

SMOLT MONITORING PROGRAM

ANNUAL REPORT 1985

PART II: Migrational Characteristics of Columbia Basin

Salmon and Steelhead Trout, 1985

Volume II

Brand Recapture Data

by

FISH PASSAGE CENTER

for

The Columbia Basin Fish and Wildlife

Agencies and Tribes

Funded by

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I. INTRODUCTION

Volume I of this report, 1985 Smolt Monitoring Program Annual Report, Part II, describes the results of travel time monitoring and other migrational characteristics of yearling and sub-yearling chinook salmon (Oncorhynchus tshawytscha), sockeye salmon (Oncorhynchus nerka), and steelhead trout (Salmo gairdneri). This volume of the report presents the freeze brand data used in the analysis of travel time for Lower Granite, Rock Island, McNary, and John Day dams. Brand recoveries for Lower Monumental dam also are presented in this volume as part of the reporting requirements for BPA. Summary of data collection procedures and explanation of data listings are presented in conjunction with the mark recapture data. Data for marked fish not presented in this report will be provided upon request. Daily catch statistics (by species), flow, and sample parameters for the smolt monitoring sites, Whitebird, Clearwater, Lewiston, Lower Granite, Lower Monumental, Rock Island, McNary, and John Day, also will be provided upon request.

II. DATA LISTING FORMAT

Brand recapture data listings summarize catch statistics for freeze branded fish in conjunction with flow and sample parameters obtained at the smolt monitoring

sites. Data presented in the listings are defined as follows:

Smolt Monitoring Site is identified on each page in the table heading.

Species is identified on each page in the table heading.

Each report is divided into sections based on species.

Brand recaptures are reported in order by the following species categories: yearling chinook (chinook 1), steelhead, sub-yearling chinook (chinook 0), coho, and sockeye, respectively. Within each species category brand recaptures are reported in order by brand symbol, brand location, and brand rotation, respectively.

Brand Release Information is indicated on each page in the table heading. This information includes the following:

1. Freeze Brand Code: This includes brand location, brand symbol, and brand rotation.
2. Race: The race of the branded fish.
3. Species: The species of the branded fish.
4. Lot ID: An identification number assigned to each brand release. This number can be used to find additional information from hatchery and brand release listings in Volume I of this report.
5. # Released: The number of branded fish released.
6. Release Site: The site where the branded fish were released.
7. Release Dates: The time period over which the brands were released.
8. Agency: The agency responsible for the release.
9. Hatchery: The hatchery from where the fish were released. Non-hatchery indicates migrating fish were captured, freeze branded, and released.

Date: The year is indicated in the heading line of each page; the month and day, representing the ending date of the sample period, is indicated for each sample. Detailed information on the start and end date and time for each sample can be obtained from the Water Budget Center (now known as the Fish Passage Center).

Sample Parameters are used to indicate relative sampling effort and changes in sampling conditions. These parameters are used to aid interpretation and analysis of the fish counts. The sample parameters primarily are for qualitative purposes and can not be used to quantify sample effort. Descriptive information about the samples is provided in comments recorded with the sample parameters. These comments are not included in this report but are available upon request from the Fish Passage Center.

Sample Quality Code (SC) is used to identify samples deviating from "normal" sample conditions and to identify the cause for missing samples. Sample quality codes are defined below. Fish counts from samples with sample quality codes greater than 1 are indicated with an asterisk. The basis for assignment of quality codes is discussed for each site later in this report.

Definition of Sample Quality Codes

- 1 = Normal complete sample.
- 2 = Sample taken prior to separator cleanout (used for McNary Dam only).
- 3 = Questionable sample due to abnormal flows.
- 4 = No sample or incomplete sample due to weather conditions.

- 5 = No sample or incomplete sample due to equipment failure/maintenance/ repair.
- 6 = Sample following 1 or more days without samples. Used for Priest Rapids Dam only.
- 7 = No sample, incomplete or biased sample. Cause explained in comments recorded with data.
- 8 = No fish counts were entered for this sample period. Fish accumulated and were sampled at a later date.
- 9 = This code was not used in 1985.
- 10 = Separator cleanout counts.
- >12= Sample of fish accumulated 2 or more days. The sample code minus 10 is the number of days that fish accumulated before being sampled.

Number of Days (#D) This code is used to indicate samples of fish collected over more than 1 day. Flow parameters corresponding with these accumulated samples are averaged over the entire sample period.

Number of Gatewells (GW) indicates the number of gatewells sampled. This parameter is printed only for gatewell sampling systems.

Number of Hours (HR.S) indicates the number of hours represented by the sample.

River Flow is the average river flow (in kcfs) during the sample period.

Passage Index Flow is the percentage of the river flow (available for fish passage) flowing through the sampling system. Definition of flow percentage varies for each site and is explained in the report footnotes. The flow is averaged over the sample period (defined by the start and end date and time). The source of flow data (either compiled by the remote site operators and entered with the

catch data or obtained from COE data) is indicated in the report footnotes.

Number Sampled is the number of branded fish observed.

Missing counts are indicated by "----". Total sample counts are indicated at the end of each report section.

Number Collected is the number of fish collected during the sample period. If the collection is not subsampled, the number sampled and the number collected are equal. For monitoring sites that subsample the fish collection, the number of branded fish collected is estimated based on a sample rate. At McNary and Lower Granite the sample rate is based on the proportion of time the bypass collection system was sampled. Missing counts are indicated by "----". Total collection counts are indicated at the end of each report section.

Passage Index is calculated as follows:

$$\text{Passage Index} = (\# \text{ collected} * 100) / (\% \text{ passage index flow})$$

Cumulative percent passage index is printed to the right of each passage index estimate. These percentages are based on the total counts printed at the end of each report section.

III. BRAND RECAPTURE DATA: DESCRIPTION OF DATA COLLECTION PROCEDURES AND PRESENTATION OF DATA LISTINGS

A. Lower Granite Dam

Contractor: National Marine Fisheries Service

Project Leader: Richard Johnsen (503-739-2303)

Location: Snake River, River Mile 107.5, 431.8 miles to the mouth of the Columbia

Monitoring Dates: March 27 - July 23, 1985

Sampling Method: A smolt bypass collection system was used to sample fish 24 hours each day. Fish passing through the collection system were subsampled at a variable rate based on the number of fish passing the project. Species and brand composition were assessed for the subsample. The sample period was noon to noon. Additional information on the sampling procedures at Lower Granite Dam is presented in the NMFS annual report (Johnsen and Ranck, 1985).

Analysis of Data: Data from Lower Granite were used for in-season management, assessment of survival, travel time and migration characteristics. The flow proportion used to expand collection counts to a passage index was estimated as follows:

$$\text{Powerhouse flow} / (\text{Powerhouse flow} + \text{Spill})$$

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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 * authorization and/or clearance *

LOWER GRANITE * * * CHINOOK 1'S * * *

LD-R -1 SP CHINOOK LOT ID # 85052-01 34,225 RELEASED AT: RAPID RIVER H FROM: 3/31/85 TO 4/10/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE	SAMPLE	(1)	(2)	(3)			(4)
	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER	... PASSAGE	INDEX ...
1985	SC	#D-GW-HS	FLOW	FLOW	SAMPLED	COLLECTED	DAILY COUNT CUMULATIVE
4/13	1	24.0	110.50	96.92 %	4	46	47 0.5%
4/14	1	24.0	90.99	100.00 %	6	68	68 1.2%
4/15	1	24.0	101.38	100.00 %	12	135	135 2.6%
4/16	5	24.0	106.22	100.00 %	26 *	296 *	296 * 5.7%
4/17	1	24.0	109.33	97.01 %	31	362	373 9.6%
4/18	1	24.0	109.90	98.07 %	50	571	582 15.7%
4/19	1	24.0	108.76	100.00 %	35	577	577 21.8%
4/20	1	24.0	101.29	100.00 %	36	601	601 28.1%
4/21	1	24.0	96.74	100.00 %	11	347	347 31.7%
4/22	1	24.0	85.16	100.00 %	28	478	478 36.7%
4/23	1	24.0	75.90	100.00 %	24	336	336 40.2%
4/24	1	24.0	85.40	100.00 %	22	362	362 44.0%
4/25	1	24.0	79.07	100.00 %	59	678	678 51.1%
4/26	1	24.0	77.83	100.00 %	43	788	788 59.4%
4/27	1	24.0	68.46	100.00 %	23	367	367 63.2%
4/28	1	24.0	61.60	100.00 %	18	294	294 66.3%
4/29	1	24.0	62.23	100.00 %	24	400	400 70.5%
4/30	1	24.0	71.71	100.00 %	16	267	267 73.3%
5/01	1	24.0	78.58	100.00 %	34	410	410 77.6%
5/02	1	24.0	76.90	100.00 %	20	311	311 80.9%
5/03	1	24.0	84.31	100.00 %	19	309	309 84.1%
5/04	1	24.0	90.93	100.00 %	10	349	349 87.8%
5/05	1	24.0	96.67	100.00 %	6	199	199 89.9%
5/06	1	24.0	98.30	71.68 %	3	100	140 91.3%
5/07	1	24.0	83.08	58.69 %	2	66	112 92.5%
5/08	1	24.0	79.40	99.38 %	1	32	32 92.8%
5/09	1	24.0	84.55	100.00 %	4	139	139 94.3%
5/10	1	24.0	88.95	100.00 %	1	33	33 94.6%
5/11	1	24.0	85.12	100.00 %	0	0	0 94.6%
5/12	1	24.0	81.66	100.00 %	2	62	62 95.3%
5/13	1	24.0	71.40	100.00 %	0	0	0 95.3%
5/14	1	24.0	68.33	100.00 %	6	98	98 96.3%
5/15	1	24.0	73.11	100.00 %	2	32	32 96.6%
5/16	1	24.0	69.12	100.00 %	1	19	19 96.8%

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LOWER GRANITE * * * CHINOOK 1'S * * *

LD-R -1 SP CHINOOK LOT ID # 85052-01 34,225 RELEASED AT: RAPID RIVER H FROM: 3/31/85 TO 4/10/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE .. PARAMETERS .. SC #D GW HRS	(1) RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLD	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
						1	14
***** C O N T I N U E D *****							
5/17	1	24.0	70.26	100.00 %	1	14	14
5/18	1	24.0	80.46	100.00 %	6	102	98.1%
5/19	1	24.0	85.35	100.00 %	1	31	98.4%
5/20	1	24.0	86.69	100.00 %	0	0	98.4%
5/21	1	24.0	88.86	100.00 %	1	19	98.6%
5/22	1	24.0	102.10	100.00 %	2	31	98.9%
5/23	1	24.0	105.58	100.00 %	1	40	99.3%
5/24	1	24.0	119.68	100.00 %	1	32	99.7%
5/25	1	24.0	118.95	100.00 %	0	0	99.7%
5/26	1	24.0	119.48	100.00 %	0	0	99.7%
5/27	1	24.0	114.33	100.00 %	0	0	99.7%
5/28	1	24.0	103.24	100.00 %	1	32	100.0%
TOTAL				593	9,433	9,542	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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LOWER GRANITE

* * * CHINOOK 1'S * * *

LD-R -3 SP CHINOOK LOT ID # 85053-01 35,825 RELEASED AT: HELLS CANYON FROM: 3/18/85 TO 3/20/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE	INDEX	(4) CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		DAILY COUNT		
3/31	1	24.0	44.03	100.00 X	1	12	12	0.2X
4/01	1	24.0	50.55	100.00 X	0	0	0	0.2X
4/02	1	24.0	56.61	100.00 X	1	10	10	0.3X
4/03	1	24.0	69.30	100.00 X	2	24	24	0.6X
4/04	1	24.0	78.56	100.00 X	6	81	81	1.8X
4/05	1	24.0	82.50	100.00 X	13	147	147	3.8X
4/06	1	24.0	74.29	100.00 X	22	256	256	7.4X
4/07	1	24.0	67.87	100.00 X	20	234	234	10.7X
4/08	1	24.0	72.05	100.00 X	22	243	243	14.1X
4/09	1	24.0	78.15	100.00 X	31	438	438	20.2X
4/10	1	24.0	91.75	100.00 X	71	728	728	30.3X
4/11	1	24.0	95.09	100.00 X	25	284	284	34.3X
4/12	1	24.0	106.51	100.00 X	51	608	608	42.8X
4/13	1	24.0	110.50	96.92 X	53	610	629	51.5X
4/14	1	24.0	90.99	100.00 X	37	417	417	57.4X
4/15	1	24.0	101.38	100.00 X	48	540	540	64.9X
4/16	5	24.0	106.22	100.00 X	16 *	182 *	182 *	67.4X
4/17	1	24.0	109.33	97.01 X	20	234	241	70.8X
4/18	1	24.0	109.90	98.07 X	31	354	361	75.8X
4/19	1	24.0	108.76	100.00 X	18	297	297	80.0X
4/20	1	24.0	101.29	100.00 X	11	184	184	82.5X
4/21	1	24.0	96.74	100.00 X	1	32	32	83.0X
4/22	1	24.0	85.16	100.00 X	7	119	119	84.7X
4/23	1	24.0	75.90	100.00 X	10	140	140	86.6X
4/24	1	24.0	85.40	100.00 X	6	99	99	88.0X
4/25	1	24.0	79.07	100.00 X	12	138	138	89.9X
4/26	1	24.0	77.83	100.00 X	6	110	110	91.4X
4/27	1	24.0	68.46	100.00 X	5	80	80	92.6X
4/28	1	24.0	61.60	100.00 X	3	49	49	93.2X
4/29	1	24.0	62.23	100.00 X	3	50	50	93.9X
4/30	1	24.0	71.71	100.00 X	2	33	33	94.4X
5/01	1	24.0	78.58	100.00 X	8	97	97	95.8X
5/02	1	24.0	76.90	100.00 X	2	31	31	96.2X
5/03	1	24.0	84.31	100.00 X	4	65	65	97.1X
5/04	1	24.0	90.93	100.00 X	2	70	70	98.1X
5/05	1	24.0	96.67	100.00 X	1	33	33	98.5X

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LOWER GRANITE

* * * CHINOOK 1'S * * *

LD-R -3 SP CHINOOK LOT ID # 85053-01 35,825 RELEASED AT: HELLS CANYON FROM: 3/18/85 TO 3/20/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GW--HRS	RIVER FLOW	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
			NUMBER SAMPLED	INDEX FLOW	NUMBER			

***** C O N T I N U E D *****

5/06	1	24.0	98.30	71.68 X	0	0	0	98.5X
5/07	1	24.0	83.08	58.69 X	1	33	56	99.3X
5/08	1	24.0	79.40	99.38 X	0	0	0	99.3X
5/09	1	24.0	84.55	100.00 X	0	0	0	99.3X
5/10	1	24.0	88.95	100.00 X	1	33	33	99.8X
5/11	1	24.0	85.12	100.00 X	0	0	0	99.8X
5/12	1	24.0	81.66	100.00 X	0	0	0	99.8X
5/13	1	24.0	71.40	100.00 X	0	0	0	99.8X
5/14	1	24.0	68.33	100.00 X	0	0	0	99.8X
5/15	1	24.0	73.11	100.00 X	1	16	16	100.0X
TOTAL					574	7,111	7,167	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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LOWER GRANITE

* * * CHINOOK 1'S * * *

RD-R -1 SP CHINOOK LOT ID # 85055-01 39,875 RELEASED AT: SAWTOOTH H FROM: 3/25/85 TO 3/29/85
 AGENCY: IDFG HATCHERY: SAWTOOTH H

DATE 1985	SAMPLE SC	PARAMETERS #R-GW-HR,S	RIVER FLOW	INDEX FLOW	(3)		(4)		
					NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	
4/14	1	24.0	90.99	100.00 X	1	11	11	0.2X	
4/15	1	24.0	101.38	100.00 X	3	34	34	1.0X	
4/16	5	24.0	106.22	100.00 X	2 *	23 *	23 *	1.5X	
4/17	1	24.0	109.33	97.01 X	12	140	144	4.7X	
4/18	1	24.0	109.90	98.07 X	12	137	140	7.9X	
4/19	1	24.0	108.76	100.00 X	6	99	99	10.1X	
4/20	1	24.0	101.29	100.00 X	5	83	83	11.9X	
4/21	1	24.0	96.74	100.00 X	1	32	32	12.6X	
4/22	1	24.0	85.16	100.00 X	3	51	51	13.8X	
4/23	1	24.0	75.90	100.00 X	9	126	126	16.6X	
4/24	1	24.0	85.40	100.00 X	1	16	16	16.9X	
4/25	1	24.0	79.07	100.00 X	16	184	184	21.1X	
4/26	1	24.0	77.83	100.00 X	10	183	183	25.1X	
4/27	1	24.0	68.46	100.00 X	12	192	192	29.4X	
4/28	1	24.0	61.60	100.00 X	7	114	114	32.0X	
4/29	1	24.0	62.23	100.00 X	8	133	133	34.9X	
4/30	1	24.0	71.71	100.00 X	5	83	83	36.8X	
5/01	1	24.0	78.58	100.00 X	9	109	109	39.2X	
5/02	1	24.0	76.90	100.00 X	4	62	62	40.6X	
5/03	1	24.0	84.31	100.00 X	12	195	195	45.0X	
5/04	1	24.0	90.93	100.00 X	10	349	349	52.8X	
5/05	1	24.0	96.67	100.00 X	5	166	166	56.5X	
5/06	1	24.0	98.30	71.68 X	4	134	187	60.7X	
5/07	1	24.0	83.08	58.69 X	4	132	225	65.7X	
5/08	1	24.0	79.40	99.38 X	3	97	98	67.9X	
5/09	1	24.0	84.55	100.00 X	12	418	418	77.2X	
5/10	1	24.0	88.95	100.00 X	2	66	66	78.7X	
5/11	1	24.0	85.12	100.00 X	5	164	164	82.3X	
5/12	1	24.0	81.66	100.00 X	3	93	93	84.4X	
5/13	1	24.0	71.40	100.00 X	4	143	143	87.6X	
5/14	1	24.0	68.33	100.00 X	3	49	49	88.7X	
5/15	1	24.0	73.11	100.00 X	2	32	32	89.4X	
5/16	1	24.0	69.12	100.00 X	3	56	56	90.7X	
5/17	1	24.0	70.26	100.00 X	2	29	29	91.3X	

***** CONTINUED *****

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LOWER GRANITE

* * * CHINOOK 1'S * * *

RD-R -1 SP CHINOOK LOT ID # 85055-01 39,875 RELEASED AT: SAWTOOTH H FROM: 3/25/85 TO 3/29/85
 AGENCY: IDFG HATCHERY: SAWTOOTH H

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC--#D-GW-HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

5/18	1	24.0	80.46	100.00 %	2	34	34	92.1%
5/19	1	24.0	85.35	100.00 %	3	92	92	94.1%
5/20	1	24.0	86.69	100.00 %	2	63	63	95.5%
5/21	1	24.0	88.86	100.00 %	7	131	131	98.5%
5/22	1	24.0	102.10	100.00 %	0	0	0	98.5%
5/23	1	24.0	105.58	100.00 %	0	0	0	98.5%
5/24	1	24.0	119.68	100.00 %	0	0	0	98.5%
5/25	1	24.0	118.95	100.00 %	1	36	36	99.3%
5/26	1	24.0	119.48	100.00 %	0	0	0	99.3%
5/27	1	24.0	114.33	100.00 %	0	0	0	99.3%
5/28	1	24.0	103.24	100.00 %	0	0	0	99.3%
5/29	1	24.0	100.04	100.00 %	1	33	33	100.0%
TOTAL					216	4,324	4,478	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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LOWER GRANITE

* * *

CHINOOK 1'S

* * *

RD-R -2 SP CHINOOK LOT ID # 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE SC	(1) .. PARAMETERS .. #D GU HR.S.	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLLED	NUMBER COLLECTED	(4) ... PASSAGE DAILY COUNT		INDEX CUMULATIVE
							
4/10	1	24.0	91.75	100.00 %	4	41	41		0.6%
4/11	1	24.0	95.09	100.00 %	5	57	57		1.5%
4/12	1	24.0	106.51	100.00 %	1	12	12		1.7%
4/13	1	24.0	110.50	96.92 %	19	219	226		5.2%
4/14	1	24.0	90.99	100.00 %	14	158	158		7.6%
4/15	1	24.0	101.38	100.00 %	19	214	214		10.9%
4/16	5	24.0	106.22	100.00 %	12 *	136 *	136 *		13.1%
4/17	1	24.0	109.33	97.01 %	12	140	144		15.3%
4/18	1	24.0	109.90	98.07 %	22	251	256		19.2%
4/19	1	24.0	108.76	100.00 %	18	297	297		23.8%
4/20	1	24.0	101.29	100.00 %	18	300	300		28.5%
4/21	1	24.0	96.74	100.00 %	6	189	189		31.4%
4/22	1	24.0	85.16	100.00 %	12	205	205		34.6%
4/23	1	24.0	75.90	100.00 %	9	126	126		36.5%
4/24	1	24.0	85.40	100.00 %	8	132	132		38.6%
4/25	1	24.0	79.07	100.00 %	19	218	218		41.9%
4/26	1	24.0	77.83	100.00 %	18	330	330		47.0%
4/27	1	24.0	68.46	100.00 %	13	208	208		50.2%
4/28	1	24.0	61.60	100.00 %	13	212	212		53.5%
4/29	1	24.0	62.23	100.00 %	8	133	133		55.6%
4/30	1	24.0	71.71	100.00 %	11	184	184		58.4%
5/01	1	24.0	78.58	100.00 %	32	386	386		64.4%
5/02	1	24.0	76.90	100.00 %	17	264	264		68.5%
5/03	1	24.0	84.31	100.00 %	23	375	375		74.3%
5/04	1	24.0	90.93	100.00 %	18	629	629		84.0%
5/05	1	24.0	96.67	100.00 %	4	133	133		86.1%
5/06	1	24.0	98.30	71.68 %	0	0	0		86.1%
5/07	1	24.0	83.08	58.69 %	2	66	112		87.8%
5/08	1	24.0	79.40	99.38 %	3	97	98		89.3%
5/09	1	24.0	84.55	100.00 %	5	174	174		92.0%
5/10	1	24.0	88.95	100.00 %	0	0	0		92.0%
5/11	1	24.0	85.12	100.00 %	2	66	66		93.0%
5/12	1	24.0	81.66	100.00 %	1	31	31		93.5%
5/13	1	24.0	71.40	100.00 %	1	36	36		94.1%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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LOWER GRANITE

* * * CHINOOK 1'S * * *

RD-R -2 SP CHINOOK LOT ID # 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC-#I-GW-HB+S	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
							DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

5/14	1	24.0	68.33	100.00 X	0	0	0	94.1%
5/15	1	24.0	73.11	100.00 X	3	49	49	94.8%
5/16	1	24.0	69.12	100.00 X	2	37	37	95.4%
5/17	1	24.0	70.26	100.00 X	0	0	0	95.4%
5/18	1	24.0	80.46	100.00 X	1	17	17	95.7%
5/19	1	24.0	85.35	100.00 X	0	0	0	95.7%
5/20	1	24.0	86.69	100.00 X	1	32	32	96.1%
5/21	1	24.0	88.86	100.00 X	2	37	37	96.7%
5/22	1	24.0	102.10	100.00 X	0	0	0	96.7%
5/23	1	24.0	105.58	100.00 X	1	40	40	97.3%
5/24	1	24.0	119.68	100.00 X	0	0	0	97.3%
5/25	1	24.0	118.95	100.00 X	1	36	36	97.9%
5/26	1	24.0	119.48	100.00 X	1	33	33	98.4%
5/27	1	24.0	114.33	100.00 X	1	33	33	98.9%
5/28	1	24.0	103.24	100.00 X	0	0	0	98.9%
5/29	1	24.0	100.04	100.00 X	0	0	0	98.9%
5/30	1	24.0	104.67	100.00 X	0	0	0	98.9%
5/31	1	24.0	105.50	100.00 X	0	0	0	98.9%
6/01	1	24.0	103.06	85.28 X	0	0	0	98.9%
6/02	1	24.0	95.13	79.71 X	0	0	0	98.9%
6/03	1	24.0	96.01	88.79 X	0	0	0	98.9%
6/04	1	24.0	94.47	100.00 X	0	0	0	98.9%
6/05	1	24.0	90.05	100.00 X	0	0	0	98.9%
6/06	1	24.0	94.58	100.00 X	0	0	0	98.9%
6/07	1	24.0	100.14	100.00 X	0	0	0	98.9%
6/08	1	24.0	118.32	100.00 X	0	0	0	98.9%
6/09	1	24.0	125.75	100.00 X	0	0	0	98.9%
6/10	1	24.0	117.18	100.00 X	0	0	0	98.9%
6/11	1	24.0	96.78	100.00 X	0	0	0	98.9%
6/12	1	24.0	91.72	100.00 X	0	0	0	98.9%
6/13	1	24.0	86.61	100.00 X	0	0	0	98.9%
6/14	1	24.0	82.10	100.00 X	1	34	34	99.4%
6/15	1	24.0	76.06	100.00 X	1	36	36	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
FISH PASSAGE DATA SYSTEM

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LOWER GRANITE * * * **CHINOOK 1'S** * * *

RD-R -2 SP CHINOOK LOT ID #: 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
AGENCY: USFWS HATCHERY: DWORSHAK NFH

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC-#D-GW-HR,S	FLOW	FLOW	SAMPLED	COLLECTED
					DAILY COUNT
					CUMULATIVE

* * * * * * * * * CONTINUED * * * * * * *

TOTAL 384 6,403 6,466

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
(2) River Flow: Data acquired from Corps data site - LGR
(3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
(4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
(*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * * CHINOOK 1'S * * *

RD-R -3 SU CHINOOK LOT ID # 85057-01 25,600 RELEASED AT: S F SALMON R FROM: 4/01/85 TO 4/04/85
 AGENCY: IDFG HATCHERY: MC CALL

DATE 1985	SAMPLE SC	.. PARAMETERS .. #D GW HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				... PASSAGE INDEX ...
4/17	1	24.0	109.33	97.01 X	2	23	24	0.6X	
4/18	1	24.0	109.90	98.07 X	1	11	11	0.8X	
4/19	1	24.0	108.76	100.00 X	0	0	0	0.8X	
4/20	1	24.0	101.29	100.00 X	1	17	17	1.2X	
4/21	1	24.0	96.74	100.00 X	1	32	32	2.0X	
4/22	1	24.0	85.16	100.00 X	1	17	17	2.4X	
4/23	1	24.0	75.90	100.00 X	3	42	42	3.4X	
4/24	1	24.0	85.40	100.00 X	1	16	16	3.7X	
4/25	1	24.0	79.07	100.00 X	5	57	57	5.1X	
4/26	1	24.0	77.83	100.00 X	4	73	73	6.8X	
4/27	1	24.0	68.46	100.00 X	4	64	64	8.3X	
4/28	1	24.0	61.60	100.00 X	6	98	98	10.6X	
4/29	1	24.0	62.23	100.00 X	3	50	50	11.7X	
4/30	1	24.0	71.71	100.00 X	3	50	50	12.9X	
5/01	1	24.0	78.58	100.00 X	11	133	133	16.0X	
5/02	1	24.0	76.90	100.00 X	8	124	124	18.9X	
5/03	1	24.0	84.31	100.00 X	3	49	49	20.1X	
5/04	1	24.0	90.93	100.00 X	2	70	70	21.7X	
5/05	1	24.0	96.67	100.00 X	5	166	166	25.6X	
5/06	1	24.0	98.30	71.68 X	1	33	46	26.7X	
5/07	1	24.0	83.08	58.69 X	2	66	112	29.3X	
5/08	1	24.0	79.40	99.38 X	2	65	65	30.9X	
5/09	1	24.0	84.55	100.00 X	6	209	209	35.8X	
5/10	1	24.0	88.95	100.00 X	4	132	132	38.9X	
5/11	1	24.0	85.12	100.00 X	3	99	99	41.2X	
5/12	1	24.0	81.66	100.00 X	5	156	156	44.8X	
5/13	1	24.0	71.40	100.00 X	3	107	107	47.3X	
5/14	1	24.0	68.33	100.00 X	9	148	148	50.8X	
5/15	1	24.0	73.11	100.00 X	13	211	211	53.8X	
5/16	1	24.0	69.12	100.00 X	4	75	75	57.5X	
5/17	1	24.0	70.26	100.00 X	2	29	29	58.2X	
5/18	1	24.0	80.46	100.00 X	9	153	153	61.8X	
5/19	1	24.0	85.35	100.00 X	7	214	214	66.8X	
5/20	1	24.0	86.69	100.00 X	5	158	158	70.5X	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * * CHINOOK 1'S * * *

RD-R -3 SU CHINOOK LOT ID # 85057-01 25,600 RELEASED AT: S F SALMON R FROM: 4/01/85 TO 4/04/85
 AGENCY: IDFG HATCHERY: MC CALL

DATE 1985	.. PARAMETERS .. SC--#D--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
		RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE				
***** C O N T I N U E D *****								
5/21	1	24.0	88.86	100.00 X	15	280	280	77.1%
5/22	1	24.0	102.10	100.00 X	4	63	63	78.6%
5/23	1	24.0	105.58	100.00 X	0	0	0	79.6%
5/24	1	24.0	119.68	100.00 X	4	128	128	81.6%
5/25	1	24.0	118.95	100.00 X	10	358	358	90.0%
5/26	1	24.0	119.48	100.00 X	3	98	98	92.3%
5/27	1	24.0	114.33	100.00 X	3	99	99	94.6%
5/28	1	24.0	103.24	100.00 X	1	32	32	95.3%
5/29	1	24.0	100.04	100.00 X	3	100	100	97.7%
5/30	1	24.0	104.67	100.00 X	1	34	34	98.5%
5/31	1	24.0	105.50	100.00 X	1	31	31	99.2%
6/01	1	24.0	103.06	85.28 X	0	0	0	99.2%
6/02	1	24.0	95.13	79.71 X	0	0	0	99.2%
6/03	1	24.0	96.01	88.79 X	0	0	0	99.2%
6/04	1	24.0	94.47	100.00 X	0	0	0	99.2%
6/05	1	24.0	90.05	100.00 X	0	0	0	99.2%
6/06	1	24.0	94.58	100.00 X	0	0	0	99.2%
6/07	1	24.0	100.14	100.00 X	0	0	0	99.2%
6/08	1	24.0	118.32	100.00 X	0	0	0	99.2%
6/09	1	24.0	125.75	100.00 X	1	34	34	100.0%
TOTAL					185	4,204	4,264	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

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LOWER GRANITE

* * *

STEELHEAD

* * *

LD-Y -1 STEELHEAD LOT ID # 85059-01 30,000 RELEASED AT: HELLS CANYON FROM: 4/29/85 TO 5/01/85
 AGENCY: IDFG HATCHERY: NIAGARA SPRING

DATE 1985	SAMPLE (1)		(2)		(3)		(4)		
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE
5/05	1	24.0	96.67	100.00 X	5	166	166	5.3X	
5/06	1	24.0	98.30	71.68 X	9	300	419	18.8X	
5/07	1	24.0	83.08	58.69 X	7	232	395	31.5X	
5/08	1	24.0	79.40	99.38 X	8	259	261	39.9X	
5/09	1	24.0	84.55	100.00 X	6	209	209	46.6X	
5/10	1	24.0	88.95	100.00 X	3	99	99	49.8X	
5/11	1	24.0	85.12	100.00 X	6	197	197	56.1X	
5/12	1	24.0	81.66	100.00 X	5	156	156	61.2X	
5/13	1	24.0	71.40	100.00 X	2	68	68	63.3X	
5/14	1	24.0	68.33	100.00 X	8	131	131	67.6X	
5/15	1	24.0	73.11	100.00 X	5	81	81	70.2X	
5/16	1	24.0	69.12	100.00 X	4	75	75	72.6X	
5/17	1	24.0	70.26	100.00 X	6	86	86	75.3X	
5/18	1	24.0	80.46	100.00 X	4	68	68	77.5X	
5/19	1	24.0	85.35	100.00 X	1	31	31	78.5X	
5/20	1	24.0	86.69	100.00 X	2	63	63	80.5X	
5/21	1	24.0	88.86	100.00 X	2	37	37	81.7X	
5/22	1	24.0	102.10	100.00 X	3	47	47	83.2X	
5/23	1	24.0	105.58	100.00 X	4	160	160	88.4X	
5/24	1	24.0	119.68	100.00 X	1	32	32	89.4X	
5/25	1	24.0	118.95	100.00 X	1	36	36	90.6X	
5/26	1	24.0	119.48	100.00 X	2	65	65	92.7X	
5/27	1	24.0	114.33	100.00 X	2	66	66	94.8X	
5/28	1	24.0	103.24	100.00 X	1	32	32	95.8X	
5/29	1	24.0	100.04	100.00 X	1	33	33	96.9X	
5/30	1	24.0	104.67	100.00 X	1	34	34	98.0X	
5/31	1	24.0	105.50	100.00 X	0	0	0	98.0X	
6/01	1	24.0	103.06	85.28 X	1	28	33	99.0X	
6/02	1	24.0	95.13	79.71 X	0	0	0	99.0X	
6/03	1	24.0	96.01	88.79 X	0	0	0	99.0X	
6/04	1	24.0	94.47	100.00 X	0	0	0	99.0X	
6/05	1	24.0	90.05	100.00 X	0	0	0	99.0X	
6/06	1	24.0	94.58	100.00 X	0	0	0	99.0X	

***** CONTINUED *****

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FISH PASSAGE DATA SYSTEM

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LOWER GRANITE * * * **STEELHEAD** * * *

LD-Y-1 STEELHEAD LOT ID #: 85059-01 30,000 RELEASED AT: HELLS CANYON FROM: 4/29/85 TO 5/01/85
AGENCY: IDFG HATCHERY: NIAGARA SPRING

	SAMPLE (1)	(2)	(3)		(4)	
DATE	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...
1985	SC #D GW HG,S	FLOW	FLOW	SAMPLED	COLLECTED	DAILY COUNT CUMULATIVE

* * * * * CONTINUED * * * * *

6/07	1	24.0	100.14	100.00 %	0	0	0	99.0%
6/08	1	24.0	118.32	100.00 %	0	0	0	99.0%
6/09	1	24.0	125.75	100.00 %	0	0	0	99.0%
6/10	1	24.0	117.18	100.00 %	0	0	0	99.0%
6/11	1	24.0	96.78	100.00 %	0	0	0	99.0%
6/12	1	24.0	91.72	100.00 %	0	0	0	99.0%
6/13	1	24.0	86.61	100.00 %	1	30	30	100.0%
TOTAL					101	2,821	3,110	

(1) Sample parameters: SC = Sample quality code tD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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 * authorization and/or clearance *

LOWER GRANITE

* * *

STEELHEAD

* * *

ID-Y-2 STEELHEAD LOT ID # 85030-01 30,625 RELEASED AT: DWORSHAK NFH FROM: 4/29/85 TO 4/29/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE #	PARAMETERS		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	PASSAGE INDEX		(4) CUMULATIVE
		SC	ID	GH	HR.S			DAILY COUNT	INDEX	
5/02	1	24.0	76.90	100.00	X	11	171	171	2.4%	
5/03	1	24.0	84.31	100.00	X	70	1,140	1,140	18.1%	
5/04	1	24.0	90.93	100.00	X	79	2,760	2,760	56.3%	
5/05	1	24.0	96.67	100.00	X	31	1,030	1,030	70.6%	
5/06	1	24.0	98.30	71.68	X	14	467	652	79.6%	
5/07	1	24.0	83.08	58.69	X	9	298	508	86.6%	
5/08	1	24.0	79.40	99.38	X	2	65	65	87.5%	
5/09	1	24.0	84.55	100.00	X	6	209	209	90.4%	
5/10	1	24.0	88.95	100.00	X	1	33	33	90.9%	
5/11	1	24.0	85.12	100.00	X	6	197	197	93.6%	
5/12	1	24.0	81.66	100.00	X	0	0	0	93.6%	
5/13	1	24.0	71.40	100.00	X	0	0	0	93.6%	
5/14	1	24.0	68.33	100.00	X	4	66	66	94.5%	
5/15	1	24.0	73.11	100.00	X	4	65	65	95.4%	
5/16	1	24.0	69.12	100.00	X	2	37	37	95.9%	
5/17	1	24.0	70.26	100.00	X	2	29	29	96.3%	
5/18	1	24.0	80.46	100.00	X	2	34	34	96.8%	
5/19	1	24.0	85.35	100.00	X	1	31	31	97.2%	
5/20	1	24.0	86.69	100.00	X	1	31	31	97.7%	
5/21	1	24.0	88.86	100.00	X	1	19	19	97.9%	
5/22	1	24.0	102.10	100.00	X	1	16	16	98.2%	
5/23	1	24.0	105.58	100.00	X	0	0	0	98.2%	
5/24	1	24.0	119.68	100.00	X	0	0	0	98.2%	
5/25	1	24.0	118.95	100.00	X	0	0	0	98.2%	
5/26	1	24.0	119.48	100.00	X	0	0	0	98.2%	
5/27	1	24.0	114.33	100.00	X	0	0	0	98.2%	
5/28	1	24.0	103.24	100.00	X	1	32	32	98.6%	
5/29	1	24.0	100.04	100.00	X	1	33	33	99.1%	
5/30	1	24.0	104.67	100.00	X	1	34	34	99.5%	
5/31	1	24.0	105.50	100.00	X	0	0	0	99.5%	
6/01	1	24.0	103.06	85.28	X	0	0	0	99.5%	
6/02	1	24.0	95.13	79.71	X	0	0	0	99.5%	
6/03	1	24.0	96.01	88.79	X	0	0	0	99.5%	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE * * * STEELHEAD * * *

ID-Y-2 STEELHEAD LOT ID # 85030-01 30,625 RELEASED AT: DMORSHAK NFH FROM: 4/29/85 TO 4/29/85
 AGENCY: USFWS HATCHERY: DMORSHAK NFH

DATE 1985	PARAMETERS SC AD GW HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
		RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE				
***** CONTINUED *****								
6/04	1	24.0	94.47	100.00 %	0	0	0	99.5X
6/05	1	24.0	90.05	100.00 %	0	0	0	99.5X
6/06	1	24.0	94.58	100.00 %	0	0	0	99.5X
6/07	1	24.0	100.14	100.00 %	1	34	34	100.0X
<u>TOTAL</u>					<u>251</u>	<u>6,831</u>	<u>7,226</u>	

- (1) Sample parameters: SC = Sample quality code AD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * *

STEELHEAD

* * *

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY
 AGENCY: USFWS FROM: 4/09/85 TO 4/09/85
 HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GU--HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		...	INDEX
4/20	1	24.0	101.29	100.00 %	3	50	50 1.4%
4/21	1	24.0	96.74	100.00 %	1	32	32 2.3%
4/22	1	24.0	85.16	100.00 %	0	0	0 2.3%
4/23	1	24.0	75.90	100.00 %	2	28	28 3.0%
4/24	1	24.0	85.40	100.00 %	5	82	82 5.3%
4/25	1	24.0	79.07	100.00 %	3	34	34 6.3%
4/26	1	24.0	77.83	100.00 %	2	37	37 7.3%
4/27	1	24.0	68.46	100.00 %	0	0	0 7.3%
4/28	1	24.0	61.60	100.00 %	0	0	0 7.3%
4/29	1	24.0	62.23	100.00 %	1	17	17 7.8%
4/30	1	24.0	71.71	100.00 %	4	67	67 9.6%
5/01	1	24.0	78.58	100.00 %	3	36	36 10.6%
5/02	1	24.0	76.90	100.00 %	0	0	0 10.6%
5/03	1	24.0	84.31	100.00 %	1	16	16 11.0%
5/04	1	24.0	90.93	100.00 %	4	140	140 14.9%
5/05	1	24.0	96.67	100.00 %	1	33	33 15.8%
5/06	1	24.0	98.30	71.68 %	0	0	0 15.8%
5/07	1	24.0	83.08	58.69 %	0	0	0 15.8%
5/08	1	24.0	79.40	99.38 %	4	129	130 19.4%
5/09	1	24.0	84.55	100.00 %	2	70	70 21.4%
5/10	1	24.0	88.95	100.00 %	0	0	0 21.4%
5/11	1	24.0	85.12	100.00 %	1	33	33 22.3%
5/12	1	24.0	81.66	100.00 %	3	94	94 24.9%
5/13	1	24.0	71.40	100.00 %	0	0	0 24.9%
5/14	1	24.0	68.33	100.00 %	5	82	82 27.2%
5/15	1	24.0	73.11	100.00 %	4	65	65 29.0%
5/16	1	24.0	69.12	100.00 %	3	56	56 30.5%
5/17	1	24.0	70.26	100.00 %	4	57	57 32.1%
5/18	1	24.0	80.46	100.00 %	5	85	85 34.4%
5/19	1	24.0	85.35	100.00 %	0	0	0 34.4%
5/20	1	24.0	86.69	100.00 %	1	31	31 35.3%
5/21	1	24.0	88.86	100.00 %	1	19	19 35.8%
5/22	1	24.0	102.10	100.00 %	3	47	47 37.1%
5/23	1	24.0	105.58	100.00 %	1	40	40 38.2%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

STEELHEAD

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY FROM: 4/09/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
SC-ID-GW-HS-S						

***** C O N T I N U E D *****

5/24	1	24.0	119.68	100.00 X	1	32	32	39.1%
5/25	1	24.0	118.95	100.00 X	0	0	0	39.1%
5/26	1	24.0	119.48	100.00 X	6	196	196	44.5%
5/27	1	24.0	114.33	100.00 X	2	66	66	46.4%
5/28	1	24.0	103.24	100.00 X	5	159	159	50.8%
5/29	1	24.0	100.04	100.00 X	1	33	33	51.7%
5/30	1	24.0	104.67	100.00 X	15	517	517	66.0%
5/31	1	24.0	105.50	100.00 X	4	125	125	69.5%
6/01	1	24.0	103.06	85.28 X	2	57	67	71.3%
6/02	1	24.0	95.13	79.71 X	2	68	85	73.7%
6/03	1	24.0	96.01	88.79 X	2	64	72	75.7%
6/04	1	24.0	94.47	100.00 X	1	33	33	76.6%
6/05	1	24.0	90.05	100.00 X	2	67	67	78.4%
6/06	1	24.0	94.58	100.00 X	1	34	34	79.4%
6/07	1	24.0	100.14	100.00 X	2	68	68	81.3%
6/08	1	24.0	118.32	100.00 X	1	32	32	82.1%
6/09	1	24.0	125.75	100.00 X	5	170	170	86.8%
6/10	1	24.0	117.18	100.00 X	0	0	0	86.8%
6/11	1	24.0	96.78	100.00 X	3	91	91	89.4%
6/12	1	24.0	91.72	100.00 X	1	28	28	90.1%
6/13	1	24.0	86.61	100.00 X	1	30	30	91.0%
6/14	1	24.0	82.10	100.00 X	2	68	68	92.9%
6/15	1	24.0	76.06	100.00 X	0	0	0	92.9%
6/16	1	24.0	70.93	100.00 X	1	26	26	93.6%
6/17	1	24.0	66.99	100.00 X	1	38	38	94.6%
6/18	1	24.0	63.11	100.00 X	1	16	16	95.1%
6/19	1	24.0	62.20	100.00 X	2	32	32	96.0%
6/20	1	24.0	63.92	100.00 X	1	16	16	96.4%
6/21	1	24.0	55.40	100.00 X	3	43	43	97.6%
6/22	1	24.0	50.08	100.00 X	0	0	0	97.6%
6/23	1	24.0	53.84	100.00 X	0	0	0	97.6%
6/24	1	24.0	58.67	100.00 X	0	0	0	97.6%
6/25	1	24.0	47.62	100.00 X	0	0	0	97.6%
6/26	1	24.0	42.45	100.00 X	0	0	0	97.6%
6/27	1	24.0	48.55	100.00 X	0	0	0	97.6%
6/28	1	24.0	42.03	100.00 X	1	13	13	98.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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LOWER GRANITE

STEELHEAD

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY
 AGENCY: USFWS FROM: 4/09/85 TO 4/09/85
 HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	(4)		
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE	

