

Tom Karier
Chair
Washington

Frank L. Cassidy Jr.
"Larry"
Washington

Jim Kempton
Idaho

W. Bill Booth
Idaho



Joan M. Dukes
Vice-Chair
Oregon

Melinda S. Eden
Oregon

Bruce A. Measure
Montana

Rhonda Whiting
Montana

February 1, 2007

MEMORANDUM

TO: Council Members

FROM: Mark Fritsch, Project Implementation Manager

SUBJECT: Briefing on adult salmon return forecasts

Peter Hassemer of Idaho Fish and Game will present to the Council information and details regarding run status updates, 2007 spring Chinook forecast, and a review of the 2006 Chinook salmon return. Because the information for the presentation continues to be compiled, Mr. Hassemer will distribute briefing material at the Council meeting.¹

w:\mf\ww\harvestcounting\2007harvest\020107harretpacket.doc

¹ If Council staff receives the presentation prior to the Council meeting it will also be distributed via email.

Status of the Resource

Spring Chinook Salmon

presented to:

Northwest Power and Conservation Council

14 February, 2007

Presented by:

Peter Hassemer

Idaho Dept. of Fish and Game



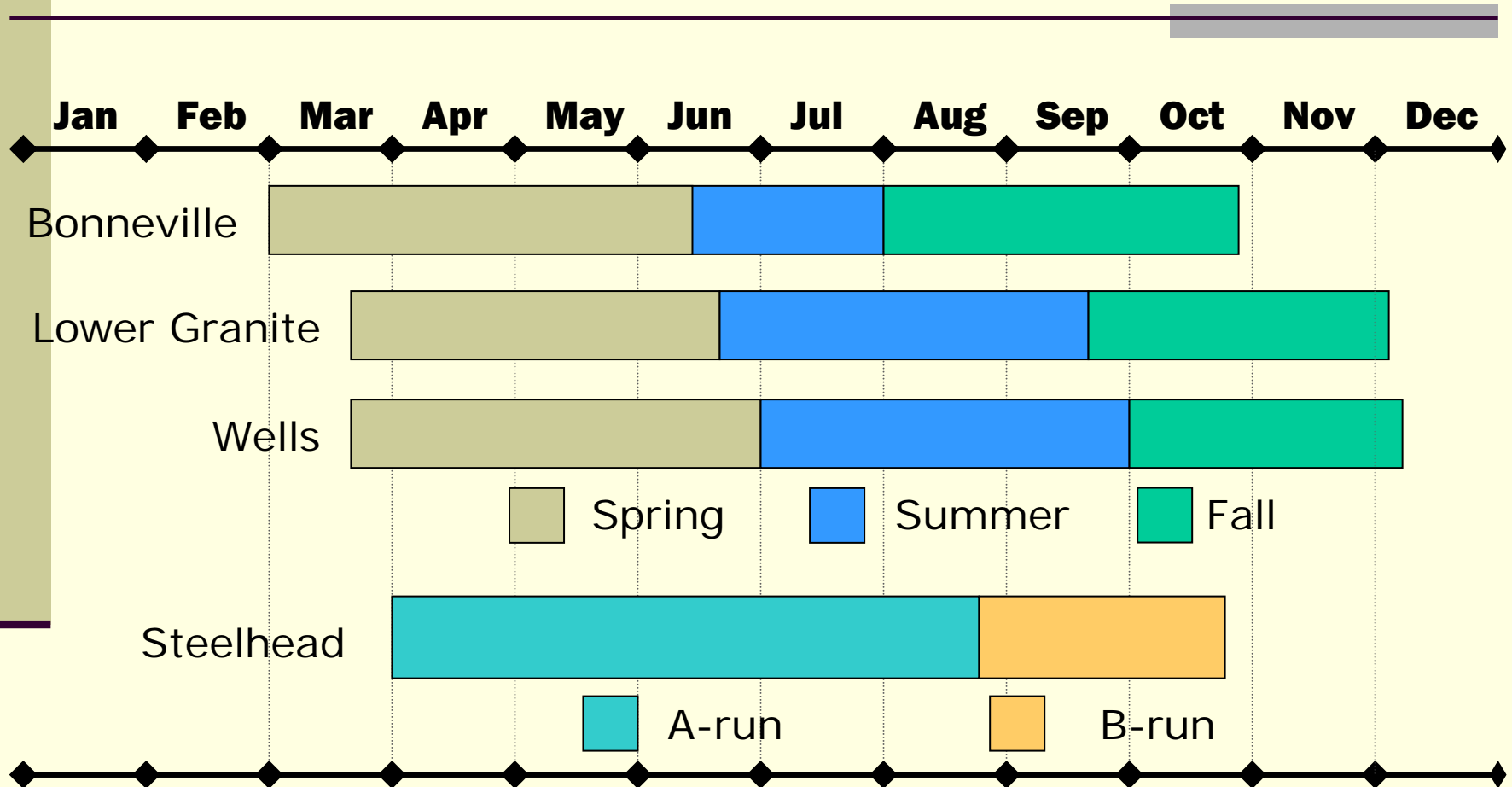
Status of the Resource

Spring Chinook Salmon

Objectives

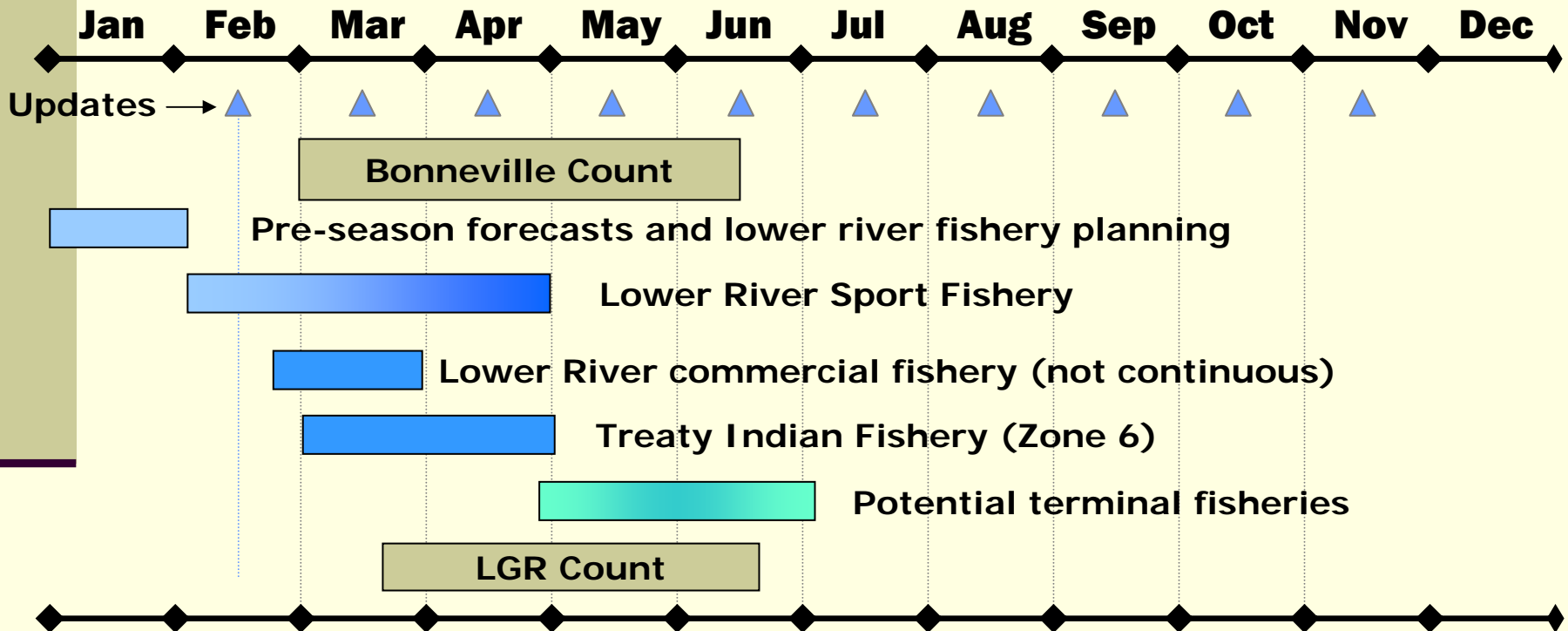
- 1. Review the 2006 Spring Chinook Salmon return and available information in the context of regional objectives.**
- 2. Identify topics for future presentation and discussion.**
- 3. Present 2007 Spring Chinook Salmon forecasts.**

