



# FISH PASSAGE CENTER

1827 NE 44<sup>th</sup> Ave., Suite 240, Portland, OR 97213

Phone: (503) 230-4099 Fax: (503) 230-7559

<http://www.fpc.org>

e-mail us at [fpcstaff@fpc.org](mailto:fpcstaff@fpc.org)

August 16, 2006

Mr. Glen Pearson  
 Priest Rapids Hatchery  
 P.O. Box 937  
 Mattawa, WA 99349

Dear Glen:

The Fish Passage Center has been marking fish from the Priest Rapids Hatchery facility over the last several years as part of the Smolt Monitoring Program (SMP). For purposes of these studies data are collected on either juvenile life stage, or both the juvenile and adult life stages. The SMP provides information for in-season management of the hydrosystem and post-season analyses to the federal, state, and tribal fishery agencies. We would like to share with you some of the information we developed under this study for the fish used from the Priest Rapids Hatchery facility.

Under the Smolt Monitoring Program, information is collected on the timing and migration speed from the hatchery to McNary Dam.

The table below describes the median travel times from each release site to McNary Dam along with the minimum and maximum travel time. It also provides the 95% confidence limits around the estimated median travel time.

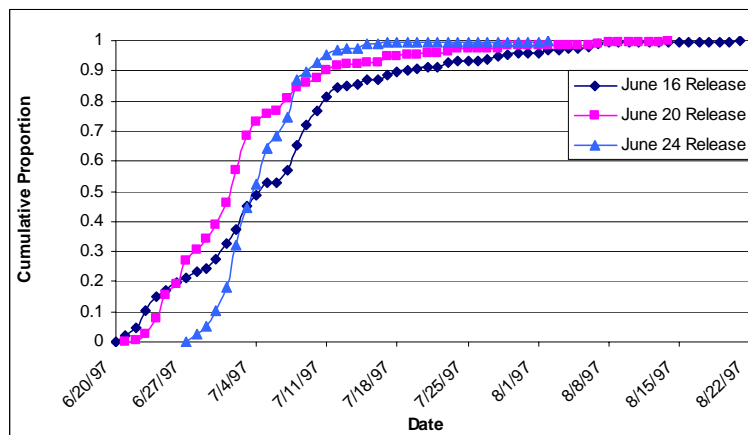
**Priest Rapids Hatchery Fall Chinook Travel Times**

Release Date	Migration Year	Travel Time (Days)			Confidence Limits 95%		Priest Rapids	
		Min	Med	Max	Lower	Upper	Flow (kcfs)	Temp (F)
16-Jun	1997	4.3	21.2	65.4	18.5	21.9	182.2	56.5
20-Jun	1997	1.3	11.9	54.4	11.4	12.6	153.7	57
24-Jun	1997	4.3	10.6	38.9	9.7	11.1	110.4	57.5
13-Jun	1998	2.6	7.4	39.1	7.03	8.01		
25-Jun	1998	2.5	9.6	27.4	9.2	9.9		
14-Jun	1999	3.8	13	39.6	12	13.6	184.7	57.6
18-Jun	1999	3.2	10.5	34.3	9.7	11.2	185.6	57.8
23-Jun	1999	2.2	11.7	57.2	11	12.2	196.3	57.8
15-Jun	2000	5.1	12.1	49.9	11.5	13.1	136.5	
19-Jun	2000	4.4	13.4	37.4	12.3	14.2	138.1	
27-Jun	2000	4.3	11.5	43	11.2	13.1	137.6	
11-Jun	2001	4.9	14	46.8	13.6	14.6	93.6	57.3
15-Jun	2001	7.2	13.2	60	12.8	14	94.2	58.2
19-Jun	2001	6.8	13.9	57.8	13.7	14.1	95.1	59.3