***** C O N T I N U E D *****

6/29	1	24.0	40.68	100.00 X	0	0	0	98.0%
6/30	1	24.0	35.48	100.00 X	0	0	0	98.0%
7/01	1	24.0	40.66	100.00 X	0	0	0	98.0%
7/02	1	24.0	37.28	100.00 X	0	0	0	98.0%
7/03	1	24.0	40.98	100.00 X	0	0	0	98.0%
7/04	1	24.0	42.74	100.00 X	0	0	0	98.0%
7/05	1	24.0	35.89	100.00 X	1	10	10	98.2%
7/06	1	24.0	20.55	100.00 X	1	12	12	98.6%
7/07	1	24.0	30.05	100.00 X	2	19	19	99.1%
7/08	1	24.0	38.16	100.00 X	0	0	0	99.1%
7/09	1	24.0	33.20	100.00 X	0	0	0	99.1%
7/10	1	24.0	27.93	100.00 X	0	0	0	99.1%
7/11	1	24.0	32.93	100.00 X	0	0	0	99.1%
7/12	1	24.0	30.35	100.00 X	0	0	0	99.1%
7/13	1	24.0	32.66	100.00 X	0	0	0	99.1%
7/14	1	24.0	23.79	100.00 X	0	0	0	99.1%
7/15	1	24.0	17.58	100.00 X	0	0	0	99.1%
7/16	1	24.0	19.88	100.00 X	0	0	0	99.1%
7/17	1	24.0	20.51	100.00 X	0	0	0	99.1%
7/18	1	24.0	25.32	100.00 X	1	12	12	99.4%
7/19	1	24.0	28.26	100.00 X	1	10	10	99.7%
7/20	1	24.0	28.22	100.00 X	0	0	0	99.7%
7/21	1	24.0	20.53	100.00 X	1	11	11	100.0%
TOTAL					143	3,576	3,612	

- (1) Sample parameters: SC = Sample quality code tD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - LDR
- (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * *

STEELHEAD

* * *

RD-Y -3 STEELHEAD LOT ID # 85034-01 31,775 RELEASED AT: E F SALMON R FROM: 4/17/85 TO 4/17/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/02	1	24.0	76.90	100.00 X	1	16	0.6%
5/03	1	24.0	84.31	100.00 X	3	49	2.6%
5/04	1	24.0	90.93	100.00 X	0	0	2.6%
5/05	1	24.0	96.67	100.00 X	2	66	5.2%
5/06	1	24.0	98.30	71.68 X	0	0	5.2%
5/07	1	24.0	83.08	58.69 X	0	0	5.2%
5/08	1	24.0	79.40	99.38 X	3	97	9.1%
5/09	1	24.0	84.55	100.00 X	1	35	10.5%
5/10	1	24.0	88.95	100.00 X	3	99	14.5%
5/11	1	24.0	85.12	100.00 X	3	99	18.4%
5/12	1	24.0	81.66	100.00 X	1	31	19.6%
5/13	1	24.0	71.40	100.00 X	0	0	19.6%
5/14	1	24.0	68.33	100.00 X	4	66	22.3%
5/15	1	24.0	73.11	100.00 X	1	16	22.9%
5/16	1	24.0	69.12	100.00 X	4	75	25.9%
5/17	1	24.0	70.26	100.00 X	2	29	27.1%
5/18	1	24.0	80.46	100.00 X	2	34	28.4%
5/19	1	24.0	85.35	100.00 X	2	61	30.8%
5/20	1	24.0	86.69	100.00 X	0	0	30.8%
5/21	1	24.0	88.86	100.00 X	5	93	34.5%
5/22	1	24.0	102.10	100.00 X	2	31	35.8%
5/23	1	24.0	105.58	100.00 X	1	40	37.4%
5/24	1	24.0	119.68	100.00 X	1	32	38.6%
5/25	1	24.0	118.95	100.00 X	1	36	40.1%
5/26	1	24.0	119.48	100.00 X	3	98	44.0%
5/27	1	24.0	114.33	100.00 X	1	33	45.3%
5/28	1	24.0	103.24	100.00 X	7	222	54.1%
5/29	1	24.0	100.04	100.00 X	2	67	56.8%
5/30	1	24.0	104.67	100.00 X	5	172	63.7%
5/31	1	24.0	105.50	100.00 X	3	93	67.4%
6/01	1	24.0	103.06	85.28 X	7	199	76.7%
6/02	1	24.0	95.13	79.71 X	1	34	78.4%
6/03	1	24.0	96.01	88.79 X	3	96	82.7%
6/04	1	24.0	94.47	100.00 X	1	33	84.0%

***** CONTINUED *****

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LOWER GRANITE

* * *

STEELHEAD

* * *

RID-Y-3 STEELHEAD LOT ID # 85034-01 31,775 RELEASED AT: E F SALMON R FROM: 4/17/85 TO 4/17/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC-ID-GW-HB-S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

6/05	1	24.0	90.05	100.00 X	1	33	33	85.3%
6/06	1	24.0	94.58	100.00 X	2	68	68	88.0%
6/07	1	24.0	100.14	100.00 X	1	34	34	89.4%
6/08	1	24.0	118.32	100.00 X	0	0	0	89.4%
6/09	1	24.0	125.75	100.00 X	3	102	102	93.4%
6/10	1	24.0	117.18	100.00 X	0	0	0	93.4%
6/11	1	24.0	96.78	100.00 X	1	30	30	94.6%
6/12	1	24.0	91.72	100.00 X	0	0	0	94.6%
6/13	1	24.0	86.61	100.00 X	0	0	0	94.6%
6/14	1	24.0	82.10	100.00 X	1	34	34	96.0%
6/15	1	24.0	76.06	100.00 X	1	36	36	97.4%
6/16	1	24.0	70.93	100.00 X	0	0	0	97.4%
6/17	1	24.0	66.99	100.00 X	0	0	0	97.4%
6/18	1	24.0	63.11	100.00 X	0	0	0	97.4%
6/19	1	24.0	62.20	100.00 X	0	0	0	97.4%
6/20	1	24.0	63.92	100.00 X	0	0	0	97.4%
6/21	1	24.0	55.40	100.00 X	1	14	14	98.0%
6/22	1	24.0	50.08	100.00 X	1	11	11	98.4%
6/23	1	24.0	53.84	100.00 X	0	0	0	98.4%
6/24	1	24.0	58.67	100.00 X	0	0	0	98.4%
6/25	1	24.0	47.62	100.00 X	0	0	0	98.4%
6/26	1	24.0	42.45	100.00 X	0	0	0	98.4%
6/27	1	24.0	48.55	100.00 X	0	0	0	98.4%
6/28	1	24.0	42.03	100.00 X	0	0	0	98.4%
6/29	1	24.0	40.68	100.00 X	0	0	0	98.4%
6/30	1	24.0	35.48	100.00 X	1	11	11	98.8%
7/01	1	24.0	40.66	100.00 X	0	0	0	98.8%
7/02	1	24.0	37.28	100.00 X	0	0	0	98.8%
7/03	1	24.0	40.98	100.00 X	0	0	0	98.8%
7/04	1	24.0	42.74	100.00 X	0	0	0	98.8%
7/05	1	24.0	35.89	100.00 X	2	20	20	99.6%
7/06	1	24.0	20.55	100.00 X	0	0	0	99.6%
7/07	1	24.0	30.05	100.00 X	1	9	9	100.0%

***** C O N T I N U E D *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE * * * STEELHEAD * * *

RD-Y -3 STEELHEAD LOT ID # 85034-01 31,775 RELEASED AT: E F SALMON R FROM: 4/17/85 TO 4/17/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE	SAMPLE (1) .. PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
1985	SC=4D GW=HR.S						

***** C O N T I N U E D *****

TOTAL	91	2,454	2,510
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- (1) Sample parameters: SC = Sample quality code 4D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * * STEELHEAD * * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			
5/09	1	24.0	84.55	100.00 X	2	70	0.6X
5/10	1	24.0	88.95	100.00 X	0	0	0.6X
5/11	1	24.0	85.12	100.00 X	0	0	0.6X
5/12	1	24.0	81.66	100.00 X	0	0	0.6X
5/13	1	24.0	71.40	100.00 X	1	34	0.9X
5/14	1	24.0	68.33	100.00 X	21	345	3.7X
5/15	1	24.0	73.11	100.00 X	17	276	6.0X
5/16	1	24.0	69.12	100.00 X	25	467	9.8X
5/17	1	24.0	70.26	100.00 X	47	673	15.4X
5/18	1	24.0	80.46	100.00 X	58	987	23.5X
5/19	1	24.0	85.35	100.00 X	23	703	29.3X
5/20	1	24.0	86.69	100.00 X	23	724	35.2X
5/21	1	24.0	88.86	100.00 X	61	1,138	44.6X
5/22	1	24.0	102.10	100.00 X	79	1,238	54.8X
5/23	1	24.0	105.58	100.00 X	35	1,399	66.3X
5/24	1	24.0	119.68	100.00 X	18	577	71.1X
5/25	1	24.0	118.95	100.00 X	18	644	76.4X
5/26	1	24.0	119.48	100.00 X	16	521	80.7X
5/27	1	24.0	114.33	100.00 X	18	594	85.6X
5/28	1	24.0	103.24	100.00 X	17	540	90.0X
5/29	1	24.0	100.04	100.00 X	5	167	91.4X
5/30	1	24.0	104.67	100.00 X	6	207	93.1X
5/31	1	24.0	105.50	100.00 X	8	249	95.1X
6/01	1	24.0	103.06	85.28 X	3	85	96.0X
6/02	1	24.0	95.13	79.71 X	2	48	96.7X
6/03	1	24.0	96.01	88.79 X	0	0	96.7X
6/04	1	24.0	94.47	100.00 X	0	0	96.7X
6/05	1	24.0	90.05	100.00 X	1	33	96.9X
6/06	1	24.0	94.58	100.00 X	4	135	98.1X
6/07	1	24.0	100.14	100.00 X	0	0	98.1X
6/08	1	24.0	118.32	100.00 X	0	0	98.1X
6/09	1	24.0	125.75	100.00 X	1	34	98.3X
6/10	1	24.0	117.18	100.00 X	0	0	98.3X
6/11	1	24.0	96.78	100.00 X	0	0	98.3X
6/12	1	24.0	91.72	100.00 X	0	0	98.3X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * *

STEELHEAD

* * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE
SC-ID-GW-HRS							

***** CONTINUED *****

6/13	1	24.0	86.61	100.00 %	0	0	0	98.3%
6/14	1	24.0	82.10	100.00 %	1	34	34	98.6%
6/15	1	24.0	76.06	100.00 %	2	72	72	99.2%
6/16	1	24.0	70.93	100.00 %	1	26	26	99.4%
6/17	1	24.0	66.99	100.00 %	0	0	0	99.4%
6/18	1	24.0	63.11	100.00 %	0	0	0	99.4%
6/19	1	24.0	62.20	100.00 %	2	32	32	99.7%
6/20	1	24.0	63.92	100.00 %	1	16	16	99.8%
6/21	1	24.0	55.40	100.00 %	0	0	0	99.8%
6/22	1	24.0	50.08	100.00 %	0	0	0	99.8%
6/23	1	24.0	53.84	100.00 %	0	0	0	99.8%
6/24	1	24.0	58.67	100.00 %	0	0	0	99.8%
6/25	1	24.0	47.62	100.00 %	0	0	0	99.8%
6/26	1	24.0	42.45	100.00 %	1	11	11	99.9%
6/27	1	24.0	48.55	100.00 %	0	0	0	99.9%
6/28	1	24.0	42.03	100.00 %	0	0	0	99.9%
6/29	1	24.0	40.68	100.00 %	0	0	0	99.9%
6/30	1	24.0	35.48	100.00 %	0	0	0	99.9%
7/01	1	24.0	40.66	100.00 %	0	0	0	99.9%
7/02	1	24.0	37.28	100.00 %	0	0	0	99.9%
7/03	1	24.0	40.98	100.00 %	0	0	0	99.9%
7/04	1	24.0	42.74	100.00 %	0	0	0	99.9%
7/05	1	24.0	35.89	100.00 %	0	0	0	99.9%
7/06	1	24.0	20.55	100.00 %	0	0	0	99.9%
7/07	1	24.0	30.05	100.00 %	0	0	0	99.9%
7/08	1	24.0	38.16	100.00 %	0	0	0	99.9%
7/09	1	24.0	33.20	100.00 %	0	0	0	99.9%
7/10	1	24.0	27.93	100.00 %	1	11	11	100.0%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * *

STEELHEAD

* * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE	SAMPLE (1) .. PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
1985	SC #D GW HR.S						

***** C O N T I N U E D *****

TOTAL	518	12,110	12,142
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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LOWER GRANITE

* * *

STEELHEAD

* * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW		DAILY COUNT		
5/08	1	24.0	79.40	99.38 X	1	32	32	0.3X
5/09	1	24.0	84.55	100.00 X	0	0	0	0.3X
5/10	1	24.0	88.95	100.00 X	0	0	0	0.3X
5/11	1	24.0	85.12	100.00 X	0	0	0	0.3X
5/12	1	24.0	81.66	100.00 X	0	0	0	0.3X
5/13	1	24.0	71.40	100.00 X	4	136	136	1.4X
5/14	1	24.0	68.33	100.00 X	21	345	345	4.3X
5/15	1	24.0	73.11	100.00 X	24	390	390	7.5X
5/16	1	24.0	69.12	100.00 X	30	560	560	12.1X
5/17	1	24.0	70.26	100.00 X	55	788	788	18.7X
5/18	1	24.0	80.46	100.00 X	67	1,140	1,140	28.1X
5/19	1	24.0	85.35	100.00 X	34	1,039	1,039	36.7X
5/20	1	24.0	86.69	100.00 X	27	850	850	43.8X
5/21	1	24.0	88.86	100.00 X	45	840	840	50.7X
5/22	1	24.0	102.10	100.00 X	82	1,285	1,285	61.4X
5/23	1	24.0	105.58	100.00 X	24	959	959	69.3X
5/24	1	24.0	119.68	100.00 X	25	802	802	76.0X
5/25	1	24.0	118.95	100.00 X	22	787	787	82.5X
5/26	1	24.0	119.48	100.00 X	17	554	554	87.1X
5/27	1	24.0	114.33	100.00 X	4	132	132	88.2X
5/28	1	24.0	103.24	100.00 X	15	476	476	92.1X
5/29	1	24.0	100.04	100.00 X	4	133	133	93.2X
5/30	1	24.0	104.67	100.00 X	4	138	138	94.4X
5/31	1	24.0	105.50	100.00 X	4	125	125	95.4X
6/01	1	24.0	103.06	85.28 X	1	28	33	95.7X
6/02	1	24.0	95.13	79.71 X	4	137	172	97.1X
6/03	1	24.0	96.01	88.79 X	1	32	36	97.4X
6/04	1	24.0	94.47	100.00 X	0	0	0	97.4X
6/05	1	24.0	90.05	100.00 X	0	0	0	97.4X
6/06	1	24.0	94.58	100.00 X	2	68	68	98.0X
6/07	1	24.0	100.14	100.00 X	1	34	34	98.2X
6/08	1	24.0	118.32	100.00 X	1	32	32	98.5X
6/09	1	24.0	125.75	100.00 X	0	0	0	98.5X
6/10	1	24.0	117.18	100.00 X	0	0	0	98.5X
6/11	1	24.0	96.78	100.00 X	2	61	61	99.0X

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE * * * STEELHEAD * * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1) .. PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE	
	SC-ID-GW-HRS							
6/12	1	24.0	91.72	100.00 X	0	0	0	99.0%
6/13	1	24.0	86.61	100.00 X	0	0	0	99.0%
6/14	1	24.0	82.10	100.00 X	0	0	0	99.0%
6/15	1	24.0	76.06	100.00 X	3	108	108	99.9%
6/16	1	24.0	70.93	100.00 X	0	0	0	99.9%
6/17	1	24.0	66.99	100.00 X	0	0	0	99.9%
6/18	1	24.0	63.11	100.00 X	0	0	0	99.9%
6/19	1	24.0	62.20	100.00 X	0	0	0	99.9%
6/20	1	24.0	63.92	100.00 X	0	0	0	99.9%
6/21	1	24.0	55.40	100.00 X	0	0	0	99.9%
6/22	1	24.0	50.08	100.00 X	1	11	11	100.0%
TOTAL				525	12,022	12,066		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE

* * * CHINOOK O'S * * *

LD-R-4 FA CHINOOK LOT ID # 85035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-#D-GW-HR,S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				INDEX
6/07	1	24.0	100.14	100.00 X	4	137	137	2.0%
6/08	1	24.0	118.32	100.00 X	15	487	487	8.9%
6/09	1	24.0	125.75	100.00 X	13	441	441	15.2%
6/10	1	24.0	117.18	100.00 X	9	350	350	20.2%
6/11	1	24.0	96.78	100.00 X	8	244	244	23.7%
6/12	1	24.0	91.72	100.00 X	7	198	198	26.5%
6/13	1	24.0	86.61	100.00 X	2	61	61	27.4%
6/14	1	24.0	82.10	100.00 X	11	375	375	32.7%
6/15	1	24.0	76.06	100.00 X	1	36	36	33.3%
6/16	1	24.0	70.93	100.00 X	4	106	106	34.8%
6/17	1	24.0	66.99	100.00 X	2	76	76	35.9%
6/18	1	24.0	63.11	100.00 X	9	147	147	38.0%
6/19	1	24.0	62.20	100.00 X	2	32	32	38.4%
6/20	1	24.0	63.92	100.00 X	9	145	145	40.5%
6/21	1	24.0	55.40	100.00 X	16	228	228	43.7%
6/22	1	24.0	50.08	100.00 X	32	341	341	48.6%
6/23	1	24.0	53.84	100.00 X	40	429	429	54.7%
6/24	1	24.0	58.67	100.00 X	30	380	380	60.2%
6/25	1	24.0	47.62	100.00 X	14	150	150	62.3%
6/26	1	24.0	42.45	100.00 X	13	142	142	64.3%
6/27	1	24.0	48.55	100.00 X	9	103	103	65.8%
6/28	1	24.0	42.03	100.00 X	12	153	153	68.0%
6/29	1	24.0	40.68	100.00 X	6	51	51	68.7%
6/30	1	24.0	35.48	100.00 X	5	56	56	69.5%
7/01	1	24.0	40.66	100.00 X	7	83	83	70.7%
7/02	1	24.0	37.28	100.00 X	6	71	71	71.7%
7/03	1	24.0	40.98	100.00 X	13	162	162	74.0%
7/04	1	24.0	42.74	100.00 X	16	184	184	76.7%
7/05	1	24.0	35.89	100.00 X	3	30	30	77.1%
7/06	1	24.0	20.55	100.00 X	6	73	73	78.1%
7/07	1	24.0	30.05	100.00 X	11	104	104	79.6%
7/08	1	24.0	38.16	100.00 X	23	295	295	83.8%
7/09	1	24.0	33.20	100.00 X	38	445	445	90.2%
7/10	1	24.0	27.93	100.00 X	20	214	214	93.2%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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LOWER GRANITE * * * CHINOOK 0'S * * *

LD-R -4 FA CHINOOK LOT ID # 85035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
	.. ID .. GW .. HR.S						DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

7/11	1	24.0	32.93	100.00 %	11	150	150	95.4%
7/12	1	24.0	30.35	100.00 %	11	99	99	96.8%
7/13	1	24.0	32.66	100.00 %	3	37	37	97.3%
7/14	1	24.0	23.79	100.00 %	3	29	29	97.7%
7/15	1	24.0	17.58	100.00 %	0	0	0	97.7%
7/16	1	24.0	19.88	100.00 %	1	12	12	97.9%
7/17	1	24.0	20.51	100.00 %	1	12	12	98.1%
7/18	1	24.0	25.32	100.00 %	5	61	61	99.0%
7/19	1	24.0	28.26	100.00 %	3	30	30	99.4%
7/20	1	24.0	28.22	100.00 %	1	11	11	99.5%
7/21	1	24.0	20.53	100.00 %	1	11	11	99.7%
7/22	1	24.0	15.30	100.00 %	1	10	10	99.8%
7/23	1	24.0	18.06	100.00 %	1	11	11	100.0%
TOTAL					458	7,002	7,002	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - LGR
 (3) Index Flow: ** POWERHOUSE / (POWERHOUSE + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

B. Lower Monumental Dam

Contractor: National Marine Fisheries Service

Project Leader: Richard Johnsen (503-739-2303)

Location: Snake River, River Mile 41.6, 365.6 miles to mouth
of Columbia River.

Monitoring Dates: May 23 - July 09, 1985

Sampling Method: Fish were sampled with a gatewell dipnet fished in the bulkhead gate slot. Complete cleanout of the gatewell was not possible and thus the counts are relative; this is discussed further in the NMFS report. Unit 2 was sampled from May 23 through June 17. Unit 2 went out of service on June 16 and samples from June 20 through July 9 were obtained from Unit 3. Incomplete samples were obtained during the startup of sampling for units 2 and 3 because of the time required to cleanout the gatewells. Samples were not taken on weekends. Additional information on the sampling procedures at Lower Monumental Dam is presented in the NMFS annual report (Johnsen and Ranck, 1985).

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L. MONUMENTAL * * * CHINOOK 1'S * * *

LA-K -3 CHINOOK LOT ID # 85250-11 1,492 RELEASED AT: BELOW WAT BIRD FROM: 4/14/85 TO 4/16/85
 AGENCY: IDFG HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW		DAILY COUNT	CUMULATIVE	
5/27	7	2 7.0	125.20	—	1 *	1 *	— *	
<u>TOTAL</u>					1	1	0	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gateways sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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L. MONUMENTAL * * * CHINOOK 1'S * * *

LA-K-4 CHINOOK LOT ID # 85250-12 828 RELEASED AT: BELOW WHT BIRD FROM: 4/17/85 TO 4/19/85
 AGENCY: IDFG HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...			(4) CUMULATIVE
	SC	PARAMETERS	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE		
5/27	7	2 7.0	125.20	—	2 *	2 *	—	*		
TOTAL					2	2		0		

(1) Sample parameters: SC = Sample quality code JD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled

(2) River Flow: Data acquired from CATCH DATA

(3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE

(4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

(*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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L. MONUMENTAL * * * CHINOOK 1'S * * *

LD-R -1 SP CHINOOK LOT ID # 85052-01 34,225 RELEASED AT: RAPID RIVER H FROM: 3/31/85 TO 4/10/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE (1)			(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
	SC	ID	GW					DAILY COUNT	CUMULATIVE	
5/27	7	2	7.0	125.20	—	1 *	1 *	—	*	
5/28	1	3	6.0	106.30	—	1	1	—	—	
TOTAL						2	2		0	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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L. MONUMENTAL

* * * CHINOOK 1'S * * *

LHR -4 FA CHINOOK LOT ID # 85035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
6/25	1	3	7.0	44.60	—	1	1	—	
6/26	1	3	7.5	55.50	—	0	0	—	0.0%
6/27	1	3	7.5	40.80	—	0	0	—	0.0%
6/28	7	3	0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3	7.5	37.90	—	3	3	—	
6/30	0	0.0	— **	— **	—	—	—	—	0.0%
7/01	0	0.0	— **	— **	—	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	0	0	—	0.0%
7/03	1	3	7.5	48.80	—	1	1	—	
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	0	0	—	0.0%
7/06	0	0.0	— **	— **	—	—	—	—	0.0%
7/07	0	0.0	— **	— **	—	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	6	6	—	
7/09	1	3	7.0	43.80	—	2	2	—	
INITIAL					13	13	0		

- (1) Sample parameters: SC = Sample quality code JD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

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L. MONUMENTAL * * * CHINOOK 1'S * * *

RD-R -1 SP CHINOOK LOT ID # 85055-01 39,875 RELEASED AT: SAWTOOTH H FROM: 3/25/85 TO 3/29/85
 AGENCY: IDFG HATCHERY: SAWTOOTH H

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	(4)	
	SC	PARAMETERS ..	RIVER FLOW	INDEX FLOW		... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/27	7	2	7.0	125.20	1 *	1 *	— *
TOTAL					1	1	0

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

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L. MONUMENTAL * * * CHINOOK 1'S * * *

RD-R -2 SP CHINOOK LOT ID # 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER SC—#D—GW—HR.S	FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/27	7	2	7.0	125.20	—	1 *	1 *	— *
5/28	1	3	6.0	106.30	—	1	1	—
TOTAL						2	2	0

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (***) Data not available Catch Master data file

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L. MONUMENTAL * * * STEELHEAD * * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	.. PARAMETERS ..	SC--#I--GW--HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
5/23	7	1	5.0	106.60	—	29 *	— *
5/24	7	1	6.0	111.70	—	21 *	— *
5/25	0	0.0	— **	— **	—	—	0.0%
5/26	0	0.0	— **	— **	—	—	0.0%
5/27	7	2	7.0	125.20	—	102 *	102 *
5/28	1	3	6.0	106.30	—	113	113
5/29	1	3	6.5	108.80	—	63	63
5/30	1	3	6.5	108.40	—	20	20
5/31	1	3	7.0	112.90	—	25	25
6/01	0	0.0	— **	— **	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	0.0%
6/03	1	3	7.0	104.70	—	18	18
6/04	1	3	7.0	79.00	—	16	16
6/05	1	3	7.0	79.00	—	5	5
6/06	1	3	7.0	94.40	—	6	6
6/07	1	3	7.0	121.30	—	5	5
6/08	0	0.0	— **	— **	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	0.0%
6/10	1	3	7.0	60.00	—	19	19
6/11	1	3	7.0	64.40	—	6	6
6/12	1	3	7.0	96.40	—	1	1
6/13	1	3	7.0	96.50	—	3	3
6/14	1	3	7.0	89.20	—	2	2
6/15	0	0.0	— **	— **	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *
6/18	0	0.0	— **	— **	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *
6/20	7	2	7.5	48.40	—	4 *	4 *
6/21	7	3	0.5	67.00	—	1 *	1 *
6/22	0	0.0	— **	— **	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	0.0%
6/24	1	3	7.5	55.90	—	8	8
6/25	1	3	7.0	44.60	—	1	1
6/26	1	3	7.5	55.50	—	0	0
6/27	1	3	7.5	40.80	—	4	—

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	.. PARAMETERS ..	SC	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...
	1D	GW	HRS			DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/28	7	3	0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3	7.5	37.90	—	3	3	—	
6/30		0	0.0	— **	— **	—	—	—	0.0%
7/01		0	0.0	— **	— **	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	3	3	—	
7/03	1	3	7.5	48.80	—	0	0	—	0.0%
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	0	0	—	0.0%
7/06		0	0.0	— **	— **	—	—	—	0.0%
7/07		0	0.0	— **	— **	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	4	4	—	
TOTAL						482	482	0	

- (1) Sample parameters: SC = Sample quality code 1D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-H-2 SU STEELHEAD LOT ID # 85158-03 28,373 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	SC	SD	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
5/23	7	1	5.0	106.60	—	12 *	— *
5/24	7	1	6.0	111.70	—	14 *	— *
5/25	0	0.0	— **	— **	—	—	0.0%
5/26	0	0.0	— **	— **	—	—	0.0%
5/27	7	2	7.0	125.20	—	67 *	67 *
5/28	1	3	6.0	106.30	—	67	67
5/29	1	3	6.5	108.80	—	60	60
5/30	1	3	6.5	108.40	—	36	36
5/31	1	3	7.0	112.90	—	30	30
6/01	0	0.0	— **	— **	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	0.0%
6/03	1	3	7.0	104.70	—	25	25
6/04	1	3	7.0	79.00	—	18	18
6/05	1	3	7.0	79.00	—	5	5
6/06	1	3	7.0	94.40	—	11	11
6/07	1	3	7.0	121.30	—	8	8
6/08	0	0.0	— **	— **	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	0.0%
6/10	1	3	7.0	60.00	—	27	27
6/11	1	3	7.0	64.40	—	9	9
6/12	1	3	7.0	96.40	—	4	4
6/13	1	3	7.0	96.50	—	6	6
6/14	1	3	7.0	89.20	—	5	5
6/15	0	0.0	— **	— **	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *
6/18	0	0.0	— **	— **	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *
6/20	7	2	7.5	48.40	—	8 *	8 *
6/21	7	3	0.5	67.00	—	6 *	6 *
6/22	0	0.0	— **	— **	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	0.0%
6/24	1	3	7.5	55.90	—	10	10
6/25	1	3	7.0	44.60	—	11	11
6/26	1	3	7.5	55.50	—	5	5
6/27	1	3	7.5	40.80	—	8	—

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-H -2 SU STEELHEAD LOT ID # 85158-03 28,373 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER NUMBER COLLECTED	(4)			
		SC	ID	GW		RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
***** CONTINUED *****									
6/28	7	3	0.5	43.00	—	—	2 *	2 *	— *
6/29	1	3	7.5	37.90	—	—	4	4	—
6/30	0	0.0	— **	— **	—	—	—	—	0.0%
7/01	0	0.0	— **	— **	—	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	—	2	2	—
7/03	1	3	7.5	48.80	—	—	5	5	—
7/04	7	3	0.5	51.00	—	—	1 *	1 *	— *
7/05	1	3	7.5	31.60	—	—	1	1	—
7/06	0	0.0	— **	— **	—	—	—	—	0.0%
7/07	0	0.0	— **	— **	—	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	—	7	7	—
7/09	1	3	7.0	43.80	—	—	6	6	—
TOTAL					480	480		0	

- (1) Sample parameters: SC = Sample quality code $\#D$ = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the $(\text{number collected}) / (100 * \text{percent index flow})$
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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L. MONUMENTAL

* * *

STEELHEAD

* * *

RD-H -1 SU STEELHEAD LOT ID # 85158-02

22,394 RELEASED AT: LYONS FERRY

FROM: 5/05/85 TO 5/16/85

AGENCY: WDG

HATCHERY: LYONS FERRY

DATE 1985	SAMPLE SC--#D--GU--HS	(1) PARAMETERS	(2) RIVER FLOW	(3) INDEX ELBOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
							DAILY COUNT	CUMULATIVE	
5/23	7	1	5.0	106.60	—	20 *	20 *	— *	
5/24	7	1	6.0	111.70	—	9 *	9 *	— *	
5/25	0	0.0	— **	— **	—	—	—	—	0.0%
5/26	0	0.0	— **	— **	—	—	—	—	0.0%
5/27	7	2	7.0	125.20	—	54 *	54 *	— *	
5/28	1	3	6.0	106.30	—	53	53	—	
5/29	1	3	6.5	108.80	—	23	23	—	
5/30	1	3	6.5	108.40	—	18	18	—	
5/31	1	3	7.0	112.90	—	13	13	—	
6/01	0	0.0	— **	— **	—	—	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	5	5	—	
6/04	1	3	7.0	79.00	—	8	8	—	
6/05	1	3	7.0	79.00	—	4	4	—	
6/06	1	3	7.0	94.40	—	1	1	—	
6/07	1	3	7.0	121.30	—	1	1	—	
6/08	0	0.0	— **	— **	—	—	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	6	6	—	
6/11	1	3	7.0	64.40	—	5	5	—	
6/12	1	3	7.0	96.40	—	2	2	—	
6/13	1	3	7.0	96.50	—	1	1	—	
6/14	1	3	7.0	89.20	—	3	3	—	
6/15	0	0.0	— **	— **	—	—	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	1 *	1 *	— *	
6/18	0	0.0	— **	— **	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	— *	
6/20	7	2	7.5	48.40	—	2 *	2 *	— *	
6/21	7	3	0.5	67.00	—	1 *	1 *	— *	
6/22	0	0.0	— **	— **	—	—	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	4	4	—	
6/25	1	3	7.0	44.60	—	0	0	—	
6/26	1	3	7.5	55.50	—	3	3	—	
6/27	1	3	7.5	40.80	—	1	1	—	

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L. MONUMENTAL

* * *

STEELHEAD

* * *

RD-H-1 SU STEELHEAD LOT ID # 85158-02 22,394 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC AD GW HB S	(1) RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE		

***** CONTINUED *****

6/28	7	3	0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3	7.5	37.90	—	0	0	—	0.0%
6/30	0	0.0	— **	— **	—	—	—	—	0.0%
7/01	0	0.0	— **	— **	—	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	6	6	—	—
7/03	1	3	7.5	48.80	—	1	1	—	—
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	0	0	—	0.0%
7/06	0	0.0	— **	— **	—	—	—	—	0.0%
7/07	0	0.0	— **	— **	—	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	2	2	—	—
7/09	1	3	7.0	43.80	—	1	1	—	—
TOTAL					248	248	0		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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L. MONUMENTAL

STEELHEAD

RD-H -2 SU STEELHEAD LOT ID # 85158-04

25,540 RELEASED AT: LYONS FERRY

FROM: 5/05/85 TO 5/16/85

AGENCY: WDG

HATCHERY: LYONS FERRY

DATE 1285	SAMPLE (1)			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...			(4) 0.0X
	SC	ID	GW					DAILY COUNT	CUMULATIVE		
5/23	7	1	5.0	106.60	—	7 *	7 *	—	—	— *	
5/24	7	1	6.0	111.70	—	10 *	10 *	—	—	— *	
5/25	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
5/26	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
5/27	7	2	7.0	125.20	—	47 *	47 *	—	—	— *	
5/28	1	3	6.0	106.30	—	77	77	—	—	—	
5/29	1	3	6.5	108.80	—	45	45	—	—	—	
5/30	1	3	6.5	108.40	—	21	21	—	—	—	
5/31	1	3	7.0	112.90	—	27	27	—	—	—	
6/01	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/02	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/03	1	3	7.0	104.70	—	20	20	—	—	—	
6/04	1	3	7.0	79.00	—	23	23	—	—	—	
6/05	1	3	7.0	79.00	—	8	8	—	—	—	
6/06	1	3	7.0	94.40	—	10	10	—	—	—	
6/07	1	3	7.0	121.30	—	10	10	—	—	—	
6/08	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/09	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/10	1	3	7.0	60.00	—	13	13	—	—	—	
6/11	1	3	7.0	64.40	—	6	6	—	—	—	
6/12	1	3	7.0	96.40	—	8	8	—	—	—	
6/13	1	3	7.0	96.50	—	5	5	—	—	—	
6/14	1	3	7.0	89.20	—	4	4	—	—	—	
6/15	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/16	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/17	7	3	1.0	75.00	—	1 *	1 *	—	—	—	
6/18	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/19	7	0	2.0	62.00	—	— *	— *	—	—	—	0.0X
6/20	7	2	7.5	48.40	—	15 *	15 *	—	—	—	
6/21	7	3	0.5	67.00	—	5 *	5 *	—	—	—	
6/22	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/23	0	0.0	—	— **	— **	—	—	—	—	—	0.0X
6/24	1	3	7.5	55.90	—	17	17	—	—	—	
6/25	1	3	7.0	44.60	—	6	6	—	—	—	
6/26	1	3	7.5	55.50	—	0	0	—	—	—	0.0X
6/27	1	3	7.5	40.80	—	5	5	—	—	—	

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L. MONUMENTAL

* * *

STEELHEAD

* * *

RD-H -2 SU STEELHEAD LOT ID # 85158-04 25,540 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1) .. PARAMETERS .. SC--#D--GW--HRS	(2) RIVER FLOW	(3)		NUMBER SAMPLLED	NUMBER COLLECTED	(4)		
			INDEX FLOW	NUMBER SAMPLLED			... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE	

***** C O N T I N U E D *****

6/28	7	3 0.5	43.00	—	0 *	0 *	— *	0.0X
6/29	1	3 7.5	37.90	—	0	0	—	0.0X
6/30	0	0 0.0	— **	— **	—	—	—	0.0X
7/01	0	0 0.0	— **	— **	—	—	—	0.0X
7/02	1	3 7.5	45.80	—	4	4	—	
7/03	1	3 7.5	48.80	—	4	4	—	
7/04	7	3 0.5	51.00	—	0 *	0 *	— *	0.0X
7/05	1	3 7.5	31.60	—	1	1	—	
7/06	0	0 0.0	— **	— **	—	—	—	0.0X
7/07	0	0 0.0	— **	— **	—	—	—	0.0X
7/08	1	3 7.5	46.50	—	10	10	—	
7/09	1	3 7.0	43.80	—	1	1	—	
TOTAL					410	410	0	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

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L. MONUMENTAL * * * STEELHEAD * * *

LA-K-4 STEELHEAD LOT ID # 85251-12 156 RELEASED AT: BELOW WHT BIRD FROM: 4/17/85 TO 4/19/85
 AGENCY: IDFG HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	(4)			
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
5/27	7	2	7.0	125.20	—	1 *	1 *	— *
TOTAL						1	1	0

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

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L. MONUMENTAL

* * *

STEELHEAD

* * *

LA-S-1 SU STEELHEAD LOT ID # 85157-01 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	(3)		... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
	SC	ID			GW	HS	SAMPLED	NUMBER COLLECTED	
5/23	?	1	5.0	106.60	—	—	2 *	2 *	— *
5/24	?	1	6.0	111.70	—	—	0 *	0 *	— * 0.0%
5/25	0	0.0	— **	— **	—	—	—	—	— 0.0%
5/26	0	0.0	— **	— **	—	—	—	—	— 0.0%
5/27	?	2	7.0	125.20	—	—	15 *	15 *	— *
5/28	1	3	6.0	106.30	—	—	23	23	—
5/29	1	3	6.5	108.80	—	—	25	25	—
5/30	1	3	6.5	108.40	—	—	24	24	—
5/31	1	3	7.0	112.90	—	—	19	19	—
6/01	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/02	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/03	1	3	7.0	104.70	—	—	18	18	—
6/04	1	3	7.0	79.00	—	—	19	19	—
6/05	1	3	7.0	79.00	—	—	20	20	—
6/06	1	3	7.0	94.40	—	—	45	45	—
6/07	1	3	7.0	121.30	—	—	25	25	—
6/08	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/09	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/10	1	3	7.0	60.00	—	—	38	38	—
6/11	1	3	7.0	64.40	—	—	14	14	—
6/12	1	3	7.0	96.40	—	—	10	10	—
6/13	1	3	7.0	96.50	—	—	12	12	—
6/14	1	3	7.0	89.20	—	—	6	6	—
6/15	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/16	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/17	?	3	1.0	75.00	—	—	3 *	3 *	— *
6/18	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/19	?	0	2.0	62.00	—	—	— *	— *	— *
6/20	?	2	7.5	48.40	—	—	10 *	10 *	— *
6/21	?	3	0.5	67.00	—	—	3 *	3 *	— *
6/22	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/23	0	0.0	— **	— **	—	—	—	—	— 0.0%
6/24	1	3	7.5	55.90	—	—	9	9	—
6/25	1	3	7.0	44.60	—	—	5	5	—
6/26	1	3	7.5	55.50	—	—	3	3	—
6/27	1	3	7.5	40.80	—	—	4	4	—

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NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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L. MONUMENTAL

*** STEELHEAD ***

LA-S -1 SU STEELHEAD LOT ID # 85157-01 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ...			DAILY COUNT	CUMULATIVE	
***** CONTINUED *****									
6/28	7	3	0.5	43.00	—	1 *	1 *	— *	
6/29	1	3	7.5	37.90	—	2	2	—	
6/30	0	0	0	— **	— **	—	—	—	0.0%
7/01	0	0	0	— **	— **	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	3	3	—	0.0%
7/03	1	3	7.5	48.80	—	1	1	—	
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	0	0	—	0.0%
7/06	0	0	0	— **	— **	—	—	—	0.0%
7/07	0	0	0	— **	— **	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	1	1	—	
7/09	1	3	7.0	43.80	—	2	2	—	
TOTAL					362	362	0		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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L. MONUMENTAL

*** STEELHEAD ***

LA-S-2 SU STEELHEAD LOT ID # 85157-02 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE SC	PARAMETERS SI	RIVER GW	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
								DAILY COUNT	CUMULATIVE	(4)
5/23	7	1	5.0	106.60	—	4 *	4 *	—	—	*
5/24	7	1	6.0	111.70	—	1 *	1 *	—	—	*
5/25	0	0.0	—	**	— **	—	—	—	—	0.0%
5/26	0	0.0	—	**	— **	—	—	—	—	0.0%
5/27	7	2	7.0	125.20	—	15 *	15 *	—	—	*
5/28	1	3	6.0	106.30	—	25	25	—	—	
5/29	1	3	6.5	108.80	—	29	29	—	—	
5/30	1	3	6.5	108.40	—	27	27	—	—	
5/31	1	3	7.0	112.90	—	17	17	—	—	
6/01	0	0.0	—	**	— **	—	—	—	—	0.0%
6/02	0	0.0	—	**	— **	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	18	18	—	—	
6/04	1	3	7.0	79.00	—	14	14	—	—	
6/05	1	3	7.0	79.00	—	30	30	—	—	
6/06	1	3	7.0	94.40	—	37	37	—	—	
6/07	1	3	7.0	121.30	—	24	24	—	—	
6/08	0	0.0	—	**	— **	—	—	—	—	0.0%
6/09	0	0.0	—	**	— **	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	28	28	—	—	
6/11	1	3	7.0	64.40	—	12	12	—	—	
6/12	1	3	7.0	96.40	—	12	12	—	—	
6/13	1	3	7.0	96.50	—	21	21	—	—	
6/14	1	3	7.0	89.20	—	22	22	—	—	
6/15	0	0.0	—	**	— **	—	—	—	—	0.0%
6/16	0	0.0	—	**	— **	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	2 *	2 *	—	—	*
6/18	0	0.0	—	**	— **	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	—	—	0.0%
6/20	7	2	7.5	48.40	—	6 *	6 *	—	—	
6/21	7	3	0.5	67.00	—	2 *	2 *	—	—	
6/22	0	0.0	—	**	— **	—	—	—	—	0.0%
6/23	0	0.0	—	**	— **	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	10	10	—	—	
6/25	1	3	7.0	44.60	—	9	9	—	—	
6/26	1	3	7.5	55.50	—	2	2	—	—	
6/27	1	3	7.5	40.80	—	1	1	—	—	

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L. MONUMENTAL * * * STEELHEAD * * *

LA-S -2 SU STEELHEAD LOT ID # 85157-02 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	SC	PARAMETERS	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/28	7	3	0.5	43.00	—	1 *	1 *	— *
6/29	1	3	7.5	37.90	—	5	5	—
6/30	0	0	0.0	— **	— **	—	—	0.0X
7/01	0	0	0.0	— **	— **	—	—	0.0X
7/02	1	3	7.5	45.80	—	2	2	—
7/03	1	3	7.5	48.80	—	3	3	—
7/04	7	3	0.5	51.00	—	0 *	0 *	— *
7/05	1	3	7.5	31.60	—	1	1	—
7/06	0	0	0.0	— **	— **	—	—	0.0X
7/07	0	0	0.0	— **	— **	—	—	0.0X
7/08	1	3	7.5	46.50	—	3	3	—
<u>TOTAL</u>					383	383	0	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

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L. MONUMENTAL

* * * STEELHEAD * * *

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY
 AGENCY: USFWS FROM: 4/09/85 TO 4/09/85
 HATCHERY: HAGERMAN NFH

DATE	SC	SAMPLE (1)	(2)	(3)	NUMBER SAMPLER	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
1985	.. PARAMETERS ..	RIVER ID	RIVER FLOW	INDEX FLOW					
5/30	1	3	6.5	108.40	—	1	1	—	0.0%
5/31	1	3	7.0	112.90	—	0	0	—	0.0%
6/01	0	0.0	— **	— **	—	—	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	1	1	—	—
6/04	1	3	7.0	79.00	—	1	1	—	—
6/05	1	3	7.0	79.00	—	0	0	—	0.0%
6/06	1	3	7.0	94.40	—	0	0	—	0.0%
6/07	1	3	7.0	121.30	—	0	0	—	0.0%
6/08	0	0.0	— **	— **	—	—	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	1	1	—	—
6/11	1	3	7.0	64.40	—	0	0	—	0.0%
6/12	1	3	7.0	96.40	—	0	0	—	0.0%
6/13	1	3	7.0	96.50	—	2	2	—	—
6/14	1	3	7.0	89.20	—	0	0	—	0.0%
6/15	0	0.0	— **	— **	—	—	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *	— *	0.0%
6/18	0	0.0	— **	— **	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	— *	0.0%
6/20	7	2	7.5	48.40	—	0 *	0 *	— *	0.0%
6/21	7	3	0.5	67.00	—	0 *	0 *	— *	0.0%
6/22	0	0.0	— **	— **	—	—	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	0	0	—	0.0%
6/25	1	3	7.0	44.60	—	0	0	—	0.0%
6/26	1	3	7.5	55.50	—	0	0	—	0.0%
6/27	1	3	7.5	40.80	—	0	0	—	0.0%
6/28	7	3	0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3	7.5	37.90	—	0	0	—	0.0%
6/30	0	0.0	— **	— **	—	—	—	—	0.0%
7/01	0	0.0	— **	— **	—	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	1	1	—	—
7/03	1	3	7.5	48.80	—	0	0	—	0.0%