Chinook Salmon Counting Periods

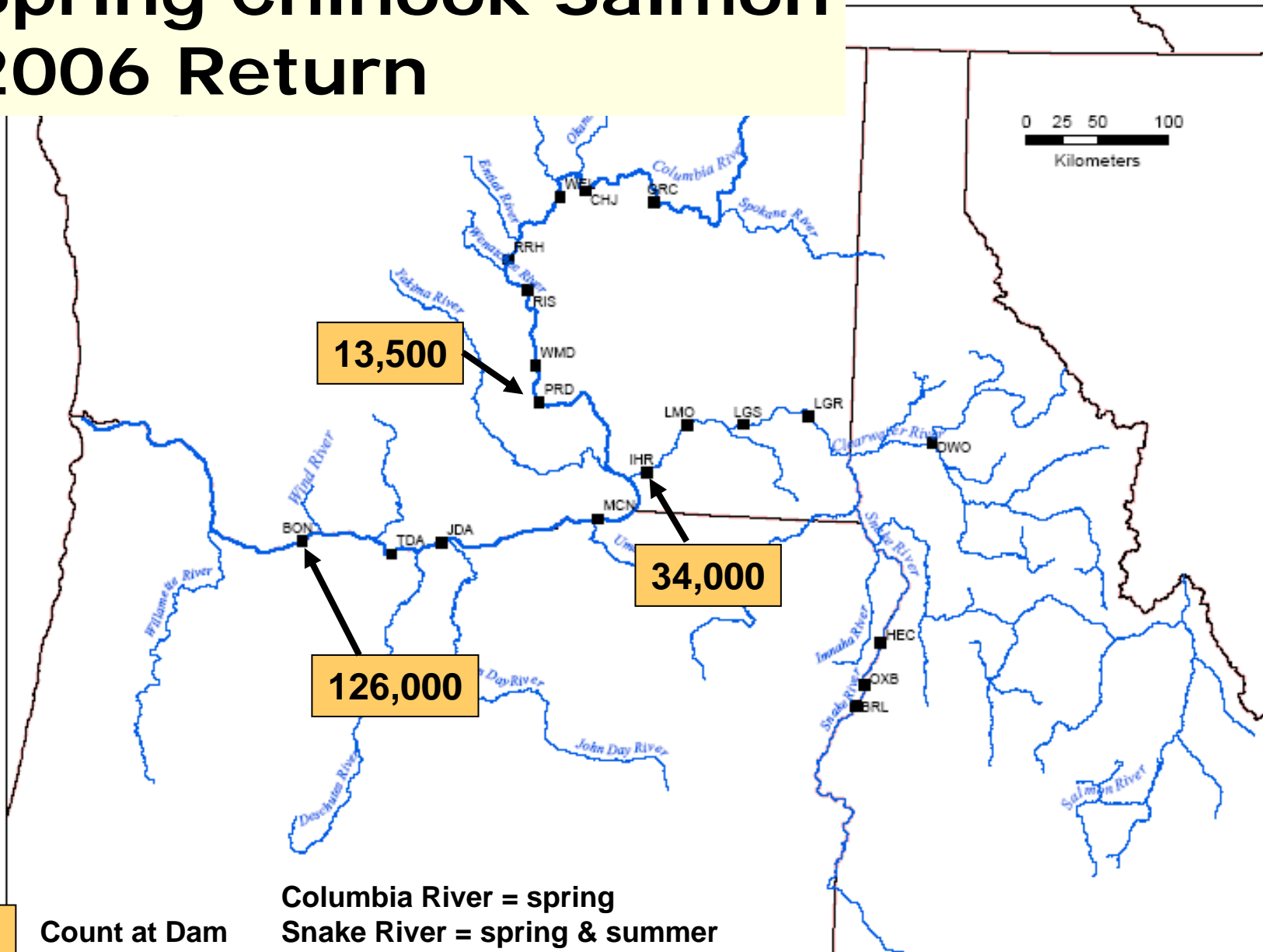


Upriver Spring Chinook Salmon

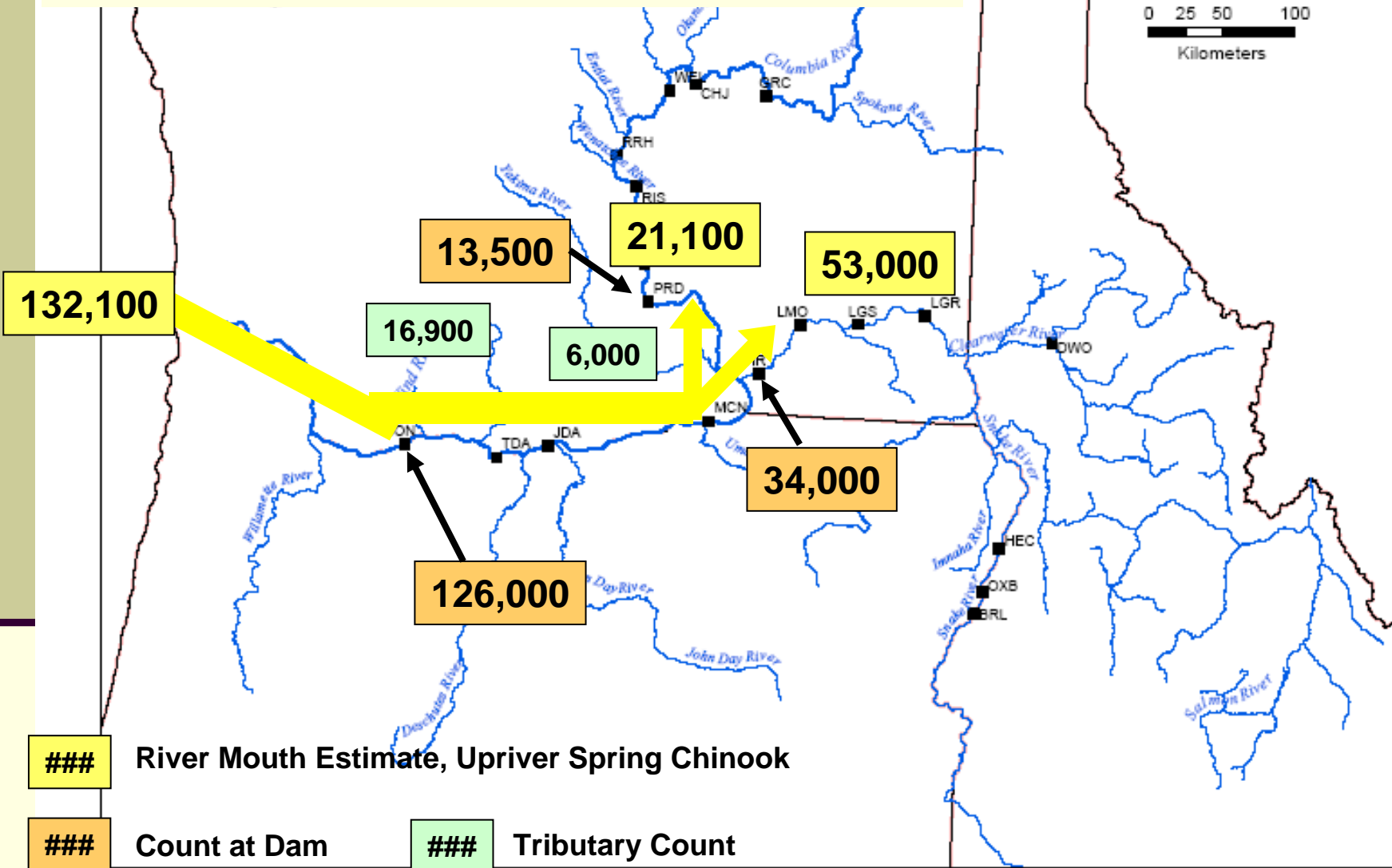
Management Periods



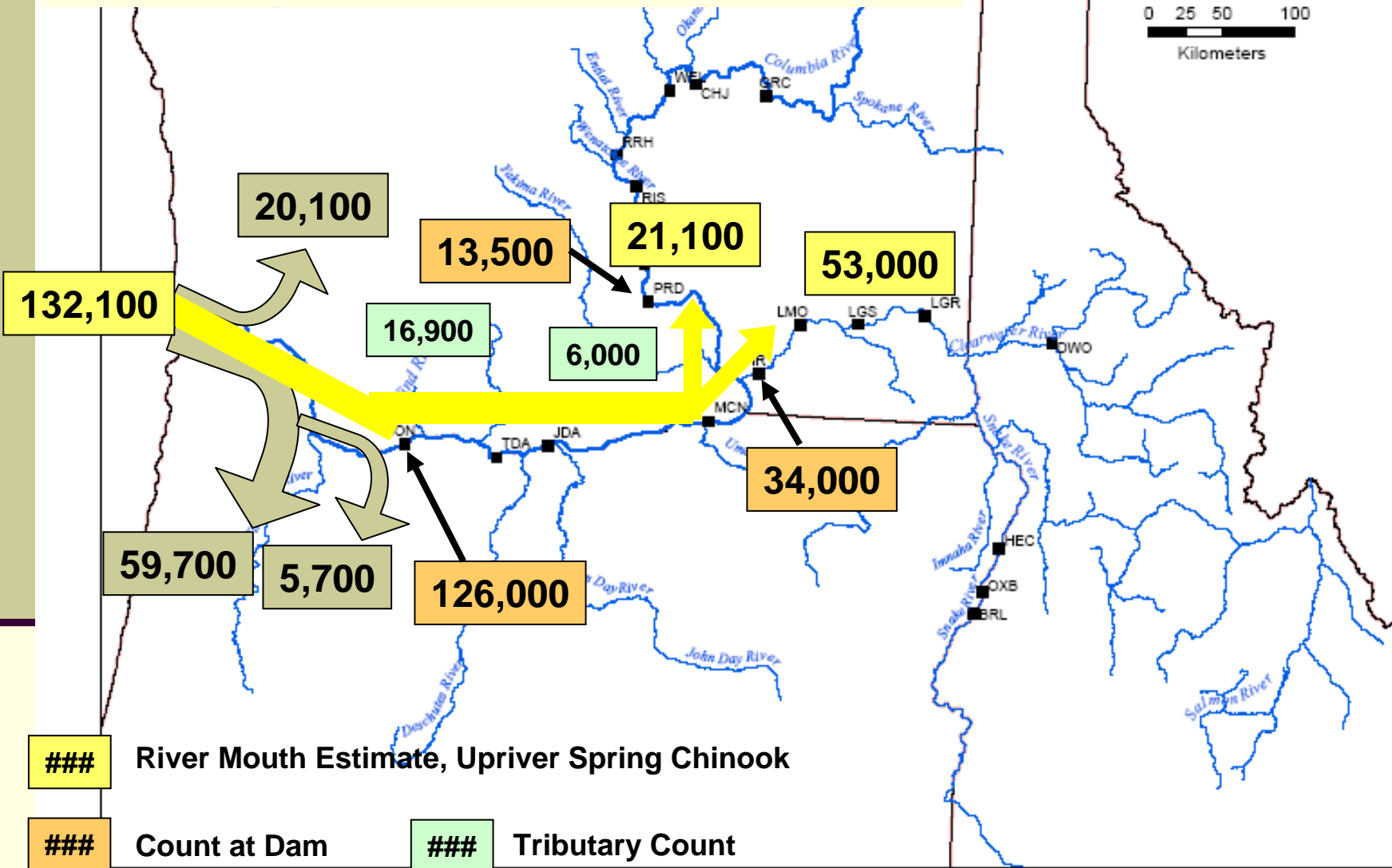
Spring Chinook Salmon 2006 Return



Spring Chinook Salmon 2006 Return



Spring Chinook Salmon 2006 Return



Spring Chinook Salmon - 2006

How many? Where did they go?

River mouth to Bonneville Dam

217,600 spring Chinook salmon enter Columbia River at mouth

**20,100 estimated destined for Cowlitz, Kalama and
Lewis rivers**

59,700 estimated destined to Willamette River

5,700 estimated destined for Sandy River

132,100 estimated destined for above Bonneville Dam

53,000 destined for Snake River (sp & su)

21,100 destined for Upper Columbia River (sp)

6,000 harvested below Bonneville Dam

Spring Chinook Salmon - 2006

How many? Where did they go?