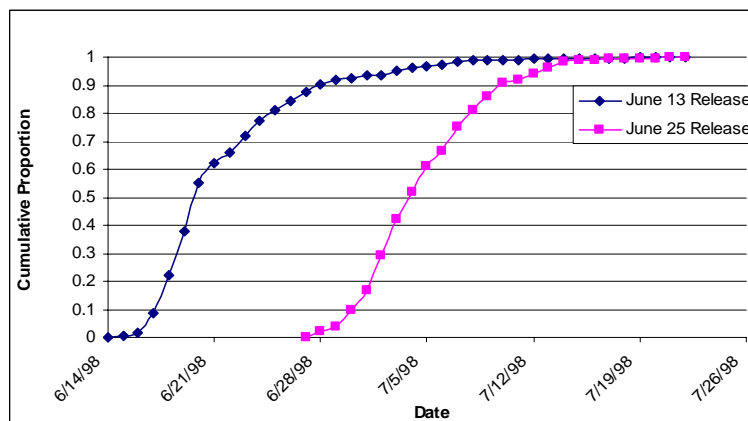
Release Date	Migration Year	Travel Time (Days)			Confidence Limits 95%		Priest Rapids	
		Min	Med	Max	Lower	Upper	Flow (kcfs)	Temp (F)
11-Jun	2002	5.2	14.1	41.8	13.7	14.9	222.3	13.6
15-Jun	2002	5.9	11.4	39.9	11.1	13.2	223.6	14.2
19-Jun	2002	3.9	11.3	38.9	10.2	13.1	234.2	14.6
12-Jun	2003	3.9	11.1	41.7	10.6	11.4	148	
16-Jun	2003	4.2	9.3	34	8.9	9.8	143.3	
20-Jun	2003	4.5	11.1	35.8	10.9	11.4	138.1	
14-Jun	2004	3.9	6.2	19.6	6.1	6.6	150.3	
18-Jun	2004	3.2	6.8	21.6	6.5	7	139.1	
22-Jun	2004	2.7	5.9	27.2	5.6	6	129.8	
9-Jun	2005	3.4	7.8	28.2	7.2	8.4		
13-Jun	2005	3.2	5.5	22.9	5.4	6.1		
17-Jun	2005	0.2	7	19.4	6.7	7.3		
12-Jun	2006	3	10.8	27.5	8.3	12.3		
16-Jun	2006	3.4	12.1	25	11.1	12.4		
20-Jun	2006	3.2	9.9	22.3	9.3	10.5		

We are also providing the following graphs which show passage timing of the hatchery releases to McNary Dam for the past ten years. Since each migration has consisted of 3 separate release dates (except 1998 with only two release dates), each migration year is presented on a separate graph. Please note the different scales on the x-axis among the graphs.

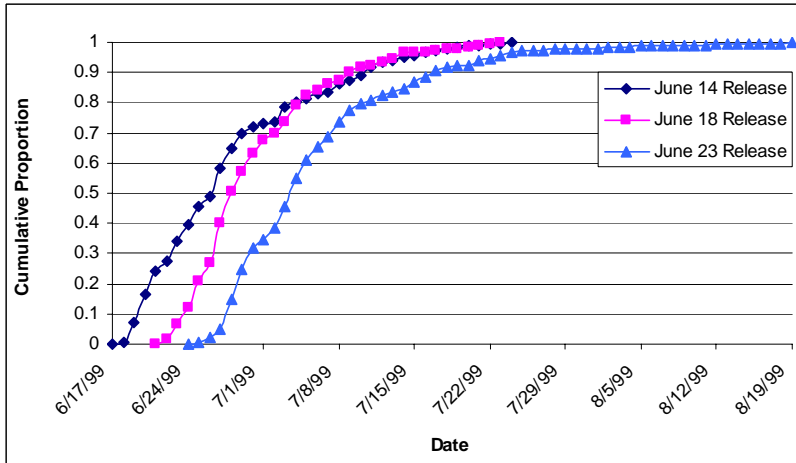
**Priest Rapids Hatchery – Fall Chinook (1997)  
Passage Timing to McNary Dam**



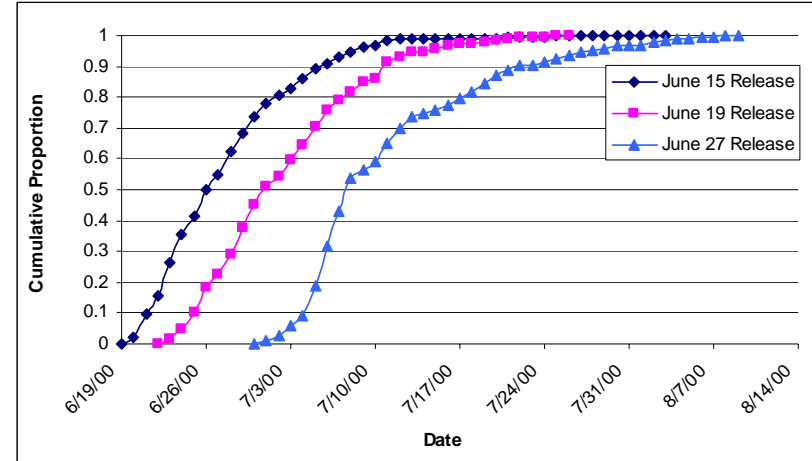
**Priest Rapids Hatchery – Fall Chinook (1998)  
Passage Timing to McNary Dam**