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L. MONUMENTAL * * * STEELHEAD * * *

RD-Y-1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY FROM: 4/09/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE (1)		(2)	(3)	... PASSAGE INDEX ...			(4) CUMULATIVE
	.. PARAMETERS ..	RIVER SC #D GW HRS	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	DAILY COUNT	

***** CONTINUED *****

7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	1	1	—	
<hr/>									
TOTAL <hr/>									
						8	8	0	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow:
 (3) Index Flow:
 (4) Passage Index:
 (*) Calculated as the (number collected) / (100 * percent index flow)
 (**) Sample deviates from "normal" conditions (i.e. SC code > 1)
 Data not available Catch Master data file

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 FISH PASSAGE DATA SYSTEM
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L. MONUMENTAL

*** STEELHEAD ***

RA-7N-1 SU STEELHEAD LOT ID # 85166-01 19,963 RELEASED AT: BELOW LI GOOSE FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
	SC	ID	GU	HR.S			DAILY COUNT	CUMULATIVE	
5/23	7	1	5.0	106.60	—	14 *	14 *	— *	
5/24	7	1	6.0	111.70	—	4 *	4 *	— *	
5/25	0	0.0	— **	— **	—	—	—	—	0.0%
5/26	0	0.0	— **	— **	—	—	—	—	0.0%
5/27	7	2	7.0	125.20	—	37 *	37 *	— *	
5/28	1	3	6.0	106.30	—	35	35	—	
5/29	1	3	6.5	108.80	—	26	26	—	
5/30	1	3	6.5	108.40	—	14	14	—	
5/31	1	3	7.0	112.90	—	5	5	—	
6/01	0	0.0	— **	— **	—	—	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	8	8	—	
6/04	1	3	7.0	79.00	—	4	4	—	
6/05	1	3	7.0	79.00	—	2	2	—	
6/06	1	3	7.0	94.40	—	3	3	—	
6/07	1	3	7.0	121.30	—	7	7	—	
6/08	0	0.0	— **	— **	—	—	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	3	3	—	
6/11	1	3	7.0	64.40	—	4	4	—	
6/12	1	3	7.0	96.40	—	3	3	—	
6/13	1	3	7.0	96.50	—	2	2	—	
6/14	1	3	7.0	89.20	—	0	0	—	0.0%
6/15	0	0.0	— **	— **	—	—	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *	— *	0.0%
6/18	0	0.0	— **	— **	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	— *	
6/20	7	2	7.5	48.40	—	2 *	2 *	— *	
6/21	7	3	0.5	67.00	—	3 *	3 *	— *	
6/22	0	0.0	— **	— **	—	—	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	4	4	—	
6/25	1	3	7.0	44.60	—	0	0	—	0.0%
6/26	1	3	7.5	55.50	—	1	1	—	
6/27	1	3	7.5	40.80	—	1	1	—	

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L. MONUMENTAL * * * STEELHEAD * * *

RA-7N-1 SU STEELHEAD LOT ID # 85166-01 19,983 RELEASED AT: BELOW LI GOOSE FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER SC-ID-GW-HRS	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/28	7	3	0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3	7.5	37.90	—	0	0	—	0.0%
6/30		0	0.0	— **	— **	—	—	—	0.0%
7/01		0	0.0	— **	— **	—	—	—	0.0%
7/02	1	3	7.5	45.80	—	0	0	—	0.0%
7/03	1	3	7.5	48.80	—	1	1	—	0.0%
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3	7.5	31.60	—	1	1	—	0.0%
7/06		0	0.0	— **	— **	—	—	—	0.0%
7/07		0	0.0	— **	— **	—	—	—	0.0%
7/08	1	3	7.5	46.50	—	2	2	—	—
TOTAL						186	186	0	

- (1) Sample parameters: SC = Sample quality code #ID = Number of accumulated days for sample
 GW = Number of gateways sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-7N-3 SU STEELHEAD LOT ID # 85166-02 19,906 RELEASED AT: BELOW LI GOOSE FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	#D	GW	HR	S	DAILY COUNT	INDEX		
5/23	7	1	5.0	106.60	—	14 *	14 *	— *	
5/24	7	1	6.0	111.70	—	5 *	5 *	— *	
5/25	0	0.0	— **	— **	—	—	—	—	0.0%
5/26	0	0.0	— **	— **	—	—	—	—	0.0%
5/27	7	2	7.0	125.20	—	45 *	45 *	— *	
5/28	1	3	6.0	106.30	—	36	36	—	
5/29	1	3	6.5	108.80	—	47	47	—	
5/30	1	3	6.5	108.40	—	25	25	—	
5/31	1	3	7.0	112.90	—	18	18	—	
6/01	0	0.0	— **	— **	—	—	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	12	12	—	
6/04	1	3	7.0	79.00	—	7	7	—	
6/05	1	3	7.0	79.00	—	4	4	—	
6/06	1	3	7.0	94.40	—	6	6	—	
6/07	1	3	7.0	121.30	—	5	5	—	
6/08	0	0.0	— **	— **	—	—	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	5	5	—	
6/11	1	3	7.0	64.40	—	5	5	—	
6/12	1	3	7.0	96.40	—	1	1	—	
6/13	1	3	7.0	96.50	—	2	2	—	
6/14	1	3	7.0	89.20	—	1	1	—	
6/15	0	0.0	— **	— **	—	—	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *	— *	0.0%
6/18	0	0.0	— **	— **	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	— *	0.0%
6/20	7	2	7.5	48.40	—	2 *	2 *	— *	
6/21	7	3	0.5	67.00	—	0 *	0 *	— *	0.0%
6/22	0	0.0	— **	— **	—	—	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	3	3	—	
6/25	1	3	7.0	44.60	—	0	0	—	0.0%
6/26	1	3	7.5	55.50	—	1	1	—	
6/27	1	3	7.5	40.80	—	1	1	—	

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L. MONUMENTAL *** STEELHEAD ***

RA-7N-3 SU STEELHEAD LOT ID # 85166-02 19,906 RELEASED AT: BELOW LI GOOSE FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	SC	PARAMETERS	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
6/28	7	3 0.5	43.00	—	0 *	0 *	— *	0.0%
6/29	1	3 7.5	37.90	—	0	0	—	0.0%
6/30	0	0 0.0	— **	— **	—	—	—	0.0%
7/01	0	0 0.0	— **	— **	—	—	—	0.0%
7/02	1	3 7.5	45.80	—	2	2	—	
7/03	1	3 7.5	48.80	—	0	0	—	0.0%
7/04	7	3 0.5	51.00	—	0 *	0 *	— *	0.0%
7/05	1	3 7.5	31.60	—	0	0	—	0.0%
7/06	0	0 0.0	— **	— **	—	—	—	0.0%
7/07	0	0 0.0	— **	— **	—	—	—	0.0%
7/08	1	3 7.5	46.50	—	3	3	—	
TOTAL					250	250	0	

- (1) Sample parameters: SC = Sample quality code TD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)			(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
	SC	ID	GW-HRS					DAILY COUNT	CUMULATIVE	
5/27	7	2	7.0	125.20	—	1 *	1 *	—	*	
5/28	1	3	6.0	106.30	—	1	1	—		
5/29	1	3	6.5	108.80	—	5	5	—		
5/30	1	3	6.5	108.40	—	2	2	—		
5/31	1	3	7.0	112.90	—	2	2	—		
6/01	0	0.0	— **	— **	—	—	—	—	0.0X	
6/02	0	0.0	— **	— **	—	—	—	—	0.0X	
6/03	1	3	7.0	104.70	—	3	3	—		
6/04	1	3	7.0	79.00	—	0	0	—	0.0%	
6/05	1	3	7.0	79.00	—	3	3	—		
6/06	1	3	7.0	94.40	—	1	1	—		
6/07	1	3	7.0	121.30	—	0	0	—	0.0X	
6/08	0	0.0	— **	— **	—	—	—	—	0.0X	
6/09	0	0.0	— **	— **	—	—	—	—	0.0X	
6/10	1	3	7.0	60.00	—	0	0	—	0.0X	
6/11	1	3	7.0	64.40	—	1	1	—		
6/12	1	3	7.0	96.40	—	0	0	—	0.0X	
6/13	1	3	7.0	96.50	—	1	1	—		
6/14	1	3	7.0	89.20	—	0	0	—	0.0X	
6/15	0	0.0	— **	— **	—	—	—	—	0.0X	
6/16	0	0.0	— **	— **	—	—	—	—	0.0X	
6/17	7	3	1.0	75.00	—	0 *	0 *	—	0.0X	
6/18	0	0.0	— **	— **	—	—	—	—	0.0X	
6/19	7	0	2.0	62.00	—	— *	— *	—	0.0X	
6/20	7	2	7.5	48.40	—	0 *	0 *	—	0.0X	
6/21	7	3	0.5	67.00	—	0 *	0 *	—	0.0X	
6/22	0	0.0	— **	— **	—	—	—	—	0.0X	
6/23	0	0.0	— **	— **	—	—	—	—	0.0X	
6/24	1	3	7.5	55.90	—	0	0	—	0.0X	
6/25	1	3	7.0	44.60	—	0	0	—	0.0X	
6/26	1	3	7.5	55.50	—	0	0	—	0.0X	
6/27	1	3	7.5	40.80	—	1	1	—		

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L. MONUMENTAL * * * STEELHEAD * * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE ..	(1) PARAMETERS ..	(2) RIVER SC AD GW HB,S	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE

***** C O N T I N U E D *****

<u>TOTAL</u>	21	21	0
--------------	----	----	---

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
 (**) Data not available Catch Master data file

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L. MONUMENTAL

* * * STEELHEAD * * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)			(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	SC	SD	GW-HRS					... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/27	7	2	7.0	125.20	—	2 *	2 *	— *	—	0.0%
5/28	1	3	6.0	106.30	—	0	0	—	—	0.0%
5/29	1	3	6.5	108.80	—	2	2	—	—	0.0%
5/30	1	3	6.5	108.40	—	3	3	—	—	0.0%
5/31	1	3	7.0	112.90	—	1	1	—	—	0.0%
6/01	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/02	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/03	1	3	7.0	104.70	—	4	4	—	—	0.0%
6/04	1	3	7.0	79.00	—	0	0	—	—	0.0%
6/05	1	3	7.0	79.00	—	1	1	—	—	0.0%
6/06	1	3	7.0	94.40	—	0	0	—	—	0.0%
6/07	1	3	7.0	121.30	—	0	0	—	—	0.0%
6/08	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/09	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/10	1	3	7.0	60.00	—	1	1	—	—	0.0%
6/11	1	3	7.0	64.40	—	1	1	—	—	0.0%
6/12	1	3	7.0	96.40	—	0	0	—	—	0.0%
6/13	1	3	7.0	96.50	—	0	0	—	—	0.0%
6/14	1	3	7.0	89.20	—	0	0	—	—	0.0%
6/15	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/16	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/17	7	3	1.0	75.00	—	0 *	0 *	— *	— *	0.0%
6/18	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/19	7	0	2.0	62.00	—	— *	— *	— *	— *	0.0%
6/20	7	2	7.5	48.40	—	0 *	0 *	— *	— *	0.0%
6/21	7	3	0.5	67.00	—	0 *	0 *	— *	— *	0.0%
6/22	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/23	0	0.0	— **	— **	—	—	—	—	—	0.0%
6/24	1	3	7.5	55.90	—	0	0	—	—	0.0%
6/25	1	3	7.0	44.60	—	0	0	—	—	0.0%
6/26	1	3	7.5	55.50	—	0	0	—	—	0.0%
6/27	1	3	7.5	40.80	—	0	0	—	—	0.0%
6/28	7	3	0.5	43.00	—	0 *	0 *	— *	— *	0.0%
6/29	1	3	7.5	37.90	—	0	0	—	—	0.0%
6/30	0	0.0	— **	— **	—	—	—	—	—	0.0%

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L. MONUMENTAL * * * STEELHEAD * * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER SC -#D-GW-HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

7/01	0	0.0	— **	— **	—	—	—	0.0X	
7/02	1	3	7.5	45.80	—	0	0	0.0X	
7/03	1	3	7.5	48.80	—	0	0	0.0X	
7/04	7	3	0.5	51.00	—	0 *	0 *	— *	0.0X
7/05	1	3	7.5	31.60	—	0	0	—	0.0X
7/06	0	0.0	— **	— **	—	—	—	—	0.0X
7/07	0	0.0	— **	— **	—	—	—	—	0.0X
7/08	1	3	7.5	46.50	—	1	1	—	
TOTAL					16	16	0		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: NO PASSAGE INDEX FLOW FOR THIS SITE
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- (**) Data not available Catch Master data file

C. Rock Island Dam

Contractor: Chelan County PUD

Project Leader: Steven Hays (509-663-8121)

Location: Columbia River, River Mile 453.4

Monitoring Dates: March 30 - August 31, 1985

Sampling Method: Fish were collected from the Rock Island second powerhouse with a gatewell bypass system and diverted into a trapping facility for determination of species and freeze brand composition. Fish were collected for a 24 hour period (0900-0900h); all trapped fish were examined for species composition and brands. The sampling scheme at Rock Island Dam remained consistent in 1985 except for two samples. Representation of these deviations in the sample scheme are discussed in this section under "Notes on Data Presentation".

Analysis of Data: Data from Rock Island were used for management, assessment of survival, travel time and migration characteristics. The flow proportion used to expand collection counts to a passage index was estimated as follows:

$$\text{Powerhouse 2 flow} / (\text{Powerhouse 1 \& 2 flow} + \text{Spill})$$

Notes on Data Presentation: At the start of the season the bypass trap operated for 3 days without examining the fish until the third day. The first 2 days without samples were

indicated with a sample quality code of 8. The third day was indicated with a sample quality code of 13. On May 21 the trap overflowed due to debris buildup and the counts were probably biased low; this sample was indicated with a sample quality code of 7.

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ROCK ISLAND

CHINOOK 1'S

LA-7C-1 SP CHINOOK LOT ID # 85002-02 35,186 RELEASED AT: WINTHROP NFH FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR.S	RIVER FLOW	INDEX FLOW	(3)		NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX ... CUMULATIVE	(4)
				1	2				
4/25	1	24.0	133.10	78.15 X		1	1	1	0.5X
4/26	1	24.0	112.40	77.70 X		0	0	0	0.5X
4/27	1	24.0	118.20	87.77 X		1	1	1	1.0X
4/28	1	23.0	119.00	88.03 X		4	4	5	3.3X
4/29	1	24.0	119.60	87.50 X		3	3	3	4.8X
4/30	1	24.0	126.90	84.39 X		2	2	2	5.7X
5/01	1	24.0	123.80	83.18 X		2	2	2	6.7X
5/02	1	24.0	122.20	84.71 X		0	0	0	6.7X
5/03	1	24.0	134.00	86.70 X		1	1	1	7.2X
5/04	1	24.0	139.00	86.50 X		2	2	2	8.1X
5/05	1	24.0	125.90	88.82 X		2	2	2	9.1X
5/06	1	24.0	135.60	89.52 X		2	2	2	10.0X
5/07	1	24.0	147.90	83.57 X		3	3	4	12.0X
5/08	1	24.0	153.40	78.64 X		9	9	11	17.2X
5/09	1	24.0	156.60	80.81 X		9	9	11	22.5X
5/10	1	24.0	141.20	79.94 X		5	5	6	25.4X
5/11	1	24.0	153.50	78.22 X		4	4	5	27.8X
5/12	1	24.0	156.70	77.86 X		10	10	13	34.0X
5/13	1	24.0	134.60	79.39 X		3	3	4	35.9X
5/14	1	24.0	157.90	79.24 X		6	6	8	39.7X
5/15	1	24.0	148.70	79.20 X		7	7	9	44.0X
5/16	1	24.0	138.50	86.98 X		13	13	15	51.2X
5/17	1	24.0	111.60	90.96 X		9	9	10	56.0X
5/18	1	24.0	122.00	92.39 X		4	4	4	57.9X
5/19	1	24.0	111.80	97.38 X		7	7	7	61.2X
5/20	1	24.0	103.40	99.22 X		5	5	5	63.6X
5/21	7	24.0	135.60	91.17 X		6 *	6 *	7 *	67.0X
5/22	1	24.0	131.70	88.12 X		8	8	9	71.3X
5/23	1	24.0	134.50	90.32 X		12	12	13	77.5X
5/24	1	24.0	135.50	87.93 X		4	4	5	79.9X
5/25	1	24.0	122.30	83.18 X		8	8	10	84.7X
5/26	1	24.0	96.10	90.24 X		2	2	2	85.6X
5/27	1	24.0	91.30	98.56 X		3	3	3	87.1X
5/28	1	24.0	120.00	97.90 X		7	7	7	90.4X
5/29	1	24.0	142.50	81.70 X		3	3	4	92.3X
5/30	1	24.0	146.60	76.54 X		5	5	7	95.7X

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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ROCK ISLAND

*** CHINOOK 1'S ***

LA-7C-1 SP CHINOOK LOT ID # 85002-02 35,186 RELEASED AT: WINTHROP NFH FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC #D GW-HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
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***** CONTINUED *****

5/31	1	24.0	120.00	84.78 %	3	3	4	97.6%
6/01	1	24.0	114.10	77.52 %	4	4	5	100.0%
<u>TOTAL</u>					<u>179</u>	<u>179</u>	<u>209</u>	

(1) Sample parameters:
 SC = Sample quality code
 GW = Number of gatewells sampled
 #D = Number of accumulated days for sample
 Hrs= Number of hours sampled
 (2) River Flow:
 Data acquired from CATCH DATA
 (3) Index Flow:
 $\times \times (\text{PH 2}) / (\text{PH1} + \text{PH2} + \text{SPILL}) \times \times$
 (4) Passage Index:
 Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * *

CHINOOK 1'S

* * *

LA-7C-3 SP CHINOOK LOT ID # 85002-03 36,704 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE 1	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		.. PARAMETERS ..	RIVER FLOW	INDEX FLOW				
4/22	1	24.0	90.60	86.67 X	1	1	1	0.7X
4/23	1	24.0	132.10	83.50 X	0	0	0	0.7X
4/24	1	24.0	133.20	79.02 X	4	4	5	4.1X
4/25	1	24.0	133.10	78.15 X	3	3	4	6.8X
4/26	1	24.0	112.40	77.70 X	4	4	5	10.1X
4/27	1	24.0	118.20	87.77 X	2	2	2	11.5X
4/28	1	23.0	119.00	88.03 X	2	2	2	12.8X
4/29	1	24.0	119.60	87.50 X	2	2	2	14.2X
4/30	1	24.0	126.90	84.39 X	2	2	2	15.5X
5/01	1	24.0	123.80	83.18 X	1	1	1	16.2X
5/02	1	24.0	122.20	84.71 X	2	2	2	17.6X
5/03	1	24.0	134.00	86.70 X	4	4	5	20.9X
5/04	1	24.0	139.00	86.50 X	2	2	2	22.3X
5/05	1	24.0	125.90	88.82 X	3	3	3	24.3X
5/06	1	24.0	135.60	89.52 X	4	4	4	27.0X
5/07	1	24.0	147.90	83.57 X	2	2	2	28.4X
5/08	1	24.0	153.40	78.64 X	5	5	6	32.4X
5/09	1	24.0	156.60	80.81 X	5	5	6	36.5X
5/10	1	24.0	141.20	79.94 X	4	4	5	39.9X
5/11	1	24.0	153.50	78.22 X	5	5	6	43.9X
5/12	1	24.0	156.70	77.86 X	4	4	5	47.3X
5/13	1	24.0	134.60	79.39 X	2	2	3	49.3X
5/14	1	24.0	157.90	79.24 X	4	4	5	52.7X
5/15	1	24.0	149.70	79.20 X	7	7	9	58.8X
5/16	1	24.0	138.50	86.98 X	8	8	9	64.9X
5/17	1	24.0	111.60	90.96 X	8	8	9	70.9X
5/18	1	24.0	122.00	92.39 X	6	6	6	75.0X
5/19	1	24.0	111.80	97.38 X	4	4	4	77.7X
5/20	1	24.0	103.40	99.22 X	1	1	1	78.4X
5/21	7	24.0	135.60	91.17 X	6 *	6 *	7 *	83.1X
5/22	1	24.0	131.70	88.12 X	3	3	3	85.1X
5/23	1	24.0	134.50	90.32 X	7	7	8	90.5X
5/24	1	24.0	135.50	87.93 X	2	2	2	91.9X
5/25	1	24.0	122.30	83.18 X	3	3	4	94.6X
5/26	1	24.0	96.10	90.24 X	1	1	1	95.3X
5/27	1	24.0	91.30	98.56 X	3	3	3	97.3X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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ROCK ISLAND * * * CHINOOK 1'S * * *

LA-7C-3 SP CHINOOK LOT ID # 85002-03 36,704 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
	SC #D GW HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			

***** C O N T I N U E D *****

5/28	1	24.0	120.00	97.90 %	2	2	2	98.6%
5/29	1	24.0	142.50	81.70 %	0	0	0	98.6%
5/30	1	24.0	146.60	76.54 %	1	1	1	99.3%
5/31	1	24.0	120.00	84.78 %	0	0	0	99.3%
6/01	1	24.0	114.10	77.52 %	0	0	0	99.3%
6/02	1	24.0	94.60	99.47 %	1	1	1	100.0%
TOTAL					130	130	148	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: * * (PH2) / (PH1 + PH2 + SPILL) * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * * CHINOOK 1'S * *

LA-7F-1 SP CHINOOK LOT ID # 85002-05 12,568 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	.. PARAMETERS ..	SC ID GH HR.S					DAILY COUNT	INDEX	
4/25	1	24.0	133.10	78.15 X	1	1	1	1.9%	
4/26	1	24.0	112.40	77.70 X	3	3	4	9.3X	
4/27	1	24.0	118.20	87.77 X	0	0	0	9.3X	
4/28	1	23.0	119.00	88.03 X	0	0	0	9.3X	
4/29	1	24.0	119.60	87.50 X	0	0	0	9.3X	
4/30	1	24.0	126.90	84.39 X	1	1	1	11.1X	
5/01	1	24.0	123.80	83.18 X	0	0	0	11.1X	
5/02	1	24.0	122.20	84.71 X	2	2	2	14.8X	
5/03	1	24.0	134.00	86.70 X	0	0	0	14.8X	
5/04	1	24.0	139.00	86.50 X	1	1	1	16.7X	
5/05	1	24.0	125.90	88.82 X	1	1	1	18.5X	
5/06	1	24.0	135.60	89.52 X	2	2	2	22.2X	
5/07	1	24.0	147.90	83.57 X	4	4	5	31.5X	
5/08	1	24.0	153.40	78.64 X	3	3	4	38.9X	
5/09	1	24.0	156.60	80.81 X	0	0	0	38.9X	
5/10	1	24.0	141.20	79.94 X	0	0	0	38.9X	
5/11	1	24.0	153.50	78.22 X	2	2	3	44.4X	
5/12	1	24.0	156.70	77.86 X	3	3	4	51.9X	
5/13	1	24.0	134.60	79.39 X	2	2	3	57.4X	
5/14	1	24.0	157.90	79.24 X	1	1	1	59.3X	
5/15	1	24.0	148.70	79.20 X	2	2	3	64.8X	
5/16	1	24.0	138.50	86.98 X	3	3	3	70.4X	
5/17	1	24.0	111.60	90.96 X	2	2	2	74.1X	
5/18	1	24.0	122.00	92.39 X	2	2	2	77.8X	
5/19	1	24.0	111.80	97.38 X	2	2	2	81.5X	
5/20	1	24.0	103.40	99.22 X	0	0	0	81.5X	
5/21	7	24.0	135.60	91.17 X	0 *	0 *	0 *	81.5X	
5/22	1	24.0	131.70	88.12 X	3	3	3	87.0X	
5/23	1	24.0	134.50	90.32 X	2	2	2	90.7X	
5/24	1	24.0	135.50	87.93 X	0	0	0	90.7X	
5/25	1	24.0	122.30	83.18 X	0	0	0	90.7X	
5/26	1	24.0	96.10	90.24 X	2	2	2	94.4X	
5/27	1	24.0	91.30	98.56 X	0	0	0	94.4X	
5/28	1	24.0	120.00	97.90 X	1	1	1	96.3X	
5/29	1	24.0	142.50	81.70 X	0	0	0	96.3X	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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ROCK ISLAND * * * CHINOOK 1'S * * *

LA-7F-1 SP CHINOOK LOT ID # 85002-05 12,568 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC #D GW HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
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***** C O N T I N U E D *****

5/30	1	24.0	146.60	76.54 X	0	0	0	96.3X
5/31	1	24.0	120.00	84.78 X	2	2	2	100.0X
TOTAL					47	47	54	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: ** (PH2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

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CHINOOK 1'S

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LA-7K-1 SP CHINOOK LOT ID # 85002-01 34,959 RELEASED AT: WINTHROP NFH FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)		(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	..	PARAMETERS ..					... PASSAGE INDEX	DAILY COUNT	CUMULATIVE
4/29	1	24.0	119.60	87.50 X	1	1	1	1	0.5X
4/30	1	24.0	126.90	84.39 X	0	0	0	0	0.5X
5/01	1	24.0	123.80	83.18 X	4	4	5	2.7X	
5/02	1	24.0	122.20	84.71 X	2	2	2	2	3.6X
5/03	1	24.0	134.00	86.70 X	1	1	1	1	4.1X
5/04	1	24.0	139.00	86.50 X	0	0	0	0	4.1X
5/05	1	24.0	125.90	88.82 X	4	4	5	5	6.3X
5/06	1	24.0	135.60	89.52 X	1	1	1	1	6.8X
5/07	1	24.0	147.90	83.57 X	2	2	2	2	7.7X
5/08	1	24.0	153.40	78.64 X	5	5	6	6	10.4X
5/09	1	24.0	156.60	80.81 X	2	2	2	2	11.3X
5/10	1	24.0	141.20	79.94 X	4	4	5	5	13.5X
5/11	1	24.0	153.50	78.22 X	9	9	12	12	18.9X
5/12	1	24.0	156.70	77.86 X	5	5	6	6	21.6X
5/13	1	24.0	134.60	79.39 X	11	11	14	14	27.9X
5/14	1	24.0	157.90	79.24 X	6	6	8	8	31.5X
5/15	1	24.0	148.70	79.20 X	7	7	9	9	35.6X
5/16	1	24.0	138.50	86.98 X	31	31	36	36	51.8X
5/17	1	24.0	111.60	90.96 X	11	11	12	12	57.2X
5/18	1	24.0	122.00	92.39 X	8	8	9	9	61.3X
5/19	1	24.0	111.80	97.38 X	12	12	12	12	66.7X
5/20	1	24.0	103.40	99.22 X	9	9	9	9	70.7X
5/21	7	24.0	135.60	91.17 X	8 *	8 *	9 *	9 *	74.8X
5/22	1	24.0	131.70	88.12 X	9	9	10	10	79.3X
5/23	1	24.0	134.50	90.32 X	3	3	3	3	80.6X
5/24	1	24.0	135.50	87.93 X	5	5	6	6	83.3X
5/25	1	24.0	122.30	83.18 X	1	1	1	1	83.8X
5/26	1	24.0	96.10	90.24 X	11	11	12	12	89.2X
5/27	1	24.0	91.30	98.56 X	2	2	2	2	90.1X
5/28	1	24.0	120.00	97.90 X	5	5	5	5	92.3X
5/29	1	24.0	142.50	81.70 X	5	5	6	6	95.0X
5/30	1	24.0	146.60	76.54 X	1	1	1	1	95.5X
5/31	1	24.0	120.00	84.78 X	4	4	5	5	97.7X
6/01	1	24.0	114.10	77.52 X	3	3	4	4	99.5X
6/02	1	24.0	94.60	99.47 X	0	0	0	0	99.5X
6/03	1	24.0	94.80	93.70 X	1	1	1	1	100.0X

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ROCK ISLAND

* * *

CHINOOK 1'S

* * *

LA-7K-1 SP CHINOOK LOT ID # 85002-01 34,959 RELEASED AT: WINTHROP NFH FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

	SAMPLE (1)	(2)	(3)		(4)
DATE ..	PARAMETERS ..	RIVER	INDEX	NUMBER	... PASSAGE INDEX ...
1985	SC #D GW HRS	FLOW	FLOW	SAMPLED	COLLECTED DAILY COUNT CUMULATIVE

***** CONTINUED *****

TOTAL	193	193	222
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- (1) Sample parameters:
 SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow:
 Data acquired from CATCH DATA
 (3) Index Flow:
 ** (PH2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index:
 Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * * CHINOOK 1'S * * *

LA-7T-1 SP CHINOOK LOT ID # 85002-04 5,890 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HRS	RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
							DAILY COUNT	INDEX	
4/24	1	24.0	133.20	79.02 %	1	1	1	5.0%	
4/25	1	24.0	133.10	78.15 %	0	0	0	5.0%	
4/26	1	24.0	112.40	77.70 %	1	1	1	10.0%	
4/27	1	24.0	118.20	87.77 %	0	0	0	10.0%	
4/28	1	23.0	119.00	88.03 %	0	0	0	10.0%	
4/29	1	24.0	119.60	87.50 %	0	0	0	10.0%	
4/30	1	24.0	126.90	84.39 %	1	1	1	15.0%	
5/01	1	24.0	123.80	83.18 %	0	0	0	15.0%	
5/02	1	24.0	122.20	84.71 %	0	0	0	15.0%	
5/03	1	24.0	134.00	86.70 %	0	0	0	15.0%	
5/04	1	24.0	139.00	86.50 %	0	0	0	15.0%	
5/05	1	24.0	125.90	88.82 %	1	1	1	20.0%	
5/06	1	24.0	135.60	89.52 %	0	0	0	20.0%	
5/07	1	24.0	147.90	83.57 %	1	1	1	25.0%	
5/08	1	24.0	153.40	78.64 %	1	1	1	30.0%	
5/09	1	24.0	156.60	80.81 %	0	0	0	30.0%	
5/10	1	24.0	141.20	79.94 %	0	0	0	30.0%	
5/11	1	24.0	153.50	78.22 %	1	1	1	35.0%	
5/12	1	24.0	156.70	77.86 %	0	0	0	35.0%	
5/13	1	24.0	134.60	79.39 %	0	0	0	35.0%	
5/14	1	24.0	157.90	79.24 %	0	0	0	35.0%	
5/15	1	24.0	148.70	79.20 %	2	2	3	50.0%	
5/16	1	24.0	138.50	86.98 %	1	1	1	53.0%	
5/17	1	24.0	111.60	90.96 %	2	2	2	65.0%	
5/18	1	24.0	122.00	92.39 %	0	0	0	65.0%	
5/19	1	24.0	111.80	97.38 %	1	1	1	70.0%	
5/20	1	24.0	103.40	99.22 %	0	0	0	70.0%	
5/21	7	24.0	135.60	91.17 %	1 *	1 *	1 *	75.0%	
5/22	1	24.0	131.70	88.12 %	1	1	1	80.0%	
5/23	1	24.0	134.50	90.32 %	2	2	2	90.0%	
5/24	1	24.0	135.50	87.93 %	0	0	0	90.0%	
5/25	1	24.0	122.30	83.18 %	0	0	0	90.0%	
5/26	1	24.0	96.10	90.24 %	0	0	0	90.0%	
5/27	1	24.0	91.30	98.56 %	2	2	2	100.0%	

***** CONTINUED *****

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ROCK ISLAND

* * * CHINOOK 1'S * * *

LA-7T-1 SP CHINOOK LOT ID # 85002-04 5,890 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
	SC = QD = GW = HB:S							

***** C O N T I N U E D *****

TOTAL	19	19	20
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- (1) Sample parameters: SC = Sample quality code QD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: ** (PH 2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * * CHINOOK 1'S * * *

LA-7U-1 SP CHINOOK LOT ID # 85003-01 30,422 RELEASED AT: LEAVENWORTH NFH FROM: 4/13/85 TO 4/13/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-BBS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER FLOW	INDEX FLOW						
4/15	1	24.0	70.60	92.92 %	11	11	12	4.7%	
4/16	1	24.0	128.40	66.98 %	8	8	12	9.3%	
4/17	1	24.0	123.70	69.79 %	5	5	7	12.1%	
4/18	1	24.0	118.30	77.99 %	3	3	4	13.6%	
4/19	1	24.0	123.60	83.24 %	2	2	2	14.4%	
4/20	1	24.0	131.00	83.04 %	5	5	6	16.7%	
4/21	1	24.0	97.50	81.72 %	1	1	1	17.1%	
4/22	1	24.0	90.60	86.67 %	2	2	2	17.9%	
4/23	1	24.0	132.10	83.50 %	1	1	1	18.3%	
4/24	1	24.0	133.20	79.02 %	1	1	1	18.7%	
4/25	1	24.0	133.10	78.15 %	1	1	1	19.1%	
4/26	1	24.0	112.40	77.70 %	6	6	8	22.2%	
4/27	1	24.0	118.20	87.77 %	1	1	1	22.6%	
4/28	1	23.0	119.00	88.03 %	0	0	0	22.6%	
4/29	1	24.0	119.60	87.50 %	2	2	2	23.3%	
4/30	1	24.0	126.90	84.39 %	1	1	1	23.7%	
5/01	1	24.0	123.80	83.18 %	3	3	4	25.3%	
5/02	1	24.0	122.20	84.71 %	3	3	5	26.8%	
5/03	1	24.0	134.00	86.70 %	4	4	5	28.8%	
5/04	1	24.0	139.00	86.50 %	3	3	3	30.0%	
5/05	1	24.0	125.90	88.82 %	9	9	10	33.9%	
5/06	1	24.0	135.60	89.52 %	2	2	2	34.6%	
5/07	1	24.0	147.90	83.57 %	9	9	11	38.9%	
5/08	1	24.0	153.40	78.64 %	10	10	13	44.0%	
5/09	1	24.0	156.60	80.81 %	17	17	21	52.1%	
5/10	1	24.0	141.20	79.94 %	11	11	14	57.6%	
5/11	1	24.0	153.50	78.22 %	13	13	17	64.2%	
5/12	1	24.0	156.70	77.86 %	11	11	14	69.6%	
5/13	1	24.0	134.60	79.39 %	7	7	9	73.2%	
5/14	1	24.0	157.90	79.24 %	4	4	5	75.1%	
5/15	1	24.0	148.70	79.20 %	4	4	5	77.0%	
5/16	1	24.0	138.50	86.98 %	9	9	10	80.9%	
5/17	1	24.0	111.60	90.96 %	5	5	5	82.9%	
5/18	1	24.0	122.00	92.39 %	7	7	8	86.0%	
5/19	1	24.0	111.80	97.38 %	7	7	7	88.7%	
5/20	1	24.0	103.40	99.22 %	5	5	5	90.7%	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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ROCK ISLAND

*** CHINOOK 1'S ***

LA-7U-1 SP CHINOOK LOT ID # 85003-01 30,422 RELEASED AT: LEAVENWORTH NFH FROM: 4/13/85 TO 4/13/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC-ID-GW-HRS	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
							DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

5/21	7	24.0	135.60	91.17 X	0 *	0 *	0 *	90.7%
5/22	1	24.0	131.70	88.12 X	1	1	1	91.1X
5/23	1	24.0	134.50	90.32 X	2	2	2	91.8X
5/24	1	24.0	135.50	87.93 X	2	2	2	92.6X
5/25	1	24.0	122.30	83.18 X	9	9	11	96.9%
5/26	1	24.0	96.10	90.24 X	0	0	0	96.9%
5/27	1	24.0	91.30	98.56 X	0	0	0	96.9%
5/28	1	24.0	120.00	97.90 X	4	4	4	98.4X
5/29	1	24.0	142.50	81.70 X	1	1	1	98.8%
5/30	1	24.0	146.60	76.54 X	1	1	1	99.2X
5/31	1	24.0	120.00	84.78 X	0	0	0	99.2X
6/01	1	24.0	114.10	77.52 X	1	1	1	99.6X
6/02	1	24.0	94.60	99.47 X	0	0	0	99.6X
6/03	1	24.0	94.80	93.70 X	0	0	0	99.6X
6/04	1	24.0	117.30	82.20 X	0	0	0	99.6X
6/05	1	24.0	117.60	83.88 X	1	1	1	100.0X
<hr/> TOTAL					215	215	257	

- (1) Sample parameters:
 SC = Sample quality code
 GW = Number of gatewells sampled
 tD = Number of accumulated days for sample
 Hrs= Number of hours sampled
- (2) River Flow:
 Data acquired from CATCH DATA
- (3) Index Flow:

$$\text{Index Flow} = \frac{\text{GW}}{\text{tD} + \text{Hrs}}$$
- (4) Passage Index:
 Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * *

STEELHEAD

* * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03

30,378 RELEASED AT: METHOW R
 AGENCY: WDG

FROM: 5/14/85 TO 5/14/85
 HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC ID GW HS S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
						DAILY COUNT	PERCENT	
5/17	1	24.0	111.60	90.96 X	9	9	10	1.4%
5/18	1	24.0	122.00	92.39 X	40	40	43	7.2%
5/19	1	24.0	111.80	97.38 X	148	148	152	27.8%
5/20	1	24.0	103.40	99.22 X	130	130	131	45.5%
5/21	7	24.0	135.60	91.17 X	111 *	111 *	122 *	62.1%
5/22	1	24.0	131.70	88.12 X	58	58	66	71.0%
5/23	1	24.0	134.50	90.32 X	80	80	89	83.1%
5/24	1	24.0	135.50	87.93 X	36	36	41	88.6%
5/25	1	24.0	122.30	83.18 X	24	24	29	92.5%
5/26	1	24.0	96.10	90.24 X	16	16	18	95.0%
5/27	1	24.0	91.30	98.56 X	9	9	9	96.2%
5/28	1	24.0	120.00	97.90 X	2	2	2	96.5%
5/29	1	24.0	142.50	81.70 X	7	7	9	97.7%
5/30	1	24.0	146.60	76.54 X	1	1	1	97.8%
5/31	1	24.0	120.00	84.78 X	3	3	4	98.4%
6/01	1	24.0	114.10	77.52 X	3	3	4	98.9%
6/02	1	24.0	94.60	99.47 X	3	3	3	99.3%
6/03	1	24.0	94.80	93.70 X	0	0	0	99.3%
6/04	1	24.0	117.30	82.20 X	0	0	0	99.3%
6/05	1	24.0	117.60	83.88 X	1	1	1	99.5%
6/06	1	24.0	115.40	78.58 X	0	0	0	99.5%
6/07	1	24.0	94.00	83.76 X	2	2	2	99.7%
6/08	1	24.0	89.40	85.16 X	0	0	0	99.7%
6/09	1	24.0	72.80	96.23 X	1	1	1	99.9%
6/10	1	24.0	72.70	98.74 X	0	0	0	99.9%
6/11	1	24.0	93.00	89.72 X	0	0	0	99.9%
6/12	1	24.0	96.40	99.48 X	1	1	1	100.0%

***** CONTINUED *****

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ROCK ISLAND

* * *

STEELHEAD

* * *

LA-7U-1 SU STEELHEAD LOT ID # 05152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 DATE .. PARAMETERS .. AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE SC	(1)		(2)		(3)		(4)	
		#D	GW	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

TOTAL	685	685	739
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: ** (PH2) / (PH1 + PH2 + SPILL) **
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

* * *

STEELHEAD

* * *

RA-7U-1 SU STEELHEAD LOT ID # 85152-01 30,479 RELEASED AT: METHOW R FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
		SC	SI	GW			S	DAILY COUNT	
5/09	1	24.0	156.60	80.81 X	23	23		28	2.4%
5/10	1	24.0	141.20	79.94 X	84	84		105	11.4%
5/11	1	24.0	153.50	78.22 X	68	68		87	18.8%
5/12	1	24.0	156.70	77.86 X	75	75		96	27.1%
5/13	1	24.0	134.60	79.39 X	76	76		96	35.3%
5/14	1	24.0	157.90	79.24 X	81	81		102	44.0%
5/15	1	24.0	148.70	79.20 X	91	91		115	53.9%
5/16	1	24.0	138.50	86.98 X	87	87		100	62.4%
5/17	1	24.0	111.60	90.96 X	90	90		99	70.9%
5/18	1	24.0	122.00	92.39 X	95	95		103	79.7%
5/19	1	24.0	111.80	97.38 X	93	93		96	87.9%
5/20	1	24.0	103.40	99.22 X	40	40		40	91.4%
5/21	7	24.0	135.60	91.17 X	29 *	29 *		32 *	94.1%
5/22	1	24.0	131.70	88.12 X	12	12		14	95.3%
5/23	1	24.0	134.50	90.32 X	20	20		22	97.2%
5/24	1	24.0	135.50	87.93 X	3	3		3	97.4%
5/25	1	24.0	122.30	83.18 X	10	10		12	98.5%
5/26	1	24.0	96.10	90.24 X	2	2		2	98.6%
5/27	1	24.0	91.30	98.56 X	6	6		6	99.1%
5/28	1	24.0	120.00	97.90 X	1	1		1	99.2%
5/29	1	24.0	142.50	81.70 X	2	2		2	99.4%
5/30	1	24.0	146.60	76.54 X	0	0		0	99.4%
5/31	1	24.0	120.00	84.78 X	2	2		2	99.6%
6/01	1	24.0	114.10	77.52 X	2	2		3	99.8%
6/02	1	24.0	94.60	99.47 X	0	0		0	99.8%
6/03	1	24.0	94.80	93.70 X	2	2		2	100.0%
TOTAL					924	924		1,168	

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gateways sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: ** (PH2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)
- #D = Number of accumulated days for sample
 Hrs= Number of hours sampled

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ROCK ISLAND * * * STEELHEAD * * *

RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE SC	PARAMETERS ID-GW-HGS	RIVER FLOW	(2) INDEX FLOW	(3)		... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
					NUMBER SAMPLED	NUMBER COLLECTED			
5/13	1	24.0	134.60	79.39 %	24	24	30	2.8%	
5/14	1	24.0	157.90	79.24 %	106	106	134	15.4%	
5/15	1	24.0	148.70	79.20 %	133	133	168	31.2%	
5/16	1	24.0	138.50	86.98 %	136	136	156	45.9%	
5/17	1	24.0	111.60	90.96 %	117	117	129	58.0%	
5/18	1	24.0	122.00	92.39 %	77	77	83	65.9%	
5/19	1	24.0	111.80	97.38 %	72	72	74	72.8%	
5/20	1	24.0	103.40	99.22 %	49	49	49	77.4%	
5/21	7	24.0	135.60	91.17 %	71 *	71 *	78 *	84.8%	
5/22	1	24.0	131.70	88.12 %	38	38	43	88.8%	
5/23	1	24.0	134.50	90.32 %	41	41	45	93.0%	
5/24	1	24.0	135.50	87.93 %	20	20	23	95.2%	
5/25	1	24.0	122.30	83.18 %	20	20	24	97.5%	
5/26	1	24.0	96.10	90.24 %	5	5	6	98.0%	
5/27	1	24.0	91.30	98.56 %	2	2	2	98.2%	
5/28	1	24.0	120.00	97.90 %	2	2	2	98.4%	
5/29	1	24.0	142.50	81.70 %	4	4	5	98.9%	
5/30	1	24.0	146.60	76.54 %	3	3	4	99.2%	
5/31	1	24.0	120.00	84.78 %	2	2	2	99.4%	
6/01	1	24.0	114.10	77.52 %	1	1	1	99.5%	
6/02	1	24.0	94.60	99.47 %	0	0	0	99.5%	
6/03	1	24.0	94.80	93.70 %	1	1	1	99.6%	
6/04	1	24.0	117.30	82.20 %	0	0	0	99.6%	
6/05	1	24.0	117.60	83.88 %	0	0	0	99.6%	
6/06	1	24.0	115.40	78.58 %	1	1	1	99.7%	
6/07	1	24.0	94.00	83.76 %	0	0	0	99.7%	
6/08	1	24.0	89.40	85.16 %	0	0	0	99.7%	
6/09	1	24.0	72.80	96.23 %	1	1	1	99.8%	
6/10	1	24.0	72.70	98.74 %	0	0	0	99.8%	
6/11	1	24.0	93.00	89.72 %	2	2	2	100.0%	