Upriver Spring Chinook Salmon **(originate above Bonneville Dam)**

126,000 Spring Chinook Salmon counted at Bonneville Dam

9,000 harvested between Bonneville and McNary

16,900 enter Wind, L. White Salmon & Klickitat rivers

6,000 enter Yakima River

**### Hood, Deschutes, John Day, Umatilla, Walla
Walla rivers**

Passage loss

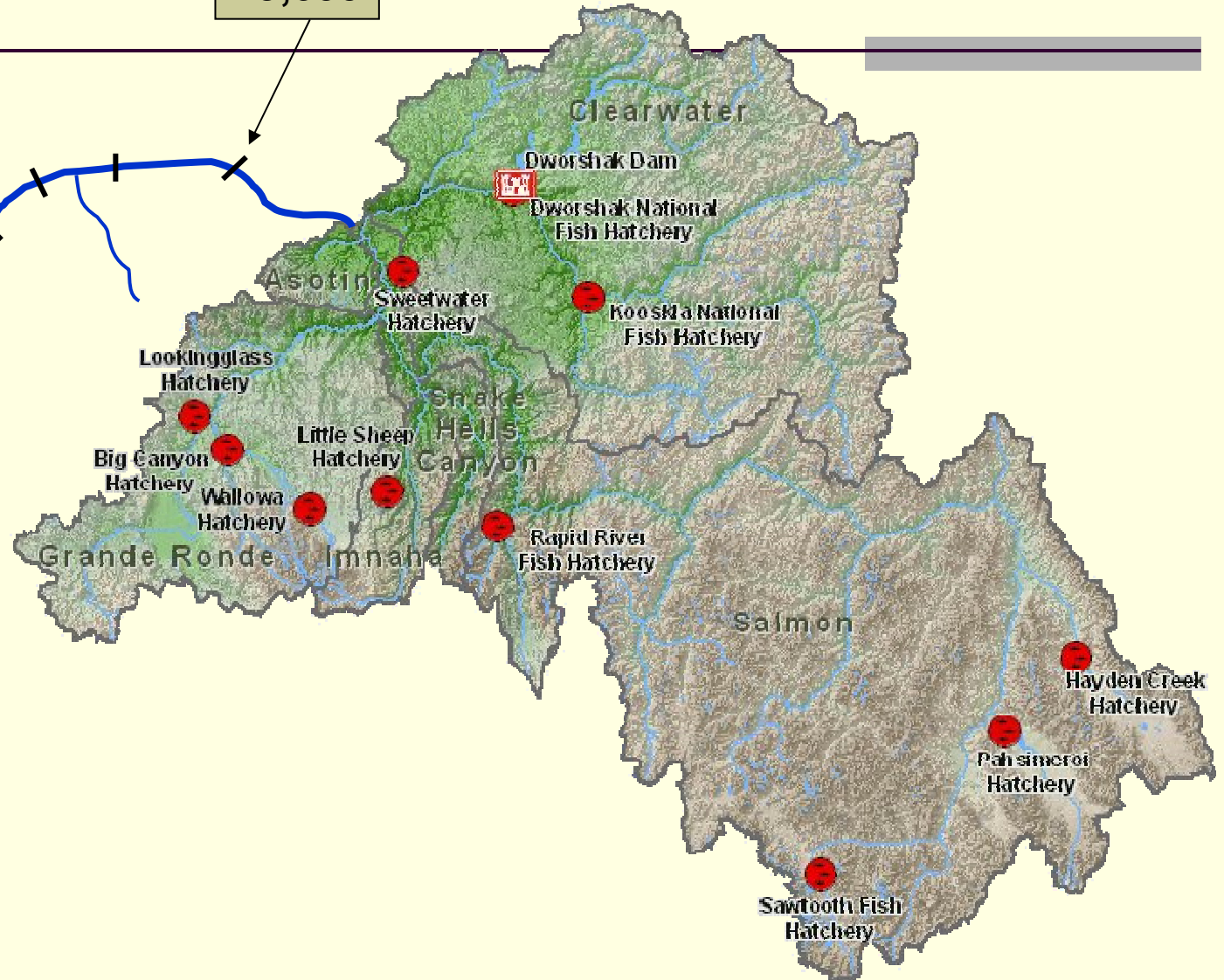
34,000 enter Snake River

13,500 counted at Priest Rapids Dam

Snake River Spring/Summer Chinook Salmon 2006 Return

34,000

29,600



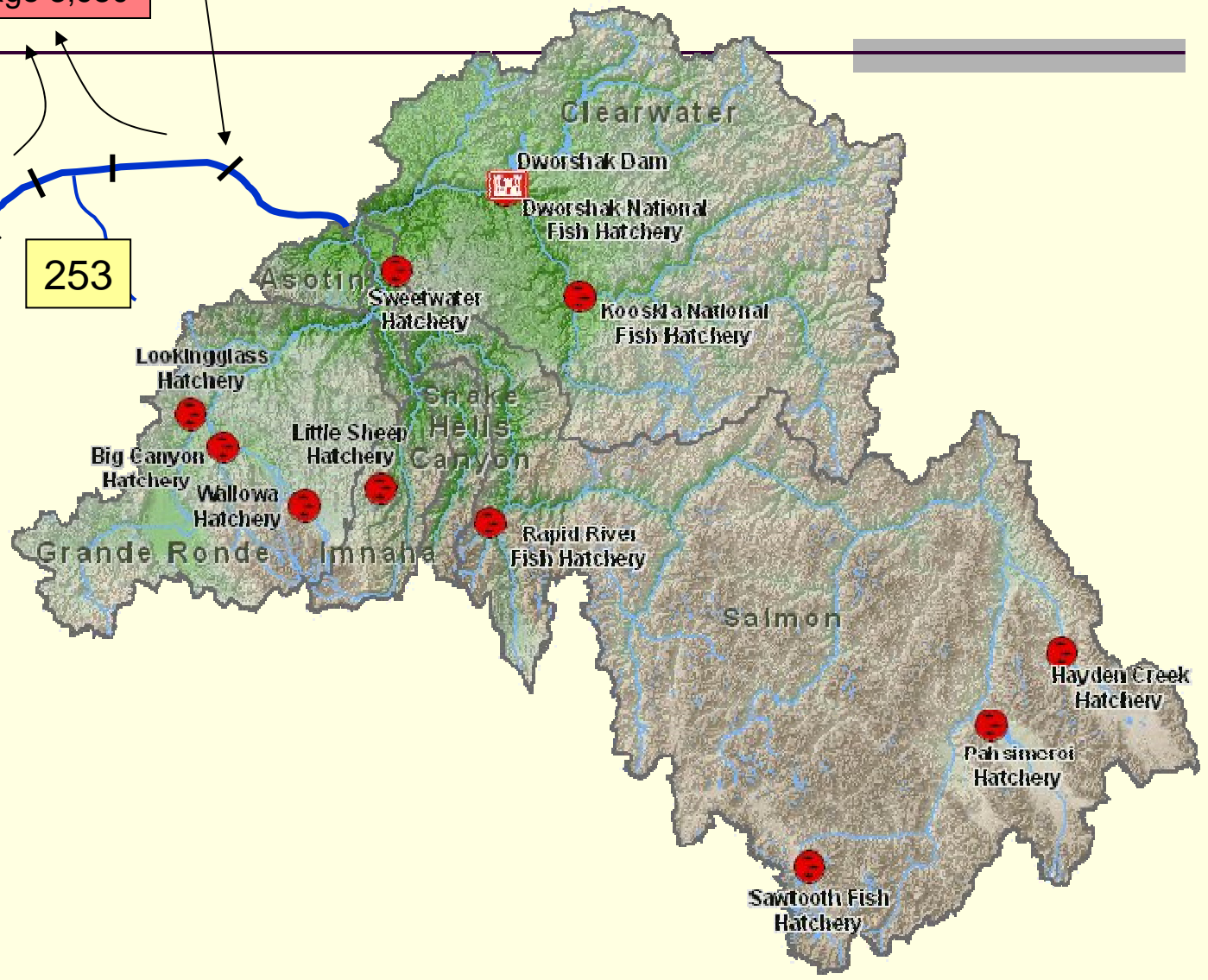
Snake River Spring Summer Chinook Salmon

