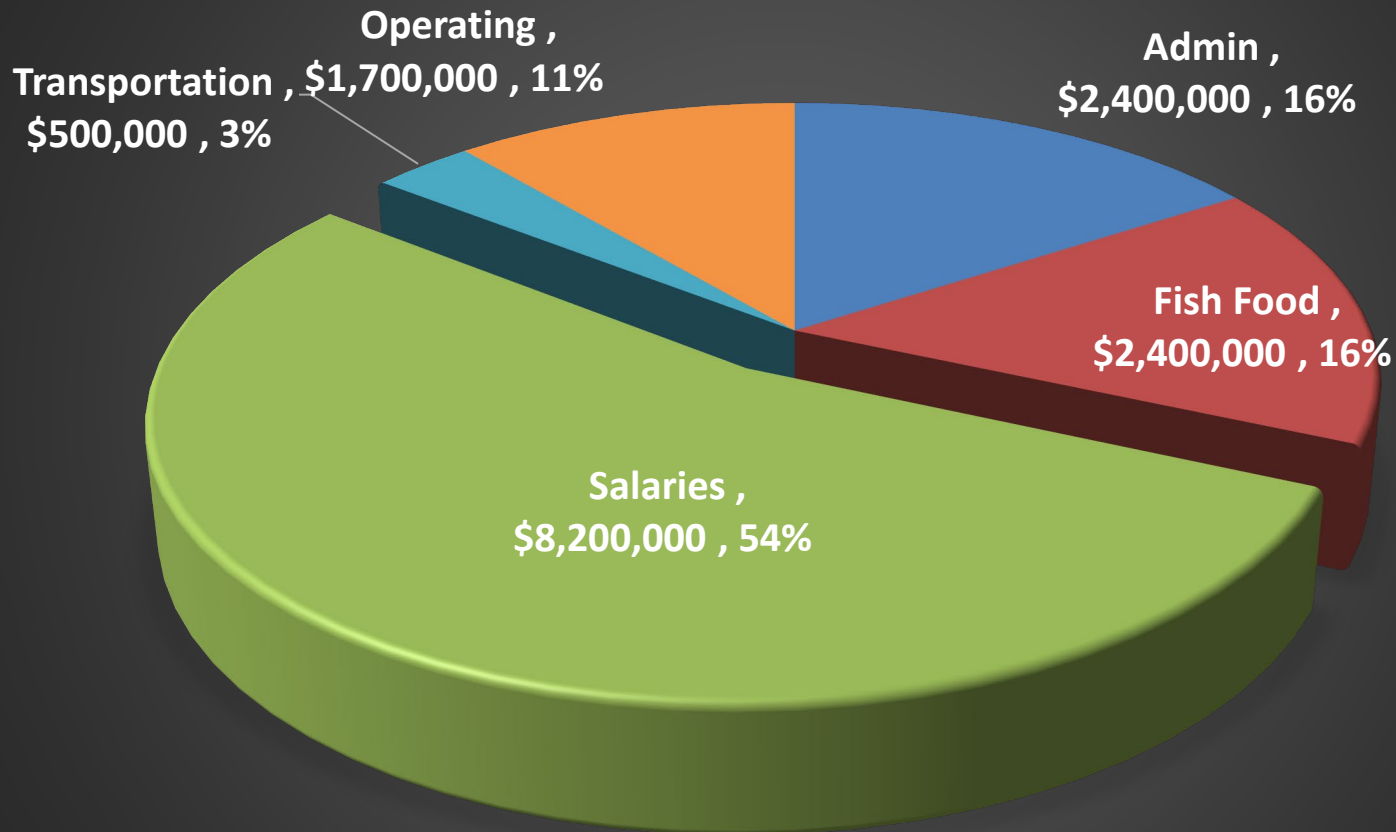
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# LSRCP HATCHERY - \$15.2M