***** CONTINUED *****

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ROCK ISLAND

* * *

STEELHEAD

* * *

RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: MDG HATCHERY: WELLS-MDG

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ...			DAILY COUNT	CUMULATIVE
	SC = 60	GW = 18.5						

***** C O N T I N U E D *****

<u>TOTAL</u>	928	928	1.063
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- (1) Sample parameters: SC = Sample quality code tD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: ** (PH2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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ROCK ISLAND

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CHINOOK O'S

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LA-T-3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE .. PARAMETERS .. SC--SD--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	PASSAGE INDEX ...	(4) CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			INDEX	
6/03	1	24.0	94.80	93.70 X	2	2	2	0.7%
6/04	1	24.0	117.30	82.20 X	10	10	12	4.6%
6/05	1	24.0	117.60	83.88 X	25	25	30	14.4%
6/06	1	24.0	115.40	78.58 X	11	11	14	19.0%
6/07	1	24.0	94.00	83.76 X	12	12	14	23.5%
6/08	1	24.0	89.40	85.16 X	11	11	13	27.8%
6/09	1	24.0	72.80	96.23 X	10	10	10	31.0%
6/10	1	24.0	72.70	98.74 X	8	8	8	33.7%
6/11	1	24.0	93.00	89.72 X	8	8	9	36.6%
6/12	1	24.0	96.40	99.48 X	2	2	2	37.3%
6/13	1	24.0	100.40	91.65 X	0	0	0	37.3%
6/14	1	24.0	111.60	82.33 X	4	4	5	38.9%
6/15	1	24.0	116.30	81.16 X	4	4	5	40.5%
6/16	1	24.0	99.90	95.55 X	5	5	5	42.2%
6/17	1	24.0	88.20	94.04 X	5	5	5	43.8%
6/18	1	24.0	135.80	75.93 X	3	3	4	45.1%
6/19	1	24.0	147.80	64.71 X	19	19	29	54.6%
6/20	1	24.0	130.70	69.85 X	8	8	11	58.2%
6/21	1	24.0	128.30	72.19 X	16	16	22	65.4%
6/22	1	24.0	102.20	79.45 X	5	5	6	67.3%
6/23	1	24.0	87.10	92.22 X	8	8	9	70.3%
6/24	1	24.0	85.40	95.14 X	12	12	13	74.5%
6/25	1	24.0	100.50	93.96 X	18	18	19	80.7%
6/26	1	24.0	108.20	84.14 X	20	20	24	88.6%
6/27	1	24.0	106.10	89.34 X	11	11	12	92.5%
6/28	1	24.0	117.60	77.53 X	3	3	4	93.8%
6/29	1	24.0	117.10	84.74 X	0	0	0	93.8%
6/30	1	24.0	102.90	84.49 X	0	0	0	93.8%
7/01	1	24.0	95.30	94.38 X	1	1	1	94.1%
7/02	1	24.0	124.10	83.27 X	3	3	4	95.4%
7/03	1	24.0	105.10	89.04 X	4	4	4	96.7%
7/04	1	24.0	87.70	95.04 X	0	0	0	96.7%
7/05	1	24.0	71.00	94.00 X	0	0	0	96.7%
7/06	1	24.0	78.40	94.58 X	0	0	0	96.7%
7/07	1	24.0	85.60	95.04 X	0	0	0	96.7%

***** C O N T I N U E D *****

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ROCK ISLAND

*** CHINOOK O'S ***

LA-T-3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE (1) .. PARAMETERS .. SC SD GW HR S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
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***** C O N T I N U E D *****

7/08	1	24.0	74.60	94.29 %	0	0	0	96.7%
7/09	1	24.0	85.10	90.14 %	0	0	0	96.7%
7/10	1	24.0	84.60	86.24 %	0	0	0	96.7%
7/11	1	24.0	76.30	89.51 %	0	0	0	96.7%
7/12	1	24.0	77.20	94.36 %	0	0	0	96.7%
7/13	1	24.0	65.50	93.32 %	0	0	0	96.7%
7/14	1	24.0	51.30	91.85 %	0	0	0	96.7%
7/15	1	24.0	62.40	93.49 %	0	0	0	96.7%
7/16	1	24.0	97.10	84.66 %	1	1	1	97.1%
7/17	1	24.0	104.00	79.07 %	0	0	0	97.1%
7/18	1	24.0	88.00	88.07 %	0	0	0	97.1%
7/19	1	24.0	75.20	94.07 %	0	0	0	97.1%
7/20	1	24.0	67.40	93.98 %	0	0	0	97.1%
7/21	1	24.0	66.30	93.87 %	0	0	0	97.1%
7/22	1	24.0	69.60	91.56 %	0	0	0	97.1%
7/23	1	24.0	94.30	87.49 %	4	4	5	98.7%
7/24	1	24.0	88.80	83.11 %	0	0	0	98.7%
7/25	1	24.0	81.30	83.56 %	0	0	0	98.7%
7/26	1	24.0	74.60	93.92 %	1	1	1	99.0%
7/27	1	24.0	66.40	93.97 %	0	0	0	99.0%
7/28	1	24.0	57.50	92.97 %	1	1	1	99.3%
7/29	1	24.0	48.00	91.63 %	0	0	0	99.3%
7/30	1	24.0	66.90	94.16 %	0	0	0	99.3%
7/31	1	24.0	59.50	93.17 %	0	0	0	99.3%
8/01	1	24.0	58.40	93.12 %	0	0	0	99.3%
8/02	1	24.0	58.80	93.36 %	0	0	0	99.3%
8/03	1	24.0	48.60	90.64 %	0	0	0	99.3%
8/04	1	24.0	35.00	88.24 %	0	0	0	99.3%
8/05	1	24.0	40.40	88.50 %	0	0	0	99.3%
8/06	1	24.0	63.10	87.96 %	0	0	0	99.3%
8/07	1	24.0	84.50	92.30 %	0	0	0	99.3%
8/08	1	24.0	82.20	92.11 %	0	0	0	99.3%
8/09	1	24.0	74.80	79.97 %	0	0	0	99.3%
8/10	1	24.0	72.90	92.08 %	0	0	0	99.3%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 ** Brand Recapture Summary **

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ROCK ISLAND *** CHINOOK O'S ***

LA-T -3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE .. PARAMETERS .. SC-#D-GW-HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE		
						***	***	***
8/11	1	24.0	59.90	93.21 X	0	0	0	99.3X
8/12	1	24.0	48.50	91.56 X	0	0	0	99.3X
8/13	1	24.0	68.30	94.06 X	1	1	1	99.7X
8/14	1	24.0	86.80	91.03 X	0	0	0	99.7X
8/15	1	24.0	79.30	93.35 X	0	0	0	99.7X
8/16	1	24.0	71.30	94.17 X	1	1	1	100.0X
TOTAL					257	257	306	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: ** (PH2) / (PH1 + PH2 + SPILL) **
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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ROCK ISLAND

* * * CHINOOK O'S * * *

RA-T-3 SU CHINOOK LOT ID # 85118-01 22,515 RELEASED AT: WELLS-WDF FROM: 5/10/85 TO 5/18/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HR.S	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				INDEX
5/16	1	24.0	138.50	86.98 %	1	1	1	2.1%	
5/17	1	24.0	111.60	90.96 %	0	0	0	2.1%	
5/18	1	24.0	122.00	92.39 %	1	1	1	4.3%	
5/19	1	24.0	111.80	97.38 %	0	0	0	4.3%	
5/20	1	24.0	103.40	99.22 %	0	0	0	4.3%	
5/21	7	24.0	135.60	91.17 %	0 *	0 *	0 *	4.3%	
5/22	1	24.0	131.70	88.12 %	0	0	0	4.3%	
5/23	1	24.0	134.50	90.32 %	0	0	0	4.3%	
5/24	1	24.0	135.50	87.93 %	0	0	0	4.3%	
5/25	1	24.0	122.30	83.18 %	0	0	0	4.3%	
5/26	1	24.0	96.10	90.24 %	0	0	0	4.3%	
5/27	1	24.0	91.30	98.56 %	0	0	0	4.3%	
5/28	1	24.0	120.00	97.90 %	0	0	0	4.3%	
5/29	1	24.0	142.50	81.70 %	1	1	1	6.4%	
5/30	1	24.0	146.60	76.54 %	0	0	0	6.4%	
5/31	1	24.0	120.00	84.78 %	2	2	2	10.6%	
6/01	1	24.0	114.10	77.52 %	1	1	1	12.8%	
6/02	1	24.0	94.60	99.47 %	1	1	1	14.9%	
6/03	1	24.0	94.80	93.70 %	0	0	0	14.9%	
6/04	1	24.0	117.30	82.20 %	0	0	0	14.9%	
6/05	1	24.0	117.60	83.88 %	2	2	2	19.1%	
6/06	1	24.0	115.40	78.58 %	1	1	1	21.3%	
6/07	1	24.0	94.00	83.76 %	2	2	2	25.5%	
6/08	1	24.0	89.40	85.16 %	1	1	1	27.7%	
6/09	1	24.0	72.80	96.23 %	0	0	0	27.7%	
6/10	1	24.0	72.70	98.74 %	0	0	0	27.7%	
6/11	1	24.0	93.00	89.72 %	0	0	0	27.7%	
6/12	1	24.0	96.40	99.48 %	1	1	1	29.8%	
6/13	1	24.0	100.40	91.65 %	0	0	0	29.8%	
6/14	1	24.0	111.60	82.33 %	1	1	1	31.9%	
6/15	1	24.0	116.30	81.16 %	2	2	2	36.2%	
6/16	1	24.0	99.90	95.55 %	0	0	0	36.2%	
6/17	1	24.0	88.20	94.04 %	0	0	0	36.2%	
6/18	1	24.0	135.80	75.93 %	2	2	3	42.6%	
6/19	1	24.0	147.80	64.71 %	4	4	6	55.3%	
6/20	1	24.0	130.70	69.85 %	2	2	3	61.7%	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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ROCK ISLAND

* * *

CHINOOK O'S

* * *

RA-T -3 SU CHINOOK LOT ID # 85110-01 22,515 RELEASED AT: WELLS-WDF FROM: 5/10/85 TO 5/18/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC GD GW HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

6/21	1	24.0	128.30	72.19 X	2	2	3	68.1%
6/22	1	24.0	102.20	79.45 X	2	2	3	74.5%
6/23	1	24.0	87.10	92.22 X	2	2	2	78.7%
6/24	1	24.0	85.40	95.14 X	2	2	2	83.0%
6/25	1	24.0	100.50	93.96 X	2	2	2	87.2%
6/26	1	24.0	108.20	84.14 X	3	3	4	95.7%
6/27	1	24.0	106.10	89.34 X	1	1	1	97.9%
6/28	1	24.0	117.60	77.53 X	0	0	0	97.9%
6/29	1	24.0	117.10	84.74 X	0	0	0	97.9%
6/30	1	24.0	102.90	84.49 X	0	0	0	97.9%
7/01	1	24.0	95.30	94.38 X	0	0	0	97.9%
7/02	1	24.0	124.10	83.27 X	1	1	1	100.0%
TOTAL					40	40	47	

- (1) Sample parameters: SC = Sample quality code GD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: * * (PH 2) / (PH1 + PH2 + SPILL) * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

D. McNary Dam

Contractor: National Marine Fisheries Service

Project Leader: Rich Johnson (503-739-2303)

Location: Columbia River, River Mile 292.0

Monitoring Dates: March 29 - September 26, 1985

Sampling Method: A smolt bypass collection system was used to sample fish 24 hours each day. Fish passing through the collection system were subsampled at a variable rate based on the number of fish passing the project. Species and brand composition were assessed for the subsample. The sample period was noon to noon. Additional information on the sampling procedures at McNary Dam is presented in the NMFS annual report (Johnsen and Ranck, 1985).

Separator cleanouts sometimes required modification of the sample period. The separator was cleaned out four times during 1985. The purpose of cleanouts was to remove debris, or to modify and maintain the separator. Buildup of debris in the separator was less of a problem in 1985 than in 1984 because of the addition of a debris bubbler, and because more time was spent manually cleaning the separator in 1985. There appeared to be fewer fish in the separator in 1985, probably because the volume of the separator was reduced by raising the floor six inches. The method used to examine fish from the separator cleanout was as follows: once the sample, taken prior to the cleanout, was completed, the pinch valve leading into the separator was closed. The fish

that typically moved into the separator accumulated in the upwell tank and the pipe (approximately 200 ft) leading into the upwell. Fish from the cleanout were moved out of the separator into the sample holding tanks and examined for species composition and brands.

Analysis of Data: Data from McNary were used for in-season management, assessment of survival, travel time, and migration characteristics. The flow proportion used to expand collection counts to a passage index was estimated as follows:

$$\text{Powerhouse flow} / (\text{Powerhouse flow} + \text{Spill})$$

For separator cleanouts, flow parameters were averaged over the 3 day (72 hour) period following the cleanout (1200 on day of cleanout to 1159 of the third day following the cleanout).

Notes on Data Presentation: Samples taken prior to a separator cleanout are indicated with a sample quality code of 2. Separator cleanout counts are indicated with a sample quality code of 10. FTOT includes separator counts with the collection counts for the sample taken prior to the cleanout. In these data listings the cleanout counts are shown separately.

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MONARY

* * * CHINOOK 1'S * * *

LA-IL-1 SP CHINOOK LOT ID # 85304-01 6,603 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/28/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC--ID--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		... INDEX ...	
4/25	1	24.0	226.20	100.00 X	1	33	33 1.1X
4/26	1	24.0	208.06	100.00 X	0	0	0 1.1X
4/27	1	24.0	186.73	100.00 X	2	31	31 2.1X
4/28	1	24.0	182.12	100.00 X	1	14	14 2.6X
4/29	1	24.0	208.57	100.00 X	4	57	57 4.4X
4/30	1	24.0	206.63	100.00 X	7	100	100 7.7X
5/01	1	24.0	214.77	100.00 X	8	114	114 11.5X
5/02	1	24.0	183.10	100.00 X	16	229	229 19.1X
5/03	1	24.0	213.20	100.00 X	7	100	100 22.3X
5/04	1	24.0	214.28	100.00 X	2	29	29 23.3X
5/05	1	24.0	218.32	100.00 X	5	71	71 25.6X
5/06	1	24.0	243.11	90.11 X	16	229	254 34.0X
5/07	1	24.0	271.65	79.76 X	18	212	266 42.8X
5/08	1	24.0	234.50	93.53 X	9	95	102 46.1X
5/09	1	24.0	233.77	85.71 X	12	171	200 52.7X
5/10	1	24.0	249.76	80.54 X	5	53	56 54.9X
5/11	1	24.0	257.35	79.20 X	3	35	44 56.4X
5/12	1	24.0	249.25	84.34 X	12	126	149 61.3X
5/13	1	24.0	238.86	93.39 X	8	118	126 65.4X
5/14	1	24.0	220.75	100.00 X	7	100	100 68.7X
5/15	1	24.0	234.10	93.53 X	4	57	61 70.7X
5/16	1	24.0	225.04	81.94 X	2	24	29 71.7X
5/17	1	24.0	212.92	100.00 X	6	86	86 74.5X
5/18	1	24.0	217.94	100.00 X	9	129	129 78.8X
5/19	1	24.0	213.18	100.00 X	3	43	43 80.2X
5/20	1	24.0	208.28	100.00 X	2	29	29 81.1X
5/21	1	24.0	228.17	100.00 X	6	86	86 84.0X
5/22	1	24.0	228.01	100.00 X	8	114	114 87.7X
5/23	1	24.0	227.75	100.00 X	5	71	71 90.1X
5/24	1	24.0	225.09	100.00 X	4	57	57 92.0X
5/25	1	24.0	261.27	84.28 X	1	14	17 92.5X
5/26	1	24.0	243.13	91.20 X	10	118	129 96.8X
5/27	1	24.0	208.07	100.00 X	0	0	0 96.8X
5/28	1	24.0	222.11	100.00 X	2	29	29 97.7X
5/29	1	24.0	233.81	94.42 X	0	0	0 97.7X

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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MCNARY

*** CHINOOK 1'S ***

LA-IL-1 SP CHINOOK LOT ID # 85304-01 6,603 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/28/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GW--HRS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
		RIVER FLOW	INDEX FLOW					
***** CONTINUED *****								
5/30	1	24.0	257.16	86.20 X	0	0	0	97.7%
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	97.7%
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	97.7%
6/01	1	26.0	224.90	98.51 X	0	0	0	97.7%
6/02	1	24.0	223.18	100.00 X	2	27	27	98.6%
6/03	1	24.0	213.99	100.00 X	1	14	14	99.1%
6/04	1	24.0	236.00	100.00 X	1	14	14	99.5%
6/05	1	24.0	182.95	100.00 X	0	0	0	99.5%
6/06	1	24.0	196.81	100.00 X	0	0	0	99.5%
6/07	1	24.0	211.60	100.00 X	0	0	0	99.5%
6/08	1	24.0	193.64	100.00 X	0	0	0	99.5%
6/09	1	24.0	203.05	100.00 X	0	0	0	99.5%
6/10	1	24.0	210.63	100.00 X	0	0	0	99.5%
6/11	1	24.0	218.02	100.00 X	0	0	0	99.5%
6/12	1	24.0	195.52	100.00 X	1	14	14	100.0%
TOTAL					210	2,843	3,034	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCDARY

*** CHINOOK 1'S ***

LA-IL-3 SP CHINOOK LOT ID # 85304-04 10,569 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW		DAILY COUNT		
5/18	1	24.0	217.94	100.00 X	16	229	229	3.6X
5/19	1	24.0	213.18	100.00 X	47	671	671	14.3X
5/20	1	24.0	208.28	100.00 X	52	743	743	26.2X
5/21	1	24.0	228.17	100.00 X	65	929	929	41.0X
5/22	1	24.0	228.01	100.00 X	85	1,214	1,214	60.3X
5/23	1	24.0	227.75	100.00 X	55	786	786	72.9X
5/24	1	24.0	225.09	100.00 X	29	414	414	79.5X
5/25	1	24.0	261.27	84.28 X	32	457	542	88.1X
5/26	1	24.0	243.13	91.20 X	11	129	141	90.4X
5/27	1	24.0	208.07	100.00 X	12	150	150	92.7X
5/28	1	24.0	222.11	100.00 X	9	129	129	94.8X
5/29	1	24.0	233.81	94.42 X	1	14	15	95.0X
5/30	1	24.0	257.16	86.20 X	5	63	73	96.2X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	96.2X
5/31	10	0.0	220.78	99.45 X	6 *	6 *	6 *	96.3X
6/01	1	26.0	224.90	98.51 X	1	50	51	97.1X
6/02	1	24.0	223.18	100.00 X	4	53	53	98.0X
6/03	1	24.0	213.99	100.00 X	2	29	29	98.4X
6/04	1	24.0	236.00	100.00 X	0	0	0	98.4X
6/05	1	24.0	182.95	100.00 X	5	71	71	99.6X
6/06	1	24.0	196.81	100.00 X	0	0	0	99.6X
6/07	1	24.0	211.60	100.00 X	1	14	14	99.8X
6/08	1	24.0	193.64	100.00 X	0	0	0	99.8X
6/09	1	24.0	203.05	100.00 X	0	0	0	99.8X
6/10	1	24.0	210.63	100.00 X	1	14	14	100.0X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY * * * CHINOOK 1'S * * *

LA-IL-3 SP CHINOOK LOT ID # 85304-04 10,569 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1) .. PARAMETERS ..	(2) RIVER SC-ID-GW-HRS	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE

***** CONTINUED *****

TOTAL	439	6.165	6.274
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- (1) Sample parameters: SC = Sample quality code \$D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK 1'S * * *

LA-IN-1 SP CHINOOK LOT ID # 85304-02 8,201 RELEASED AT: BELOW PRST RAPI FROM: 4/28/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	.. PARAMETERS ..	SC SD GW HR S					... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/04	1	24.0	214.28	100.00 X	1	14	14		0.4%
5/05	1	24.0	218.32	100.00 X	3	43	43		1.5%
5/06	1	24.0	243.11	90.11 X	8	114	127		4.9%
5/07	1	24.0	271.65	79.76 X	22	259	325		13.6%
5/08	1	24.0	234.50	93.53 X	15	158	169		18.1%
5/09	1	24.0	233.77	85.71 X	19	271	316		26.5%
5/10	1	24.0	249.76	80.54 X	20	211	262		33.4%
5/11	1	24.0	257.35	79.20 X	16	188	237		39.8%
5/12	1	24.0	249.25	84.34 X	42	442	524		53.7%
5/13	1	24.0	238.86	93.39 X	19	279	299		61.7%
5/14	1	24.0	220.75	100.00 X	14	200	200		67.0%
5/15	1	24.0	234.10	93.53 X	10	143	153		71.1%
5/16	1	24.0	225.04	81.94 X	13	153	187		76.1%
5/17	1	24.0	212.92	100.00 X	6	86	86		78.3%
5/18	1	24.0	217.94	100.00 X	4	57	57		79.9%
5/19	1	24.0	213.18	100.00 X	1	14	14		80.2%
5/20	1	24.0	208.28	100.00 X	2	29	29		81.0%
5/21	1	24.0	228.17	100.00 X	6	86	86		83.3%
5/22	1	24.0	228.01	100.00 X	6	86	86		85.6%
5/23	1	24.0	227.75	100.00 X	5	71	71		87.5%
5/24	1	24.0	225.09	100.00 X	3	43	43		88.6%
5/25	1	24.0	261.27	84.28 X	11	157	186		93.6%
5/26	1	24.0	243.13	91.20 X	4	47	52		95.0%
5/27	1	24.0	208.07	100.00 X	1	13	13		95.3%
5/28	1	24.0	222.11	100.00 X	1	14	14		95.7%
5/29	1	24.0	233.81	94.42 X	3	43	46		96.9%
5/30	1	24.0	257.16	86.20 X	2	25	29		97.7%
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *		98.8%
5/31	10	0.0	220.78	99.45 X	2 *	2 *	2 *		98.9%
6/01	1	26.0	224.90	98.51 X	0	0	0		98.9%
6/02	1	24.0	223.18	100.00 X	1	13	13		99.2%
6/03	1	24.0	213.99	100.00 X	2	29	29		100.0%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK 1'S * * *

LA-IN-1 SP CHINOOK LOT ID # 85304-02 8,201 RELEASED AT: BELOW PRST RAPI FROM: 4/28/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC #D GW HR.S	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** CONTINUED *****

TOTAL	263	3,326	3,755
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gateways sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MONARY

*** CHINOOK 1'S ***

LA-IN-3 SP CHINOOK LOT ID # 85304-05 6,779 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS .. SC-D-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		... PASSAGE INDEX ...	
5/23	1	24.0	227.75	100.00 X	2	29	0.8X
5/24	1	24.0	225.09	100.00 X	6	86	3.1X
5/25	1	24.0	261.27	84.28 X	30	429	16.9X
5/26	1	24.0	243.13	91.20 X	45	529	32.5X
5/27	1	24.0	208.07	100.00 X	40	500	46.1X
5/28	1	24.0	222.11	100.00 X	27	386	56.5X
5/29	1	24.0	233.81	94.42 X	36	514	71.2X
5/30	1	24.0	257.16	86.20 X	34	425	84.5X
5/31	2	22.0	260.70	84.66 X	7 *	255 *	92.7X
5/31	10	0.0	220.78	99.45 X	26 *	26 *	93.4X
6/01	1	26.0	224.90	98.51 X	2	100	96.1X
6/02	1	24.0	223.18	100.00 X	1	13	96.5X
6/03	1	24.0	213.99	100.00 X	3	43	97.6X
6/04	1	24.0	236.00	100.00 X	2	29	98.4X
6/05	1	24.0	182.95	100.00 X	2	29	99.2X
6/06	1	24.0	196.81	100.00 X	0	0	99.2X
6/07	1	24.0	211.60	100.00 X	1	14	99.6X
6/08	1	24.0	193.64	100.00 X	0	0	99.6X
6/09	1	24.0	203.05	100.00 X	1	14	100.0X
6/10	1	24.0	210.63	100.00 X	0	0	100.0X
6/11	1	24.0	218.02	100.00 X	0	0	100.0X
6/12	1	24.0	195.52	100.00 X	0	0	100.0X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *
6/13	10	0.0	180.89	100.00 X	1 *	1 *	100.0X

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NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY * * * CHINOOK 1'S * * *

LA-IN-3 SP CHINOOK LOT ID # 85304-05 6,779 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER SC--#D--GW--HR.S	INDEX FLOW			... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	

***** C O N T I N U E D *****

<u>TOTAL</u>	266	3,422	3,699
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(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MONARY

*** CHINOOK 1'S ***

RA-IR-1 SP CHINOOK LOT ID # 85039-01 25,000 RELEASED AT: NACHES R FROM: 4/08/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				INDEX
4/21	1	24.0	240.61	92.94 X	1	7	8	0.2X	
4/22	1	24.0	224.15	98.61 X	0	0	0	0.2X	
4/23	2	24.0	187.47	100.00 X	0 *	0 *	0 *	0.2X	
4/23	10	0.0	210.65	100.00 X	0 *	0 *	0 *	0.2X	
4/24	1	24.0	197.70	100.00 X	0	0	0	0.2X	
4/25	1	24.0	226.20	100.00 X	0	0	0	0.2X	
4/26	1	24.0	208.06	100.00 X	0	0	0	0.2X	
4/27	1	24.0	186.73	100.00 X	0	0	0	0.2X	
4/28	1	24.0	182.12	100.00 X	0	0	0	0.2X	
4/29	1	24.0	208.57	100.00 X	0	0	0	0.2X	
4/30	1	24.0	206.63	100.00 X	1	14	14	0.6X	
5/01	1	24.0	214.77	100.00 X	0	0	0	0.6X	
5/02	1	24.0	183.10	100.00 X	1	14	14	1.0X	
5/03	1	24.0	213.20	100.00 X	1	14	14	1.4X	
5/04	1	24.0	214.28	100.00 X	2	29	29	2.2X	
5/05	1	24.0	218.32	100.00 X	6	86	86	4.6X	
5/06	1	24.0	243.11	90.11 X	7	100	111	7.7X	
5/07	1	24.0	271.65	79.76 X	6	71	89	10.1X	
5/08	1	24.0	234.50	93.53 X	17	179	191	15.4X	
5/09	1	24.0	233.77	85.71 X	8	114	133	19.1X	
5/10	1	24.0	249.76	80.54 X	9	95	118	22.4X	
5/11	1	24.0	257.35	79.20 X	6	71	90	24.9X	
5/12	1	24.0	249.25	84.34 X	6	63	75	27.0X	
5/13	1	24.0	238.86	93.39 X	5	74	79	29.2X	
5/14	1	24.0	220.75	100.00 X	6	86	86	31.5X	
5/15	1	24.0	234.10	93.53 X	8	114	122	34.9X	
5/16	1	24.0	225.04	81.94 X	12	141	172	39.7X	
5/17	1	24.0	212.92	100.00 X	10	143	143	43.7X	
5/18	1	24.0	217.94	100.00 X	5	71	71	45.6X	
5/19	1	24.0	213.18	100.00 X	9	129	129	49.2X	
5/20	1	24.0	208.28	100.00 X	5	71	71	51.2X	
5/21	1	24.0	228.17	100.00 X	7	100	100	54.0X	
5/22	1	24.0	228.01	100.00 X	13	186	186	59.1X	
5/23	1	24.0	227.75	100.00 X	20	286	286	67.0X	
5/24	1	24.0	225.09	100.00 X	11	157	157	71.4X	
5/25	1	24.0	261.27	84.28 X	17	243	288	79.4X	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK 1'S * * *

RA-IR-1 SP CHINOOK LOT ID # 85039-01 25,000 RELEASED AT: NACHES R FROM: 4/08/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE SC	PARAMETERS #D GW HS,S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			

***** C O N T I N U E D *****

5/26	1	24.0	243.13	91.20 %	15	176	193	94.7%
5/27	1	24.0	208.07	100.00 %	7	88	88	87.2%
5/28	1	24.0	222.11	100.00 %	6	86	86	89.6%
5/29	1	24.0	233.81	94.42 %	6	86	91	92.1%
5/30	1	24.0	257.16	86.20 %	0	0	0	92.1%
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	92.1%
5/31	10	0.0	220.78	99.45 %	4 *	4 *	4 *	92.2%
6/01	1	26.0	224.90	98.51 %	0	0	0	92.2%
6/02	1	24.0	223.18	100.00 %	2	27	27	93.0%
6/03	1	24.0	213.99	100.00 %	0	0	0	93.0%
6/04	1	24.0	236.00	100.00 %	2	29	29	93.8%
6/05	1	24.0	182.95	100.00 %	0	0	0	93.8%
6/06	1	24.0	196.81	100.00 %	0	0	0	93.8%
6/07	1	24.0	211.60	100.00 %	2	29	29	94.6%
6/08	1	24.0	193.64	100.00 %	2	29	29	95.4%
6/09	1	24.0	203.05	100.00 %	2	29	29	96.2%
6/10	1	24.0	210.63	100.00 %	0	0	0	96.2%
6/11	1	24.0	218.02	100.00 %	5	71	71	98.1%
6/12	1	24.0	195.52	100.00 %	1	14	14	98.5%
6/13	2	21.0	217.08	100.00 %	0 *	0 *	0 *	98.5%
6/13	10	0.0	180.89	100.00 %	6 *	6 *	6 *	98.7%
6/14	1	27.0	184.50	100.00 %	1	33	33	99.6%
6/15	1	24.0	176.92	100.00 %	1	14	14	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

*** CHINOOK 1'S ***

RA-IR-1 SP CHINOOK LOT ID # 85039-01 25,000 RELEASED AT: NACHES R FROM: 4/08/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			NUMBER SAMPLED
	SC = 0D GW HR.S					

***** CONTINUED *****

<u>TOTAL</u>	261	3,379	3,605
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- (1) Sample parameters: SC = Sample quality code 0D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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MONDAY

CHINOOK 1'S

LA-IS-1 SP CHINOOK LOT ID # 85304-03 14,431 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/12/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC .. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER SC #D GW HR.S	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...		
5/09	1	24.0	233.77	85.71 X	1	14	16	0.2%	
5/10	1	24.0	249.76	80.54 X	4	42	52	0.9%	
5/11	1	24.0	257.35	79.20 X	6	71	90	2.2%	
5/12	1	24.0	249.25	84.34 X	27	284	337	6.9%	
5/13	1	24.0	238.86	93.39 X	54	794	850	18.7%	
5/14	1	24.0	220.75	100.00 X	32	457	457	25.1%	
5/15	1	24.0	234.10	93.53 X	45	643	687	34.6%	
5/16	1	24.0	225.04	81.94 X	53	624	762	45.2%	
5/17	1	24.0	212.92	100.00 X	54	771	771	55.9%	
5/18	1	24.0	217.94	100.00 X	52	743	743	66.3%	
5/19	1	24.0	213.18	100.00 X	43	614	614	74.8%	
5/20	1	24.0	208.28	100.00 X	20	286	286	78.8%	
5/21	1	24.0	228.17	100.00 X	22	314	314	83.2%	
5/22	1	24.0	228.01	100.00 X	20	286	286	87.1%	
5/23	1	24.0	227.75	100.00 X	8	114	114	88.7%	
5/24	1	24.0	225.09	100.00 X	5	71	71	89.7%	
5/25	1	24.0	261.27	84.28 X	8	114	135	91.6%	
5/26	1	24.0	243.13	91.20 X	10	118	129	93.4%	
5/27	1	24.0	208.07	100.00 X	10	125	125	95.1%	
5/28	1	24.0	222.11	100.00 X	6	86	86	96.3%	
5/29	1	24.0	233.81	94.42 X	2	29	31	96.8%	
5/30	1	24.0	257.16	86.20 X	3	38	44	97.4%	
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	98.0%	
5/31	10	0.0	220.78	99.45 X	6 *	6 *	6 *	98.1%	
6/01	1	26.0	224.90	98.51 X	0	0	0	98.1%	
6/02	1	24.0	223.18	100.00 X	3	40	40	98.6%	
6/03	1	24.0	213.99	100.00 X	3	43	43	99.2%	
6/04	1	24.0	236.00	100.00 X	1	14	14	99.4%	
6/05	1	24.0	182.95	100.00 X	0	0	0	99.4%	
6/06	1	24.0	196.81	100.00 X	0	0	0	99.4%	
6/07	1	24.0	211.60	100.00 X	0	0	0	99.4%	
6/08	1	24.0	193.64	100.00 X	2	29	29	99.8%	
6/09	1	24.0	203.05	100.00 X	1	14	14	100.0%	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MONARY

* * * CHINOOK 1'S * * *

LA-IS-1 SP CHINOOK LOT ID # 85304-03 14,431 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/12/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLD	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
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***** CONTINUED *****

<u>TOTAL</u>	502	6,820	7,189
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(1) Sample parameters: SC = Sample quality code 6D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

** Brand Recapture Summary **

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MONARY

*** CHINOOK 1'S ***

LA-IS-3 SP CHINOOK LOT ID # 85304-06 3,117 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/05/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS .. SC SD GW HR.S	(1) RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4)		
						... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE
5/30	1	24.0	257.16	86.20 X	2	25	29	1.6X
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	6.2X
5/31	10	0.0	220.78	99.45 X	26 *	26 *	26 *	7.6X
6/01	1	26.0	224.90	98.51 X	1	50	51	10.4X
6/02	1	24.0	223.18	100.00 X	4	53	53	13.3X
6/03	1	24.0	213.99	100.00 X	1	14	14	14.0X
6/04	1	24.0	236.00	100.00 X	5	71	71	17.9X
6/05	1	24.0	182.95	100.00 X	16	229	229	30.3X
6/06	1	24.0	196.81	100.00 X	24	343	343	48.9X
6/07	1	24.0	211.60	100.00 X	19	271	271	63.5X
6/08	1	24.0	193.64	100.00 X	24	343	343	82.1X
6/09	1	24.0	203.05	100.00 X	13	186	186	92.2X
6/10	1	24.0	210.63	100.00 X	8	114	114	98.4X
6/11	1	24.0	218.02	100.00 X	1	14	14	99.1X
6/12	1	24.0	195.52	100.00 X	0	0	0	99.1X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.1X
6/13	10	0.0	180.89	100.00 X	2 *	2 *	2 *	99.2X
6/14	1	27.0	184.50	100.00 X	0	0	0	99.2X
6/15	1	24.0	176.92	100.00 X	0	0	0	99.2X
6/16	1	24.0	179.20	100.00 X	0	0	0	99.2X
6/17	1	24.0	183.76	100.00 X	0	0	0	99.2X
6/18	1	24.0	170.52	100.00 X	0	0	0	99.2X
6/19	1	24.0	204.46	100.00 X	0	0	0	99.2X
6/20	1	24.0	201.23	100.00 X	0	0	0	99.2X
6/21	1	24.0	189.82	100.00 X	0	0	0	99.2X
6/22	1	24.0	184.08	100.00 X	0	0	0	99.2X
6/23	1	24.0	138.31	100.00 X	0	0	0	99.2X
6/24	1	24.0	157.00	100.00 X	0	0	0	99.2X
6/25	1	24.0	155.94	100.00 X	0	0	0	99.2X
6/26	1	24.0	154.78	100.00 X	0	0	0	99.2X
6/27	1	24.0	154.16	100.00 X	0	0	0	99.2X
6/28	1	24.0	152.23	100.00 X	0	0	0	99.2X
6/29	1	24.0	132.98	100.00 X	0	0	0	99.2X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * *

CHINOOK 1'S

* * *

LA-IS-3 SP CHINOOK LOT ID # 85304-06 3,117 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/05/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE ..	(1) PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	SC	#D	GW	HRS			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
	***** C O N T I N U E D *****								
6/30	1	24.0	131.17	100.00 %	0	0	0	99.2%	
7/01	1	24.0	144.13	100.00 %	0	0	0	99.2%	
7/02	1	24.0	139.01	100.00 %	0	0	0	99.2%	
7/03	1	24.0	164.86	100.00 %	1	14	14	100.0%	
TOTAL					149	1,828	1,846		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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* * * CHINOOK 1'S * * *

ID-R -1 SP CHINOOK LOT ID # 85052-01 34,225 RELEASED AT: RAPID RIVER H FROM: 3/31/85 TO 4/10/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE .. PARAMETERS .. SC-#L-GW-HG,S	(1)		(2)		(3)		(4)		
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE			
4/22	1	24.0	224.15	98.61 %	1	13	13	0.2%		
4/23	2	24.0	187.47	100.00 %	0 *	0 *	0 *	0.2%		
4/23	10	0.0	210.65	100.00 %	2 *	2 *	2 *	0.3%		
4/24	1	24.0	197.70	100.00 %	0	0	0	0.3%		
4/25	1	24.0	226.20	100.00 %	0	0	0	0.3%		
4/26	1	24.0	208.06	100.00 %	1	33	33	0.9%		
4/27	1	24.0	186.73	100.00 %	2	31	31	1.5%		
4/28	1	24.0	182.12	100.00 %	3	43	43	2.3%		
4/29	1	24.0	208.57	100.00 %	3	43	43	3.2%		
4/30	1	24.0	206.63	100.00 %	8	114	114	5.3%		
5/01	1	24.0	214.77	100.00 %	18	257	257	10.3%		
5/02	1	24.0	183.10	100.00 %	16	229	229	14.7%		
5/03	1	24.0	213.20	100.00 %	9	129	129	17.1%		
5/04	1	24.0	214.28	100.00 %	14	200	200	21.0%		
5/05	1	24.0	218.32	100.00 %	14	200	200	24.8%		
5/06	1	24.0	243.11	90.11 %	26	371	412	32.7%		
5/07	1	24.0	271.65	79.76 %	24	282	354	39.5%		
5/08	1	24.0	234.50	93.53 %	33	347	371	46.6%		
5/09	1	24.0	233.77	85.71 %	31	443	517	56.5%		
5/10	1	24.0	249.76	80.54 %	24	253	314	62.5%		
5/11	1	24.0	257.35	79.20 %	22	259	327	68.8%		
5/12	1	24.0	249.25	84.34 %	17	179	212	72.8%		
5/13	1	24.0	238.86	93.39 %	18	265	284	78.3%		
5/14	1	24.0	220.75	100.00 %	17	243	243	82.9%		
5/15	1	24.0	234.10	93.53 %	12	171	183	86.5%		
5/16	1	24.0	225.04	81.94 %	11	129	157	89.5%		
5/17	1	24.0	212.92	100.00 %	6	86	86	91.1%		
5/18	1	24.0	217.94	100.00 %	3	43	43	91.9%		
5/19	1	24.0	213.18	100.00 %	4	57	57	93.0%		
5/20	1	24.0	208.28	100.00 %	4	57	57	94.1%		
5/21	1	24.0	228.17	100.00 %	2	29	29	94.7%		
5/22	1	24.0	228.01	100.00 %	6	86	86	96.3%		
5/23	1	24.0	227.75	100.00 %	2	29	29	96.9%		
5/24	1	24.0	225.09	100.00 %	0	0	0	96.9%		
5/25	1	24.0	261.27	84.28 %	2	29	34	97.5%		

***** CONTINUED *****

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MCNARY * * * CHINOOK 1'S * * *

LD-R -1 SP CHINOOK LOT ID # 85052-01 34,225 RELEASED AT: RAPID RIVER H FROM: 3/31/85 TO 4/10/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--#D--GW--HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...	
							DAILY COUNT	CUMULATIVE
5/26	1	24.0	243.13	91.20 X	1	12	13	97.8%
5/27	1	24.0	208.07	100.00 X	1	13	13	98.0%
5/28	1	24.0	222.11	100.00 X	1	14	14	98.3%
5/29	1	24.0	233.81	94.42 X	2	29	31	98.9%
5/30	1	24.0	257.16	86.20 X	1	13	15	99.2%
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	100.0%
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	100.0%
TOTAL					362	4,769	5,218	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gateways sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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* * * CHINOOK 1'S * * *

LD-R -3 SP CHINOOK LOT ID # 85053-01 35,825 RELEASED AT: HELLS CANYON FROM: 3/18/85 TO 3/20/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE 1	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX	(4) CUMULATIVE
		.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			... INDEX	
4/16	1	24.0	180.91	100.00 X	1	14	14	0.2%
4/17	1	24.0	227.29	97.25 X	1	14	14	0.4%
4/18	1	24.0	260.52	85.87 X	1	14	16	0.6%
4/19	1	24.0	248.98	91.38 X	2	24	26	1.0%
4/20	1	24.0	234.43	96.56 X	9	106	110	2.7%
4/21	1	24.0	240.61	92.94 X	48	327	352	7.9%
4/22	1	24.0	224.15	98.61 X	20	267	271	11.9%
4/23	2	24.0	187.47	100.00 X	24 *	343 *	343 *	16.9%
4/23	10	0.0	210.65	100.00 X	29 *	29 *	29 *	17.4%
4/24	1	24.0	197.70	100.00 X	11	367	367	22.8%
4/25	1	24.0	226.20	100.00 X	20	667	667	32.6%
4/26	1	24.0	208.06	100.00 X	13	433	433	39.0%
4/27	1	24.0	186.73	100.00 X	24	369	369	44.5%
4/28	1	24.0	182.12	100.00 X	32	457	457	51.2%
4/29	1	24.0	208.57	100.00 X	16	229	229	54.6%
4/30	1	24.0	206.63	100.00 X	26	371	371	60.1%
5/01	1	24.0	214.77	100.00 X	30	429	429	66.4%
5/02	1	24.0	183.10	100.00 X	42	600	600	75.3%
5/03	1	24.0	213.20	100.00 X	15	214	214	78.4%
5/04	1	24.0	214.28	100.00 X	16	229	229	81.8%
5/05	1	24.0	218.32	100.00 X	18	257	257	85.6%
5/06	1	24.0	243.11	90.11 X	14	200	222	88.9%
5/07	1	24.0	271.65	79.76 X	9	106	133	90.9%
5/08	1	24.0	234.50	93.53 X	12	126	135	92.9%
5/09	1	24.0	233.77	85.71 X	14	200	233	96.3%
5/10	1	24.0	249.76	80.54 X	6	63	78	97.5%
5/11	1	24.0	257.35	79.20 X	1	12	15	97.7%
5/12	1	24.0	249.25	84.34 X	2	21	25	98.1%
5/13	1	24.0	238.86	93.39 X	0	0	0	98.1%
5/14	1	24.0	220.75	100.00 X	1	14	14	98.3%
5/15	1	24.0	234.10	93.53 X	3	43	46	98.9%
5/16	1	24.0	225.04	81.94 X	2	24	29	99.4%
5/17	1	24.0	212.92	100.00 X	1	14	14	99.6%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY *** CHINOOK 1'S ***

LD-R -3 SP CHINOOK LOT ID # 85053-01 35,825 RELEASED AT: HELLS CANYON FROM: 3/18/85 TO 3/20/85
 AGENCY: IDFG HATCHERY: RAPID RIVER H

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER FLOW	(2) INDEX FLOW	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	SC-GD-GW-HRS			... PASSAGE INDEX ...			DAILY COUNT	CUMULATIVE