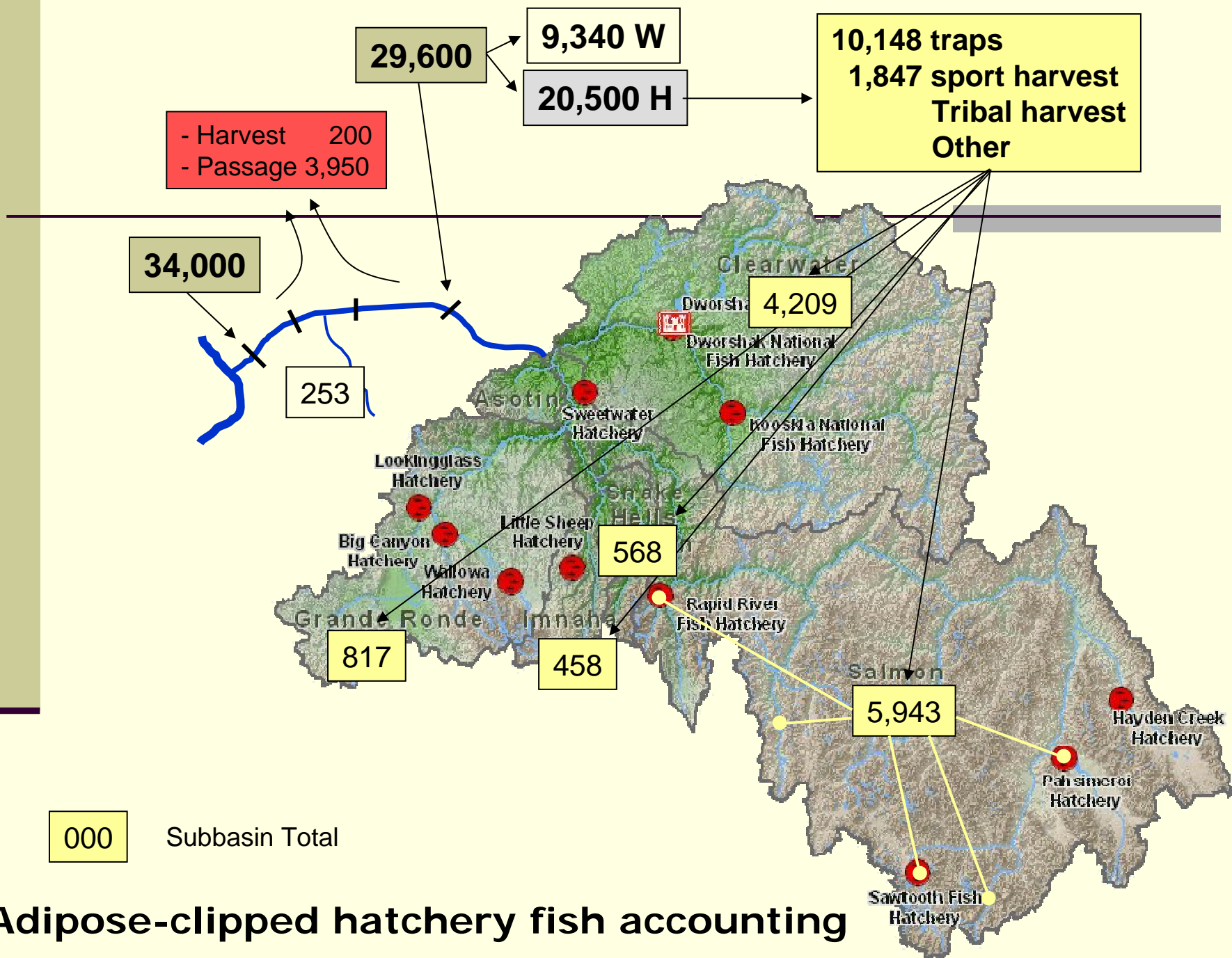
- Harvest 200
- Passage 3,950

29,600 → 9,340 W
→ 20,500 H

34,000

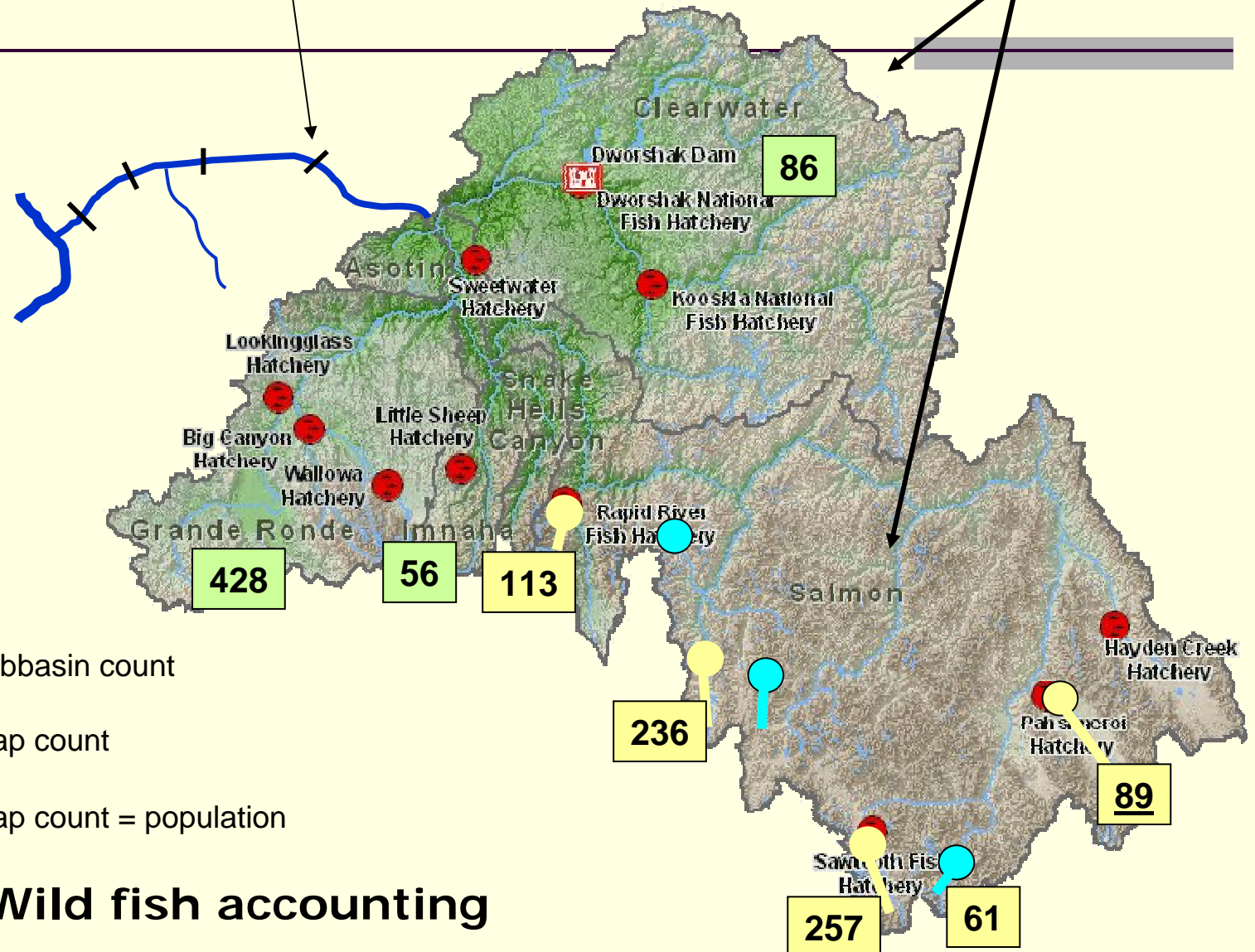
253





29,600
 9,340 W
 20,500 H

1,326 accounted for
 by counting at traps.



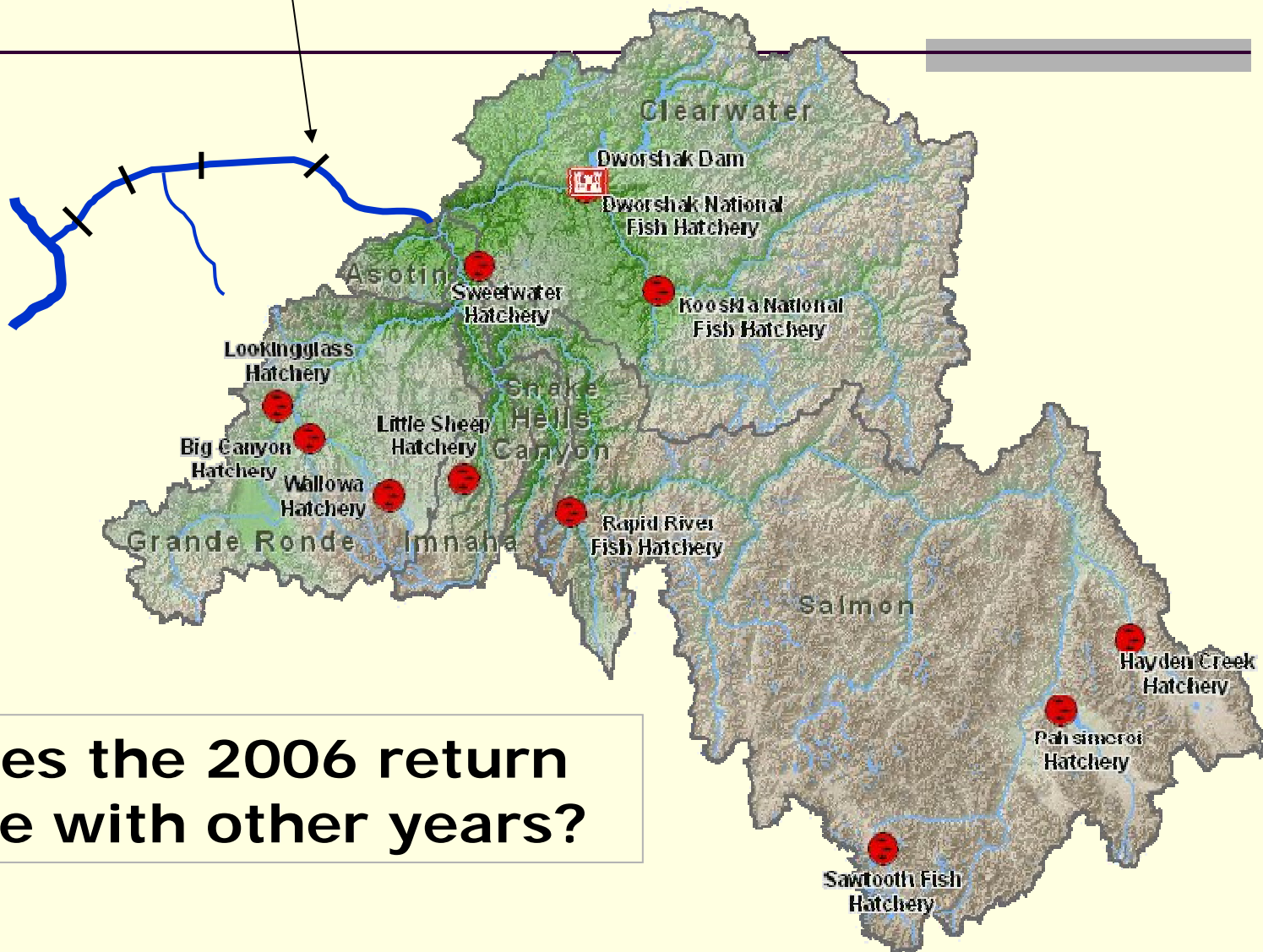
- 000 Subbasin count
- 000 Trap count
- 000 Trap count = population