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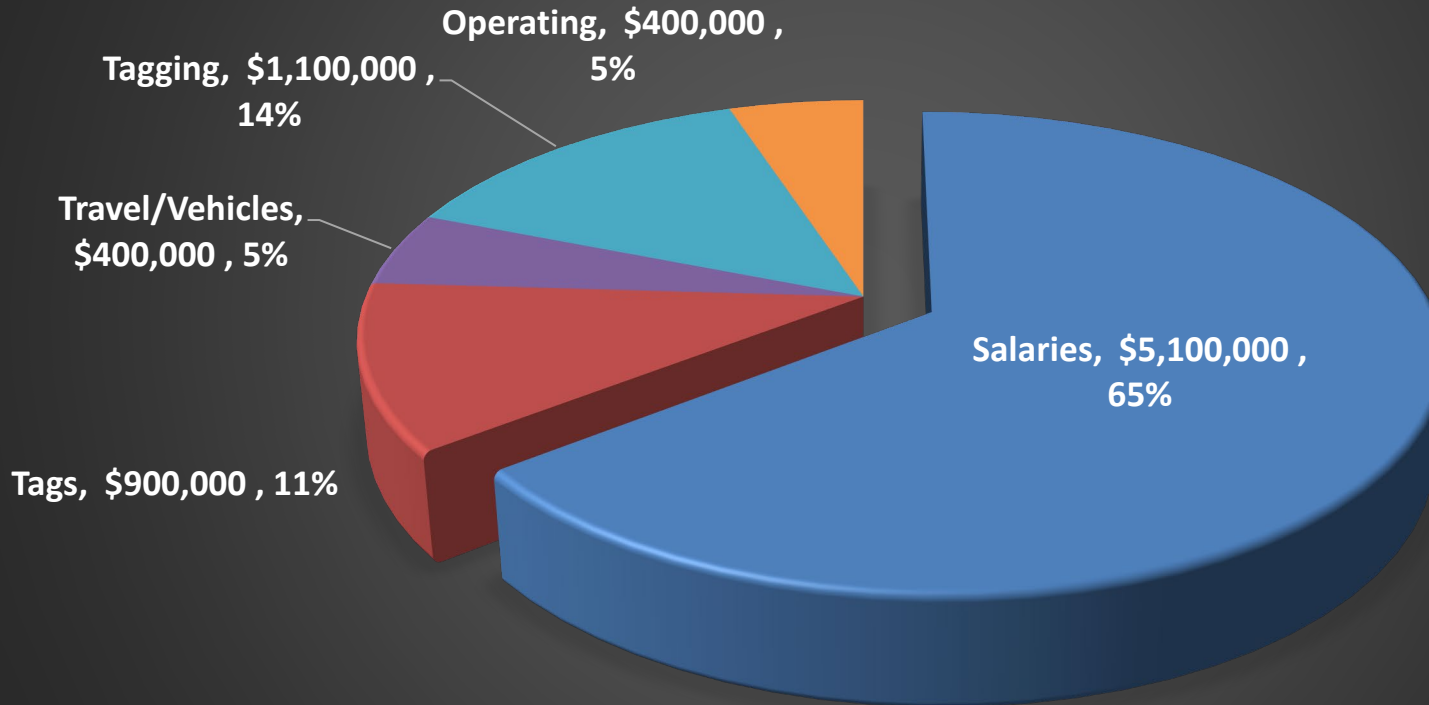
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# LSRCP EVALUATION - \$7.9M



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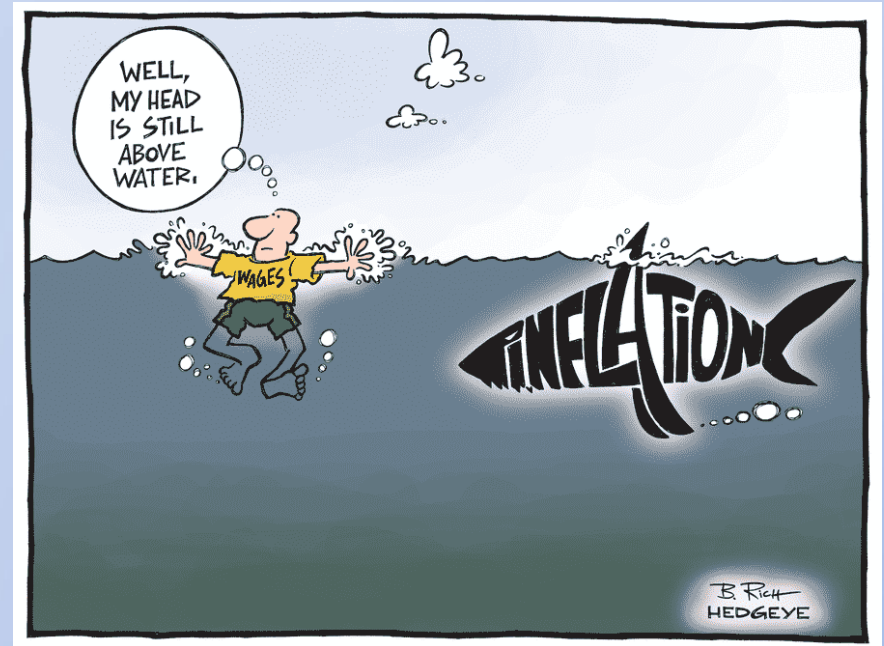
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# Budgets – FY25

- Recent Inflation
  - Fish Food – 18%
  - Labor – 3% to 10%
  - Minimum Wage - \$10.95 to \$15.00/hr
  - Transportation – 17%



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## LSRCP Cost per adult returned in FY25 budge

	<u>STT</u>	<u>STT</u> <u>\$/Adult</u>
Clearwater	7,917	\$ 328
Lyons Ferry	5,787	\$ 503
Hagerman	12,172	\$ 205
Magic Valley	10,177	\$ 196
Irrigon	10,089	\$ 390
<b>Average</b>	<b>46,142</b>	<b>\$ 324</b>



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# Agenda Overview

- Overview of success of program
  - How are we performing against the goals?
  - 2 days
- LSRCP 2035: *The Next Decade*
  - What is our plan for the next 10 years?
  - 1 day



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# Agenda Topics

- Basin Presentations
- Special Topics
  - Hagerman PRAS
  - Reciprocal Study
  - Magic Valley FH rebuild
- Panel discussions about LSRCP 2035



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