***** CONTINUED *****

5/18	1	24.0	217.94	100.00 %	0	0	0	99.6%
5/19	1	24.0	213.18	100.00 %	0	0	0	99.6%
5/20	1	24.0	208.28	100.00 %	0	0	0	99.6%
5/21	1	24.0	228.17	100.00 %	1	14	14	99.8%
5/22	1	24.0	228.01	100.00 %	0	0	0	99.8%
5/23	1	24.0	227.75	100.00 %	0	0	0	99.8%
5/24	1	24.0	225.09	100.00 %	0	0	0	99.8%
5/25	1	24.0	261.27	84.28 %	0	0	0	99.8%
5/26	1	24.0	243.13	91.20 %	0	0	0	99.8%
5/27	1	24.0	208.07	100.00 %	0	0	0	99.8%
5/28	1	24.0	222.11	100.00 %	0	0	0	99.8%
5/29	1	24.0	233.81	94.42 %	1	14	15	100.0%
TOTAL					465	6,611	6,770	

- (1) Sample parameters: SC = Sample quality code GD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * CHINOOK 1'S * * *

RD-R -1 SP CHINOOK LOT ID # 85055-01 39,875 RELEASED AT: SAWTOOTH H FROM: 3/25/85 TO 3/29/85
 AGENCY: IDFG HATCHERY: SAWTOOTH H

DATE 1985	SAMPLE #	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		.. PARAMETERS ..	RIVER FLOW	INDEX FLOW				
4/28	1	24.0	182.12	100.00 X	1	14	14	0.8X
4/29	1	24.0	208.57	100.00 X	0	0	0	0.8X
4/30	1	24.0	206.63	100.00 X	0	0	0	0.8X
5/01	1	24.0	214.77	100.00 X	1	14	14	1.6X
5/02	1	24.0	183.10	100.00 X	0	0	0	1.6X
5/03	1	24.0	213.20	100.00 X	0	0	0	1.6X
5/04	1	24.0	214.28	100.00 X	0	0	0	1.6X
5/05	1	24.0	218.32	100.00 X	0	0	0	1.6X
5/06	1	24.0	243.11	90.11 X	2	29	32	3.5X
5/07	1	24.0	271.65	79.76 X	0	0	0	3.5X
5/08	1	24.0	234.50	93.53 X	1	11	12	4.2X
5/09	1	24.0	233.77	85.71 X	1	14	16	5.1X
5/10	1	24.0	249.76	80.54 X	6	63	78	9.6X
5/11	1	24.0	257.35	79.20 X	9	106	134	17.3X
5/12	1	24.0	249.25	84.34 X	9	95	113	23.9X
5/13	1	24.0	238.86	93.39 X	11	162	173	33.9X
5/14	1	24.0	220.75	100.00 X	5	71	71	38.0X
5/15	1	24.0	234.10	93.53 X	5	71	76	42.3X
5/16	1	24.0	225.04	81.94 X	8	94	115	49.0X
5/17	1	24.0	212.92	100.00 X	8	114	114	55.6X
5/18	1	24.0	217.94	100.00 X	2	29	29	57.3X
5/19	1	24.0	213.18	100.00 X	3	43	43	59.7X
5/20	1	24.0	208.28	100.00 X	2	29	29	61.4X
5/21	1	24.0	228.17	100.00 X	7	100	100	67.2X
5/22	1	24.0	228.01	100.00 X	7	100	100	73.0X
5/23	1	24.0	227.75	100.00 X	2	29	29	74.6X
5/24	1	24.0	225.09	100.00 X	1	14	14	75.4X
5/25	1	24.0	261.27	84.28 X	6	86	102	81.3X
5/26	1	24.0	243.13	91.20 X	10	118	129	88.8X
5/27	1	24.0	208.07	100.00 X	1	13	13	89.5X
5/28	1	24.0	222.11	100.00 X	2	29	29	91.2X
5/29	1	24.0	233.81	94.42 X	1	14	15	92.1X
5/30	1	24.0	257.16	86.20 X	0	0	0	92.1X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	92.1X
5/31	10	0.0	220.78	99.45 X	5 *	5 *	5 *	92.4X

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* * * CHINOOK 1'S * * *

RD-R -1 SP CHINOOK LOT ID # 85055-01 39,875 RELEASED AT: SAWTOOTH H FROM: 3/25/85 TO 3/29/85
 AGENCY: IDFG HATCHERY: SAWTOOTH H

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
SC = 00 GW = HR.S						

***** CONTINUED *****

6/01	1	26.0	224.90	98.51 %	0	0	0	92.4%
6/02	1	24.0	223.18	100.00 %	0	0	0	92.4%
6/03	1	24.0	213.99	100.00 %	1	14	14	93.2%
6/04	1	24.0	236.00	100.00 %	1	14	14	94.0%
6/05	1	24.0	182.95	100.00 %	1	14	14	94.8%
6/06	1	24.0	196.81	100.00 %	0	0	0	94.8%
6/07	1	24.0	211.60	100.00 %	1	14	14	95.6%
6/08	1	24.0	193.64	100.00 %	0	0	0	95.6%
6/09	1	24.0	203.05	100.00 %	0	0	0	95.6%
6/10	1	24.0	210.63	100.00 %	0	0	0	95.6%
6/11	1	24.0	218.02	100.00 %	1	14	14	96.4%
6/12	1	24.0	195.52	100.00 %	0	0	0	96.4%
6/13	2	21.0	217.08	100.00 %	1 *	33 *	33 *	98.3%
6/13	10	0.0	180.89	100.00 %	0 *	0 *	0 *	98.3%
6/14	1	27.0	184.50	100.00 %	0	0	0	98.3%
6/15	1	24.0	176.92	100.00 %	2	29	29	100.0%
TOTAL					124	1,592	1,731	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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* * * CHINOOK 1'S * * *

RD-R -2 SP CHINOOK LOT ID # 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE #	PARAMETERS SC AD GW HR S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				PASSAGE INDEX
4/22	1	24.0	224.15	98.61 X	1	13	13	0.2X	
4/23	2	24.0	187.47	100.00 X	0 *	0 *	0 *	0.2X	
4/23	10	0.0	210.65	100.00 X	1 *	1 *	1 *	0.3X	
4/24	1	24.0	197.70	100.00 X	0	0	0	0.3X	
4/25	1	24.0	226.20	100.00 X	1	33	33	0.9X	
4/26	1	24.0	208.06	100.00 X	2	67	67	2.1X	
4/27	1	24.0	186.73	100.00 X	5	77	77	3.5X	
4/28	1	24.0	182.12	100.00 X	1	14	14	3.8X	
4/29	1	24.0	208.57	100.00 X	5	71	71	5.1X	
4/30	1	24.0	206.63	100.00 X	10	143	143	7.7X	
5/01	1	24.0	214.77	100.00 X	6	86	86	9.2X	
5/02	1	24.0	183.10	100.00 X	10	143	143	11.9X	
5/03	1	24.0	213.20	100.00 X	7	100	100	13.7X	
5/04	1	24.0	214.28	100.00 X	13	186	186	17.1X	
5/05	1	24.0	218.32	100.00 X	17	243	243	21.5X	
5/06	1	24.0	243.11	90.11 X	18	257	285	26.8X	
5/07	1	24.0	271.65	79.76 X	25	294	369	33.5X	
5/08	1	24.0	234.50	93.53 X	30	316	338	39.7X	
5/09	1	24.0	233.77	85.71 X	35	500	583	50.4X	
5/10	1	24.0	249.76	80.54 X	30	316	392	57.6X	
5/11	1	24.0	257.35	79.20 X	20	233	297	63.0X	
5/12	1	24.0	249.25	84.34 X	23	242	287	68.3X	
5/13	1	24.0	238.86	93.39 X	23	338	362	74.9X	
5/14	1	24.0	220.75	100.00 X	17	243	243	79.3X	
5/15	1	24.0	234.10	93.53 X	15	214	229	83.5X	
5/16	1	24.0	225.04	81.94 X	25	294	359	90.1X	
5/17	1	24.0	212.92	100.00 X	13	186	186	93.5X	
5/18	1	24.0	217.94	100.00 X	3	43	43	94.3X	
5/19	1	24.0	213.18	100.00 X	2	29	29	94.8X	
5/20	1	24.0	208.28	100.00 X	3	43	43	95.6X	
5/21	1	24.0	228.17	100.00 X	3	43	43	96.4X	
5/22	1	24.0	228.01	100.00 X	5	71	71	97.7X	
5/23	1	24.0	227.75	100.00 X	0	0	0	97.7X	
5/24	1	24.0	225.09	100.00 X	1	14	14	97.9X	
5/25	1	24.0	261.27	84.28 X	1	14	17	98.3X	

***** CONTINUED *****

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MCNARY * * * CHINOOK 1'S * * *

RD-R -2 SP CHINOOK LOT ID # 85031-01 23,100 RELEASED AT: DWORSHAK NFH FROM: 4/03/85 TO 4/04/85
 AGENCY: USFWS HATCHERY: DWORSHAK NFH

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

5/26	1	24.0	243.13	91.20 %	2	24	26	98.7%
5/27	1	24.0	208.07	100.00 %	1	13	13	99.0%
5/28	1	24.0	222.11	100.00 %	2	29	29	99.5%
5/29	1	24.0	233.81	94.42 X	0	0	0	99.5%
5/30	1	24.0	257.16	86.20 X	0	0	0	99.5%
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	99.5%
5/31	10	0.0	220.78	99.45 %	0 *	0 *	0 *	99.5%
6/01	1	26.0	224.90	98.51 %	0	0	0	99.5%
6/02	1	24.0	223.18	100.00 %	1	13	13	99.7%
6/03	1	24.0	213.99	100.00 %	1	14	14	100.0%
TOTAL					378	4,962	5,462	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK 1'S * * *

RD-R -3 SU CHINOOK LOT ID # 85057-01 25,600 RELEASED AT: S F SALMON R FROM: 4/01/85 TO 4/04/85
 AGENCY: IDFG HATCHERY: MC CALL

DATE 1985	SAMPLE (1)		(2) RIVER FLOW	(3)		NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	SC		fD	GW	HR.S	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
5/03	1	24.0	213.20	100.00	X	1	14	1.2%
5/04	1	24.0	214.28	100.00	X	0	0	1.2%
5/05	1	24.0	218.32	100.00	X	1	14	2.3%
5/06	1	24.0	243.11	90.11	X	0	0	2.3%
5/07	1	24.0	271.65	79.76	X	1	12	3.6%
5/08	1	24.0	234.50	93.53	X	0	0	3.6%
5/09	1	24.0	233.77	85.71	X	1	14	4.9%
5/10	1	24.0	249.76	80.54	X	0	0	4.9%
5/11	1	24.0	257.35	79.20	X	2	24	7.4%
5/12	1	24.0	249.25	84.34	X	4	42	11.6%
5/13	1	24.0	238.86	93.39	X	0	0	11.6%
5/14	1	24.0	220.75	100.00	X	0	0	11.6%
5/15	1	24.0	234.10	93.53	X	5	71	18.0%
5/16	1	24.0	225.04	81.94	X	4	47	22.8%
5/17	1	24.0	212.92	100.00	X	1	14	23.9%
5/18	1	24.0	217.94	100.00	X	0	0	23.9%
5/19	1	24.0	213.18	100.00	X	4	57	28.7%
5/20	1	24.0	208.28	100.00	X	3	43	32.3%
5/21	1	24.0	228.17	100.00	X	1	14	33.5%
5/22	1	24.0	228.01	100.00	X	3	43	37.1%
5/23	1	24.0	227.75	100.00	X	3	43	40.7%
5/24	1	24.0	225.09	100.00	X	2	29	43.1%
5/25	1	24.0	261.27	84.28	X	2	29	45.9%
5/26	1	24.0	243.13	91.20	X	6	71	52.5%
5/27	1	24.0	208.07	100.00	X	1	13	53.6%
5/28	1	24.0	222.11	100.00	X	3	43	57.2%
5/29	1	24.0	233.81	94.42	X	8	114	67.3%
5/30	1	24.0	257.16	86.20	X	1	13	68.5%
5/31	2	22.0	260.70	84.66	X	0 *	0 *	68.5%
5/31	10	0.0	220.78	99.45	X	5 *	5 *	69.0%
6/01	1	26.0	224.90	98.51	X	1	50	73.2%
6/02	1	24.0	223.18	100.00	X	1	13	74.3%
6/03	1	24.0	213.99	100.00	X	7	100	82.7%
6/04	1	24.0	236.00	100.00	X	0	0	82.7%
6/05	1	24.0	182.95	100.00	X	1	14	83.8%

***** CONTINUED *****

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MCNARY

* * * CHINOOK 1'S * * *

RID-R -3 SU CHINOOK LOT ID # 85057-01 25,600 RELEASED AT: S F SALMON R FROM: 4/01/85 TO 4/04/85
 AGENCY: IDFG HATCHERY: MC CALL

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE
SC = #D GW HRS							

***** CONTINUED *****

6/06	1	24.0	196.81	100.00 %	0	0	0	83.8%
6/07	1	24.0	211.60	100.00 %	1	14	14	85.0%
6/08	1	24.0	193.64	100.00 %	2	29	29	87.4%
6/09	1	24.0	203.05	100.00 %	2	29	29	89.9%
6/10	1	24.0	210.63	100.00 %	2	29	29	92.3%
6/11	1	24.0	218.02	100.00 %	2	29	29	94.7%
6/12	1	24.0	195.52	100.00 %	1	14	14	95.9%
6/13	2	21.0	217.08	100.00 %	1 *	33 *	33 *	98.7%
6/13	10	0.0	180.89	100.00 %	2 *	2 *	2 *	98.8%
6/14	1	27.0	184.50	100.00 %	0	0	0	98.8%
6/15	1	24.0	176.92	100.00 %	0	0	0	98.8%
6/16	1	24.0	179.20	100.00 %	0	0	0	98.8%
6/17	1	24.0	183.76	100.00 %	1	14	14	100.0%
TOTAL					86	1,139	1,125	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK 1'S * * *

LA-2C-1 SP CHINOOK LOT ID # 85308-01 7,067 RELEASED AT: BELOW PRST RAPI FROM: 5/01/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC	PARAMETERS SI	RIVER FLOW	(1) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4)		
							... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE
5/06	1	24.0	243.11	90.11 %	2	29	32	1.0%	
5/07	1	24.0	271.65	79.76 %	6	71	89	3.9%	
5/08	1	24.0	234.50	93.53 %	13	137	146	8.6%	
5/09	1	24.0	233.77	85.71 %	19	271	316	18.7%	
5/10	1	24.0	249.76	80.54 %	19	200	248	26.7%	
5/11	1	24.0	257.35	79.20 %	13	153	193	32.9%	
5/12	1	24.0	249.25	84.34 %	20	211	250	40.9%	
5/13	1	24.0	238.86	93.39 %	27	397	425	54.6%	
5/14	1	24.0	220.75	100.00 %	12	171	171	60.1%	
5/15	1	24.0	234.10	93.53 %	8	114	122	64.0%	
5/16	1	24.0	225.04	81.94 %	6	71	87	66.8%	
5/17	1	24.0	212.92	100.00 %	4	57	57	68.6%	
5/18	1	24.0	217.94	100.00 %	7	100	100	71.8%	
5/19	1	24.0	213.18	100.00 %	6	86	86	74.6%	
5/20	1	24.0	208.28	100.00 %	7	100	100	77.8%	
5/21	1	24.0	228.17	100.00 %	11	157	157	82.8%	
5/22	1	24.0	228.01	100.00 %	6	86	86	85.6%	
5/23	1	24.0	227.75	100.00 %	4	57	57	87.4%	
5/24	1	24.0	225.09	100.00 %	3	43	43	88.6%	
5/25	1	24.0	261.27	84.28 %	2	29	34	89.9%	
5/26	1	24.0	243.13	91.20 %	6	71	78	92.4%	
5/27	1	24.0	208.07	100.00 %	5	63	63	94.4%	
5/28	1	24.0	222.11	100.00 %	0	0	0	94.4%	
5/29	1	24.0	233.81	94.42 %	1	14	15	94.9%	
5/30	1	24.0	257.16	86.20 %	1	13	15	95.4%	
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	95.4%	
5/31	10	0.0	220.78	99.45 %	2 *	2 *	2 *	95.5%	
6/01	1	26.0	224.90	98.51 %	0	0	0	95.5%	
6/02	1	24.0	223.18	100.00 %	3	40	40	96.8%	
6/03	1	24.0	213.99	100.00 %	2	29	29	97.7%	
6/04	1	24.0	236.00	100.00 %	2	29	29	98.6%	
6/05	1	24.0	182.95	100.00 %	0	0	0	98.6%	
6/06	1	24.0	196.81	100.00 %	0	0	0	98.6%	

***** CONTINUED *****

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MCNARY

* * * CHINOOK 1'S * * *

LA-2C-1 SP CHINOOK LOT ID # 85308-01 7,067 RELEASED AT: BELOW PRST RAPI FROM: 5/01/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D-GW-HR.S	(1) RIVER FLOW	(2) INDEX FLOW	(3)	(4)		
					NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

6/07	1	24.0	211.60	100.00 %	0	0	0	98.6%
6/08	1	24.0	193.64	100.00 %	2	29	29	99.6%
6/09	1	24.0	203.05	100.00 %	1	14	14	100.0%
TOTAL					220	2,844	3,113	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONARY *** CHINOOK 1'S ***

LA-2C-3 SP CHINOOK LOT ID # 85308-04 4,005 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE #	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		.. PARAMETERS .. SC--#D-GW-HS,S	RIVER FLOW	INDEX FLOW				
5/24	1	24.0	225.09	100.00 X	15	214	214	9.0X
5/25	1	24.0	261.27	84.28 X	28	400	475	28.8X
5/26	1	24.0	243.13	91.20 X	38	447	490	49.3X
5/27	1	24.0	208.07	100.00 X	18	225	225	58.7X
5/28	1	24.0	222.11	100.00 X	6	86	86	62.3X
5/29	1	24.0	233.81	94.42 X	15	214	227	71.8X
5/30	1	24.0	257.16	86.20 X	25	313	363	87.0X
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	90.6X
5/31	10	0.0	220.78	99.45 X	12 *	12 *	12 *	91.1X
6/01	1	26.0	224.90	98.51 X	0	0	0	91.1X
6/02	1	24.0	223.18	100.00 X	2	27	27	92.2X
6/03	1	24.0	213.99	100.00 X	2	29	29	93.4X
6/04	1	24.0	236.00	100.00 X	1	14	14	94.0X
6/05	1	24.0	182.95	100.00 X	5	71	71	97.0X
6/06	1	24.0	196.81	100.00 X	1	14	14	97.6X
6/07	1	24.0	211.60	100.00 X	1	14	14	98.2X
6/08	1	24.0	193.64	100.00 X	0	0	0	98.2X
6/09	1	24.0	203.05	100.00 X	3	43	43	100.0X
6/10	1	24.0	210.63	100.00 X	0	0	0	100.0X
6/11	1	24.0	218.02	100.00 X	0	0	0	100.0X
6/12	1	24.0	195.52	100.00 X	0	0	0	100.0X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	100.0X
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	100.0X

***** CONTINUED *****

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MCNARY

* * * CHINOOK 1'S * * *

LA-2C-3 SP CHINOOK LOT ID # 85308-04 4,005 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE	SAMPLE .. PARAMETERS ..	(1) RIVER	(2) INDEX	(3)	NUMBER	NUMBER	... PASSAGE INDEX ...	(4)
1985	SC = #D GW HR.S	FLOW	FLOW		SAMPLED	COLLECTED	DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

INITIAL	175	2,197	2,391
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK 1'S * * *

LA-2J-1 SF CHINOOK LOT ID # 85308-02 7,404 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/13/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			
5/10	1	24.0	249.76	80.54 X	7	74	92
5/11	1	24.0	257.35	79.20 X	8	94	119
5/12	1	24.0	249.25	84.34 X	17	179	212
5/13	1	24.0	238.86	93.39 X	16	235	252
5/14	1	24.0	220.75	100.00 X	10	143	143
5/15	1	24.0	234.10	93.53 X	7	100	107
5/16	1	24.0	225.04	81.94 X	4	47	57
5/17	1	24.0	212.92	100.00 X	6	86	86
5/18	1	24.0	217.94	100.00 X	49	700	700
5/19	1	24.0	213.18	100.00 X	36	514	514
5/20	1	24.0	208.28	100.00 X	22	314	314
5/21	1	24.0	228.17	100.00 X	26	371	371
5/22	1	24.0	228.01	100.00 X	21	300	300
5/23	1	24.0	227.75	100.00 X	13	186	186
5/24	1	24.0	225.09	100.00 X	5	71	71
5/25	1	24.0	261.27	84.28 X	10	143	170
5/26	1	24.0	243.13	91.20 X	10	118	129
5/27	1	24.0	208.07	100.00 X	7	88	88
5/28	1	24.0	222.11	100.00 X	1	14	14
5/29	1	24.0	233.81	94.42 X	2	29	31
5/30	1	24.0	257.16	86.20 X	3	39	44
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *
5/31	10	0.0	220.78	99.45 X	6 *	6 *	6 *
6/01	1	26.0	224.90	98.51 X	1	50	51
6/02	1	24.0	223.18	100.00 X	1	13	13
6/03	1	24.0	213.99	100.00 X	1	14	14
6/04	1	24.0	236.00	100.00 X	1	14	14
6/05	1	24.0	182.95	100.00 X	1	14	14
6/06	1	24.0	196.81	100.00 X	1	14	14
6/07	1	24.0	211.60	100.00 X	1	14	14
6/08	1	24.0	193.64	100.00 X	0	0	0
6/09	1	24.0	203.05	100.00 X	0	0	0
6/10	1	24.0	210.63	100.00 X	0	0	0
6/11	1	24.0	218.02	100.00 X	1	14	14
							100.0%

***** CONTINUED *****

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MONARY * * * CHINOOK 1'S * * *

LA-2J-1 SP CHINOOK LOT ID # 85308-02 7,404 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/13/85
 AGENCY: NMFS HATCHERY: FROM RIVER

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC = 1 GW = HS, S	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** CONTINUED *****

<u>TOTAL</u>	<u>295</u>	<u>4,033</u>	<u>4,197</u>
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONARY

* * *

CHINOOK 1'S

* * *

LA-2J-3 SP CHINOOK LOT ID # 85308-05 1,679 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/05/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC-#	PARAMETERS HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	0.0%
5/31	10	0.0	220.78	99.45 %	4 *	4 *	4 *	0.4%
6/01	1	26.0	224.90	98.51 %	2	100	102	10.6%
6/02	1	24.0	223.18	100.00 %	12	160	160	26.7%
6/03	1	24.0	213.99	100.00 %	5	71	71	33.8%
6/04	1	24.0	236.00	100.00 %	3	43	43	38.1%
6/05	1	24.0	182.95	100.00 %	5	71	71	45.2%
6/06	1	24.0	196.81	100.00 %	10	143	143	59.6%
6/07	1	24.0	211.60	100.00 %	5	71	71	66.7%
6/08	1	24.0	193.64	100.00 %	3	43	43	71.0%
6/09	1	24.0	203.05	100.00 %	8	114	114	82.4%
6/10	1	24.0	210.63	100.00 %	8	114	114	93.9%
6/11	1	24.0	218.02	100.00 %	0	0	0	93.9%
6/12	1	24.0	195.52	100.00 %	1	14	14	95.3%
6/13	2	21.0	217.08	100.00 %	1 *	33 *	33 *	98.6%
6/13	10	0.0	180.89	100.00 %	0 *	0 *	0 *	98.6%
6/14	1	27.0	184.50	100.00 %	0	0	0	98.6%
6/15	1	24.0	176.92	100.00 %	0	0	0	98.6%
6/16	1	24.0	179.20	100.00 %	0	0	0	98.6%
6/17	1	24.0	183.76	100.00 %	0	0	0	98.6%
6/18	1	24.0	170.52	100.00 %	0	0	0	98.6%
6/19	1	24.0	204.46	100.00 %	0	0	0	98.6%
6/20	1	24.0	201.23	100.00 %	1	14	14	100.0%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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* * * CHINOOK 1'S * * *

LA-2J-3 SP CHINOOK LOT ID # 85308-05 1,679 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/05/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
		RIVER	INDEX	FLOW			... PASSAGE INDEX ...	DAILY COUNT
1985	SC=10 GW=HR.S							

***** CONTINUED *****

TOTAL	68	995	997
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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CHINOOK 1'S

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LA-7C-1 SP CHINOOK LOT ID # 85002-02 35,186 RELEASED AT: WINTHROP NFH FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
	SC	ID	GW	HR.S			DAILY COUNT		
5/01	1	24.0	214.77	100.00 X	1	14	14	0.2X	
5/02	1	24.0	183.10	100.00 X	1	14	14	0.4X	
5/03	1	24.0	213.20	100.00 X	3	43	43	1.1X	
5/04	1	24.0	214.28	100.00 X	0	0	0	1.1X	
5/05	1	24.0	218.32	100.00 X	1	14	14	1.3X	
5/06	1	24.0	243.11	90.11 X	3	43	48	2.1X	
5/07	1	24.0	271.65	79.76 X	7	82	103	3.7X	
5/08	1	24.0	234.50	93.53 X	3	32	34	4.2X	
5/09	1	24.0	233.77	85.71 X	3	43	50	5.0X	
5/10	1	24.0	249.76	80.54 X	5	53	66	6.0X	
5/11	1	24.0	257.35	79.20 X	7	82	104	7.6X	
5/12	1	24.0	249.25	84.34 X	16	168	199	10.7X	
5/13	1	24.0	238.86	93.39 X	11	162	173	13.4X	
5/14	1	24.0	220.75	100.00 X	9	129	129	15.4X	
5/15	1	24.0	234.10	93.53 X	12	171	183	18.2X	
5/16	1	24.0	225.04	81.94 X	17	200	244	22.0X	
5/17	1	24.0	212.92	100.00 X	14	200	200	25.1X	
5/18	1	24.0	217.94	100.00 X	22	314	314	30.0X	
5/19	1	24.0	213.18	100.00 X	20	286	286	34.5X	
5/20	1	24.0	208.28	100.00 X	17	243	243	38.2X	
5/21	1	24.0	228.17	100.00 X	34	486	486	45.8X	
5/22	1	24.0	228.01	100.00 X	23	329	329	50.9X	
5/23	1	24.0	227.75	100.00 X	17	243	243	54.7X	
5/24	1	24.0	225.09	100.00 X	13	186	186	57.5X	
5/25	1	24.0	261.27	84.28 X	18	257	305	62.3X	
5/26	1	24.0	243.13	91.20 X	26	306	336	67.5X	
5/27	1	24.0	208.07	100.00 X	15	188	188	70.4X	
5/28	1	24.0	222.11	100.00 X	26	371	371	76.2X	
5/29	1	24.0	233.81	94.42 X	11	157	166	78.8X	
5/30	1	24.0	257.16	86.20 X	12	150	174	81.5X	
5/31	2	22.0	260.70	84.66 X	4 *	145 *	171 *	84.1X	
5/31	10	0.0	220.78	99.45 X	18 *	18 *	18 *	84.4X	
6/01	1	26.0	224.90	98.51 X	2	100	102	86.0X	
6/02	1	24.0	223.18	100.00 X	15	200	200	89.1X	

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 FISH PASSAGE DATA SYSTEM
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CHINOOK 1'S

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LA-7C-1 SP CHINOOK LOT ID # 85002-02 35,186 RELEASED AT: WINTHROP NFH FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE ..	(1) PARAMETERS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	SC	#P	GH	HR.S				

***** C O N T I N U E D *****

6/03	1	24.0	213.99	100.00 %	10	143	143	91.3%
6/04	1	24.0	236.00	100.00 %	8	114	114	93.1%
6/05	1	24.0	182.95	100.00 %	10	143	143	95.3%
6/06	1	24.0	196.81	100.00 %	6	86	86	96.6%
6/07	1	24.0	211.60	100.00 %	3	43	43	97.3%
6/08	1	24.0	193.64	100.00 %	6	86	86	98.6%
6/09	1	24.0	203.05	100.00 %	4	57	57	99.5%
6/10	1	24.0	210.63	100.00 %	0	0	0	99.5%
6/11	1	24.0	218.02	100.00 %	0	0	0	99.5%
6/12	1	24.0	195.52	100.00 %	0	0	0	99.5%
6/13	2	21.0	217.08	100.00 %	0 *	0 *	0 *	99.5%
6/13	10	0.0	180.89	100.00 %	2 *	2 *	2 *	99.6%
6/14	1	27.0	184.50	100.00 %	0	0	0	99.6%
6/15	1	24.0	176.92	100.00 %	0	0	0	99.6%
6/16	1	24.0	179.20	100.00 %	1	14	14	99.8%
6/17	1	24.0	183.76	100.00 %	0	0	0	99.8%
6/18	1	24.0	170.52	100.00 %	0	0	0	99.8%
6/19	1	24.0	204.46	100.00 %	0	0	0	99.8%
6/20	1	24.0	201.23	100.00 %	0	0	0	99.8%
6/21	1	24.0	189.82	100.00 %	0	0	0	99.8%
6/22	1	24.0	184.08	100.00 %	0	0	0	99.8%
6/23	1	24.0	138.31	100.00 %	0	0	0	99.8%
6/24	1	24.0	157.00	100.00 %	0	0	0	99.8%
6/25	1	24.0	155.94	100.00 %	0	0	0	99.8%
6/26	1	24.0	154.78	100.00 %	0	0	0	99.8%
6/27	1	24.0	154.16	100.00 %	0	0	0	99.8%
6/28	1	24.0	152.23	100.00 %	1	14	14	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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CHINOOK 1'S

* * *

LA-7C-1 SP CHINOOK LOT ID # 85002-02 35,186 RELEASED AT: WINTHROP NFH FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--#D--GW--HB:S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

TOTAL	457	6.131	6.439
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * CHINOOK 1'S * * *

LA-7C-3 SP CHINOOK LOT ID # 85002-03 36,704 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	SC ID GW HR.S					... PASSAGE INDEX ...	DAILY COUNT
4/30	1	24.0	206.63	100.00 X	2	29	29	0.4X
5/01	1	24.0	214.77	100.00 X	1	14	14	0.5X
5/02	1	24.0	183.10	100.00 X	5	71	71	1.5X
5/03	1	24.0	213.20	100.00 X	3	43	43	2.0X
5/04	1	24.0	214.28	100.00 X	0	0	0	2.0X
5/05	1	24.0	218.32	100.00 X	2	29	29	2.4X
5/06	1	24.0	243.11	90.11 X	8	114	127	4.0X
5/07	1	24.0	271.65	79.76 X	12	141	177	6.2X
5/08	1	24.0	234.50	93.53 X	8	84	90	7.4X
5/09	1	24.0	233.77	85.71 X	7	100	117	8.9X
5/10	1	24.0	249.76	80.54 X	8	84	104	10.2X
5/11	1	24.0	257.35	79.20 X	9	106	134	11.9X
5/12	1	24.0	249.25	84.34 X	27	284	337	16.2X
5/13	1	24.0	238.86	93.39 X	23	338	362	20.8X
5/14	1	24.0	220.75	100.00 X	11	157	157	22.8X
5/15	1	24.0	234.10	93.53 X	17	243	260	26.1X
5/16	1	24.0	225.04	81.94 X	38	447	546	33.1X
5/17	1	24.0	212.92	100.00 X	21	300	300	36.9X
5/18	1	24.0	217.94	100.00 X	23	329	329	41.1X
5/19	1	24.0	213.18	100.00 X	35	500	500	47.5X
5/20	1	24.0	208.28	100.00 X	28	400	400	52.6X
5/21	1	24.0	228.17	100.00 X	32	457	457	58.4X
5/22	1	24.0	228.01	100.00 X	30	429	429	63.9X
5/23	1	24.0	227.75	100.00 X	20	286	286	67.5X
5/24	1	24.0	225.09	100.00 X	17	243	243	70.6X
5/25	1	24.0	261.27	84.28 X	23	329	390	75.6X
5/26	1	24.0	243.13	91.20 X	25	294	322	79.7X
5/27	1	24.0	208.07	100.00 X	15	188	188	82.1X
5/28	1	24.0	222.11	100.00 X	10	143	143	83.9X
5/29	1	24.0	233.81	94.42 X	10	143	151	85.9X
5/30	1	24.0	257.16	86.20 X	17	213	247	89.0X
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	90.1X
5/31	10	0.0	220.78	99.45 X	5 *	5 *	5 *	90.2X
6/01	1	26.0	224.90	98.51 X	3	150	152	92.1X

***** CONTINUED *****

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* * * CHINOOK 1'S * * *

LA-7C-3 SP CHINOOK LOT ID # 85002-03 36,704 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	SC	SD	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

6/02	1	24.0	223.18	100.00 X	12	160	160	94.1X
6/03	1	24.0	213.99	100.00 X	6	86	86	95.2X
6/04	1	24.0	236.00	100.00 X	2	29	29	95.6X
6/05	1	24.0	182.95	100.00 X	5	71	71	96.5X
6/06	1	24.0	196.81	100.00 X	4	57	57	97.2X
6/07	1	24.0	211.60	100.00 X	1	14	14	97.4X
6/08	1	24.0	193.64	100.00 X	2	29	29	97.8X
6/09	1	24.0	203.05	100.00 X	5	71	71	98.7X
6/10	1	24.0	210.63	100.00 X	3	43	43	99.2X
6/11	1	24.0	218.02	100.00 X	2	29	29	99.6X
6/12	1	24.0	195.52	100.00 X	1	14	14	99.8X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.8X
6/13	10	0.0	180.89	100.00 X	3 *	3 *	3 *	99.8X
6/14	1	27.0	184.50	100.00 X	0	0	0	99.8X
6/15	1	24.0	176.92	100.00 X	0	0	0	99.8X
6/16	1	24.0	179.20	100.00 X	1	14	14	100.0X
<u>TOTAL</u>					544	7,386	7,845	

- (1) Sample parameters: SC = Sample quality code SD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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*** CHINOOK 1'S ***

LA-7F-1 SF CHINOOK LOT ID # 85002-05 12,568 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		DAILY COUNT	CUMULATIVE
5/02	1	24.0	183.10	100.00 X	2	29	29	1.1X
5/03	1	24.0	213.20	100.00 X	3	43	43	2.6X
5/04	1	24.0	214.28	100.00 X	0	0	0	2.6X
5/05	1	24.0	218.32	100.00 X	1	14	14	3.2X
5/06	1	24.0	243.11	90.11 X	5	71	79	6.1X
5/07	1	24.0	271.65	79.76 X	1	12	15	6.6X
5/08	1	24.0	234.50	93.53 X	2	21	22	7.4X
5/09	1	24.0	233.77	85.71 X	4	57	67	9.9X
5/10	1	24.0	249.76	80.54 X	1	11	14	10.4X
5/11	1	24.0	257.35	79.20 X	3	35	44	12.0X
5/12	1	24.0	249.25	84.34 X	9	95	113	16.2X
5/13	1	24.0	238.86	93.39 X	8	118	126	20.8X
5/14	1	24.0	220.75	100.00 X	2	29	29	21.9X
5/15	1	24.0	234.10	93.53 X	3	43	46	23.5X
5/16	1	24.0	225.04	81.94 X	9	106	129	28.3X
5/17	1	24.0	212.92	100.00 X	12	171	171	34.6X
5/18	1	24.0	217.94	100.00 X	14	200	200	41.9X
5/19	1	24.0	213.18	100.00 X	10	143	143	47.2X
5/20	1	24.0	208.28	100.00 X	12	171	171	53.4X
5/21	1	24.0	228.17	100.00 X	10	143	143	58.7X
5/22	1	24.0	228.01	100.00 X	12	171	171	65.0X
5/23	1	24.0	227.75	100.00 X	4	57	57	67.1X
5/24	1	24.0	225.09	100.00 X	6	86	86	70.2X
5/25	1	24.0	261.27	84.28 X	4	57	68	72.7X
5/26	1	24.0	243.13	91.20 X	8	94	103	76.5X
5/27	1	24.0	208.07	100.00 X	6	75	75	79.3X
5/28	1	24.0	222.11	100.00 X	7	100	100	82.7X
5/29	1	24.0	233.81	94.42 X	3	43	46	84.6X
5/30	1	24.0	257.16	86.20 X	1	13	15	85.2X
5/31	2	22.0	260.70	84.66 X	4 *	145 *	171 *	91.4X
5/31	10	0.0	220.78	99.45 X	7 *	7 *	7 *	91.7X
6/01	1	26.0	224.90	98.51 X	0	0	0	91.7X
6/02	1	24.0	223.18	100.00 X	4	53	53	93.6X
6/03	1	24.0	213.99	100.00 X	3	43	43	95.2X

***** CONTINUED *****

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* * * CHINOOK 1'S * * *

LA-7F-1 SP CHINOOK LOT ID # 85002-05 12,568 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
							DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/04	1	24.0	236.00	100.00 X	2	29	29	96.3X
6/05	1	24.0	182.95	100.00 X	2	29	29	97.4X
6/06	1	24.0	196.81	100.00 X	3	43	43	98.9%
6/07	1	24.0	211.60	100.00 X	0	0	0	98.9%
6/08	1	24.0	193.64	100.00 X	0	0	0	98.9%
6/09	1	24.0	203.05	100.00 X	0	0	0	98.9%
6/10	1	24.0	210.63	100.00 X	1	14	14	99.4X
6/11	1	24.0	218.02	100.00 X	1	14	14	100.0X
6/12	1	24.0	195.52	100.00 X	0	0	0	100.0X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	100.0X
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	100.0X
<hr/>					120	2,586	2,723	<hr/>

IDIDL

(1) Sample parameters: SC = Sample quality code ID = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

*** CHINOOK 1'S ***

LA-TK-1 SF CHINOOK LOT ID # 85002-01 34,959 RELEASED AT: WINTHROP NFH FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HRS	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
							... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE
5/07	1	24.0	271.65	79.76 X	1	12	15	0.2%	
5/08	1	24.0	234.50	93.53 X	2	21	22	0.6%	
5/09	1	24.0	233.77	85.71 X	1	14	16	0.8%	
5/10	1	24.0	249.76	80.54 X	9	95	118	2.6%	
5/11	1	24.0	257.35	79.20 X	6	71	90	4.0%	
5/12	1	24.0	249.25	84.34 X	12	126	149	6.3%	
5/13	1	24.0	238.86	93.39 X	9	132	141	8.5%	
5/14	1	24.0	220.75	100.00 X	8	114	114	10.3%	
5/15	1	24.0	234.10	93.53 X	14	200	214	13.6%	
5/16	1	24.0	225.04	81.94 X	19	224	273	17.8%	
5/17	1	24.0	212.92	100.00 X	15	214	214	21.1%	
5/18	1	24.0	217.94	100.00 X	24	343	343	26.4%	
5/19	1	24.0	213.18	100.00 X	1	14	14	26.6%	
5/20	1	24.0	208.28	100.00 X	16	229	229	30.1%	
5/21	1	24.0	228.17	100.00 X	28	400	400	36.3%	
5/22	1	24.0	228.01	100.00 X	29	414	414	42.7%	
5/23	1	24.0	227.75	100.00 X	16	229	229	46.2%	
5/24	1	24.0	225.09	100.00 X	9	129	129	48.2%	
5/25	1	24.0	261.27	84.28 X	13	186	221	51.6%	
5/26	1	24.0	243.13	91.20 X	31	345	400	57.8%	
5/27	1	24.0	208.07	100.00 X	36	450	450	64.8%	
5/28	1	24.0	222.11	100.00 X	15	214	214	68.1%	
5/29	1	24.0	233.81	94.42 X	20	286	303	72.7%	
5/30	1	24.0	257.16	86.20 X	9	113	131	74.8%	
5/31	2	22.0	260.70	84.66 X	5 *	182 *	215 *	78.1%	
5/31	10	0.0	220.78	99.45 X	20 *	20 *	20 *	78.4%	
6/01	1	26.0	224.90	98.51 X	4	200	203	81.5%	
6/02	1	24.0	223.18	100.00 X	16	213	213	84.8%	
6/03	1	24.0	213.99	100.00 X	12	171	171	87.4%	
6/04	1	24.0	236.00	100.00 X	8	114	114	89.2%	
6/05	1	24.0	182.95	100.00 X	14	200	200	92.3%	
6/06	1	24.0	196.81	100.00 X	7	100	100	93.8%	
6/07	1	24.0	211.60	100.00 X	13	186	186	96.7%	

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MCNARY * * * CHINOOK 1'S * * *

LA-7K-1 SP CHINOOK LOT ID # 85002-01 34,959 RELEASED AT: WINTHROP NFH FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE ..	(1) PARAMETERS SC #D GW HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
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***** C O N T I N U E D *****

6/08	1	24.0	193.64	100.00 X	0	0	0	96.7%
6/09	1	24.0	203.05	100.00 X	5	71	71	97.8%
6/10	1	24.0	210.63	100.00 X	2	29	29	98.3%
6/11	1	24.0	218.02	100.00 X	2	29	29	98.7%
6/12	1	24.0	195.52	100.00 X	0	0	0	98.7%
6/13	2	21.0	217.08	100.00 X	1 *	33 *	33 *	99.2%
6/13	10	0.0	180.89	100.00 X	4 *	4 *	4 *	99.3%
6/14	1	27.0	184.50	100.00 X	1	33	33	99.8%
6/15	1	24.0	176.92	100.00 X	0	0	0	99.8%
6/16	1	24.0	179.20	100.00 X	1	14	14	100.0%
TOTAL					458	6,194	6,478	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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FISH PASSAGE DATA SYSTEM

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*** CHINOOK 1'S ***

LA-7T-1 SP CHINOOK LOT ID # 85002-04 5,890 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC #D GW HS.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
4/28	1	24.0	182.12	100.00 X	1	14	1.1X
4/29	1	24.0	208.57	100.00 X	0	0	1.1X
4/30	1	24.0	206.63	100.00 X	0	0	1.1X
5/01	1	24.0	214.77	100.00 X	0	0	1.1X
5/02	1	24.0	183.10	100.00 X	0	0	1.1X
5/03	1	24.0	213.20	100.00 X	1	14	2.2X
5/04	1	24.0	214.28	100.00 X	0	0	2.2X
5/05	1	24.0	218.32	100.00 X	2	29	4.5X
5/06	1	24.0	243.11	90.11 X	4	57	9.6X
5/07	1	24.0	271.65	79.76 X	0	0	9.6X
5/08	1	24.0	234.50	93.53 X	1	11	10.5X
5/09	1	24.0	233.77	85.71 X	1	14	11.8X
5/10	1	24.0	249.76	80.54 X	3	32	15.0X
5/11	1	24.0	257.35	79.20 X	1	12	16.2X
5/12	1	24.0	249.25	84.34 X	4	42	20.2X
5/13	1	24.0	238.86	93.39 X	6	88	27.7X
5/14	1	24.0	220.75	100.00 X	1	14	28.8X
5/15	1	24.0	234.10	93.53 X	0	0	28.8X
5/16	1	24.0	225.04	81.94 X	4	47	33.4X
5/17	1	24.0	212.92	100.00 X	2	29	35.7X
5/18	1	24.0	217.94	100.00 X	4	57	40.2X
5/19	1	24.0	213.18	100.00 X	5	71	45.9X
5/20	1	24.0	208.28	100.00 X	1	14	47.0X
5/21	1	24.0	228.17	100.00 X	2	29	49.3X
5/22	1	24.0	228.01	100.00 X	3	43	52.8X
5/23	1	24.0	227.75	100.00 X	5	71	58.4X
5/24	1	24.0	225.09	100.00 X	2	29	60.7X
5/25	1	24.0	261.27	84.28 X	2	29	63.4X
5/26	1	24.0	243.13	91.20 X	4	47	67.6X
5/27	1	24.0	208.07	100.00 X	6	75	73.6X
5/28	1	24.0	222.11	100.00 X	6	86	80.4X
5/29	1	24.0	233.81	94.42 X	2	29	82.9X
5/30	1	24.0	257.16	86.20 X	1	13	84.1X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	84.1X
5/31	10	0.0	220.78	99.45 X	1 *	1 *	84.2X