Wild fish accounting

29,600

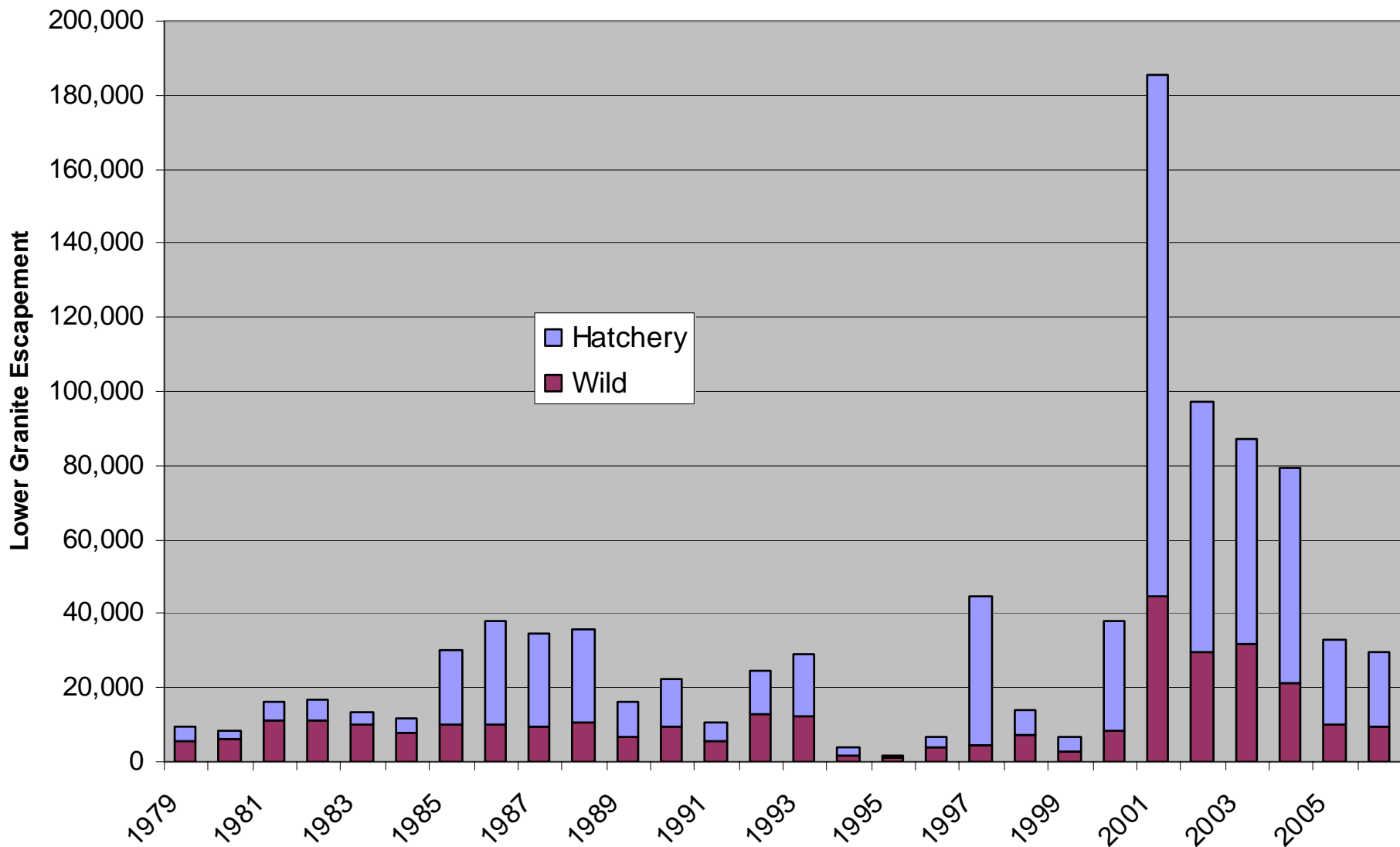
9,340 W

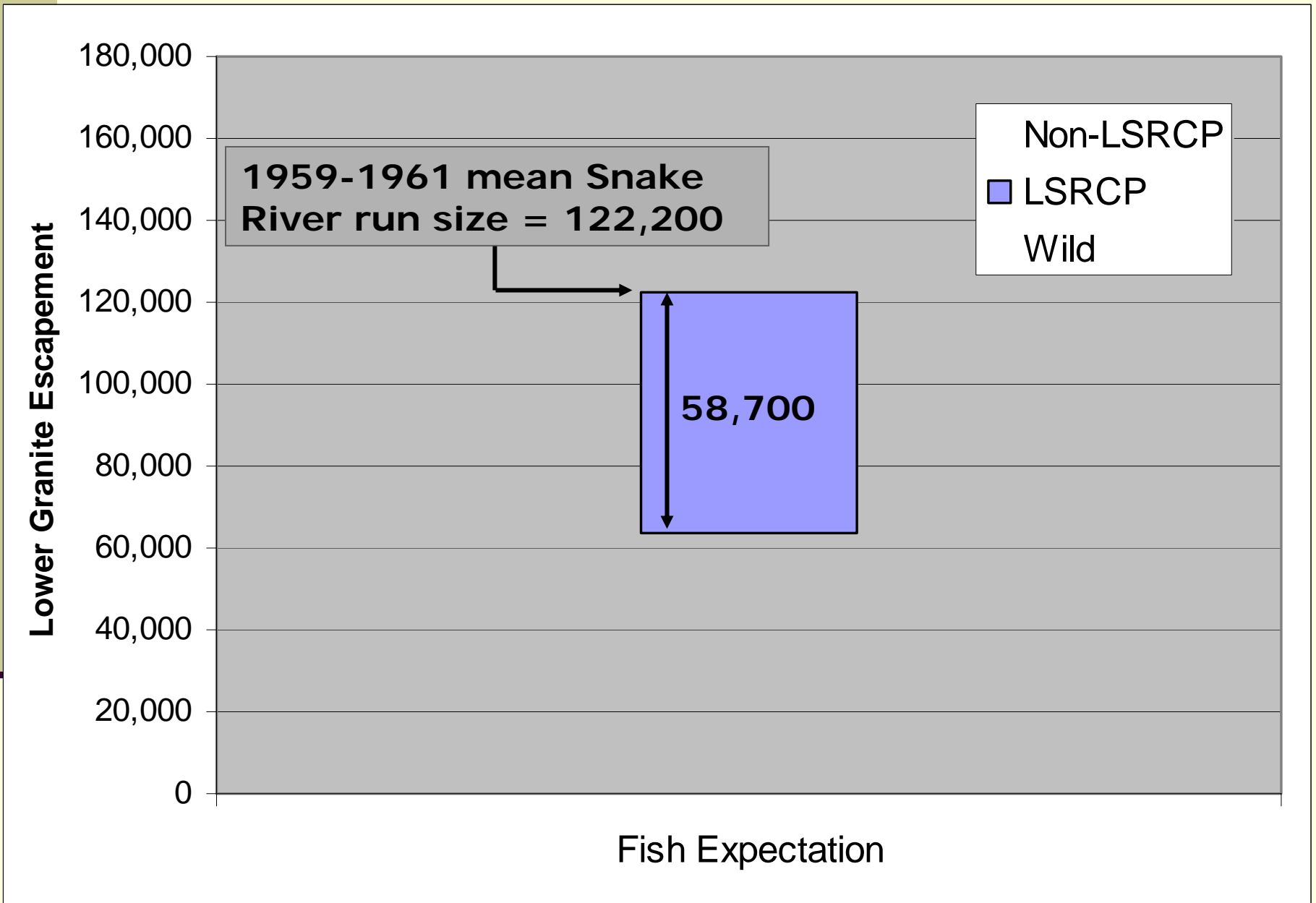
20,500 H

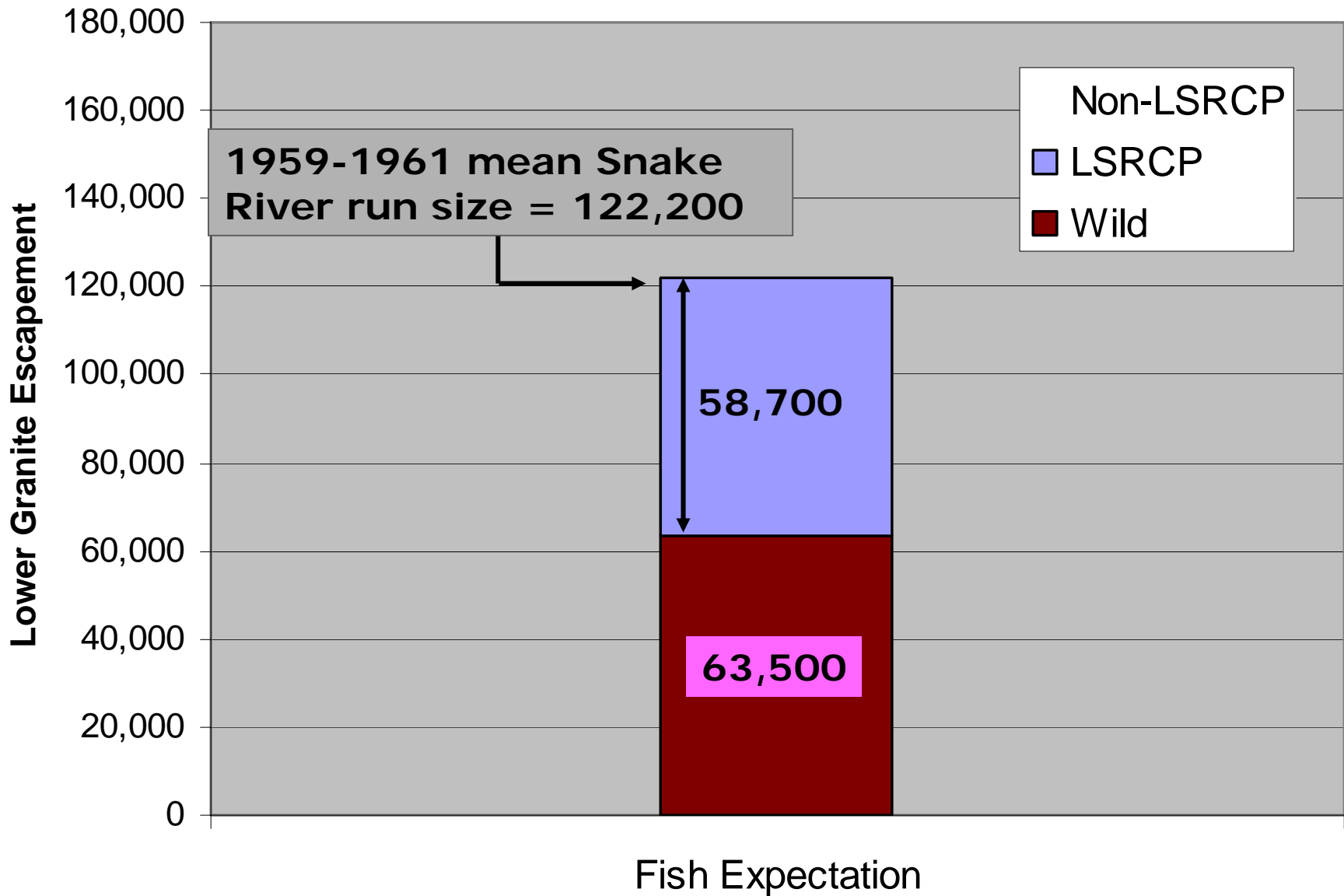


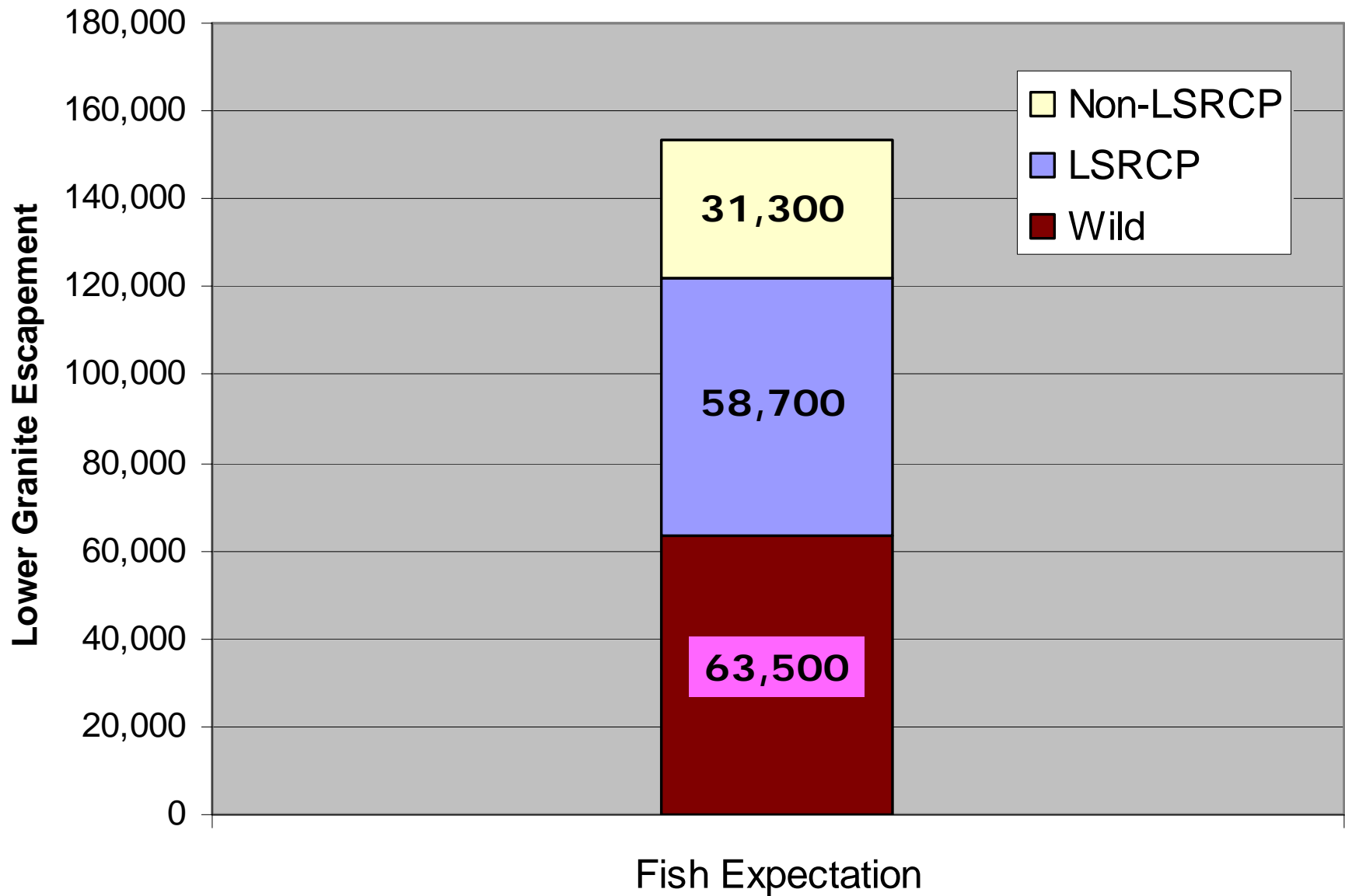
How does the 2006 return compare with other years?

