



FISH PASSAGE CENTER

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MEMORANDUM

TO: FPAC

Margaret Filardo

FROM: Margaret Filardo

DATE: April 10, 2007

RE: Transportation Research Fish Passage Center

We just got off an FPAC phone meeting where we spoke with Doug Marsh, NOAA Fisheries, to try and review the numbers of fish collected, handled and transported for research purposes prior to the initiation of transport this year. I agreed to summarize the numbers for distribution to FPAC members.

For the transportation indexing study, the overall goal of the researchers was to transport no more than 50% of the fish collected. In actuality, Doug felt that the numbers were closer to 60/40 or 65/35, with the larger number going back to the river. (The schedule you received the other day outlines specific days for each objective.)

In general, if transport research were occurring during transportation operations this time of year, marking would occur 5 days per week, with three barges leaving the project each week. The present research has reduced that to 3 days of marking with 1 barge transported each week.

The transport research and in-river survival goal is to mark 3K transport and 3K in-river for both hatchery and wild Chinook weekly. Presently, about 1400 Hatchery steelhead are being marked, but will increase as the numbers increase. The wild steelhead targets are 3K/3K for both hatchery/in-river.

About three (?) raceways of fish are collected per week (each raceway with 10-15K fish), with fish holding times averaging 72 hours as opposed to the normal operation of 48 hours. Approximately 1/4 of these fish are bypassed back to the river and the rest are transported.

Beginning April 21st fish will start being collected for the alternate barge release site study. This requires tagging a mixture of hatchery and wild Chinook and steelhead totaling 20K for weekly transport. This study has 6 weekly releases beginning April 23.

The last study begins o collection on April 22. A total of 12K hatchery Chinook (no estimate of fish handled to get these fish is available, depends on collection density) will be collected every 2 days Monday through Saturday for a total of 36K per week.

To put all these numbers into perspective we are providing the following table showing the average daily collection for April at Lower Granite Dam averaged over the past three years. Hopefully all of these data are useful to you in your consideration. I am sending this memo to Doug Marsh and he will hopefully correct any mistakes in my summary.

Table 1. Average daily collection of hatchery and wild yearling Chinook and steelhead at Lower Granite Dam in April (2004-2006).

Date	Yearling Chinook		Steelhead	
	Hatchery	Wild	Hatchery	Wild
1-Apr	667	430	1,597	397
2-Apr	1,024	1,347	3,759	799
3-Apr	1,570	2,420	2,937	927
4-Apr	1,487	2,180	2,877	830
5-Apr	1,253	1,843	3,907	1,097
6-Apr	1,810	2,947	4,290	1,150
7-Apr	2,177	3,487	3,008	890
8-Apr	4,690	4,725	3,742	1,303
9-Apr	5,733	5,070	3,217	1,697
10-Apr	5,792	5,015	4,755	1,455
11-Apr	6,587	4,833	3,493	2,347
12-Apr	9,545	7,125	4,615	2,526
13-Apr	11,400	8,883	3,633	2,183
14-Apr	10,308	7,122	5,067	2,386
15-Apr	15,833	7,917	10,100	2,517
16-Apr	22,150	13,050	9,483	1,883
17-Apr	19,654	10,075	17,799	2,963
18-Apr	17,780	8,913	20,334	3,849
19-Apr	23,197	13,138	16,888	3,441
20-Apr	24,376	11,477	22,792	3,431
21-Apr	30,905	12,274	27,596	4,481
22-Apr	33,012	11,090	36,731	3,864
23-Apr	25,672	11,711	52,688	6,287
24-Apr	34,384	13,929	34,664	4,187
25-Apr	54,753	16,275	56,123	3,579
26-Apr	56,028	21,988	119,498	5,563
27-Apr	105,799	37,594	150,270	8,481
28-Apr	130,881	38,907	85,425	5,863
29-Apr	191,487	35,232	94,626	12,890
30-Apr	178,655	32,194	166,239	17,385