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MCNARY * * * CHINOOK 1'S * * *

LA-7T-1 SF CHINOOK LOT ID # 85002-04 5,890 RELEASED AT: WINTHROP NFH FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC #D GW HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
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***** C O N T I N U E D *****

6/01	1	26.0	224.90	98.51 X	0	0	0	84.2%
6/02	1	24.0	223.18	100.00 X	2	27	27	86.4%
6/03	1	24.0	213.99	100.00 X	6	86	86	93.2%
6/04	1	24.0	236.00	100.00 X	0	0	0	93.2%
6/05	1	24.0	182.95	100.00 X	1	14	14	94.3%
6/06	1	24.0	196.81	100.00 X	2	29	29	96.6%
6/07	1	24.0	211.60	100.00 X	1	14	14	97.8%
6/08	1	24.0	193.64	100.00 X	1	14	14	98.9%
6/09	1	24.0	203.05	100.00 X	1	14	14	100.0%
<hr/>					82	1.125	1.253	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * CHINOOK 1'S * * *

LA-7T-3 SP CHINOOK LOT ID # 85036-01 12,695 RELEASED AT: BELOW PRST RAPI FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER FLOW	INDEX FLOW						
4/21	1	24.0	240.61	92.94 %	2	14	15	0.3%	
4/22	1	24.0	224.15	98.61 %	2	27	27	0.9%	
4/23	2	24.0	187.47	100.00 %	1 *	14 *	14 *	1.1%	
4/23	10	0.0	210.65	100.00 %	5 *	5 *	5 *	1.2%	
4/24	1	24.0	197.70	100.00 %	1	33	33	1.9%	
4/25	1	24.0	226.20	100.00 %	0	0	0	1.9%	
4/26	1	24.0	208.06	100.00 %	2	67	67	3.3%	
4/27	1	24.0	186.73	100.00 %	8	123	123	5.8%	
4/28	1	24.0	182.12	100.00 %	5	71	71	7.2%	
4/29	1	24.0	208.57	100.00 %	7	100	100	9.2%	
4/30	1	24.0	206.63	100.00 %	4	57	57	10.4%	
5/01	1	24.0	214.77	100.00 %	13	186	186	14.2%	
5/02	1	24.0	183.10	100.00 %	23	329	329	20.9%	
5/03	1	24.0	213.20	100.00 %	16	229	229	25.5%	
5/04	1	24.0	214.28	100.00 %	4	57	57	26.7%	
5/05	1	24.0	218.32	100.00 %	10	143	143	29.6%	
5/06	1	24.0	243.11	90.11 %	16	229	254	34.7%	
5/07	1	24.0	271.65	79.76 %	12	141	177	38.3%	
5/08	1	24.0	234.50	93.53 %	13	137	146	41.3%	
5/09	1	24.0	233.77	85.71 %	24	343	400	49.4%	
5/10	1	24.0	249.76	80.54 %	16	168	209	53.7%	
5/11	1	24.0	257.35	79.20 %	10	118	149	56.7%	
5/12	1	24.0	249.25	84.34 %	18	189	224	61.2%	
5/13	1	24.0	238.86	93.39 %	25	368	394	69.2%	
5/14	1	24.0	220.75	100.00 %	18	257	257	74.5%	
5/15	1	24.0	234.10	93.53 %	11	157	168	77.9%	
5/16	1	24.0	225.04	81.94 %	9	106	129	80.5%	
5/17	1	24.0	212.92	100.00 %	13	186	186	84.3%	
5/18	1	24.0	217.94	100.00 %	12	171	171	87.7%	
5/19	1	24.0	213.18	100.00 %	11	157	157	90.9%	
5/20	1	24.0	208.28	100.00 %	5	71	71	92.4%	
5/21	1	24.0	228.17	100.00 %	4	57	57	93.5%	
5/22	1	24.0	228.01	100.00 %	5	71	71	95.0%	
5/23	1	24.0	227.75	100.00 %	7	100	100	97.0%	

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* * * CHINOOK 1'S * * *

LA-7T-3 SP CHINOOK LOT ID # 85036-01 12,695 RELEASED AT: BELOW PRST RAPI FROM: 4/16/85 TO 4/16/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC #D GW HB:S	(1) RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
						... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
***** C O N T I N U E D *****							
5/24	1	24.0	225.09	100.00 X	4	57	57 98.2%
5/25	1	24.0	261.27	84.28 X	1	14	17 98.5%
5/26	1	24.0	243.13	91.20 X	1	12	13 98.8%
5/27	1	24.0	208.07	100.00 X	0	0	0 98.8%
5/28	1	24.0	222.11	100.00 X	2	29	29 99.4%
5/29	1	24.0	233.81	94.42 X	2	29	31 100.0%
5/30	1	24.0	257.16	86.20 X	0	0	0 100.0%
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 * 100.0%
5/31	10	0.0	220.78	99.45 X	1 *	1 *	1 * 100.0%
TOTAL				343	4,623	4,924	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * CHINOOK 1'S * * *

RA-7T-1 SP CHINOOK LOT ID # 85036-03 12,299 RELEASED AT: BELOW PRST RAPI FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	.. PARAMETERS .. SC ID GH HS S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
		RIVER FLOW	INDEX FLOW	DAILY COUNT			CUMULATIVE	
4/28	1	24.0	182.12	100.00 X	1	14	14	0.2%
4/29	1	24.0	208.57	100.00 X	6	86	86	1.7%
4/30	1	24.0	206.63	100.00 X	10	143	143	4.2%
5/01	1	24.0	214.77	100.00 X	10	143	143	6.7%
5/02	1	24.0	183.10	100.00 X	20	286	286	11.6%
5/03	1	24.0	213.20	100.00 X	15	214	214	15.3%
5/04	1	24.0	214.28	100.00 X	6	86	86	16.8%
5/05	1	24.0	218.32	100.00 X	14	200	200	20.2%
5/06	1	24.0	243.11	90.11 X	19	271	301	25.4%
5/07	1	24.0	271.65	79.76 X	23	271	340	31.3%
5/08	1	24.0	234.50	93.53 X	21	221	236	35.3%
5/09	1	24.0	233.77	85.71 X	20	286	334	41.1%
5/10	1	24.0	249.76	80.54 X	17	179	222	44.9%
5/11	1	24.0	257.35	79.20 X	14	165	208	48.5%
5/12	1	24.0	249.25	84.34 X	23	242	287	53.5%
5/13	1	24.0	238.86	93.39 X	17	250	268	58.1%
5/14	1	24.0	220.75	100.00 X	17	243	243	62.3%
5/15	1	24.0	234.10	93.53 X	21	300	321	67.8%
5/16	1	24.0	225.04	81.94 X	28	329	402	74.8%
5/17	1	24.0	212.92	100.00 X	17	243	243	79.0%
5/18	1	24.0	217.94	100.00 X	11	157	157	81.7%
5/19	1	24.0	213.18	100.00 X	13	186	186	84.9%
5/20	1	24.0	208.28	100.00 X	10	143	143	87.3%
5/21	1	24.0	228.17	100.00 X	9	129	129	89.6%
5/22	1	24.0	228.01	100.00 X	13	186	186	92.8%
5/23	1	24.0	227.75	100.00 X	4	57	57	93.8%
5/24	1	24.0	225.09	100.00 X	6	86	86	95.2%
5/25	1	24.0	261.27	84.28 X	3	43	51	96.1%
5/26	1	24.0	243.13	91.20 X	2	24	26	96.6%
5/27	1	24.0	208.07	100.00 X	2	25	25	97.0%
5/28	1	24.0	222.11	100.00 X	1	14	14	97.2%
5/29	1	24.0	233.81	94.42 X	4	57	60	98.3%
5/30	1	24.0	257.16	86.20 X	0	0	0	98.3%
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	99.0%

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* * *

CHINOOK 1'S

* * *

RA-7T-1 SP CHINOOK LOT ID # 85036-03 12,299 RELEASED AT: BELOW PRST RAPI FROM: 4/24/85 TO 4/24/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC--ID--GW--HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

5/31	10	0.0	220.78	99.45 %	0 *	0 *	0 *	99.0%
6/01	1	26.0	224.90	98.51 %	0	0	0	99.0%
6/02	1	24.0	223.18	100.00 %	0	0	0	99.0%
6/03	1	24.0	213.99	100.00 %	2	29	29	99.5%
6/04	1	24.0	236.00	100.00 %	0	0	0	99.5%
6/05	1	24.0	182.95	100.00 %	0	0	0	99.5%
6/06	1	24.0	196.81	100.00 %	0	0	0	99.5%
6/07	1	24.0	211.60	100.00 %	1	14	14	99.8%
6/08	1	24.0	193.64	100.00 %	1	14	14	100.0%

TOTAL 402 5,372 5,797

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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MONDAY

CHINOOK 1'S

RA-7T-3 SP CHINOOK LOT ID # 85036-02 12,451 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	(4)	
		RIVER FLOW	INDEX FLOW	... PASSAGE DAILY COUNT			INDEX CUMULATIVE	
4/26	1	24.0	208.06	100.00 X	6	200	200	3.6X
4/27	1	24.0	186.73	100.00 X	1	15	15	3.8X
4/28	1	24.0	182.12	100.00 X	6	86	86	5.4X
4/29	1	24.0	208.57	100.00 X	10	143	143	7.9X
4/30	1	24.0	206.63	100.00 X	8	114	114	10.0X
5/01	1	24.0	214.77	100.00 X	10	143	143	12.5X
5/02	1	24.0	183.10	100.00 X	18	257	257	17.1X
5/03	1	24.0	213.20	100.00 X	1	14	14	17.4X
5/04	1	24.0	214.28	100.00 X	10	143	143	19.9X
5/05	1	24.0	218.32	100.00 X	10	143	143	22.5X
5/06	1	24.0	243.11	90.11 X	13	186	206	26.1X
5/07	1	24.0	271.65	79.76 X	15	176	221	30.1X
5/08	1	24.0	234.50	93.53 X	24	253	271	34.9X
5/09	1	24.0	233.77	85.71 X	12	171	200	38.5X
5/10	1	24.0	249.76	80.54 X	19	200	248	42.9X
5/11	1	24.0	257.35	79.20 X	7	82	104	44.8X
5/12	1	24.0	249.25	84.34 X	30	316	375	51.5X
5/13	1	24.0	238.86	93.39 X	25	368	394	58.5X
5/14	1	24.0	220.75	100.00 X	15	214	214	62.3X
5/15	1	24.0	234.10	93.53 X	19	271	290	67.5X
5/16	1	24.0	225.04	81.94 X	22	259	316	73.1X
5/17	1	24.0	212.92	100.00 X	17	243	243	77.5X
5/18	1	24.0	217.94	100.00 X	10	143	143	80.0X
5/19	1	24.0	213.18	100.00 X	11	157	157	82.8X
5/20	1	24.0	208.28	100.00 X	13	186	186	86.2X
5/21	1	24.0	228.17	100.00 X	10	143	143	88.7X
5/22	1	24.0	228.01	100.00 X	6	86	86	90.3X
5/23	1	24.0	227.75	100.00 X	11	157	157	93.1X
5/24	1	24.0	225.09	100.00 X	6	86	86	94.6X
5/25	1	24.0	261.27	84.28 X	4	57	68	95.8X
5/26	1	24.0	243.13	91.20 X	8	94	103	97.6X
5/27	1	24.0	208.07	100.00 X	6	75	75	99.0X
5/28	1	24.0	222.11	100.00 X	1	14	14	99.2X
5/29	1	24.0	233.81	94.42 X	1	14	15	99.5X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY * * * CHINOOK 1'S * * *

RA-7T-3 SP CHINOOK LOT ID # 85036-02 12,451 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/20/85
 AGENCY: USFWS HATCHERY: WINTHROP NFH

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

5/30	1	24.0	257.16	86.20 %	1	13	15	99.8%
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	99.8%
5/31	10	0.0	220.78	99.45 %	0 *	0 *	0 *	99.8%
6/01	1	26.0	224.90	98.51 %	0	0	0	99.8%
6/02	1	24.0	223.18	100.00 %	1	13	13	100.0%
TOTAL					387	5,235	5,601	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MONARY

* * * CHINOOK 1'S * * *

LA-7U-1 SP CHINOOK LOT ID # 85003-01 30,422 RELEASED AT: LEAVENWORTH NFH FROM: 4/13/85 TO 4/13/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE (1)		(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...			(4) CUMULATIVE
	.. PARAMETERS ..	SC-ID-GW-HRS					... DAILY COUNT ...	INDEX	...	
4/23	2	24.0	187.47	100.00 X	1 *	14 *	14 *	14 *	0.2X	
4/23	10	0.0	210.65	100.00 X	0 *	0 *	0 *	0 *	0.2X	
4/24	1	24.0	197.70	100.00 X	0	0	0	0	0.2X	
4/25	1	24.0	226.20	100.00 X	0	0	0	0	0.2X	
4/26	1	24.0	208.06	100.00 X	1	33	33	33	0.6X	
4/27	1	24.0	186.73	100.00 X	1	15	15	15	0.8X	
4/28	1	24.0	182.12	100.00 X	2	29	29	29	1.1X	
4/29	1	24.0	208.57	100.00 X	1	14	14	14	1.3X	
4/30	1	24.0	206.63	100.00 X	4	57	57	57	2.0X	
5/01	1	24.0	214.77	100.00 X	2	29	29	29	2.4X	
5/02	1	24.0	183.10	100.00 X	7	100	100	100	3.7X	
5/03	1	24.0	213.20	100.00 X	1	14	14	14	3.8X	
5/04	1	24.0	214.28	100.00 X	3	43	43	43	4.4X	
5/05	1	24.0	218.32	100.00 X	2	29	29	29	4.8X	
5/06	1	24.0	243.11	90.11 X	6	86	95	95	5.9X	
5/07	1	24.0	271.65	79.76 X	3	35	44	44	6.5X	
5/08	1	24.0	234.50	93.53 X	8	84	90	90	7.6X	
5/09	1	24.0	233.77	85.71 X	10	143	167	167	9.7X	
5/10	1	24.0	249.76	80.54 X	9	95	118	118	11.2X	
5/11	1	24.0	257.35	79.20 X	5	59	74	74	12.2X	
5/12	1	24.0	249.25	84.34 X	19	200	237	237	15.2X	
5/13	1	24.0	238.86	93.39 X	21	309	331	331	19.3X	
5/14	1	24.0	220.75	100.00 X	14	200	200	200	21.8X	
5/15	1	24.0	234.10	93.53 X	15	214	229	229	24.7X	
5/16	1	24.0	225.04	81.94 X	20	235	287	287	28.3X	
5/17	1	24.0	212.92	100.00 X	17	243	243	243	31.4X	
5/18	1	24.0	217.94	100.00 X	20	286	286	286	35.0X	
5/19	1	24.0	213.18	100.00 X	18	257	257	257	38.3X	
5/20	1	24.0	208.28	100.00 X	24	343	343	343	42.6X	
5/21	1	24.0	228.17	100.00 X	40	571	571	571	49.8X	
5/22	1	24.0	229.01	100.00 X	41	586	586	586	57.2X	
5/23	1	24.0	227.75	100.00 X	26	371	371	371	61.8X	
5/24	1	24.0	225.09	100.00 X	25	357	357	357	66.3X	
5/25	1	24.0	261.27	84.28 X	37	529	628	628	74.3X	
5/26	1	24.0	243.13	91.20 X	38	447	490	490	80.4X	
5/27	1	24.0	208.07	100.00 X	26	325	325	325	84.5X	
5/28	1	24.0	222.11	100.00 X	15	214	214	214	87.2X	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK 1'S * * *

LA-7U-1 SP CHINOOK LOT ID # 85003-01 30,422 RELEASED AT: LEAVENWORTH NFH FROM: 4/13/85 TO 4/13/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--#D--GW-HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX ... CUMULATIVE
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***** C O N T I N U E D *****

5/29	1	24.0	233.81	94.42 %	20	286	303	91.1%
5/30	1	24.0	257.16	86.20 %	9	113	131	92.7%
5/31	2	22.0	260.70	84.66 %	1 *	36 *	43 *	93.2%
5/31	10	0.0	220.78	99.45 %	13 *	13 *	13 *	93.4%
6/01	1	26.0	224.90	98.51 %	2	100	102	94.7%
6/02	1	24.0	223.18	100.00 %	9	120	120	96.2%
6/03	1	24.0	213.99	100.00 %	4	57	57	96.9%
6/04	1	24.0	236.00	100.00 %	4	57	57	97.6%
6/05	1	24.0	182.95	100.00 %	4	57	57	98.4%
6/06	1	24.0	196.81	100.00 %	1	14	14	98.5%
6/07	1	24.0	211.60	100.00 %	2	29	29	98.9%
6/08	1	24.0	193.64	100.00 %	2	29	29	99.3%
6/09	1	24.0	203.05	100.00 %	1	14	14	99.4%
6/10	1	24.0	210.63	100.00 %	2	29	29	99.8%
6/11	1	24.0	218.02	100.00 %	0	0	0	99.8%
6/12	1	24.0	195.52	100.00 %	0	0	0	99.8%
6/13	2	21.0	217.08	100.00 %	0 *	0 *	0 *	99.8%
6/13	10	0.0	180.89	100.00 %	1 *	1 *	1 *	99.8%
6/14	1	27.0	184.50	100.00 %	0	0	0	99.8%
6/15	1	24.0	176.92	100.00 %	0	0	0	99.8%
6/16	1	24.0	179.20	100.00 %	0	0	0	99.8%
6/17	1	24.0	183.76	100.00 %	0	0	0	99.8%
6/18	1	24.0	170.52	100.00 %	0	0	0	99.8%
6/19	1	24.0	204.46	100.00 %	0	0	0	99.8%
6/20	1	24.0	201.23	100.00 %	0	0	0	99.8%
6/21	1	24.0	189.82	100.00 %	0	0	0	99.8%
6/22	1	24.0	184.08	100.00 %	0	0	0	99.8%
6/23	1	24.0	138.31	100.00 %	0	0	0	99.8%
6/24	1	24.0	157.00	100.00 %	0	0	0	99.8%
6/25	1	24.0	155.94	100.00 %	0	0	0	99.8%
6/26	1	24.0	154.78	100.00 %	0	0	0	99.8%
6/27	1	24.0	154.16	100.00 %	0	0	0	99.8%
6/28	1	24.0	152.23	100.00 %	0	0	0	99.8%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

* * * CHINOOK 1'S * * *

LA-7U-1 SP CHINOOK LOT ID # 85003-01 30,422 RELEASED AT: LEAVENWORTH NFH FROM: 4/13/85 TO 4/13/85
 AGENCY: USFWS HATCHERY: LEAVENWORTH NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-#D-GW-HS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...	
							DAILY COUNT	CUMULATIVE
6/29	1	24.0	132.98	100.00 X	0	0	0	99.8X
6/30	1	24.0	131.17	100.00 X	0	0	0	99.8X
7/01	1	24.0	144.13	100.00 X	1	14	14	100.0X
TOTAL					559	7,535	7,535	

***** C O N T I N U E D *****

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK 1'S * * *

LA-14-1 SP CHINOOK LOT ID # 85308-03 5,398 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	..	PARAMETERS ..					...	PASSAGE DAILY COUNT	INDEX CUMULATIVE
5/19	1	24.0	213.18	100.00 X	1	14	14		0.6%
5/20	1	24.0	208.28	100.00 X	14	200	200		9.3%
5/21	1	24.0	228.17	100.00 X	31	443	443		28.6%
5/22	1	24.0	228.01	100.00 X	3	43	43		30.4%
5/23	1	24.0	227.75	100.00 X	29	414	414		48.4%
5/24	1	24.0	225.09	100.00 X	13	186	186		56.5%
5/25	1	24.0	261.27	84.28 X	17	243	288		69.0%
5/26	1	24.0	243.13	91.20 X	12	141	155		75.7%
5/27	1	24.0	208.07	100.00 X	10	125	125		81.2%
5/28	1	24.0	222.11	100.00 X	6	86	86		84.9%
5/29	1	24.0	233.81	94.42 X	7	100	106		89.5%
5/30	1	24.0	257.16	86.20 X	2	25	29		90.8%
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *		92.7%
5/31	10	0.0	220.78	99.45 X	7 *	7 *	7 *		93.0%
6/01	1	26.0	224.90	98.51 X	1	50	51		95.2%
6/02	1	24.0	223.18	100.00 X	3	40	40		96.9%
6/03	1	24.0	213.99	100.00 X	0	0	0		96.9%
6/04	1	24.0	236.00	100.00 X	0	0	0		96.9%
6/05	1	24.0	182.95	100.00 X	1	14	14		97.5%
6/06	1	24.0	196.81	100.00 X	2	29	29		98.8%
6/07	1	24.0	211.60	100.00 X	0	0	0		98.8%
6/08	1	24.0	193.64	100.00 X	0	0	0		98.8%
6/09	1	24.0	203.05	100.00 X	1	14	14		99.4%
6/10	1	24.0	210.63	100.00 X	0	0	0		99.4%
6/11	1	24.0	218.02	100.00 X	0	0	0		99.4%
6/12	1	24.0	195.52	100.00 X	1	14	14		100.0%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY * * * CHINOOK 1'S * * *

LA-14-1 SP CHINOOK LOT ID # 85308-03 5,398 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC SD GW HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE

***** CONTINUED *****

<u>TOTAL</u>	162	2,224	2,301
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- (1) Sample parameters: SC = Sample quality code tD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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MCNARY

* * *

STEELHEAD

* * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 26,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE #	SAMPLE (1)	(2)	(3)	NUMBER SOMELED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
		.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE
5/17	1	24.0	212.92	100.00 X	1	14	14	0.1%
5/18	1	24.0	217.94	100.00 X	13	186	186	1.9%
5/19	1	24.0	213.18	100.00 X	10	143	143	3.3%
5/20	1	24.0	206.28	100.00 X	6	86	86	4.1%
5/21	1	24.0	228.17	100.00 X	15	214	214	6.1%
5/22	1	24.0	228.01	100.00 X	41	586	586	11.7%
5/23	1	24.0	227.75	100.00 X	43	614	614	17.5%
5/24	1	24.0	225.09	100.00 X	43	614	614	23.3%
5/25	1	24.0	261.27	84.28 X	50	714	847	31.4%
5/26	1	24.0	243.13	91.20 X	63	741	813	39.1%
5/27	1	24.0	209.07	100.00 X	34	425	425	43.2%
5/28	1	24.0	222.11	100.00 X	35	500	500	47.9%
5/29	1	24.0	233.81	94.42 X	33	471	499	52.6%
5/30	1	24.0	257.16	86.20 X	31	388	450	56.9%
5/31	2	22.0	260.70	84.66 X	14 *	509 *	601 *	62.6%
5/31	10	0.0	220.78	99.45 X	31 *	31 *	31 *	62.9%
6/01	1	26.0	224.90	98.51 X	6	300	305	65.8%
6/02	1	24.0	223.18	100.00 X	17	227	227	68.0%
6/03	1	24.0	213.99	100.00 X	17	243	243	70.3%
6/04	1	24.0	236.00	100.00 X	22	314	314	73.3%
6/05	1	24.0	182.95	100.00 X	22	314	314	76.2%
6/06	1	24.0	196.81	100.00 X	17	243	243	78.6%
6/07	1	24.0	211.60	100.00 X	16	229	229	80.7%
6/08	1	24.0	193.64	100.00 X	12	171	171	82.4%
6/09	1	24.0	203.05	100.00 X	30	429	429	86.4%
6/10	1	24.0	210.63	100.00 X	6	86	86	87.3%
6/11	1	24.0	218.02	100.00 X	21	300	300	90.1%
6/12	1	24.0	195.52	100.00 X	6	86	86	90.9%
6/13	2	21.0	217.08	100.00 X	3 *	100 *	100 *	91.9%
6/13	10	0.0	180.89	100.00 X	19 *	19 *	19 *	92.0%
6/14	1	27.0	184.50	100.00 X	2	67	67	92.7%
6/15	1	24.0	176.92	100.00 X	5	71	71	93.4%
6/16	1	24.0	179.20	100.00 X	3	43	43	93.8%
6/17	1	24.0	183.76	100.00 X	7	100	100	94.7%

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NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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 * authorization and/or clearance *

MCNARY

* * * STEELHEAD * * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WIG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE ..	(1) PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX ...	(4) CUMULATIVE
	SC--#D--GW--HS,S								

***** C O N T I N U E D *****

6/18	1	24.0	170.52	100.00 %	6	86	86	95.5%
6/19	1	24.0	204.46	100.00 %	4	57	57	96.1%
6/20	1	24.0	201.23	100.00 %	1	14	14	96.2%
6/21	1	24.0	189.82	100.00 %	3	43	43	96.6%
6/22	1	24.0	184.08	100.00 %	0	0	0	96.6%
6/23	1	24.0	138.31	100.00 %	1	14	14	96.8%
6/24	1	24.0	157.00	100.00 %	1	14	14	96.9%
6/25	1	24.0	155.94	100.00 %	0	0	0	96.9%
6/26	1	24.0	154.78	100.00 %	1	14	14	97.0%
6/27	1	24.0	154.16	100.00 %	4	57	57	97.6%
6/28	1	24.0	152.23	100.00 %	0	0	0	97.6%
6/29	1	24.0	132.98	100.00 %	2	29	29	97.8%
6/30	1	24.0	131.17	100.00 %	0	0	0	97.8%
7/01	1	24.0	144.13	100.00 %	0	0	0	97.8%
7/02	1	24.0	139.01	100.00 %	3	43	43	98.2%
7/03	1	24.0	164.86	100.00 %	1	14	14	98.4%
7/04	1	24.0	147.66	100.00 %	0	0	0	98.4%
7/05	1	24.0	120.52	100.00 %	0	0	0	98.4%
7/06	1	24.0	118.49	100.00 %	0	0	0	98.4%
7/07	1	24.0	103.75	100.00 %	0	0	0	98.4%
7/08	1	24.0	138.07	100.00 %	0	0	0	98.4%
7/09	1	24.0	108.65	100.00 %	0	0	0	98.4%
7/10	1	24.0	116.53	100.00 %	1	14	14	98.5%
7/11	1	24.0	109.58	100.00 %	0	0	0	98.5%
7/12	1	24.0	105.28	100.00 %	0	0	0	98.5%
7/13	1	24.0	105.79	100.00 %	0	0	0	98.5%
7/14	1	24.0	100.93	100.00 %	0	0	0	98.5%
7/15	1	24.0	84.63	100.00 %	0	0	0	98.5%
7/16	1	24.0	85.46	100.00 %	1	12	12	98.6%
7/17	1	24.0	105.94	100.00 %	0	0	0	98.6%
7/18	1	24.0	121.82	100.00 %	0	0	0	98.6%
7/19	1	24.0	117.51	100.00 %	0	0	0	98.6%
7/20	1	24.0	104.98	100.00 %	0	0	0	98.6%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

* * * STEELHEAD * * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC--#D--GW--HS.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

7/21	1	24.0	101.26	100.00 %	0	0	0	98.6%
7/22	1	24.0	87.47	100.00 %	0	0	0	98.6%
7/23	1	24.0	90.48	100.00 %	0	0	0	98.6%
7/24	1	24.0	94.51	100.00 %	0	0	0	98.6%
7/25	1	24.0	108.61	100.00 %	1	14	14	98.8%
7/26	1	24.0	92.51	100.00 %	0	0	0	98.8%
7/27	1	24.0	83.51	100.00 %	0	0	0	98.8%
7/28	1	24.0	67.53	100.00 %	0	0	0	98.8%
7/29	1	24.0	91.69	100.00 %	0	0	0	98.8%
7/30	1	24.0	87.67	100.00 %	0	0	0	98.8%
7/31	1	24.0	86.02	100.00 %	1	14	14	98.9%
8/01	2	21.0	84.83	100.00 %	0 *	0 *	0 *	98.9%
8/01	10	0.0	86.13	100.00 %	0 *	0 *	0 *	98.9%
8/02	1	27.0	88.77	100.00 %	0	0	0	98.9%
8/03	1	24.0	90.79	100.00 %	1	14	14	99.0%
8/04	1	24.0	79.26	100.00 %	0	0	0	99.0%
8/05	1	24.0	86.04	100.00 %	0	0	0	99.0%
8/06	1	24.0	77.25	100.00 %	1	17	17	99.2%
8/07	1	24.0	116.09	100.00 %	1	14	14	99.3%
8/08	1	24.0	90.45	100.00 %	0	0	0	99.3%
8/09	1	24.0	99.22	100.00 %	0	0	0	99.3%
8/10	1	24.0	96.76	100.00 %	0	0	0	99.3%
8/11	1	24.0	80.94	100.00 %	2	29	29	99.6%
8/12	1	24.0	71.08	100.00 %	0	0	0	99.6%
8/13	1	24.0	95.40	100.00 %	0	0	0	99.6%
8/14	1	24.0	102.17	100.00 %	0	0	0	99.6%
8/15	1	24.0	113.53	100.00 %	2	29	29	99.9%
8/16	1	24.0	111.22	100.00 %	0	0	0	99.9%
8/17	1	24.0	93.07	100.00 %	0	0	0	99.9%
8/18	1	24.0	89.30	100.00 %	0	0	0	99.9%
8/19	1	24.0	85.41	100.00 %	0	0	0	99.9%
8/20	1	24.0	97.50	100.00 %	0	0	0	99.9%
8/21	1	24.0	89.27	100.00 %	0	0	0	99.9%
8/22	1	24.0	84.62	100.00 %	0	0	0	99.9%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

* * *

STEELHEAD

* * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS .. SC--#0--GW--HB:S	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	

***** C O N T I N U E D *****

8/23	1	24.0	91.79	100.00 X	0	0	99.9%
8/24	1	24.0	80.45	100.00 X	0	0	99.9%
8/25	1	24.0	73.42	100.00 X	0	0	99.9%
8/26	1	24.0	85.48	100.00 X	0	0	99.9%
8/27	1	24.0	95.48	100.00 X	0	0	99.9%
8/28	1	24.0	113.00	100.00 X	0	0	99.9%
8/29	1	24.0	94.01	100.00 X	0	0	99.9%
8/30	1	24.0	73.53	100.00 X	0	0	99.9%
8/31	1	24.0	88.98	100.00 X	0	0	99.9%
9/01	1	24.0	72.47	100.00 X	0	0	99.9%
9/02	1	24.0	85.55	100.00 X	0	0	99.9%
9/03	1	24.0	95.84	100.00 X	0	0	99.9%
9/04	1	24.0	77.75	100.00 X	0	0	99.9%
9/05	1	24.0	105.89	100.00 X	0	0	99.9%
9/06	1	24.0	99.96	100.00 X	0	0	99.9%
9/07	1	24.0	87.06	100.00 X	0	0	99.9%
9/08	1	24.0	80.68	100.00 X	0	0	99.9%
9/09	1	24.0	82.24	100.00 X	0	0	99.9%
9/10	1	24.0	89.57	100.00 X	0	0	99.9%
9/11	1	24.0	99.12	100.00 X	0	0	99.9%
9/12	1	24.0	94.56	100.00 X	0	0	99.9%
9/13	1	24.0	97.93	100.00 X	1	14	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

* * *

STEELHEAD

* * *

RA-H -1 SU STEELHEAD LOT ID # 85158-01 28,191 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WIG HATCHERY: LYONS FERRY

	SAMPLE (1)	(2)	(3)	(4)
DATE ..	PARAMETERS ..	RIVER	INDEX	NUMBER ...
1985	SC-ID-GW-M6,S	ELOW	FLOW	NUMBER SAMPLED NUMBER COLLECTED ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

TOTAL	733	10,134	10,526
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MONDAY

* * * STEELHEAD * * *

RA-H-2 SU STEELHEAD LOT ID # 85158-03 28,373 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE SC-ID-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED		... INDEX ...	
5/18	1	24.0	217.94	100.00 X	3	43	0.7%
5/19	1	24.0	213.18	100.00 X	0	0	0.7%
5/20	1	24.0	208.28	100.00 X	1	14	0.9%
5/21	1	24.0	228.17	100.00 X	7	100	2.5%
5/22	1	24.0	229.01	100.00 X	17	243	6.3%
5/23	1	24.0	227.75	100.00 X	12	171	9.1%
5/24	1	24.0	225.09	100.00 X	8	114	10.9%
5/25	1	24.0	261.27	84.28 X	23	329	17.1%
5/26	1	24.0	243.13	91.20 X	22	259	21.6%
5/27	1	24.0	208.07	100.00 X	18	225	25.1%
5/28	1	24.0	222.11	100.00 X	22	314	30.1%
5/29	1	24.0	233.81	94.42 X	25	357	36.1%
5/30	1	24.0	257.16	86.20 X	11	138	38.7%
5/31	2	22.0	260.70	84.66 X	6 *	218 *	42.7%
5/31	10	0.0	220.78	99.45 X	38 *	38 *	43.4%
6/01	1	26.0	224.90	98.51 X	6	300	48.2%
6/02	1	24.0	223.18	100.00 X	16	213	51.6%
6/03	1	24.0	213.99	100.00 X	13	186	54.5%
6/04	1	24.0	236.00	100.00 X	13	186	57.5%
6/05	1	24.0	182.95	100.00 X	13	186	60.4%
6/06	1	24.0	196.81	100.00 X	10	143	62.7%
6/07	1	24.0	211.60	100.00 X	11	157	65.2%
6/08	1	24.0	193.64	100.00 X	11	157	67.7%
6/09	1	24.0	203.05	100.00 X	11	157	70.2%
6/10	1	24.0	210.63	100.00 X	17	243	74.0%
6/11	1	24.0	218.02	100.00 X	13	186	77.0%
6/12	1	24.0	195.32	100.00 X	11	157	79.5%
6/13	2	21.0	217.06	100.00 X	2 *	67 *	80.5%
6/13	10	0.0	180.89	100.00 X	16 *	16 *	80.8%
6/14	1	27.0	184.50	100.00 X	4	133	82.9%
6/15	1	24.0	176.92	100.00 X	13	186	85.8%
6/16	1	24.0	179.20	100.00 X	3	43	86.5%
6/17	1	24.0	183.76	100.00 X	4	57	87.4%
6/18	1	24.0	170.52	100.00 X	5	71	88.6%
6/19	1	24.0	204.46	100.00 X	5	71	89.7%
6/20	1	24.0	201.23	100.00 X	2	29	90.1%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

STEELHEAD

RA-H -2 SU STEELHEAD LOT ID # 85158-03

28,373 RELEASED AT: LYONS FERRY
 AGENCY: WDG

FROM: 5/05/85 TO 5/16/85
 HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-#D-GW-HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
							DAILY COUNT	CUMULATIVE	

***** C O N T I N U E D *****

6/21	1	24.0	189.82	100.00 %	7	100	100	91.7%
6/22	1	24.0	184.08	100.00 %	4	57	57	92.6%
6/23	1	24.0	138.31	100.00 %	1	14	14	92.9%
6/24	1	24.0	157.00	100.00 %	0	0	0	92.9%
6/25	1	24.0	155.94	100.00 %	1	14	14	93.1%
6/26	1	24.0	154.78	100.00 %	3	43	43	93.8%
6/27	1	24.0	154.16	100.00 %	4	57	57	94.7%
6/28	1	24.0	152.23	100.00 %	0	0	0	94.7%
6/29	1	24.0	132.98	100.00 %	0	0	0	94.7%
6/30	1	24.0	131.17	100.00 %	0	0	0	94.7%
7/01	1	24.0	144.13	100.00 %	1	14	14	94.9%
7/02	1	24.0	139.01	100.00 %	1	14	14	95.1%
7/03	1	24.0	164.86	100.00 %	1	14	14	95.3%
7/04	1	24.0	147.66	100.00 %	1	14	14	95.6%
7/05	1	24.0	120.52	100.00 %	0	0	0	95.6%
7/06	1	24.0	118.49	100.00 %	1	14	14	95.8%
7/07	1	24.0	103.75	100.00 %	0	0	0	95.8%
7/08	1	24.0	138.07	100.00 %	0	0	0	95.8%
7/09	1	24.0	108.65	100.00 %	1	14	14	96.0%
7/10	1	24.0	116.53	100.00 %	2	29	29	96.5%
7/11	1	24.0	109.58	100.00 %	2	29	29	96.9%
7/12	1	24.0	105.28	100.00 %	1	14	14	97.1%
7/13	1	24.0	105.79	100.00 %	0	0	0	97.1%
7/14	1	24.0	100.93	100.00 %	0	0	0	97.1%
7/15	1	24.0	84.63	100.00 %	0	0	0	97.1%
7/16	1	24.0	85.46	100.00 %	0	0	0	97.1%
7/17	1	24.0	105.94	100.00 %	0	0	0	97.1%
7/18	1	24.0	121.82	100.00 %	0	0	0	97.1%
7/19	1	24.0	117.51	100.00 %	1	17	17	97.4%
7/20	1	24.0	104.98	100.00 %	1	15	15	97.7%
7/21	1	24.0	101.26	100.00 %	0	0	0	97.7%
7/22	1	24.0	87.47	100.00 %	2	29	29	98.1%
7/23	1	24.0	90.48	100.00 %	0	0	0	98.1%

***** C O N T I N U E D *****

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MONARY

* * *

STEELHEAD

* * *

RA-H -2 SU STEELHEAD LOT ID # 85158-03 28,373 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR,S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	(4)		
		RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE					

***** CONTINUED *****

7/24	1	24.0	94.51	100.00 X	0	0	0	98.1X
7/25	1	24.0	108.61	100.00 X	0	0	0	98.1X
7/26	1	24.0	92.51	100.00 X	0	0	0	98.1X
7/27	1	24.0	83.51	100.00 X	0	0	0	98.1X
7/28	1	24.0	67.53	100.00 X	0	0	0	98.1X
7/29	1	24.0	91.69	100.00 X	0	0	0	98.1X
7/30	1	24.0	87.67	100.00 X	0	0	0	98.1X
7/31	1	24.0	86.02	100.00 X	0	0	0	98.1X
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	98.1X
8/01	10	0.0	86.13	100.00 X	3 *	3 *	3 *	98.2X
8/02	1	27.0	88.77	100.00 X	0	0	0	98.2X
8/03	1	24.0	90.79	100.00 X	0	0	0	98.2X
8/04	1	24.0	79.26	100.00 X	0	0	0	98.2X
8/05	1	24.0	86.04	100.00 X	0	0	0	98.2X
8/06	1	24.0	77.25	100.00 X	1	17	17	98.4X
8/07	1	24.0	116.09	100.00 X	0	0	0	98.4X
8/08	1	24.0	90.45	100.00 X	2	29	29	98.9X
8/09	1	24.0	99.22	100.00 X	1	14	14	99.1X
8/10	1	24.0	96.76	100.00 X	0	0	0	99.1X
8/11	1	24.0	80.94	100.00 X	1	14	14	99.3X
8/12	1	24.0	71.08	100.00 X	0	0	0	99.3X
8/13	1	24.0	95.40	100.00 X	0	0	0	99.3X
8/14	1	24.0	102.17	100.00 X	0	0	0	99.3X
8/15	1	24.0	113.53	100.00 X	0	0	0	99.6X
8/16	1	24.0	111.22	100.00 X	1	14	14	99.6X
8/17	1	24.0	93.07	100.00 X	0	0	0	99.6X
8/18	1	24.0	89.30	100.00 X	0	0	0	99.6X
8/19	1	24.0	85.41	100.00 X	0	0	0	99.6X
8/20	1	24.0	97.50	100.00 X	0	0	0	99.6X
8/21	1	24.0	89.27	100.00 X	0	0	0	99.6X
8/22	1	24.0	84.62	100.00 X	0	0	0	99.6X
8/23	1	24.0	91.79	100.00 X	0	0	0	99.6X
8/24	1	24.0	80.45	100.00 X	0	0	0	99.6X
8/25	1	24.0	73.42	100.00 X	0	0	0	99.6X

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * STEELHEAD * * *

RA-H -2 SU STEELHEAD LOT ID # 85158-03 28,373 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
SC--ID--GW--HRS							

***** C O N T I N U E D *****

8/26	1	24.0	85.48	100.00 X	0	0	0	99.6%
8/27	1	24.0	95.48	100.00 X	0	0	0	99.6%
8/28	1	24.0	113.00	100.00 X	1	14	14	99.8%
8/29	1	24.0	94.01	100.00 X	0	0	0	99.8%
8/30	1	24.0	73.53	100.00 X	0	0	0	99.8%
8/31	1	24.0	88.98	100.00 X	1	14	14	100.0%
TOTAL					458	6,128	6,302	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

* * * STEELHEAD * * *

RD-H-1 SU STEELHEAD LOT ID # 85158-02 22,394 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	SC	SD					... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/17	1	24.0	212.92	100.00 X	2	29	29		0.4%
5/18	1	24.0	217.94	100.00 X	4	57	57		1.3%
5/19	1	24.0	213.18	100.00 X	10	143	143		3.5%
5/20	1	24.0	208.28	100.00 X	3	43	43		4.2%
5/21	1	24.0	228.17	100.00 X	18	257	257		8.2%
5/22	1	24.0	228.01	100.00 X	18	257	257		12.2%
5/23	1	24.0	227.75	100.00 X	27	386	386		16.1%
5/24	1	24.0	225.09	100.00 X	31	443	443		25.0%
5/25	1	24.0	261.27	94.28 X	25	357	424		31.5%
5/26	1	24.0	243.13	91.20 X	30	353	387		37.5%
5/27	1	24.0	208.07	100.00 X	25	313	313		42.4%
5/28	1	24.0	222.11	100.00 X	17	243	243		46.1%
5/29	1	24.0	233.81	94.42 X	22	314	333		51.3%
5/30	1	24.0	257.16	86.20 X	25	313	363		56.9%
5/31	2	22.0	260.70	84.66 X	8 *	291 *	344 *		62.2%
5/31	10	0.0	220.78	99.45 X	14 *	14 *	14 *		62.4%
6/01	1	26.0	224.90	98.51 X	5	250	254		66.3%
6/02	1	24.0	223.18	100.00 X	10	133	133		68.4%
6/03	1	24.0	213.99	100.00 X	10	143	143		70.6%
6/04	1	24.0	236.00	100.00 X	10	143	143		72.8%
6/05	1	24.0	182.95	100.00 X	16	229	229		76.4%
6/06	1	24.0	196.81	100.00 X	5	71	71		77.5%
6/07	1	24.0	211.60	100.00 X	14	200	200		80.5%
6/08	1	24.0	193.64	100.00 X	10	143	143		82.8%
6/09	1	24.0	203.05	100.00 X	6	86	86		84.1%
6/10	1	24.0	210.63	100.00 X	0	0	0		84.1%
6/11	1	24.0	218.02	100.00 X	13	186	186		87.0%
6/12	1	24.0	195.52	100.00 X	7	100	100		88.5%
6/13	2	21.0	217.08	100.00 X	3 *	100 *	100 *		90.1%
6/13	10	0.0	180.89	100.00 X	13 *	13 *	13 *		90.3%
6/14	1	27.0	184.50	100.00 X	1	33	33		90.8%
6/15	1	24.0	176.92	100.00 X	4	57	57		91.6%
6/16	1	24.0	179.20	100.00 X	4	57	57		92.5%
6/17	1	24.0	183.76	100.00 X	4	57	57		93.4%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCHARY

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STEELHEAD

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RD-H -1 SU STEELHEAD LOT ID # 85158-02 22,394 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	(4) CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			