Snake River Spring/Summer Chinook Salmon

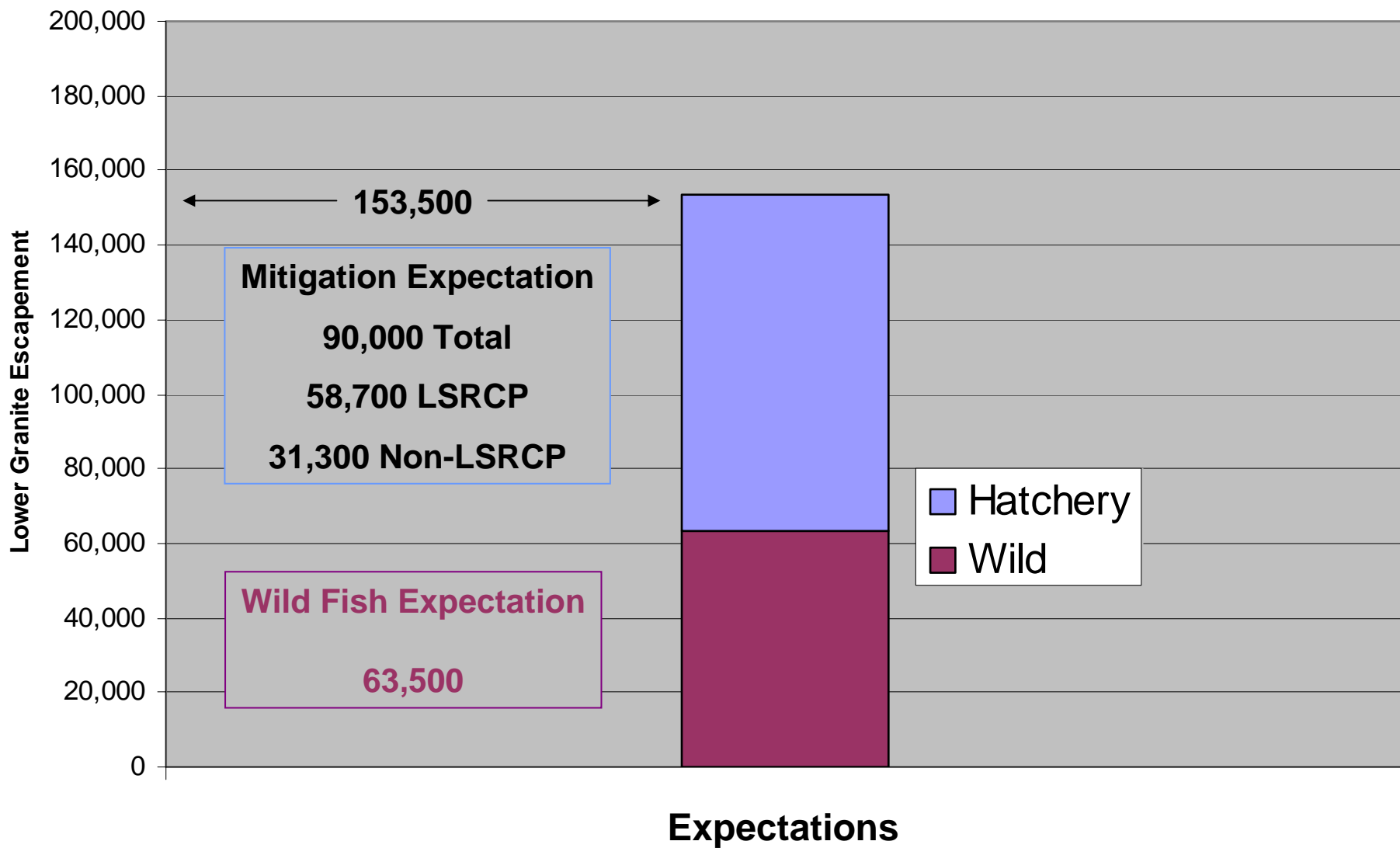








Snake River Spring/Summer Chinook Salmon

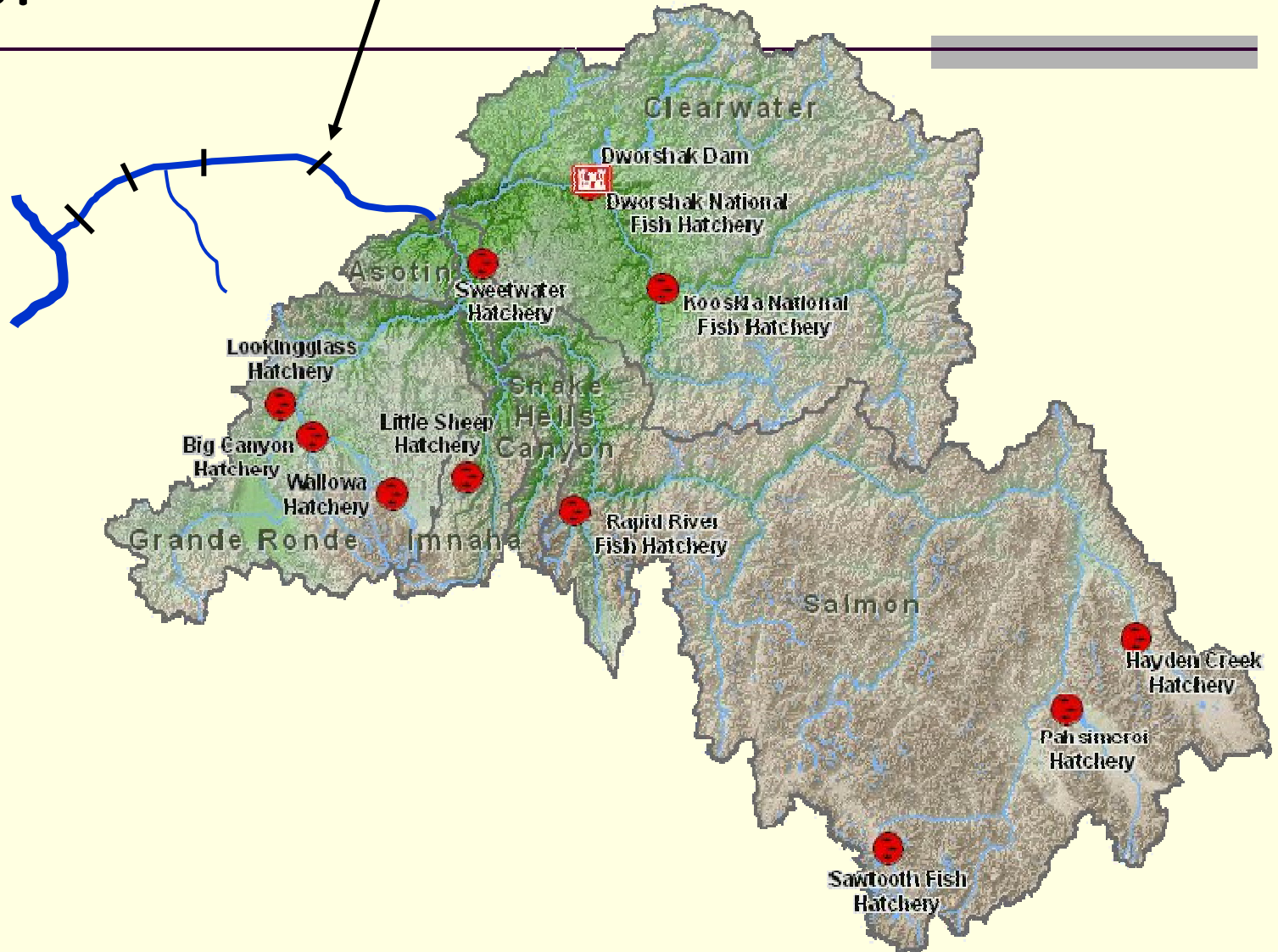


Expectations?
Targets?
Goals?