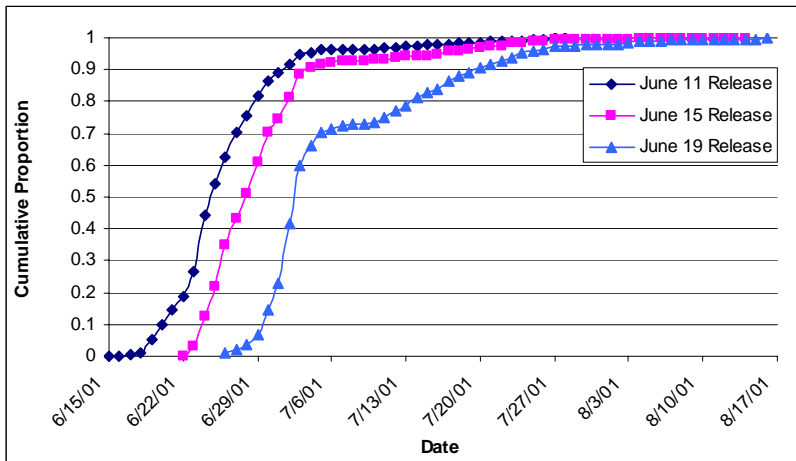
**Priest Rapids Hatchery – Fall Chinook (1999)  
Passage Timing to McNary Dam**



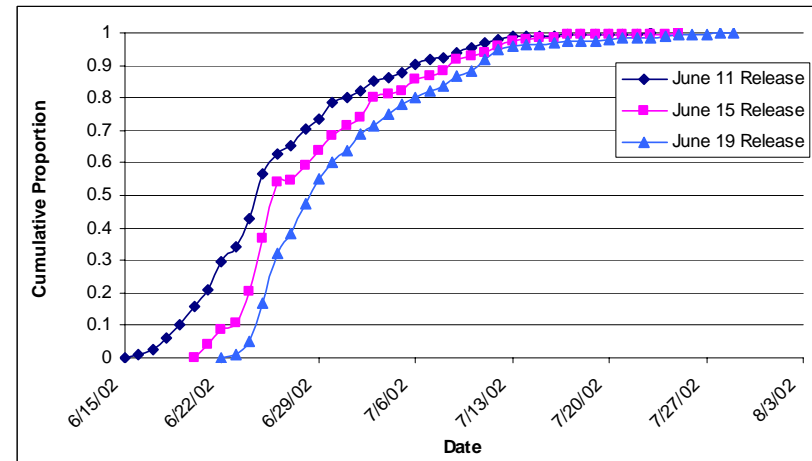
**Priest Rapids Hatchery – Fall Chinook (2000)  
Passage Timing to McNary Dam**



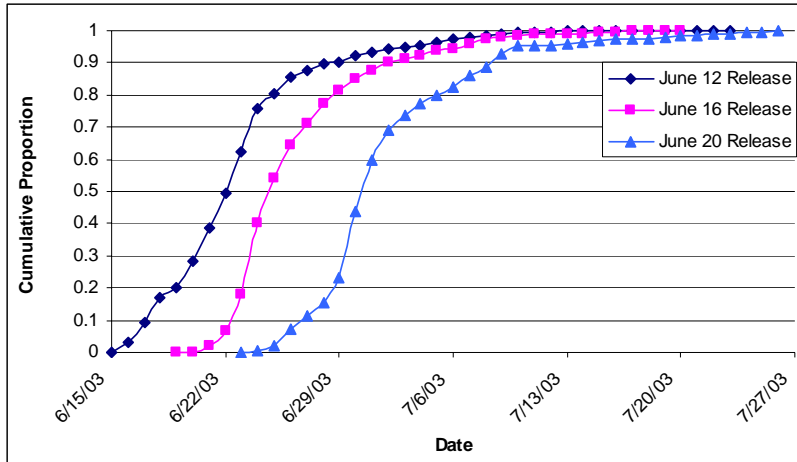
**Priest Rapids Hatchery – Fall Chinook (2001)  
Passage Timing to McNary Dam**