***** C O N T I N U E D *****

6/18	1	24.0	170.52	100.00 %	4	57	57	94.3%
6/19	1	24.0	204.46	100.00 %	4	57	57	95.2%
6/20	1	24.0	201.23	100.00 %	3	43	43	95.8%
6/21	1	24.0	189.82	100.00 %	2	29	29	96.3%
6/22	1	24.0	184.08	100.00 %	0	0	0	96.3%
6/23	1	24.0	138.31	100.00 %	0	0	0	96.3%
6/24	1	24.0	157.00	100.00 %	0	0	0	96.3%
6/25	1	24.0	155.94	100.00 %	1	14	14	96.5%
6/26	1	24.0	154.78	100.00 %	1	14	14	96.7%
6/27	1	24.0	154.16	100.00 %	0	0	0	96.7%
6/28	1	24.0	152.23	100.00 %	0	0	0	96.7%
6/29	1	24.0	132.98	100.00 %	0	0	0	96.7%
6/30	1	24.0	131.17	100.00 %	0	0	0	96.7%
7/01	1	24.0	144.13	100.00 %	0	0	0	96.7%
7/02	1	24.0	139.01	100.00 %	1	14	14	96.9%
7/03	1	24.0	164.86	100.00 %	0	0	0	96.9%
7/04	1	24.0	147.66	100.00 %	2	29	29	97.4%
7/05	1	24.0	120.52	100.00 %	0	0	0	97.4%
7/06	1	24.0	118.49	100.00 %	0	0	0	97.4%
7/07	1	24.0	103.75	100.00 %	1	14	14	97.6%
7/08	1	24.0	138.07	100.00 %	0	0	0	97.6%
7/09	1	24.0	108.65	100.00 %	2	29	29	98.1%
7/10	1	24.0	116.53	100.00 %	0	0	0	98.1%
7/11	1	24.0	109.58	100.00 %	0	0	0	98.1%
7/12	1	24.0	105.28	100.00 %	0	0	0	98.1%
7/13	1	24.0	105.79	100.00 %	1	21	21	98.4%
7/14	1	24.0	100.93	100.00 %	0	0	0	98.4%
7/15	1	24.0	84.63	100.00 %	1	18	18	98.7%
7/16	1	24.0	85.46	100.00 %	0	0	0	98.7%
7/17	1	24.0	105.94	100.00 %	0	0	0	98.7%
7/18	1	24.0	121.82	100.00 %	0	0	0	98.7%
7/19	1	24.0	117.51	100.00 %	0	0	0	98.7%
7/20	1	24.0	104.98	100.00 %	2	30	30	99.1%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

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STEELHEAD

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RD-H -1 SU STEELHEAD LOT ID # 85158-02 22,394 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	... DAILY COUNT ...			CUMULATIVE	
SC-TD-GW-HS-S								

***** C O N T I N U E D *****

7/21	1	24.0	101.26	100.00 X	0	0	0	99.1X
7/22	1	24.0	87.47	100.00 X	0	0	0	99.1X
7/23	1	24.0	90.48	100.00 X	0	0	0	99.1X
7/24	1	24.0	94.51	100.00 X	0	0	0	99.1X
7/25	1	24.0	108.61	100.00 X	0	0	0	99.1X
7/26	1	24.0	92.51	100.00 X	0	0	0	99.1X
7/27	1	24.0	83.51	100.00 X	0	0	0	99.1X
7/28	1	24.0	67.53	100.00 X	0	0	0	99.1X
7/29	1	24.0	91.69	100.00 X	0	0	0	99.1X
7/30	1	24.0	87.67	100.00 X	0	0	0	99.1X
7/31	1	24.0	86.02	100.00 X	0	0	0	99.1X
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	99.1X
8/01	10	0.0	86.13	100.00 X	1 *	1 *	1 *	99.1X
8/02	1	27.0	88.77	100.00 X	0	0	0	99.1X
8/03	1	24.0	90.79	100.00 X	0	0	0	99.1X
8/04	1	24.0	79.26	100.00 X	0	0	0	99.1X
8/05	1	24.0	86.04	100.00 X	0	0	0	99.1X
8/06	1	24.0	77.25	100.00 X	0	0	0	99.1X
8/07	1	24.0	116.09	100.00 X	0	0	0	99.1X
8/08	1	24.0	90.45	100.00 X	0	0	0	99.1X
8/09	1	24.0	99.22	100.00 X	1	14	14	99.4X
8/10	1	24.0	96.76	100.00 X	0	0	0	99.4X
8/11	1	24.0	80.94	100.00 X	0	0	0	99.4X
8/12	1	24.0	71.08	100.00 X	0	0	0	99.4X
8/13	1	24.0	95.40	100.00 X	1	14	14	99.6X
8/14	1	24.0	102.17	100.00 X	0	0	0	99.6X
8/15	1	24.0	113.53	100.00 X	0	0	0	99.6X
8/16	1	24.0	111.22	100.00 X	0	0	0	99.6X
8/17	1	24.0	93.07	100.00 X	0	0	0	99.6X
8/18	1	24.0	89.30	100.00 X	0	0	0	99.6X
8/19	1	24.0	85.41	100.00 X	0	0	0	99.6X
8/20	1	24.0	97.50	100.00 X	0	0	0	99.6X
8/21	1	24.0	89.27	100.00 X	0	0	0	99.6X
8/22	1	24.0	84.62	100.00 X	0	0	0	99.6X

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

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STEELHEAD

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RD-H -1 SU STEELHEAD LOT ID # 85158-02 22,394 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC #D GW HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
							DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

8/23	1	24.0	91.79	100.00 X	0	0	0	99.6%
8/24	1	24.0	80.45	100.00 X	0	0	0	99.6%
8/25	1	24.0	73.42	100.00 X	0	0	0	99.6%
8/26	1	24.0	85.48	100.00 X	0	0	0	99.6%
8/27	1	24.0	95.48	100.00 X	0	0	0	99.6%
8/28	1	24.0	113.00	100.00 X	0	0	0	99.6%
8/29	1	24.0	94.01	100.00 X	0	0	0	99.6%
8/30	1	24.0	73.53	100.00 X	0	0	0	99.6%
8/31	1	24.0	88.98	100.00 X	0	0	0	99.6%
9/01	1	24.0	72.47	100.00 X	0	0	0	99.6%
9/02	1	24.0	85.55	100.00 X	0	0	0	99.6%
9/03	1	24.0	95.84	100.00 X	0	0	0	99.6%
9/04	1	24.0	77.75	100.00 X	0	0	0	99.6%
9/05	1	24.0	105.89	100.00 X	0	0	0	99.6%
9/06	1	24.0	99.96	100.00 X	0	0	0	99.6%
9/07	1	24.0	87.06	100.00 X	0	0	0	99.6%
9/08	1	24.0	80.68	100.00 X	0	0	0	99.6%
9/09	1	24.0	82.24	100.00 X	1	14	14	99.8%
9/10	1	24.0	89.57	100.00 X	1	14	14	100.0%
TOTAL					444	6,240	6,467	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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STEELHEAD

RD-H -2 SU STEELHEAD LOT ID # 85158-04

25,540 RELEASED AT: LYONS FERRY

FROM: 5/05/85 TO 5/16/85

AGENCY: WDG

HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	(4) CUMULATIVE
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			
5/18	1	24.0	217.94	100.00 X	3	43	43 0.6%
5/19	1	24.0	213.18	100.00 X	2	29	29 1.0%
5/20	1	24.0	208.28	100.00 X	3	43	43 1.7%
5/21	1	24.0	228.17	100.00 X	7	100	100 3.1%
5/22	1	24.0	228.01	100.00 X	16	229	229 6.4%
5/23	1	24.0	227.75	100.00 X	22	314	314 10.9%
5/24	1	24.0	225.09	100.00 X	19	271	271 14.8%
5/25	1	24.0	261.27	84.28 X	24	343	407 20.6%
5/26	1	24.0	243.13	91.20 X	36	424	465 27.3%
5/27	1	24.0	208.07	100.00 X	14	175	175 29.8%
5/28	1	24.0	222.11	100.00 X	21	300	300 34.1%
5/29	1	24.0	233.81	94.42 X	14	200	212 37.2%
5/30	1	24.0	257.16	86.20 X	22	275	319 41.7%
5/31	2	22.0	260.70	84.66 X	9 *	327 *	386 * 47.3%
5/31	10	0.0	220.78	99.45 X	27 *	27 *	27 * 47.7%
6/01	1	26.0	224.90	98.51 X	3	150	152 49.9%
6/02	1	24.0	223.18	100.00 X	15	200	200 52.7%
6/03	1	24.0	213.99	100.00 X	18	257	257 56.4%
6/04	1	24.0	236.00	100.00 X	17	243	243 59.9%
6/05	1	24.0	182.95	100.00 X	8	114	114 61.6%
6/06	1	24.0	196.81	100.00 X	9	129	129 63.4%
6/07	1	24.0	211.60	100.00 X	14	200	200 66.3%
6/08	1	24.0	193.64	100.00 X	12	171	171 68.7%
6/09	1	24.0	203.05	100.00 X	18	257	257 72.4%
6/10	1	24.0	210.63	100.00 X	1	14	14 72.6%
6/11	1	24.0	218.02	100.00 X	27	386	386 78.2%
6/12	1	24.0	195.52	100.00 X	23	329	329 82.9%
6/13	2	21.0	217.08	100.00 X	6 *	200 *	200 * 85.8%
6/13	10	0.0	180.89	100.00 X	5 *	5 *	5 * 85.8%
6/14	1	27.0	184.50	100.00 X	4	133	133 87.7%
6/15	1	24.0	176.92	100.00 X	5	71	71 88.8%
6/16	1	24.0	179.20	100.00 X	2	29	29 89.2%
6/17	1	24.0	183.76	100.00 X	4	57	57 90.0%
6/18	1	24.0	170.52	100.00 X	2	29	29 90.4%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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STEELHEAD

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RI-H -2 SU STEELHEAD LOT ID # 85158-04 25,540 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	.. PARAMETERS ..	RIVER SC-#D-GW-HB,S	RIVER FLOW	INDEX FLOW				

***** C O N T I N U E D *****

6/19	1	24.0	204.46	100.00 X	3	43	43	91.0%
6/20	1	24.0	201.23	100.00 X	3	43	43	91.7%
6/21	1	24.0	189.82	100.00 X	5	71	71	92.7%
6/22	1	24.0	184.08	100.00 X	2	29	29	93.1%
6/23	1	24.0	138.31	100.00 X	1	14	14	93.3%
6/24	1	24.0	157.00	100.00 X	4	57	57	94.1%
6/25	1	24.0	155.94	100.00 X	5	71	71	95.1%
6/26	1	24.0	154.78	100.00 X	1	14	14	95.3%
6/27	1	24.0	154.16	100.00 X	1	14	14	95.5%
6/28	1	24.0	152.23	100.00 X	0	0	0	95.5%
6/29	1	24.0	132.98	100.00 X	0	0	0	95.5%
6/30	1	24.0	131.17	100.00 X	1	14	14	95.7%
7/01	1	24.0	144.13	100.00 X	1	14	14	95.9%
7/02	1	24.0	139.01	100.00 X	0	0	0	95.9%
7/03	1	24.0	164.86	100.00 X	1	14	14	96.1%
7/04	1	24.0	147.66	100.00 X	1	14	14	96.3%
7/05	1	24.0	120.52	100.00 X	0	0	0	96.3%
7/06	1	24.0	118.49	100.00 X	0	0	0	96.3%
7/07	1	24.0	103.75	100.00 X	0	0	0	96.3%
7/08	1	24.0	138.07	100.00 X	1	14	14	96.5%
7/09	1	24.0	108.65	100.00 X	2	29	29	97.0%
7/10	1	24.0	116.53	100.00 X	0	0	0	97.0%
7/11	1	24.0	109.58	100.00 X	1	14	14	97.2%
7/12	1	24.0	105.28	100.00 X	0	0	0	97.2%
7/13	1	24.0	105.79	100.00 X	1	21	21	97.5%
7/14	1	24.0	100.93	100.00 X	0	0	0	97.5%
7/15	1	24.0	84.63	100.00 X	0	0	0	97.5%
7/16	1	24.0	85.46	100.00 X	1	12	12	97.6%
7/17	1	24.0	105.94	100.00 X	0	0	0	97.6%
7/18	1	24.0	121.82	100.00 X	2	34	34	98.1%
7/19	1	24.0	117.51	100.00 X	0	0	0	98.1%
7/20	1	24.0	104.98	100.00 X	1	15	15	98.3%
7/21	1	24.0	101.26	100.00 X	0	0	0	98.3%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MONARY

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STEELHEAD

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RD-H -2 SU STEELHEAD LOT ID # 85158-04

25,540 RELEASED AT: LYONS FERRY
 AGENCY: WDG

FROM: 5/05/85 TO 5/16/85
 HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER FLOW	(2) INDEX FLOW	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	SC-#D-GH-HB.S							

***** C O N T I N U E D *****

7/22	1	24.0	87.47	100.00 X	0	0	0	98.3X
7/23	1	24.0	90.48	100.00 X	0	0	0	98.3X
7/24	1	24.0	94.51	100.00 X	0	0	0	98.3X
7/25	1	24.0	108.61	100.00 X	1	14	14	98.5X
7/26	1	24.0	92.51	100.00 X	0	0	0	98.5X
7/27	1	24.0	83.51	100.00 X	0	0	0	98.5X
7/28	1	24.0	67.53	100.00 X	0	0	0	98.5X
7/29	1	24.0	91.69	100.00 X	0	0	0	98.5X
7/30	1	24.0	87.67	100.00 X	0	0	0	98.5X
7/31	1	24.0	86.02	100.00 X	0	0	0	98.5X
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	98.5X
8/01	10	0.0	86.13	100.00 X	2 *	2 *	2 *	98.6X
8/02	1	27.0	88.77	100.00 X	0	0	0	98.6X
8/03	1	24.0	90.79	100.00 X	0	0	0	98.6X
8/04	1	24.0	79.26	100.00 X	0	0	0	98.6X
8/05	1	24.0	86.04	100.00 X	0	0	0	98.6X
8/06	1	24.0	77.25	100.00 X	0	0	0	98.6X
8/07	1	24.0	116.09	100.00 X	2	29	29	99.0X
8/08	1	24.0	90.45	100.00 X	0	0	0	99.0X
8/09	1	24.0	99.22	100.00 X	0	0	0	99.0X
8/10	1	24.0	96.76	100.00 X	0	0	0	99.0X
8/11	1	24.0	80.94	100.00 X	0	0	0	99.0X
8/12	1	24.0	71.08	100.00 X	0	0	0	99.0X
8/13	1	24.0	95.40	100.00 X	0	0	0	99.0X
8/14	1	24.0	102.17	100.00 X	0	0	0	99.0X
8/15	1	24.0	113.53	100.00 X	0	0	0	99.0X
8/16	1	24.0	111.22	100.00 X	1	14	14	99.2X
8/17	1	24.0	93.07	100.00 X	0	0	0	99.2X
8/18	1	24.0	89.30	100.00 X	0	0	0	99.2X
8/19	1	24.0	85.41	100.00 X	0	0	0	99.2X
8/20	1	24.0	97.50	100.00 X	0	0	0	99.2X
8/21	1	24.0	89.27	100.00 X	0	0	0	99.2X
8/22	1	24.0	84.62	100.00 X	0	0	0	99.2X
8/23	1	24.0	91.79	100.00 X	0	0	0	99.2X

***** C O N T I N U E D *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

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STEELHEAD

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RD-H -2 SU STEELHEAD LOT ID # 85158-04 25,540 RELEASED AT: LYONS FERRY FROM: 5/05/85 TO 5/16/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	(1) RIVER FLOW	(2) INDEX FLOW	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
							... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE

***** CONTINUED *****

8/24	1	24.0	80.45	100.00 %	0	0	0	99.2%
8/25	1	24.0	73.42	100.00 %	0	0	0	99.2%
8/26	1	24.0	85.48	100.00 %	0	0	0	99.2%
8/27	1	24.0	95.48	100.00 %	0	0	0	99.2%
8/28	1	24.0	113.00	100.00 %	2	29	29	99.6%
8/29	1	24.0	94.01	100.00 %	0	0	0	99.6%
8/30	1	24.0	73.53	100.00 %	0	0	0	99.6%
8/31	1	24.0	88.98	100.00 %	0	0	0	99.6%
9/01	1	24.0	72.47	100.00 %	0	0	0	99.6%
9/02	1	24.0	85.55	100.00 %	1	14	14	99.8%
9/03	1	24.0	95.84	100.00 %	0	0	0	99.8%
9/04	1	24.0	77.75	100.00 %	0	0	0	99.8%
9/05	1	24.0	105.89	100.00 %	0	0	0	99.8%
9/06	1	24.0	99.96	100.00 %	0	0	0	99.8%
9/07	1	24.0	87.06	100.00 %	0	0	0	99.8%
9/08	1	24.0	80.68	100.00 %	0	0	0	99.8%
9/09	1	24.0	82.24	100.00 %	0	0	0	99.8%
9/10	1	24.0	89.57	100.00 %	1	14	14	100.0%
TOTAL				480	6,741	6,963		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * STEELHEAD * * *

LA-S -1 SU STEELHEAD LOT ID # 85157-01 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE ID	(1) PARAMETERS SC-ID-GW-HS,S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX	(4) CUMULATIVE
5/21	1	24.0	228.17	100.00 X	1	14	14	0.2X	
5/22	1	24.0	228.01	100.00 X	0	0	0	0.2X	
5/23	1	24.0	227.75	100.00 X	1	14	14	0.4X	
5/24	1	24.0	225.09	100.00 X	1	14	14	0.6X	
5/25	1	24.0	261.27	84.28 X	14	200	237	4.3X	
5/26	1	24.0	243.13	91.20 X	31	365	400	10.4X	
5/27	1	24.0	208.07	100.00 X	22	275	275	14.7X	
5/28	1	24.0	222.11	100.00 X	21	300	300	19.3X	
5/29	1	24.0	233.81	94.42 X	19	271	287	23.7X	
5/30	1	24.0	257.16	86.20 X	26	325	377	29.5X	
5/31	2	22.0	260.70	84.66 X	10 *	364 *	430 *	36.1X	
5/31	10	0.0	220.78	99.45 X	68 *	68 *	68 *	37.2X	
6/01	1	26.0	224.90	98.51 X	2	100	102	38.7X	
6/02	1	24.0	223.18	100.00 X	7	93	93	40.2X	
6/03	1	24.0	213.99	100.00 X	18	257	257	44.1X	
6/04	1	24.0	236.00	100.00 X	14	200	200	47.2X	
6/05	1	24.0	182.95	100.00 X	12	171	171	49.8X	
6/06	1	24.0	196.81	100.00 X	7	100	100	51.3X	
6/07	1	24.0	211.60	100.00 X	10	143	143	53.5X	
6/08	1	24.0	193.64	100.00 X	9	129	129	55.5X	
6/09	1	24.0	203.05	100.00 X	11	157	157	57.9X	
6/10	1	24.0	210.63	100.00 X	17	243	243	61.7X	
6/11	1	24.0	218.02	100.00 X	32	457	457	68.7X	
6/12	1	24.0	195.52	100.00 X	19	271	271	72.9X	
6/13	2	21.0	217.08	100.00 X	4 *	133 *	133 *	74.9X	
6/13	10	0.0	180.89	100.00 X	27 *	27 *	27 *	75.3X	
6/14	1	27.0	184.50	100.00 X	7	233	233	78.9X	
6/15	1	24.0	176.92	100.00 X	14	200	200	82.0X	
6/16	1	24.0	179.20	100.00 X	10	143	143	84.2X	
6/17	1	24.0	183.76	100.00 X	6	86	86	85.5X	
6/18	1	24.0	170.52	100.00 X	4	57	57	86.4X	
6/19	1	24.0	204.46	100.00 X	12	171	171	89.0X	
6/20	1	24.0	201.23	100.00 X	8	114	114	90.8X	
6/21	1	24.0	189.82	100.00 X	4	57	57	91.7X	
6/22	1	24.0	184.08	100.00 X	2	29	29	92.1X	
6/23	1	24.0	138.31	100.00 X	3	43	43	92.8X	

***** C O N T I N U E D *****

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MCNARY

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STEELHEAD

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LA-S-1 SU STEELHEAD LOT ID # 85157-01 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER SC--#D-GW-HS	FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/24	1	24.0	157.00	100.00 X	6	86	86	94.1%
6/25	1	24.0	155.94	100.00 X	4	57	57	95.0%
6/26	1	24.0	154.78	100.00 X	3	43	43	95.6%
6/27	1	24.0	154.16	100.00 X	5	71	71	96.7%
6/28	1	24.0	152.23	100.00 X	1	14	14	96.9%
6/29	1	24.0	132.98	100.00 X	3	43	43	97.6%
6/30	1	24.0	131.17	100.00 X	0	0	0	97.6%
7/01	1	24.0	144.13	100.00 X	1	14	14	97.8%
7/02	1	24.0	139.01	100.00 X	2	29	29	98.2%
7/03	1	24.0	164.86	100.00 X	1	14	14	98.5%
7/04	1	24.0	147.66	100.00 X	1	14	14	98.7%
7/05	1	24.0	120.52	100.00 X	0	0	0	98.7%
7/06	1	24.0	118.49	100.00 X	0	0	0	98.7%
7/07	1	24.0	103.75	100.00 X	1	14	14	98.9%
7/08	1	24.0	138.07	100.00 X	0	0	0	98.9%
7/09	1	24.0	108.65	100.00 X	1	14	14	99.1%
7/10	1	24.0	116.53	100.00 X	0	0	0	99.1%
7/11	1	24.0	109.58	100.00 X	1	14	14	99.3%
7/12	1	24.0	105.28	100.00 X	0	0	0	99.3%
7/13	1	24.0	105.79	100.00 X	0	0	0	99.3%
7/14	1	24.0	100.93	100.00 X	0	0	0	99.3%
7/15	1	24.0	84.63	100.00 X	0	0	0	99.3%
7/16	1	24.0	85.46	100.00 X	0	0	0	99.3%
7/17	1	24.0	105.94	100.00 X	0	0	0	99.3%
7/18	1	24.0	121.82	100.00 X	0	0	0	99.3%
7/19	1	24.0	117.51	100.00 X	0	0	0	99.3%
7/20	1	24.0	104.98	100.00 X	0	0	0	99.3%
7/21	1	24.0	101.26	100.00 X	1	14	14	99.5%
7/22	1	24.0	87.47	100.00 X	0	0	0	99.5%
7/23	1	24.0	90.48	100.00 X	0	0	0	99.5%
7/24	1	24.0	94.51	100.00 X	1	14	14	99.8%
7/25	1	24.0	108.61	100.00 X	0	0	0	99.8%
7/26	1	24.0	92.51	100.00 X	1	14	14	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MONARY * * * STEELHEAD * * *

LA-S -1 SU STEELHEAD LOT ID # 85157-01 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
SC=AI GU UB,S						

***** CONTINUED *****

7/27	1	24.0	83.51	100.00 %	0	0	0	100.0%
7/28	1	24.0	67.53	100.00 %	0	0	0	100.0%
7/29	1	24.0	91.69	100.00 %	0	0	0	100.0%
7/30	1	24.0	87.67	100.00 %	0	0	0	100.0%
7/31	1	24.0	86.02	100.00 %	0	0	0	100.0%
8/01	2	21.0	84.83	100.00 %	0 *	0 *	0 *	100.0%
8/01	10	0.0	86.13	100.00 %	2 *	2 *	2 *	100.0%
TOTAL				508	6,295	6,503		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * STEELHEAD * * *

LA-S -2 SU STEELHEAD LOT ID # 85157-02 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE #	(1) .. PARAMETERS .. SCID-GW-HB,S	(2) RIVER ELDW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
							DAILY COUNT	CUMULATIVE	
5/22	1	24.0	228.01	100.00 X	3	43	43	0.7X	
5/23	1	24.0	227.75	100.00 X	0	0	0	0.7X	
5/24	1	24.0	225.09	100.00 X	2	29	29	1.1X	
5/25	1	24.0	261.27	84.28 X	14	200	237	4.7X	
5/26	1	24.0	243.13	91.20 X	22	259	284	9.0X	
5/27	1	24.0	208.07	100.00 X	9	113	113	10.7X	
5/28	1	24.0	222.11	100.00 X	26	371	371	16.4X	
5/29	1	24.0	233.81	94.42 X	24	343	363	21.9X	
5/30	1	24.0	257.16	86.20 X	34	425	493	29.4X	
5/31	2	22.0	260.70	84.66 X	11 *	400 *	472 *	36.6X	
5/31	10	0.0	220.78	99.45 X	39 *	39 *	39 *	37.2X	
6/01	1	26.0	224.90	98.51 X	3	150	152	39.5X	
6/02	1	24.0	223.18	100.00 X	13	173	173	42.2X	
6/03	1	24.0	213.99	100.00 X	22	314	314	46.9X	
6/04	1	24.0	236.00	100.00 X	10	143	143	49.1X	
6/05	1	24.0	182.95	100.00 X	12	171	171	51.7X	
6/06	1	24.0	196.81	100.00 X	9	129	129	53.7X	
6/07	1	24.0	211.60	100.00 X	10	143	143	55.9X	
6/08	1	24.0	193.64	100.00 X	10	143	143	58.0X	
6/09	1	24.0	203.05	100.00 X	19	271	271	62.2X	
6/10	1	24.0	210.63	100.00 X	13	186	186	65.0X	
6/11	1	24.0	218.02	100.00 X	27	386	386	70.9X	
6/12	1	24.0	195.52	100.00 X	19	271	271	75.0X	
6/13	2	21.0	217.08	100.00 X	6 *	200 *	200 *	78.0X	
6/13	10	0.0	180.89	100.00 X	24 *	24 *	24 *	78.4X	
6/14	1	27.0	184.50	100.00 X	8	267	267	82.5X	
6/15	1	24.0	176.92	100.00 X	0	0	0	82.5X	
6/16	1	24.0	179.20	100.00 X	9	129	129	84.4X	
6/17	1	24.0	183.76	100.00 X	5	71	71	85.5X	
6/18	1	24.0	170.52	100.00 X	6	86	86	86.8X	
6/19	1	24.0	204.46	100.00 X	7	100	100	88.4X	
6/20	1	24.0	201.23	100.00 X	7	100	100	89.9X	
6/21	1	24.0	189.82	100.00 X	4	57	57	90.7X	
6/22	1	24.0	184.08	100.00 X	1	14	14	91.0X	
6/23	1	24.0	138.31	100.00 X	2	29	29	91.4X	
6/24	1	24.0	157.00	100.00 X	2	29	29	91.8X	

***** CONTINUED *****

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STEELHEAD

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LA-S -2 SU STEELHEAD LOT ID # 85157-02 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	.. PARAMETERS ..	RIVER ELOW	INDEX ELOW	... PASSAGE DAILY COUNT			INDEX CUMULATIVE		
SC-ID-GH-US.S									

* * * * * C O N T I N U E D * * * * *

6/25	1	24.0	155.94	100.00 %	5	71	71	92.9%
6/26	1	24.0	154.78	100.00 %	6	86	86	94.2%
6/27	1	24.0	154.16	100.00 %	5	71	71	95.3%
6/28	1	24.0	152.23	100.00 %	0	0	0	95.3%
6/29	1	24.0	132.98	100.00 %	3	43	43	96.0%
6/30	1	24.0	131.17	100.00 %	0	0	0	96.0%
7/01	1	24.0	144.13	100.00 %	2	29	29	96.4%
7/02	1	24.0	139.01	100.00 %	1	14	14	96.6%
7/03	1	24.0	164.86	100.00 %	0	0	0	96.6%
7/04	1	24.0	147.66	100.00 %	0	0	0	96.6%
7/05	1	24.0	120.52	100.00 %	1	14	14	96.8%
7/06	1	24.0	118.49	100.00 %	2	29	29	97.3%
7/07	1	24.0	103.75	100.00 %	0	0	0	97.3%
7/08	1	24.0	138.07	100.00 %	2	29	29	97.7%
7/09	1	24.0	108.65	100.00 %	1	14	14	97.9%
7/10	1	24.0	116.53	100.00 %	1	14	14	98.1%
7/11	1	24.0	109.58	100.00 %	0	0	0	98.1%
7/12	1	24.0	105.28	100.00 %	0	0	0	98.1%
7/13	1	24.0	105.79	100.00 %	0	0	0	98.1%
7/14	1	24.0	100.93	100.00 %	1	21	21	98.5%
7/15	1	24.0	84.63	100.00 %	0	0	0	98.5%
7/16	1	24.0	85.46	100.00 %	0	0	0	98.5%
7/17	1	24.0	105.94	100.00 %	0	0	0	98.5%
7/18	1	24.0	121.82	100.00 %	1	17	17	98.7%
7/19	1	24.0	117.51	100.00 %	0	0	0	98.7%
7/20	1	24.0	104.98	100.00 %	0	0	0	98.7%
7/21	1	24.0	101.26	100.00 %	0	0	0	98.7%
7/22	1	24.0	87.47	100.00 %	0	0	0	98.7%
7/23	1	24.0	90.48	100.00 %	0	0	0	98.7%
7/24	1	24.0	94.51	100.00 %	0	0	0	98.7%
7/25	1	24.0	108.61	100.00 %	0	0	0	98.7%
7/26	1	24.0	92.51	100.00 %	0	0	0	98.7%
7/27	1	24.0	83.51	100.00 %	0	0	0	98.7%

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MCNARY

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STEELHEAD

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LA-S -2 SU STEELHEAD LOT ID # 85157-02

39,094 RELEASED AT: TUCANNON R
 AGENCY: WDG

FROM: 5/13/85 TO 5/19/85
 HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--ID--GW--HS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE

***** CONTINUED *****

7/28	1	24.0	67.53	100.00 X	0	0	0	98.7%
7/29	1	24.0	91.69	100.00 X	0	0	0	98.7%
7/30	1	24.0	87.67	100.00 X	0	0	0	98.7%
7/31	1	24.0	86.02	100.00 X	0	0	0	98.7%
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	98.7%
8/01	10	0.0	86.13	100.00 X	0 *	0 *	0 *	98.7%
8/02	1	27.0	88.77	100.00 X	0	0	0	98.7%
8/03	1	24.0	90.79	100.00 X	0	0	0	98.7%
8/04	1	24.0	79.26	100.00 X	0	0	0	98.7%
8/05	1	24.0	86.04	100.00 X	0	0	0	98.7%
8/06	1	24.0	77.25	100.00 X	0	0	0	98.7%
8/07	1	24.0	116.09	100.00 X	0	0	0	98.7%
8/08	1	24.0	90.45	100.00 X	0	0	0	98.7%
8/09	1	24.0	99.22	100.00 X	0	0	0	98.7%
8/10	1	24.0	96.76	100.00 X	0	0	0	98.7%
8/11	1	24.0	80.94	100.00 X	0	0	0	98.7%
8/12	1	24.0	71.08	100.00 X	0	0	0	98.7%
8/13	1	24.0	95.40	100.00 X	0	0	0	98.7%
8/14	1	24.0	102.17	100.00 X	0	0	0	98.7%
8/15	1	24.0	113.53	100.00 X	0	0	0	98.7%
8/16	1	24.0	111.22	100.00 X	0	0	0	98.7%
8/17	1	24.0	93.07	100.00 X	1	14	14	98.9%
8/18	1	24.0	89.30	100.00 X	1	14	14	99.1%
8/19	1	24.0	85.41	100.00 X	0	0	0	99.1%
8/20	1	24.0	97.50	100.00 X	0	0	0	99.1%
8/21	1	24.0	89.27	100.00 X	0	0	0	99.1%
8/22	1	24.0	84.62	100.00 X	0	0	0	99.1%
8/23	1	24.0	91.79	100.00 X	0	0	0	99.1%
8/24	1	24.0	80.45	100.00 X	0	0	0	99.1%
8/25	1	24.0	73.42	100.00 X	0	0	0	99.1%
8/26	1	24.0	85.48	100.00 X	0	0	0	99.1%
8/27	1	24.0	95.48	100.00 X	0	0	0	99.1%
8/28	1	24.0	113.00	100.00 X	0	0	0	99.1%
8/29	1	24.0	94.01	100.00 X	1	14	14	99.4%

***** CONTINUED *****

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MCNARY

* * * STEELHEAD * * *

LA-S -2 SU STEELHEAD LOT ID # 85157-02 39,094 RELEASED AT: TUCANNON R FROM: 5/13/85 TO 5/19/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE ..	(1) PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT	CUMULATIVE
	SC	#D	GW	HS	S	C	D	C	

* * * * * C O N T I N U E D * * * * *

8/30	1	24.0	73.53	100.00 X	0	0	0	99.4%
8/31	1	24.0	88.98	100.00 X	0	0	0	99.4%
9/01	1	24.0	72.47	100.00 X	0	0	0	99.4%
9/02	1	24.0	85.55	100.00 X	1	14	14	99.6%
9/03	1	24.0	95.84	100.00 X	0	0	0	99.6%
9/04	1	24.0	77.75	100.00 X	0	0	0	99.6%
9/05	1	24.0	105.89	100.00 X	0	0	0	99.6%
9/06	1	24.0	99.96	100.00 X	0	0	0	99.6%
9/07	1	24.0	87.06	100.00 X	0	0	0	99.6%
9/08	1	24.0	80.68	100.00 X	0	0	0	99.6%
9/09	1	24.0	82.24	100.00 X	0	0	0	99.6%
9/10	1	24.0	89.57	100.00 X	0	0	0	99.6%
9/11	1	24.0	99.12	100.00 X	1	14	14	99.6%
9/12	1	24.0	94.56	100.00 X	0	0	0	99.6%
9/13	1	24.0	97.93	100.00 X	1	14	14	100.0%
TOTAL					462	6,344	6,568	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

*** STEELHEAD ***

LH-Y -1 STEELHEAD LOT ID # 85059-01 30,000 RELEASED AT: HELLS CANYON FROM: 4/29/85 TO 5/01/85
 AGENCY: IDFG HATCHERY: NIAGARA SPRING

DATE 1285	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		SC	RIVER FLOW	INDEX FLOW			
5/13	1	24.0	238.86	93.39 %	2	29	31 10.1%
5/14	1	24.0	220.75	100.00 %	1	14	14 14.7%
5/15	1	24.0	234.10	93.53 %	4	57	61 34.5%
5/16	1	24.0	225.04	81.94 %	2	24	29 44.0%
5/17	1	24.0	212.92	100.00 %	0	0	0 44.0%
5/18	1	24.0	217.94	100.00 %	3	43	43 58.0%
5/19	1	24.0	213.18	100.00 %	2	29	29 67.4%
5/20	1	24.0	208.28	100.00 %	0	0	0 67.4%
5/21	1	24.0	228.17	100.00 %	1	14	14 72.0%
5/22	1	24.0	228.01	100.00 %	0	0	0 72.0%
5/23	1	24.0	227.75	100.00 %	0	0	0 72.0%
5/24	1	24.0	225.09	100.00 %	0	0	0 72.0%
5/25	1	24.0	261.27	84.28 %	0	0	0 72.0%
5/26	1	24.0	243.13	91.20 %	0	0	0 72.0%
5/27	1	24.0	208.07	100.00 %	0	0	0 72.0%
5/28	1	24.0	222.11	100.00 %	1	14	14 76.5%
5/29	1	24.0	233.81	94.42 %	1	14	15 81.4%
5/30	1	24.0	257.16	86.20 %	2	25	29 90.9%
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 * 90.9%
5/31	10	0.0	220.78	99.45 %	1 *	1 *	1 * 91.2%
6/01	1	26.0	224.90	98.51 %	0	0	0 91.2%
6/02	1	24.0	223.18	100.00 %	1	13	13 95.4%
6/03	1	24.0	213.99	100.00 %	0	0	0 95.4%
6/04	1	24.0	236.00	100.00 %	1	14	14 100.0%
<hr/>		INITIAL			22	291	307

- (1) Sample parameters: SC = Sample quality code \$D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * STEELHEAD * * *

ID-Y-2 STEELHEAD LOT ID # 85030-01 30,625 RELEASED AT: DMORSHAK NFH FROM: 4/29/85 TO 4/29/85
 AGENCY: USFWS HATCHERY: DMORSHAK NFH

DATE 1985	SAMPLE (1)		RIVER FLOW	(2) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...	
	SC	#D					GU	HRS
5/08	1	24.0	234.50	93.53 X	1	11	12	3.3X
5/09	1	24.0	233.77	85.71 X	2	29	34	12.6X
5/10	1	24.0	249.76	80.54 X	5	53	66	30.7X
5/11	1	24.0	257.35	79.20 X	8	94	119	63.3X
5/12	1	24.0	249.25	84.34 X	1	11	13	66.8X
5/13	1	24.0	238.86	93.39 X	3	44	47	79.7X
5/14	1	24.0	220.75	100.00 X	0	0	0	79.7X
5/15	1	24.0	234.10	93.53 X	0	0	0	79.7X
5/16	1	24.0	225.04	81.94 X	0	0	0	79.7X
5/17	1	24.0	212.92	100.00 X	1	14	14	83.6X
5/18	1	24.0	217.94	100.00 X	0	0	0	83.6X
5/19	1	24.0	213.18	100.00 X	3	43	43	95.3X
5/20	1	24.0	208.28	100.00 X	0	0	0	95.3X
5/21	1	24.0	228.17	100.00 X	0	0	0	95.3X
5/22	1	24.0	228.01	100.00 X	0	0	0	95.3X
5/23	1	24.0	227.75	100.00 X	0	0	0	95.3X
5/24	1	24.0	225.09	100.00 X	0	0	0	95.3X
5/25	1	24.0	261.27	84.28 X	1	14	17	100.0X
TOTAL					25	313	365	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

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MONARY

* * * STEELHEAD * * *

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY FROM: 4/09/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS .. SC-NI-GH-HRS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLER	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
		RIVER FLOW	INDEX FLOW	NUMBER COLLECTED			DAILY COUNT	CUMULATIVE
5/19	1	24.0	213.18	100.00 X	1	14	14	6.3X
5/20	1	24.0	208.28	100.00 X	0	0	0	6.3X
5/21	1	24.0	228.17	100.00 X	0	0	0	6.3X
5/22	1	24.0	228.01	100.00 X	1	14	14	12.5X
5/23	1	24.0	227.75	100.00 X	1	14	14	18.8X
5/24	1	24.0	225.09	100.00 X	0	0	0	18.8X
5/25	1	24.0	261.27	84.28 X	0	0	0	18.8X
5/26	1	24.0	243.13	91.20 X	0	0	0	18.8X
5/27	1	24.0	208.07	100.00 X	1	13	13	24.6X
5/28	1	24.0	222.11	100.00 X	0	0	0	24.6X
5/29	1	24.0	233.81	94.42 X	0	0	0	24.6X
5/30	1	24.0	257.16	86.20 X	0	0	0	24.6X
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	43.8X
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	43.8X
6/01	1	26.0	224.90	98.51 X	0	0	0	43.8X
6/02	1	24.0	223.18	100.00 X	1	13	13	49.6X
6/03	1	24.0	213.99	100.00 X	0	0	0	49.6X
6/04	1	24.0	236.00	100.00 X	1	14	14	55.8X
6/05	1	24.0	182.95	100.00 X	0	0	0	55.8X
6/06	1	24.0	196.81	100.00 X	2	29	29	68.8X
6/07	1	24.0	211.60	100.00 X	0	0	0	68.8X
6/08	1	24.0	193.64	100.00 X	0	0	0	68.8X
6/09	1	24.0	203.05	100.00 X	1	14	14	75.0X
6/10	1	24.0	210.63	100.00 X	0	0	0	75.0X
6/11	1	24.0	218.02	100.00 X	0	0	0	75.0X
6/12	1	24.0	195.52	100.00 X	1	14	14	81.3X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	81.3X
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	81.3X
6/14	1	27.0	184.50	100.00 X	0	0	0	81.3X
6/15	1	24.0	176.92	100.00 X	0	0	0	81.3X
6/16	1	24.0	179.20	100.00 X	1	14	14	87.5X
6/17	1	24.0	183.76	100.00 X	0	0	0	87.5X
6/18	1	24.0	170.52	100.00 X	0	0	0	87.5X
6/19	1	24.0	204.46	100.00 X	1	14	14	93.8X
6/20	1	24.0	201.23	100.00 X	1	14	14	100.0X

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MCNARY * * * STEELHEAD * * *

RD-Y -1 STEELHEAD LOT ID # 85033-01 35,125 RELEASED AT: STANLEY FROM: 4/09/85 TO 4/09/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC-#D-GW-HB,S	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE

***** CONTINUED *****

101A	14	217	224
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- (1) Sample parameters: SC = Sample quality code \$D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * STEELHEAD * * *

RD-Y -3 STEELHEAD LOT ID # 85034-01 31,775 RELEASED AT: E F SALMON R FROM: 4/17/85 TO 4/17/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1285	SAMPLE SC	PARAMETERS SI	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
							... PASSAGE DAILY COUNT	INDEX CUMULATIVE	
5/22	1	24.0	228.01	100.00 X	1	14	14	15.7X	
5/23	1	24.0	227.75	100.00 X	0	0	0	15.7X	
5/24	1	24.0	225.09	100.00 X	0	0	0	15.7X	
5/25	1	24.0	261.27	84.28 X	1	14	17	34.8X	
5/26	1	24.0	243.13	91.20 X	0	0	0	34.8X	
5/27	1	24.0	208.07	100.00 X	0	0	0	34.8X	
5/28	1	24.0	222.11	100.00 X	0	0	0	34.8X	
5/29	1	24.0	233.81	94.42 X	1	14	15	51.7X	
5/30	1	24.0	257.16	86.20 X	0	0	0	51.7X	
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	51.7X	
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	51.7X	
6/01	1	26.0	224.90	98.51 X	0	0	0	51.7X	
6/02	1	24.0	223.18	100.00 X	0	0	0	51.7X	
6/03	1	24.0	213.99	100.00 X	0	0	0	51.7X	
6/04	1	24.0	236.00	100.00 X	0	0	0	51.7X	
6/05	1	24.0	182.95	100.00 X	0	0	0	51.7X	
6/06	1	24.0	196.81	100.00 X	0	0	0	51.7X	
6/07	1	24.0	211.60	100.00 X	1	14	14	67.4X	
6/08	1	24.0	193.64	100.00 X	0	0	0	67.4X	
6/09	1	24.0	203.05	100.00 X	0	0	0	67.4X	
6/10	1	24.0	210.63	100.00 X	1	14	14	83.1X	
6/11	1	24.0	218.02	100.00 X	0	0	0	83.1X	
6/12	1	24.0	195.52	100.00 X	0	0	0	83.1X	
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	83.1X	
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	84.3X	
6/14	1	27.0	184.50	100.00 X	0	0	0	84.3X	
6/15	1	24.0	176.92	100.00 X	0	0	0	84.3X	
6/16	1	24.0	179.20	100.00 X	0	0	0	84.3X	
6/17	1	24.0	183.76	100.00 X	0	0	0	84.3X	
6/18	1	24.0	170.52	100.00 X	0	0	0	84.3X	
6/19	1	24.0	204.46	100.00 X	1	14	14	100.0X	

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MCNARY

* * *

STEELHEAD

* * *

RD-Y -3 STEELHEAD LOT ID # 85034-01 31,775 RELEASED AT: E F SALMON R FROM: 4/17/85 TO 4/17/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

	SAMPLE (1)	(2)	(3)		(4)
DATE ..	PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC-ID-GW-HR.S	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** CONTINUED *****