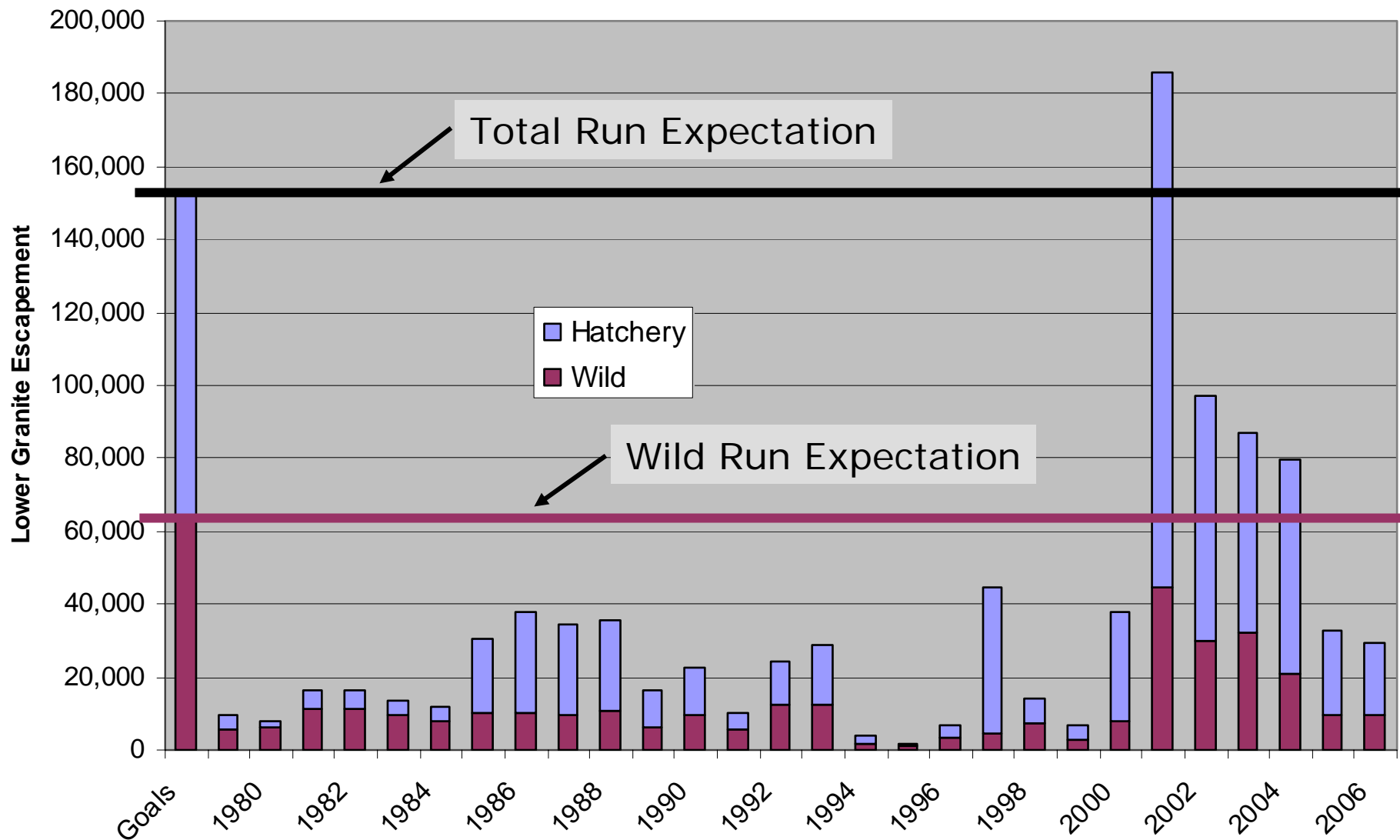
153,500

63,500 W

90,000 H



Snake River Spring/Summer Chinook Salmon

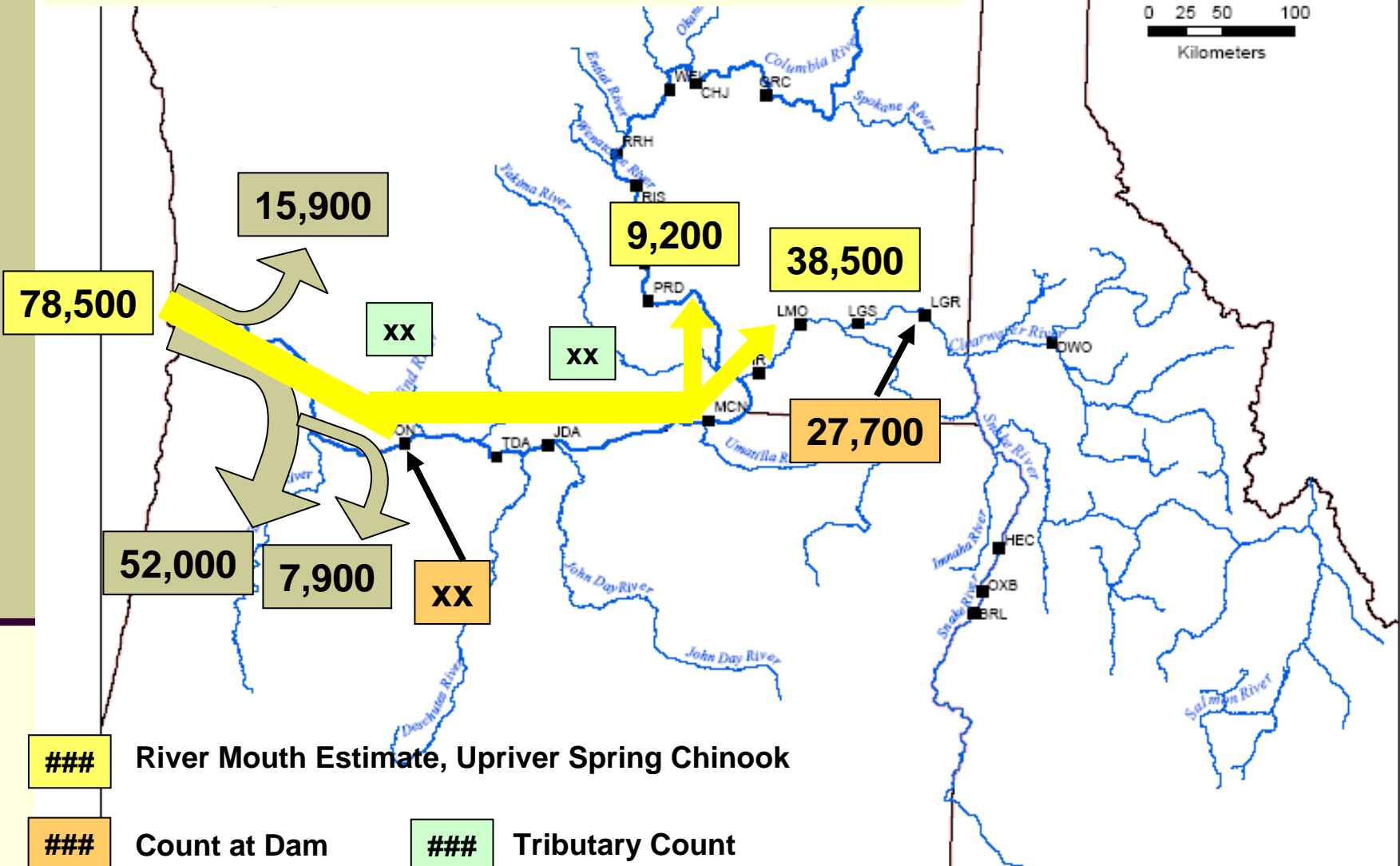


Spring Chinook Salmon 2007 Forecasts

Columbia River Salmon and Steelhead - 2007 Forecasts and 2006 Returns

Run	2007 Forecast		2006	
			Preseason Forecast	Actual Return
<u>Spring Chinook</u>				
Willamette	52,000	Less than 2006 return - similar to late 1990's	46,500	59,700
Sandy	7,900	Greater than 2006 return - similar to 5-yr ave.	8,200	5,700
Cowlitz	6,400	Less than 2006 and recent 5-yr ave. returns	8,700	7,000
Kalama	4,000	Less than 2006 and recent 5-yr ave. returns	2,100	5,600
Lewis	5,500	Less than 2006 and recent 5-yr ave. returns	4,400	7,500
Select Areas	9,700	Greater than 2006 return - similar to 5-yr ave.	3,100	7,200
-				
<u>Upriver Spring (Includes Snake River Summer Chinook)</u>				
Total Upriver Run	78,500	Less than 2006, greater than ave. runs of 1990's	88,400	132,100
Snake River Wild	13,100	Less than 2006 return, less than recent 5-yr ave.	14,600	16,700
Upper Columbia Wild	1,200	Less than 2006 return, less than recent 5-yr ave.	1,600	2,800