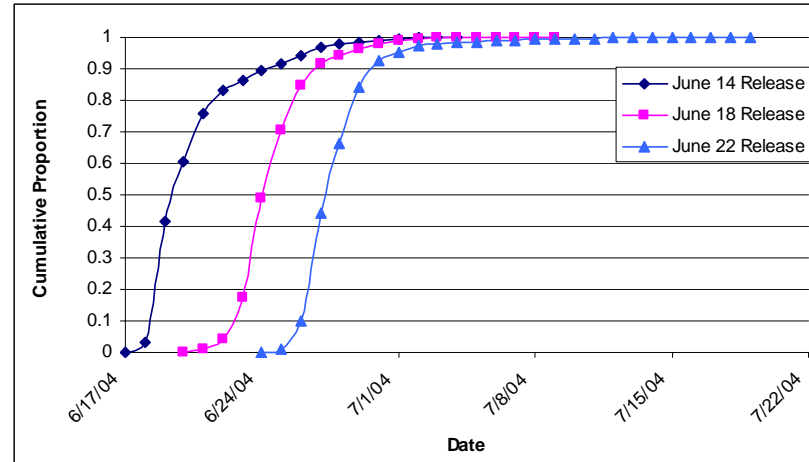
**Priest Rapids Hatchery – Fall Chinook (2002)  
Passage Timing to McNary Dam**



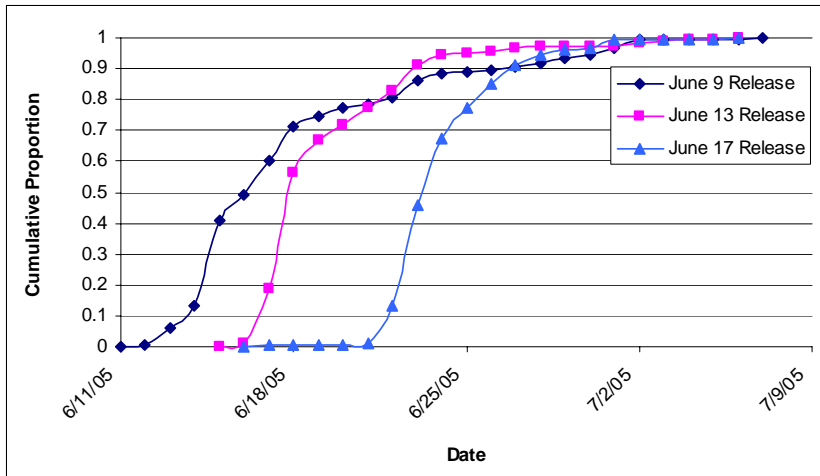
**Priest Rapids Hatchery – Fall Chinook (2003)  
Passage Timing to McNary Dam**



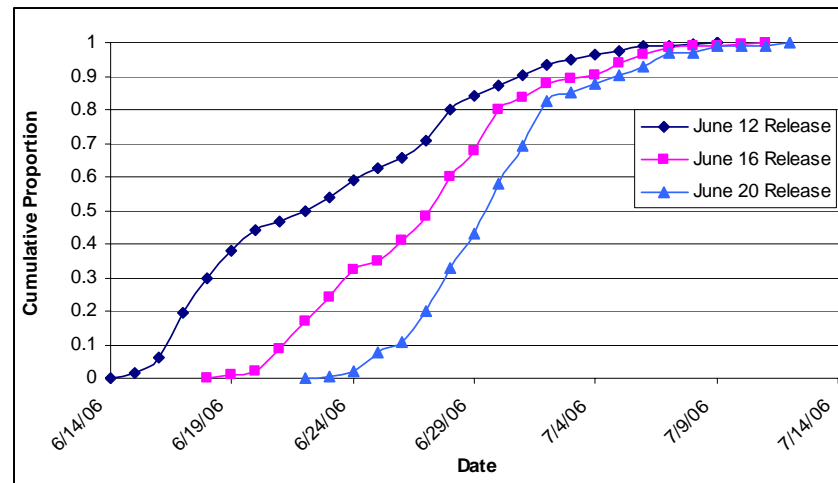
**Priest Rapids Hatchery – Fall Chinook (2004)  
Passage Timing to McNary Dam**



**Priest Rapids Hatchery – Fall Chinook (2005)  
Passage Timing to McNary Dam**

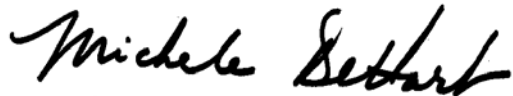


**Priest Rapids Hatchery – Fall Chinook (2006)  
Passage Timing to McNary Dam**



We hope that the information we have provided regarding the use and application of information from the groups that have been marked at the hatchery over the last several years is of some use to you. If you would like any additional information regarding these releases please feel free to contact us.

Sincerely,

A handwritten signature in black ink that reads "Michele DeHart". The signature is written in a cursive, flowing style.

Michele DeHart  
Fish Passage Center Manager

Cc: Charlie Petrosky, IDF&G  
Doug DeHart, USFWS  
FPAC