Spring Chinook Salmon 2007 Forecasts

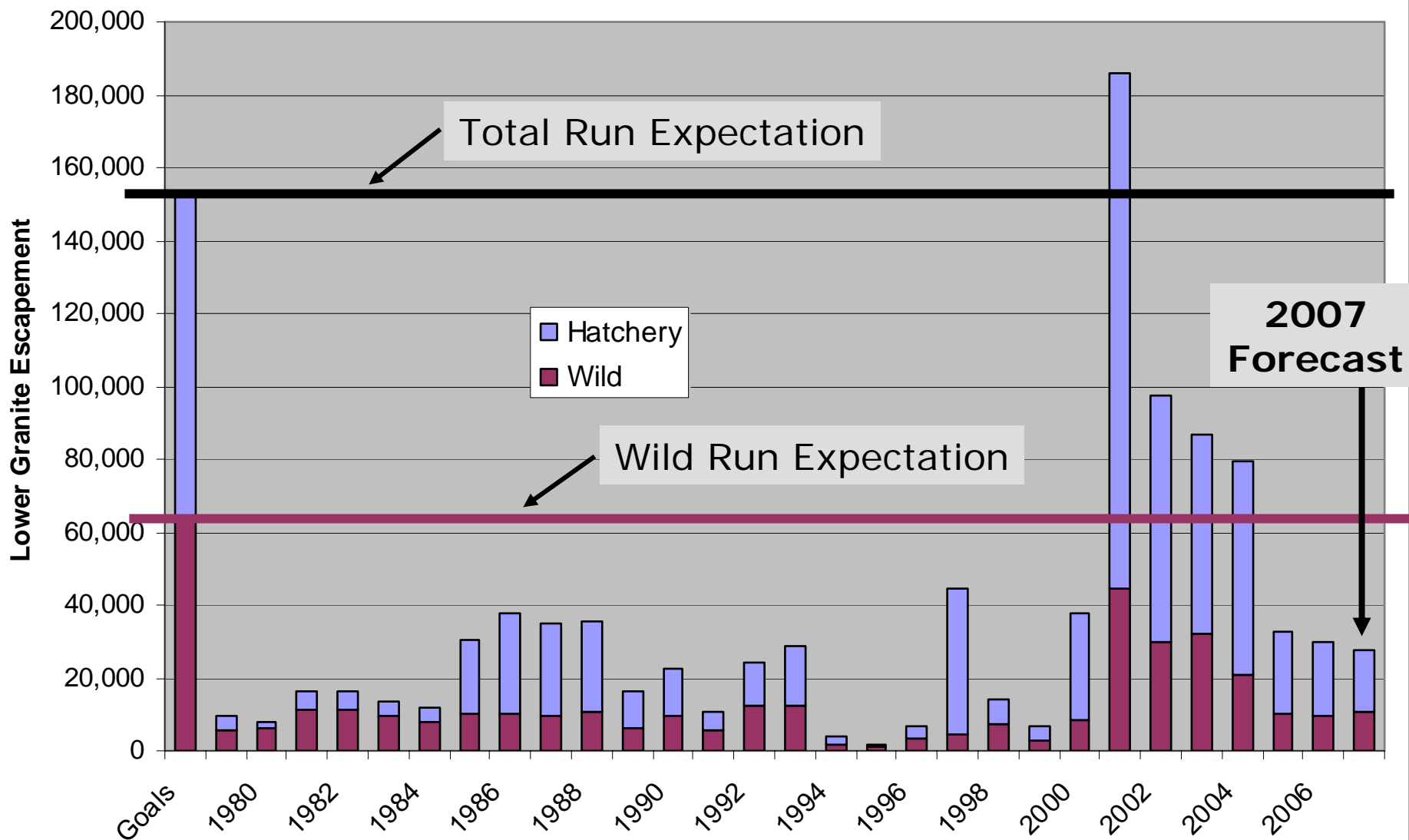


Spring Chinook Salmon

2007 Forecasts

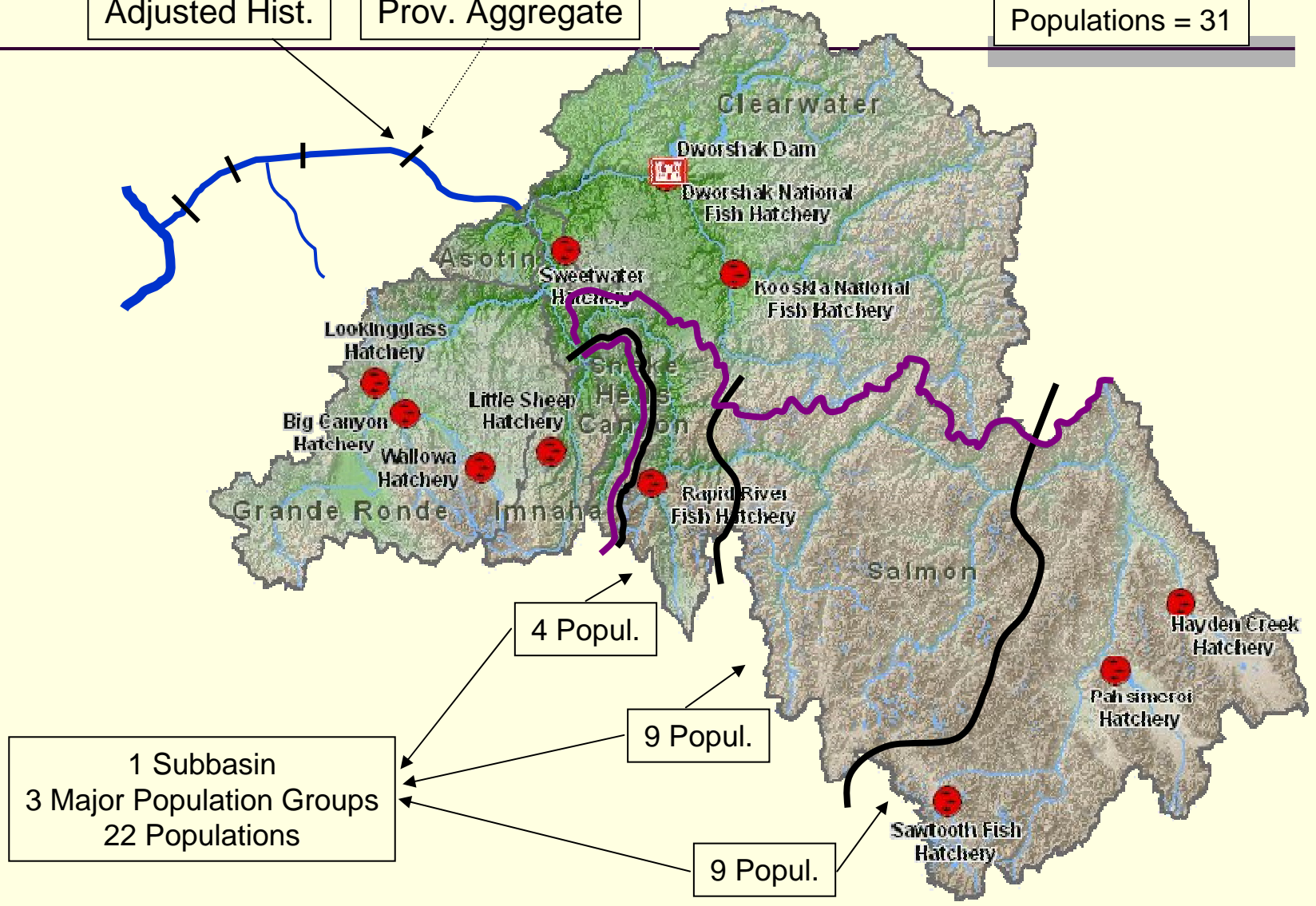
Group		2006 Forecast		2006 Return		2007 Forecast	
		River Mouth	LWG	River Mouth	LWG	River Mouth	LWG
Snake River	Wild/Natural	14,600	11,017	16,700	8,159	13,100	10,900
	Hatchery	31,600	22,872	36,300	24,505	25,400	16,800
	Total	46,200	33,889	53,000	32,664	38,500	27,700
Upper Columbia	Wild/Natural	1,600		2,800		1,200	
	Hatchery	11,000		18,300		8,000	
	Total	12,600		21,100		9,200	

Snake River Spring/Summer Chinook Salmon



Snake River Spring/Summer Chinook Salmon Opportunities to Establish Wild Fish Goals

63,000 +/- Adjusted Hist. ??,000 Prov. Aggregate ← Provinces = 2
 Subbasins = 6
 Populations = 31



4 Popul.

9 Popul.

1 Subbasin
 3 Major Population Groups
 22 Populations

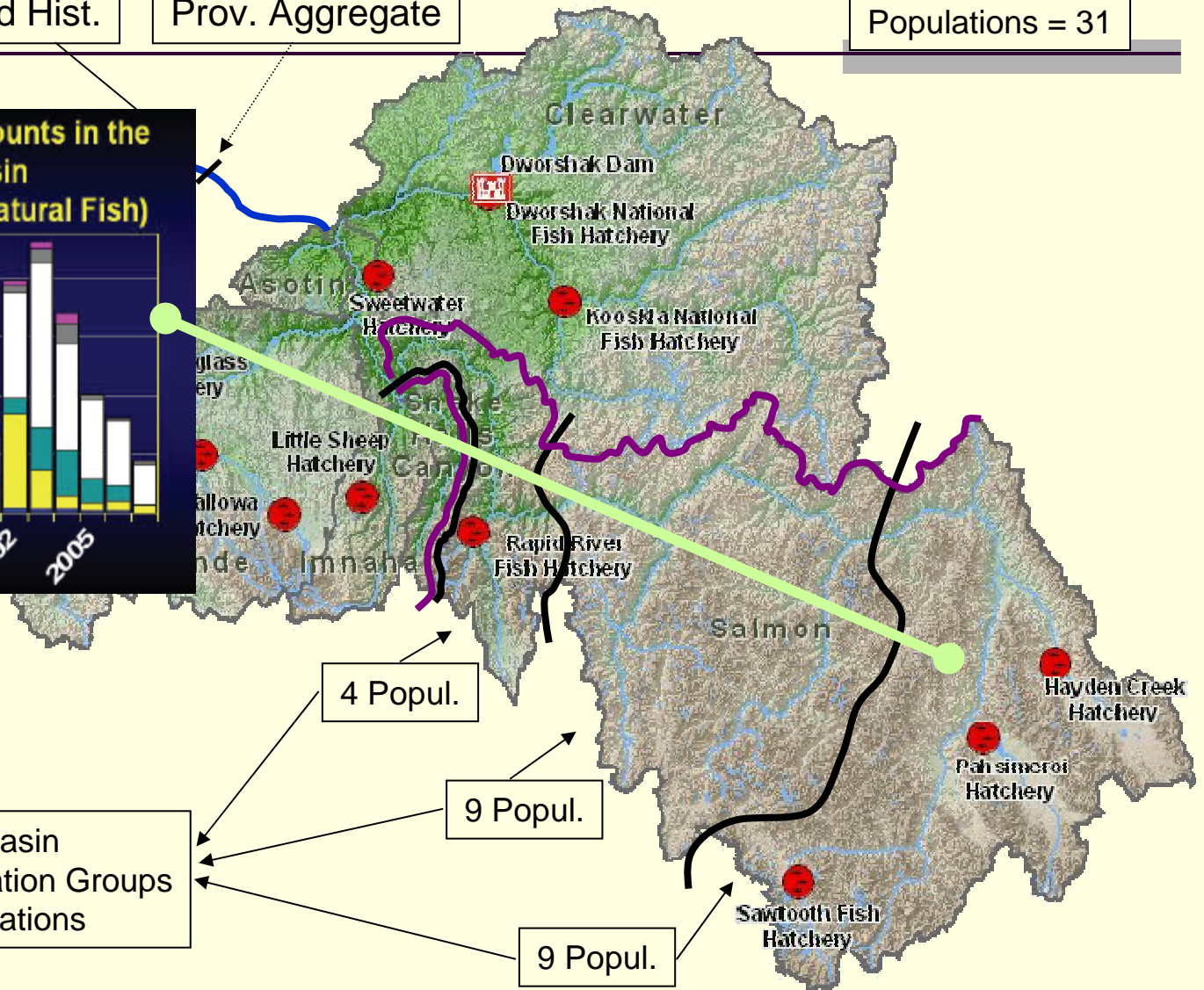
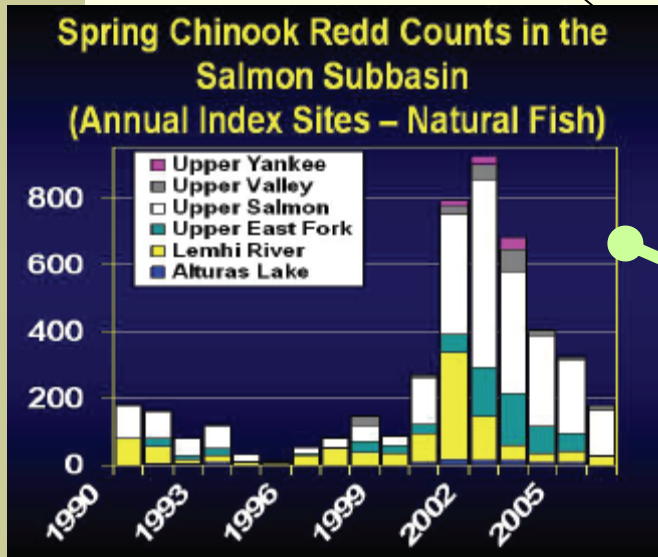
9 Popul.

Snake River Spring/Summer Chinook Salmon Opportunities to Establish Wild Fish Goals

63,000
Adjusted Hist.

??,000
Prov. Aggregate

Provinces = 2
Subbasins = 6
Populations = 31



4 Popul.

9 Popul.

1 Subbasin
3 Major Population Groups
22 Populations

9 Popul.

Next Steps.....