1010	7	85	89
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * *

STEELHEAD

* * *

LA-7K-1 SU STEELHEAD LOT ID # 85163-01 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
	SC	ID	GW	HR	S	DAILY COUNT	CUMULATIVE		
5/13	1	24.0	238.86	93.39 X	6	88	94	4.3X	
5/14	1	24.0	220.75	100.00 X	12	171	171	12.0X	
5/15	1	24.0	234.10	93.53 X	21	300	321	26.6X	
5/16	1	24.0	225.04	81.94 X	19	224	273	39.0X	
5/17	1	24.0	212.92	100.00 X	15	214	214	48.8X	
5/18	1	24.0	217.94	100.00 X	6	86	86	52.7X	
5/19	1	24.0	213.18	100.00 X	8	114	114	57.8X	
5/20	1	24.0	208.28	100.00 X	4	57	57	60.4X	
5/21	1	24.0	228.17	100.00 X	5	71	71	63.7X	
5/22	1	24.0	228.01	100.00 X	9	129	129	69.5X	
5/23	1	24.0	227.75	100.00 X	8	114	114	74.7X	
5/24	1	24.0	225.09	100.00 X	6	86	86	78.6X	
5/25	1	24.0	261.27	84.28 X	5	71	84	82.4X	
5/26	1	24.0	243.13	91.20 X	7	82	90	86.5X	
5/27	1	24.0	208.07	100.00 X	4	50	50	88.8X	
5/28	1	24.0	222.11	100.00 X	4	57	57	91.4X	
5/29	1	24.0	233.81	94.42 X	2	29	31	92.8X	
5/30	1	24.0	257.16	86.20 X	2	25	29	94.1X	
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	96.0X	
5/31	10	0.0	220.78	99.45 X	2 *	2 *	2 *	96.1X	
6/01	1	26.0	224.90	98.51 X	0	0	0	96.1X	
6/02	1	24.0	223.18	100.00 X	0	0	0	96.1X	
6/03	1	24.0	213.99	100.00 X	1	14	14	96.8X	
6/04	1	24.0	236.00	100.00 X	1	14	14	97.4X	
6/05	1	24.0	182.95	100.00 X	1	14	14	98.0X	
6/06	1	24.0	196.81	100.00 X	2	29	29	99.4X	
6/07	1	24.0	211.60	100.00 X	1	14	14	100.0X	

***** CONTINUED *****

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MCNARY * * * STEELHEAD * * *

LA-7K-1 SU STEELHEAD LOT ID # 85163-01 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
		#D-GW-HRS						

***** CONTINUED *****

TOTAL		152	2,091	2,201
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * *

STEELHEAD

* * *

LA-7K-3 SU STEELHEAD LOT ID # 85163-02

4,058 RELEASED AT: BELOW PRST RAPI FROM: 5/11/85 TO 5/11/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS ..	RIVER FLOW	INDEX FLOW	(3)		NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX ... CUMULATIVE	(4)
				SC	ID	GW	HRS,S		
5/14	1	24.0	220.75	100.00	X		1	14	0.9%
5/15	1	24.0	234.10	93.53	X		7	100	8.1%
5/16	1	24.0	225.04	81.94	X		14	165	21.6%
5/17	1	24.0	212.92	100.00	X		15	214	35.9%
5/18	1	24.0	217.94	100.00	X		9	129	44.6%
5/19	1	24.0	213.18	100.00	X		3	43	47.5%
5/20	1	24.0	208.28	100.00	X		4	57	51.3%
5/21	1	24.0	228.17	100.00	X		4	57	55.1%
5/22	1	24.0	228.01	100.00	X		10	143	64.7%
5/23	1	24.0	227.75	100.00	X		4	57	68.5%
5/24	1	24.0	225.09	100.00	X		6	86	74.3%
5/25	1	24.0	261.27	84.28	X		3	43	77.7%
5/26	1	24.0	243.13	91.20	X		6	71	82.9%
5/27	1	24.0	208.07	100.00	X		4	50	86.3%
5/28	1	24.0	222.11	100.00	X		2	29	88.2%
5/29	1	24.0	233.81	94.42	X		4	57	92.2%
5/30	1	24.0	257.16	86.20	X		3	38	95.2%
5/31	2	22.0	260.70	84.66	X	0 *	0 *	0 *	95.2%
5/31	10	0.0	220.78	99.45	X	2 *	2 *	2 *	95.3%
6/01	1	26.0	224.90	98.51	X	0	0	0	95.3%
6/02	1	24.0	223.18	100.00	X		1	13	96.2%
6/03	1	24.0	213.99	100.00	X		3	43	99.1%
6/04	1	24.0	236.00	100.00	X		1	14	100.0%
TOTAL						106	1,425	1,492	

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONARY * * * STEELHEAD * * *

LD-7K-1 SU STEELHEAD LOT ID # 85163-04 4,038 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/15/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		SC	ID	GW	HR.S	RIVER FLOW	INDEX FLOW		
5/17	1	24.0	212.92	100.00	X	3	43	43	2.6%
5/18	1	24.0	217.94	100.00	X	11	157	157	12.2%
5/19	1	24.0	213.18	100.00	X	12	171	171	22.7%
5/20	1	24.0	208.28	100.00	X	11	157	157	32.3%
5/21	1	24.0	228.17	100.00	X	12	171	171	42.8%
5/22	1	24.0	228.01	100.00	X	16	229	229	56.8%
5/23	1	24.0	227.75	100.00	X	4	57	57	60.2%
5/24	1	24.0	225.09	100.00	X	2	29	29	62.0%
5/25	1	24.0	261.27	84.28	X	9	129	153	71.4%
5/26	1	24.0	243.13	91.20	X	13	153	168	81.7%
5/27	1	24.0	208.07	100.00	X	8	100	100	87.8%
5/28	1	24.0	222.11	100.00	X	3	43	43	90.4%
5/29	1	24.0	233.81	94.42	X	0	0	0	90.4%
5/30	1	24.0	257.16	86.20	X	0	0	0	90.4%
5/31	2	22.0	260.70	84.66	X	1 *	36 *	43 *	93.0%
5/31	10	0.0	220.78	99.45	X	1 *	1 *	1 *	93.1%
6/01	1	26.0	224.90	98.51	X	0	0	0	93.1%
6/02	1	24.0	223.18	100.00	X	2	27	27	94.7%
6/03	1	24.0	213.99	100.00	X	3	43	43	97.4%
6/04	1	24.0	236.00	100.00	X	1	14	14	98.2%
6/05	1	24.0	182.95	100.00	X	0	0	0	98.2%
6/06	1	24.0	196.81	100.00	X	2	29	29	100.0%
TOTAL						114	1,589	1,635	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

*** STEELHEAD ***

LI-7K-3 SU STEELHEAD LOT ID # 85163-05 4,022 RELEASED AT: BELOW PRST RAPI FROM: 5/16/85 TO 5/16/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	.. PARAMETERS ..	SC = #D GW HR.S					... DAILY COUNT	INDEX	
5/19	1	24.0	213.18	100.00 X	2	29	29	1.9%	
5/20	1	24.0	206.28	100.00 X	7	100	100	8.6%	
5/21	1	24.0	228.17	100.00 X	12	171	171	20.1%	
5/22	1	24.0	228.01	100.00 X	15	214	214	34.5%	
5/23	1	24.0	227.75	100.00 X	6	86	86	40.2%	
5/24	1	24.0	225.09	100.00 X	11	157	157	50.7%	
5/25	1	24.0	261.27	84.28 X	10	143	170	62.1%	
5/26	1	24.0	243.13	91.20 X	9	106	116	69.9%	
5/27	1	24.0	208.07	100.00 X	1	13	13	70.8%	
5/28	1	24.0	222.11	100.00 X	1	14	14	71.7%	
5/29	1	24.0	233.81	94.42 X	2	29	31	73.8%	
5/30	1	24.0	257.16	86.20 X	5	63	73	78.7%	
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	81.6%	
5/31	10	0.0	220.78	99.45 X	2 *	2 *	2 *	81.7%	
6/01	1	26.0	224.90	98.51 X	1	50	51	85.1%	
6/02	1	24.0	223.18	100.00 X	8	107	107	92.3%	
6/03	1	24.0	213.99	100.00 X	2	29	29	94.2%	
6/04	1	24.0	236.00	100.00 X	1	14	14	95.2%	
6/05	1	24.0	182.95	100.00 X	0	0	0	95.2%	
6/06	1	24.0	196.81	100.00 X	0	0	0	95.2%	
6/07	1	24.0	211.60	100.00 X	2	29	29	97.1%	
6/08	1	24.0	193.64	100.00 X	2	29	29	99.1%	
6/09	1	24.0	203.05	100.00 X	1	14	14	100.0%	
TOTAL					101	1,435	1,492		

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gatewells sampled #D = Number of accumulated days for sample
 Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCMARY

* * * STEELHEAD * * *

RA-7K-1 SU STEELHEAD LOT ID # 85163-03 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW		DAILY COUNT		
5/16	1	24.0	225.04	81.94 X	1	12	15	0.8%
5/17	1	24.0	212.92	100.00 X	29	414	414	24.3%
5/18	1	24.0	217.94	100.00 X	19	271	271	39.7%
5/19	1	24.0	213.18	100.00 X	9	129	129	47.0%
5/20	1	24.0	208.28	100.00 X	8	114	114	53.4%
5/21	1	24.0	228.17	100.00 X	14	200	200	64.8%
5/22	1	24.0	228.01	100.00 X	7	100	100	70.4%
5/23	1	24.0	227.75	100.00 X	5	71	71	74.4%
5/24	1	24.0	225.09	100.00 X	3	43	43	76.9%
5/25	1	24.0	261.27	84.28 X	8	114	135	84.5%
5/26	1	24.0	243.13	91.20 X	2	24	26	86.0%
5/27	1	24.0	208.07	100.00 X	6	75	75	90.3%
5/28	1	24.0	222.11	100.00 X	3	43	43	92.7%
5/29	1	24.0	233.81	94.42 X	1	14	15	93.5%
5/30	1	24.0	257.16	86.20 X	1	13	15	94.4%
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	94.4%
5/31	10	0.0	220.78	99.45 X	1 *	1 *	1 *	94.4%
6/01	1	26.0	224.90	98.51 X	0	0	0	94.4%
6/02	1	24.0	223.18	100.00 X	1	13	13	95.2%
6/03	1	24.0	213.99	100.00 X	1	14	14	96.0%
6/04	1	24.0	236.00	100.00 X	2	29	29	97.6%
6/05	1	24.0	182.95	100.00 X	1	14	14	98.4%
6/06	1	24.0	196.81	100.00 X	0	0	0	98.4%
6/07	1	24.0	211.60	100.00 X	1	14	14	99.2%
6/08	1	24.0	193.64	100.00 X	1	14	14	100.0%

***** CONTINUED *****

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MCNARY

* * *

STEELHEAD

* * *

RA-7K-1 SU STEELHEAD LOT ID # 85163-03 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
	.. PARAMETERS .. SC-ID-GW-HRS	RIVER FLOW	INDEX FLOW				

***** C O N T I N U E D *****

TOTAL	124	1.736	1.765
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * *

STEELHEAD

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RD-7K-1 SU STEELHEAD LOT ID # 85163-06 4,047 RELEASED AT: BELOW PRST RAPI FROM: 5/17/85 TO 5/17/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	.. PARAMETERS .. SC--SD--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLER	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
		RIVER FLOW	INDEX FLOW				DAILY COUNT	
5/21	1	24.0	228.17	100.00 X	13	186	186	9.4%
5/22	1	24.0	228.01	100.00 X	19	271	271	23.2%
5/23	1	24.0	227.75	100.00 X	19	271	271	36.9%
5/24	1	24.0	225.09	100.00 X	15	214	214	47.8%
5/25	1	24.0	261.27	84.28 X	14	200	237	59.8%
5/26	1	24.0	243.13	91.20 X	18	212	232	71.6%
5/27	1	24.0	208.07	100.00 X	7	88	88	76.0%
5/28	1	24.0	222.11	100.00 X	4	57	57	78.9%
5/29	1	24.0	233.81	94.42 X	5	71	75	82.7%
5/30	1	24.0	257.16	86.20 X	3	38	44	84.9%
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	89.3%
5/31	10	0.0	220.78	99.45 X	4 *	4 *	4 *	89.5%
6/01	1	26.0	224.90	98.51 X	1	50	51	92.1%
6/02	1	24.0	223.18	100.00 X	1	13	13	92.7%
6/03	1	24.0	213.99	100.00 X	2	29	29	94.2%
6/04	1	24.0	236.00	100.00 X	1	14	14	94.9%
6/05	1	24.0	182.95	100.00 X	3	43	43	97.1%
6/06	1	24.0	196.81	100.00 X	2	29	29	98.6%
6/07	1	24.0	211.60	100.00 X	0	0	0	98.6%
6/08	1	24.0	193.64	100.00 X	1	14	14	99.3%
6/09	1	24.0	203.05	100.00 X	0	0	0	99.3%
6/10	1	24.0	210.63	100.00 X	0	0	0	99.3%
6/11	1	24.0	218.02	100.00 X	1	14	14	100.0%

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MCNARY

* * *

STEELHEAD

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RD-7K-1 SU STEELHEAD LOT ID # 85163-06 4,047 RELEASED AT: BELOW PRST RAPI FROM: 5/17/85 TO 5/17/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
	.. PARAMETERS .. SC = 10 GW = 102,5	RIVER FLOW	INDEX FLOW			

***** C O N T I N U E D *****

TOTAL	135	1,891	1,972
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * STEELHEAD * * *

RA-7N-1 SU STEELHEAD LOT ID # 85166-01 19,983 RELEASED AT: BELOW LI GOOSE FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE	..	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		PARAMETERS	RIVER FLOW	INDEX FLOW					
1985	SC	SD	GW	HR	S				
5/11	1	24.0	257.35	79.20	X	5	59	74	1.1%
5/12	1	24.0	249.25	84.34	X	24	253	300	5.4%
5/13	1	24.0	238.86	93.39	X	25	368	394	11.1%
5/14	1	24.0	220.75	100.00	X	22	314	314	15.7%
5/15	1	24.0	234.10	93.53	X	18	257	275	19.6%
5/16	1	24.0	225.04	81.94	X	50	588	718	30.0%
5/17	1	24.0	212.92	100.00	X	35	500	500	37.3%
5/18	1	24.0	217.94	100.00	X	26	371	371	42.6%
5/19	1	24.0	213.18	100.00	X	14	200	200	45.5%
5/20	1	24.0	208.28	100.00	X	10	143	143	47.6%
5/21	1	24.0	228.17	100.00	X	12	171	171	50.1%
5/22	1	24.0	228.01	100.00	X	17	243	243	53.6%
5/23	1	24.0	227.75	100.00	X	22	314	314	58.1%
5/24	1	24.0	225.09	100.00	X	18	257	257	61.8%
5/25	1	24.0	261.27	84.28	X	20	286	339	66.7%
5/26	1	24.0	243.13	91.20	X	22	259	284	70.8%
5/27	1	24.0	208.07	100.00	X	18	225	225	74.1%
5/28	1	24.0	222.11	100.00	X	16	229	229	77.4%
5/29	1	24.0	233.81	94.42	X	19	271	287	81.6%
5/30	1	24.0	257.16	86.20	X	20	250	290	85.8%
5/31	2	22.0	260.70	84.66	X	2 *	73 *	86 *	87.0%
5/31	10	0.0	220.78	99.45	X	16 *	16 *	16 *	87.2%
6/01	1	26.0	224.90	98.51	X	1	50	51	88.0%
6/02	1	24.0	223.18	100.00	X	7	93	93	89.3%
6/03	1	24.0	213.99	100.00	X	12	171	171	91.8%
6/04	1	24.0	236.00	100.00	X	9	129	129	93.7%
6/05	1	24.0	182.95	100.00	X	7	100	100	95.1%
6/06	1	24.0	196.81	100.00	X	3	43	43	95.7%
6/07	1	24.0	211.60	100.00	X	1	14	14	95.9%
6/08	1	24.0	193.64	100.00	X	0	0	0	95.9%
6/09	1	24.0	203.05	100.00	X	0	0	0	95.9%
6/10	1	24.0	210.63	100.00	X	2	29	29	96.4%
6/11	1	24.0	218.02	100.00	X	1	14	14	96.6%
6/12	1	24.0	195.52	100.00	X	1	14	14	96.8%

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MCHARY

* * * STEELHEAD * * *

RA-7N-1 SU STEELHEAD LOT ID # 85166-01 19,963 RELEASED AT: BELOW LI GOOSE FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR.S	RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
						24.0	100.00 X	2 *	67 *	67 *	97.7%

***** C O N T I N U E D *****

6/13	2	21.0	217.08	100.00 X	2 *	67 *	67 *	97.7%
6/13	10	0.0	180.89	100.00 X	4 *	4 *	4 *	97.8%
6/14	1	27.0	184.50	100.00 X	1	33	33	98.3%
6/15	1	24.0	176.92	100.00 X	0	0	0	98.3%
6/16	1	24.0	179.20	100.00 X	2	29	29	98.7%
6/17	1	24.0	183.76	100.00 X	1	14	14	98.9%
6/18	1	24.0	170.52	100.00 X	0	0	0	98.9%
6/19	1	24.0	204.46	100.00 X	0	0	0	98.9%
6/20	1	24.0	201.23	100.00 X	1	14	14	99.1%
6/21	1	24.0	189.82	100.00 X	1	14	14	99.3%
6/22	1	24.0	184.08	100.00 X	0	0	0	99.3%
6/23	1	24.0	138.31	100.00 X	1	14	14	99.5%
6/24	1	24.0	157.00	100.00 X	0	0	0	99.5%
6/25	1	24.0	155.94	100.00 X	0	0	0	99.5%
6/26	1	24.0	154.78	100.00 X	0	0	0	99.5%
6/27	1	24.0	154.16	100.00 X	0	0	0	99.5%
6/28	1	24.0	152.23	100.00 X	0	0	0	99.5%
6/29	1	24.0	132.98	100.00 X	1	14	14	99.7%
6/30	1	24.0	131.17	100.00 X	0	0	0	99.7%
7/01	1	24.0	144.13	100.00 X	0	0	0	99.7%
7/02	1	24.0	139.01	100.00 X	0	0	0	99.7%
7/03	1	24.0	164.86	100.00 X	0	0	0	99.7%
7/04	1	24.0	147.66	100.00 X	0	0	0	99.7%
7/05	1	24.0	120.52	100.00 X	0	0	0	99.7%
7/06	1	24.0	118.49	100.00 X	0	0	0	99.7%
7/07	1	24.0	103.75	100.00 X	0	0	0	99.7%
7/08	1	24.0	138.07	100.00 X	0	0	0	99.7%
7/09	1	24.0	108.65	100.00 X	0	0	0	99.7%
7/10	1	24.0	116.53	100.00 X	0	0	0	99.7%
7/11	1	24.0	109.58	100.00 X	0	0	0	99.7%
7/12	1	24.0	105.28	100.00 X	0	0	0	99.7%
7/13	1	24.0	105.79	100.00 X	1	21	21	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MCNARY

* * *

STEELHEAD

* * *

RA-7N-1 SU STEELHEAD LOT ID # 85166-01 19,983 RELEASED AT: BELOW LI GOOSE FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
	SC = Sample quality code ID = Number of gateways sampled GW = Number of hours sampled	Hrs = Number of hours sampled					

***** CONTINUED *****

TOTAL	490	6,528	6,912
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- (1) Sample parameters: SC = Sample quality code SD = Number of accumulated days for sample
 GW = Number of gateways sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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MONARY

* * * STEELHEAD * * *

 RA-7N-3 SU STEELHEAD LOT ID # 85166-02 19,906 RELEASED AT: BELOW LI GOOSE FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... DAILY COUNT	(4)	
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			PASSAGE INDEX	... CUMULATIVE
5/17	1	24.0	212.92	100.00 X	4	57	57	0.8X
5/18	1	24.0	217.94	100.00 X	17	243	243	4.5X
5/19	1	24.0	213.18	100.00 X	15	214	214	7.6X
5/20	1	24.0	208.28	100.00 X	14	200	200	10.6X
5/21	1	24.0	228.17	100.00 X	18	257	257	14.4X
5/22	1	24.0	228.01	100.00 X	34	486	486	21.7X
5/23	1	24.0	227.75	100.00 X	29	414	414	27.8X
5/24	1	24.0	225.09	100.00 X	26	371	371	33.4X
5/25	1	24.0	261.27	84.28 X	33	471	559	41.7X
5/26	1	24.0	243.13	91.20 X	32	376	412	47.8X
5/27	1	24.0	208.07	100.00 X	26	325	325	52.6X
5/28	1	24.0	222.11	100.00 X	15	214	214	55.8X
5/29	1	24.0	233.81	94.42 X	29	414	438	62.3X
5/30	1	24.0	257.16	86.20 X	18	225	261	66.2X
5/31	2	22.0	260.70	84.66 X	3 *	109 *	129 *	68.1X
5/31	10	0.0	220.78	99.45 X	33 *	33 *	33 *	68.6X
6/01	1	26.0	224.90	98.51 X	3	150	152	70.9X
6/02	1	24.0	223.18	100.00 X	14	187	187	73.7X
6/03	1	24.0	213.99	100.00 X	16	229	229	77.1X
6/04	1	24.0	236.00	100.00 X	11	157	157	79.4X
6/05	1	24.0	182.95	100.00 X	12	171	171	82.0X
6/06	1	24.0	196.81	100.00 X	14	200	200	84.9X
6/07	1	24.0	211.60	100.00 X	10	143	143	87.1X
6/08	1	24.0	193.64	100.00 X	6	86	86	88.3X
6/09	1	24.0	203.05	100.00 X	5	71	71	89.4X
6/10	1	24.0	210.63	100.00 X	3	43	43	90.0X
6/11	1	24.0	218.02	100.00 X	9	129	129	92.0X
6/12	1	24.0	195.52	100.00 X	10	143	143	94.1X
6/13	2	21.0	217.08	100.00 X	4 *	133 *	133 *	96.1X
6/13	10	0.0	180.89	100.00 X	3 *	3 *	3 *	96.1X
6/14	1	27.0	184.50	100.00 X	1	33	33	96.6X
6/15	1	24.0	176.92	100.00 X	3	43	43	97.2X
6/16	1	24.0	179.20	100.00 X	2	29	29	97.7X
6/17	1	24.0	183.76	100.00 X	2	29	29	98.1X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY

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STEELHEAD

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RA-74-3 SU STEELHEAD LOT ID # 85166-02 19,906 RELEASED AT: BELOW LI GOOSE FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC-FD-GW-HRS	SAMPLE (1)	(2)	(3)	(4)		
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE

***** CONTINUED *****

6/18	1	24.0	170.52	100.00 X	1	14	14	98.3%
6/19	1	24.0	204.46	100.00 X	0	0	0	98.3%
6/20	1	24.0	201.23	100.00 X	2	29	29	98.7%
6/21	1	24.0	189.82	100.00 X	1	14	14	98.9%
6/22	1	24.0	184.08	100.00 X	2	29	29	99.4%
6/23	1	24.0	138.31	100.00 X	0	0	0	99.4%
6/24	1	24.0	157.00	100.00 X	0	0	0	99.4%
6/25	1	24.0	155.94	100.00 X	0	0	0	99.4%
6/26	1	24.0	154.78	100.00 X	0	0	0	99.4%
6/27	1	24.0	154.16	100.00 X	0	0	0	99.4%
6/28	1	24.0	152.23	100.00 X	0	0	0	99.4%
6/29	1	24.0	132.98	100.00 X	0	0	0	99.4%
6/30	1	24.0	131.17	100.00 X	0	0	0	99.4%
7/01	1	24.0	144.13	100.00 X	0	0	0	99.4%
7/02	1	24.0	139.01	100.00 X	0	0	0	99.4%
7/03	1	24.0	164.86	100.00 X	1	14	14	99.6%
7/04	1	24.0	147.66	100.00 X	0	0	0	99.6%
7/05	1	24.0	120.52	100.00 X	0	0	0	99.6%
7/06	1	24.0	118.49	100.00 X	0	0	0	99.6%
7/07	1	24.0	103.75	100.00 X	0	0	0	99.6%
7/08	1	24.0	138.07	100.00 X	0	0	0	99.6%
7/09	1	24.0	108.65	100.00 X	0	0	0	99.6%
7/10	1	24.0	116.53	100.00 X	0	0	0	99.6%
7/11	1	24.0	109.58	100.00 X	0	0	0	99.6%
7/12	1	24.0	105.28	100.00 X	0	0	0	99.6%
7/13	1	24.0	105.79	100.00 X	0	0	0	99.6%
7/14	1	24.0	100.93	100.00 X	0	0	0	99.6%
7/15	1	24.0	84.63	100.00 X	0	0	0	99.6%
7/16	1	24.0	85.46	100.00 X	0	0	0	99.6%
7/17	1	24.0	105.94	100.00 X	0	0	0	99.6%
7/18	1	24.0	121.82	100.00 X	0	0	0	99.6%
7/19	1	24.0	117.51	100.00 X	0	0	0	99.6%
7/20	1	24.0	104.98	100.00 X	0	0	0	99.6%
7/21	1	24.0	101.26	100.00 X	1	14	14	99.8%
7/22	1	24.0	87.47	100.00 X	0	0	0	99.8%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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HATCHERY

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STEELHEAD

* * *

RA-7N-3 SU STEELHEAD LOT ID # 85166-02 19,906 RELEASED AT: BELOW LI GOOSE FROM: 5/10/85 TO 5/
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC=ID#&HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX
						DAILY COUNT	CUMUL.

* * * * * C O N T I N U E D * * * * *

7/23	1	24.0	90.48	100.00 %	0	0	0	.
7/24	1	24.0	94.51	100.00 %	0	0	0	.
7/25	1	24.0	108.61	100.00 %	0	0	0	5
7/26	1	24.0	92.51	100.00 %	1	14	14	10
TOTAL					483	6,516	6,722	

- (1) Sample parameters:
 SC = Sample quality code #D = Number of accumulated days for sample
 Gw = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow:
 Data acquired from Corps data site - MCN
- (3) Index Flow:
 * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index:
 Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

*** STEELHEAD ***

LA-7S-1 SU STEELHEAD LOT ID # 85167-01 4,076 RELEASED AT: BELOW ICE HARBOR FROM: 5/08/85 TO 5/08/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	.. PARAMETERS .. SC--#D--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT	CUMULATIVE
		RIVER FLOW	INDEX FLOW	...			...
5/10	1	24.0	249.76	80.54 X	2	21	26	2.1%	
5/11	1	24.0	257.35	79.20 X	7	82	104	10.3%	
5/12	1	24.0	249.25	84.34 X	21	221	262	31.0%	
5/13	1	24.0	238.86	93.39 X	10	147	157	43.5%	
5/14	1	24.0	220.75	100.00 X	1	14	14	44.6%	
5/15	1	24.0	234.10	93.53 X	4	57	61	49.4%	
5/16	1	24.0	225.04	81.94 X	7	82	100	57.3%	
5/17	1	24.0	212.92	100.00 X	6	86	86	64.1%	
5/18	1	24.0	217.94	100.00 X	3	43	43	67.5%	
5/19	1	24.0	213.18	100.00 X	5	71	71	73.2%	
5/20	1	24.0	208.28	100.00 X	0	0	0	73.2%	
5/21	1	24.0	228.17	100.00 X	1	14	14	74.3%	
5/22	1	24.0	228.01	100.00 X	2	29	29	76.6%	
5/23	1	24.0	227.75	100.00 X	1	14	14	77.7%	
5/24	1	24.0	225.09	100.00 X	2	29	29	80.0%	
5/25	1	24.0	261.27	84.28 X	0	0	0	80.0%	
5/26	1	24.0	243.13	91.20 X	3	35	38	83.0%	
5/27	1	24.0	208.07	100.00 X	1	13	13	84.0%	
5/28	1	24.0	222.11	100.00 X	3	43	43	87.4%	
5/29	1	24.0	233.81	94.42 X	1	14	15	88.6%	
5/30	1	24.0	257.16	86.20 X	2	25	29	90.9%	
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	90.9%	
5/31	10	0.0	220.78	99.45 X	1 *	1 *	1 *	91.0%	
6/01	1	26.0	224.90	98.51 X	0	0	0	91.0%	
6/02	1	24.0	223.18	100.00 X	1	13	13	92.0%	
6/03	1	24.0	213.99	100.00 X	1	14	14	93.1%	
6/04	1	24.0	236.00	100.00 X	2	29	29	95.4%	
6/05	1	24.0	182.95	100.00 X	0	0	0	95.4%	
6/06	1	24.0	196.81	100.00 X	2	29	29	97.7%	
6/07	1	24.0	211.60	100.00 X	0	0	0	97.7%	
6/08	1	24.0	193.64	100.00 X	0	0	0	97.7%	
6/09	1	24.0	203.05	100.00 X	0	0	0	97.7%	
6/10	1	24.0	210.63	100.00 X	0	0	0	97.7%	
6/11	1	24.0	218.02	100.00 X	1	14	14	98.8%	

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCHARY

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STEELHEAD

* * *

LA-7S-1 SU STEELHEAD LOT ID # 85167-01 4,076 RELEASED AT: BELOW ICE HARBR FROM: 5/08/85 TO 5/08/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--#D--GW--HR:S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
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***** C O N T I N U E D *****

6/12	1	24.0	195.52	100.00 X	0	0	0	98.8%
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	98.8%
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	98.9%
6/14	1	27.0	184.50	100.00 X	0	0	0	98.9%
6/15	1	24.0	176.92	100.00 X	0	0	0	98.9%
6/16	1	24.0	179.20	100.00 X	1	14	14	100.0%
TOTAL					92	1,155	1,263	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

* * *

STEELHEAD

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LA-7S-3 SU STEELHEAD LOT ID # 85167-02 3,755 RELEASED AT: BELOW ICE HARBR FROM: 5/09/85 TO 5/09/85
 AGENCY: WIG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE SC	PARAMETERS #D GW HR:S	SAMPLE (1)	(2)	(3)	NUMBER NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW						
5/12	1	24.0	249.25	84.34 %		10	105	124	10.5%	
5/13	1	24.0	238.86	93.39 %		9	132	141	22.5%	
5/14	1	24.0	220.75	100.00 %		0	0	0	22.5%	
5/15	1	24.0	234.10	93.53 %		4	57	61	27.7%	
5/16	1	24.0	225.04	81.94 %		4	47	57	32.5%	
5/17	1	24.0	212.92	100.00 %		10	143	143	44.7%	
5/18	1	24.0	217.94	100.00 %		9	129	129	55.6%	
5/19	1	24.0	213.18	100.00 %		4	57	57	60.4%	
5/20	1	24.0	208.28	100.00 %		4	57	57	65.3%	
5/21	1	24.0	228.17	100.00 %		2	29	29	67.7%	
5/22	1	24.0	228.01	100.00 %		4	57	57	72.6%	
5/23	1	24.0	227.75	100.00 %		2	29	29	75.0%	
5/24	1	24.0	225.09	100.00 %		1	14	14	76.2%	
5/25	1	24.0	261.27	84.28 %		0	0	0	76.2%	
5/26	1	24.0	243.13	91.20 %		2	24	26	78.4%	
5/27	1	24.0	208.07	100.00 %		2	25	25	80.6%	
5/28	1	24.0	222.11	100.00 %		2	29	29	83.0%	
5/29	1	24.0	233.81	94.42 %		5	71	75	89.4%	
5/30	1	24.0	257.16	86.20 %		0	0	0	89.4%	
5/31	2	22.0	260.70	84.66 %		0 *	0 *	0 *	89.4%	
5/31	10	0.0	220.78	99.45 %		0 *	0 *	0 *	89.4%	
6/01	1	26.0	224.90	98.51 %		0	0	0	89.4%	
6/02	1	24.0	223.18	100.00 %		2	27	27	91.7%	
6/03	1	24.0	213.99	100.00 %		1	14	14	92.9%	
6/04	1	24.0	236.00	100.00 %		1	14	14	94.1%	
6/05	1	24.0	182.95	100.00 %		0	0	0	94.1%	
6/06	1	24.0	196.81	100.00 %		1	14	14	95.2%	
6/07	1	24.0	211.60	100.00 %		1	14	14	96.4%	
6/08	1	24.0	193.64	100.00 %		1	14	14	97.6%	
6/09	1	24.0	203.05	100.00 %		0	0	0	97.6%	
6/10	1	24.0	210.63	100.00 %		0	0	0	97.6%	
6/11	1	24.0	218.02	100.00 %		0	0	0	97.6%	
6/12	1	24.0	195.52	100.00 %		1	14	14	98.8%	

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MCNARY

* * * STEELHEAD * * *

LA-7S-3 SU STEELHEAD LOT ID # 85167-02 3,755 RELEASED AT: BELOW ICE HARBR FROM: 5/09/85 TO 5/09/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1) .. PARAMETERS .. SC #D GW-HRS,S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE		
						...	INDEX	...
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	98.8X
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	98.8X
6/14	1	27.0	184.50	100.00 X	0	0	0	98.8X
6/15	1	24.0	176.92	100.00 X	0	0	0	98.8X
6/16	1	24.0	179.20	100.00 X	0	0	0	98.8X
6/17	1	24.0	183.76	100.00 X	0	0	0	98.8X
6/18	1	24.0	170.52	100.00 X	0	0	0	98.8X
6/19	1	24.0	204.46	100.00 X	0	0	0	98.8X
6/20	1	24.0	201.23	100.00 X	0	0	0	98.8X
6/21	1	24.0	189.82	100.00 X	0	0	0	98.8X
6/22	1	24.0	184.08	100.00 X	0	0	0	98.8X
6/23	1	24.0	138.31	100.00 X	0	0	0	98.8X
6/24	1	24.0	157.00	100.00 X	0	0	0	98.8X
6/25	1	24.0	155.94	100.00 X	0	0	0	98.8X
6/26	1	24.0	154.78	100.00 X	0	0	0	98.8X
6/27	1	24.0	154.16	100.00 X	0	0	0	98.8X
6/28	1	24.0	152.23	100.00 X	0	0	0	98.8X
6/29	1	24.0	132.98	100.00 X	0	0	0	98.8X
6/30	1	24.0	131.17	100.00 X	0	0	0	98.8X
7/01	1	24.0	144.13	100.00 X	0	0	0	98.8X
7/02	1	24.0	139.01	100.00 X	0	0	0	98.8X
7/03	1	24.0	164.86	100.00 X	1	14	14	100.0X
<hr/>				TOTAL	83	1.130	1.178	<hr/>

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONDAY

STEELHEAD

-1 SU STEELHEAD LOT ID # 85167-04 4,050 RELEASED AT: BELOW ICE HARBR FROM: 5/13/85 TO 5/13/85
 AGENCY: WIG HATCHERY: LYONS FERRY

.. SAMPLE (1) SC-#D-GW-HS-S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	PASSAGE INDEX ...			
					... DAILY COUNT ...	INDEX	CUMULATIVE	
1	24.0	225.04	81.94 X	8	94	115	10.4%	
2	24.0	212.92	100.00 X	6	86	86	18.3%	
3	24.0	217.94	100.00 X	15	214	214	37.7%	
4	24.0	213.18	100.00 X	13	186	186	54.6%	
5	24.0	208.28	100.00 X	3	43	43	58.5%	
6	24.0	228.17	100.00 X	4	57	57	63.7%	
7	24.0	228.01	100.00 X	0	0	0	63.7%	
8	24.0	227.75	100.00 X	7	100	100	72.6%	
9	24.0	225.09	100.00 X	5	71	71	79.2%	
10	24.0	261.27	84.28 X	5	71	84	84.8%	
11	24.0	243.13	91.20 X	1	12	13	88.0%	
12	24.0	208.07	100.00 X	2	25	25	90.3%	
13	24.0	222.11	100.00 X	0	0	0	90.3%	
14	24.0	233.81	94.42 X	0	0	0	90.3%	
15	24.0	257.16	86.20 X	0	0	0	90.3%	
16	2	22.0	260.70	84.66 X	0 *	0 *	90.3%	
17	10	0.0	220.78	99.45 X	0 *	0 *	90.3%	
18	1	26.0	224.90	98.51 X	1	50	51	94.9%
19	1	24.0	223.18	100.00 X	1	13	13	96.1%
20	1	24.0	213.99	100.00 X	1	14	14	97.4%
21	1	24.0	236.00	100.00 X	0	0	0	97.4%
22	1	24.0	182.95	100.00 X	0	0	0	97.4%
23	1	24.0	196.81	100.00 X	0	0	0	97.4%
24	1	24.0	211.60	100.00 X	0	0	0	97.4%
25	1	24.0	193.64	100.00 X	0	0	0	97.4%
26	1	24.0	203.05	100.00 X	0	0	0	97.4%
27	1	24.0	210.63	100.00 X	1	14	14	98.6%
28	1	24.0	218.02	100.00 X	0	0	0	98.6%
29	1	24.0	195.52	100.00 X	0	0	0	98.6%
30	2	21.0	217.08	100.00 X	0 *	0 *	0 *	98.6%
31	10	0.0	180.89	100.00 X	1 *	1 *	1 *	98.7%
32	1	27.0	184.50	100.00 X	0	0	0	98.7%
33	1	24.0	176.92	100.00 X	0	0	0	98.7%

***** CONTINUED *****

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RY		STEELHEAD				
LD-71		STEELHEAD LOT ID # 85167-04	4,050	RELEASED AT: BELOW ICE HARBR	FROM: 5/13/85 TO 5/13/85	
DATE	SAMPLE (1)	(2)	(3)	NUMBER	NUMBER	(4)
1985	PARAMETERS ..	RIVER #D-GW-HRS	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
***** CONTINUED *****						
6/16	24.0	179.20	100.00 X	0	0	0 98.7%
6/17	24.0	183.76	100.00 X	0	0	0 98.7%
6/18	24.0	170.52	100.00 X	0	0	0 98.7%
6/19	24.0	204.46	100.00 X	0	0	0 98.7%
6/20	24.0	201.23	100.00 X	1	14	14 100.0%
<u>TOTAL</u>				<u>75</u>	<u>1,065</u>	<u>1.101</u>

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gateweells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - McN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONARY

* * *

STEELHEAD

* * *

ID-7S-3 SU STEELHEAD LOT ID # 85167-05 4,020 RELEASED AT: BELOW ICE HARBOR FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE SC	PARAMETERS ID-GW-HB.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/17	1	24.0	212.92	100.00 X	7	100	100	12.4X
5/18	1	24.0	217.94	100.00 X	3	43	43	17.7X
5/19	1	24.0	213.18	100.00 X	6	86	86	28.3X
5/20	1	24.0	208.28	100.00 X	3	43	43	33.6X
5/21	1	24.0	228.17	100.00 X	4	57	57	40.7X
5/22	1	24.0	228.01	100.00 X	0	0	0	40.7X
5/23	1	24.0	227.75	100.00 X	2	29	29	44.3X
5/24	1	24.0	225.09	100.00 X	8	114	114	58.3X
5/25	1	24.0	261.27	84.28 X	5	71	84	68.7X
5/26	1	24.0	243.13	91.20 X	3	35	38	73.4X
5/27	1	24.0	208.07	100.00 X	2	25	25	76.5X
5/28	1	24.0	222.11	100.00 X	1	14	14	78.2X
5/29	1	24.0	233.81	94.42 X	4	57	60	85.7X
5/30	1	24.0	257.16	86.20 X	3	38	44	91.1X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	91.1X
5/31	10	0.0	220.78	99.45 X	2 *	2 *	2 *	91.3X
6/01	1	26.0	224.90	98.51 X	0	0	0	91.3X
6/02	1	24.0	223.18	100.00 X	2	27	27	94.7X
6/03	1	24.0	213.99	100.00 X	0	0	0	94.7X
6/04	1	24.0	236.00	100.00 X	0	0	0	94.7X
6/05	1	24.0	182.95	100.00 X	0	0	0	94.7X
6/06	1	24.0	196.81	100.00 X	0	0	0	94.7X
6/07	1	24.0	211.60	100.00 X	1	14	14	96.4X
6/08	1	24.0	193.64	100.00 X	0	0	0	96.4X
6/09	1	24.0	203.05	100.00 X	0	0	0	96.4X
6/10	1	24.0	210.63	100.00 X	1	14	14	98.1X
6/11	1	24.0	218.02	100.00 X	0	0	0	98.1X
6/12	1	24.0	195.52	100.00 X	1	14	14	99.9X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.9X
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	100.0X

***** CONTINUED *****

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MCNARY

* * * STEELHEAD * * *

LI-7S-3 SU STEELHEAD LOT ID # 85167-05 4,020 RELEASED AT: BELOW ICE HARBR FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1) .. PARAMETERS ..	(2) RIVER SC=4D-GW-HB+S	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

TOTAL	59	784	809
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- (1) Sample parameters: SC = Sample quality code 4D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * STEELHEAD * * *

RA-7S-1 SU STEELHEAD LOT ID # 85167-03 4,159 RELEASED AT: BELOW ICE HARBR FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
	..	PARAMETERS ..					... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/13	1	24.0	238.86	93.39 X	4	59	63	5.4X	
5/14	1	24.0	220.75	100.00 X	7	100	100	14.1X	
5/15	1	24.0	234.10	93.53 X	5	71	76	20.7X	
5/16	1	24.0	225.04	81.94 X	6	71	87	28.2X	
5/17	1	24.0	212.92	100.00 X	11	157	157	41.7X	
5/18	1	24.0	217.94	100.00 X	6	86	86	49.2X	
5/19	1	24.0	213.18	100.00 X	3	43	43	52.9X	
5/20	1	24.0	208.28	100.00 X	1	14	14	54.1X	
5/21	1	24.0	228.17	100.00 X	6	86	86	61.5X	
5/22	1	24.0	228.01	100.00 X	4	57	57	66.5X	
5/23	1	24.0	227.75	100.00 X	1	14	14	67.7X	
5/24	1	24.0	225.09	100.00 X	3	43	43	71.4X	
5/25	1	24.0	261.27	84.28 X	1	14	17	72.9X	
5/26	1	24.0	243.13	91.20 X	6	71	78	79.6X	
5/27	1	24.0	208.07	100.00 X	2	25	25	81.8X	
5/28	1	24.0	222.11	100.00 X	2	29	29	84.3X	
5/29	1	24.0	233.81	94.42 X	1	14	15	85.6X	
5/30	1	24.0	257.16	86.20 X	2	25	29	88.1X	
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	95.5X	
5/31	10	0.0	220.78	99.45 X	8 *	8 *	8 *	96.2X	
6/01	1	26.0	224.90	98.51 X	0	0	0	96.2X	
6/02	1	24.0	223.18	100.00 X	0	0	0	96.2X	
6/03	1	24.0	213.99	100.00 X	0	0	0	96.2X	
6/04	1	24.0	236.00	100.00 X	1	14	14	97.4X	
6/05	1	24.0	182.95	100.00 X	0	0	0	97.4X	
6/06	1	24.0	196.81	100.00 X	0	0	0	97.4X	
6/07	1	24.0	211.60	100.00 X	0	0	0	97.4X	
6/08	1	24.0	193.64	100.00 X	0	0	0	97.4X	
6/09	1	24.0	203.05	100.00 X	0	0	0	97.4X	
6/10	1	24.0	210.63	100.00 X	0	0	0	97.4X	
6/11	1	24.0	218.02	100.00 X	1	14	14	98.6X	
6/12	1	24.0	195.52	100.00 X	0	0	0	98.6X	
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	98.6X	
6/13	10	0.0	180.89	100.00 X	2 *	2 *	2 *	98.8X	

***** CONTINUED *****

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MCNARY

* * *

STEELHEAD

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RA-7S-1 SU STEELHEAD LOT ID # 85167-03 4,159 RELEASED AT: BELOW ICE HARBR FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC--#D-GW-HRS	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
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***** C O N T I N U E D *****

6/14	1	27.0	184.50	100.00 %	0	0	0	98.8%
6/15	1	24.0	176.92	100.00 %	0	0	0	98.8%
6/16	1	24.0	179.20	100.00 %	0	0	0	98.8%
6/17	1	24.0	183.76	100.00 %	0	0	0	98.8%
6/18	1	24.0	170.52	100.00 %	0	0	0	98.8%
6/19	1	24.0	204.46	100.00 %	0	0	0	98.8%
6/20	1	24.0	201.23	100.00 %	0	0	0	98.8%
6/21	1	24.0	189.82	100.00 %	0	0	0	98.8%
6/22	1	24.0	184.08	100.00 %	0	0	0	98.8%
6/23	1	24.0	138.31	100.00 %	0	0	0	98.8%
6/24	1	24.0	157.00	100.00 %	0	0	0	98.8%
6/25	1	24.0	155.94	100.00 %	0	0	0	98.8%
6/26	1	24.0	154.78	100.00 %	1	14	14	100.0%
<hr/>					TOTAL	86	1,104	1,157

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCHARY

* * * STEELHEAD * * *

RD-7S-1 SU STEELHEAD LOT ID # 85167-06 4,219 RELEASED AT: BELOW ICE HARBR FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	(3)		(4)			
	SC	ID			GW	HR+S	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
5/17	1	24.0	212.92	100.00 X			10	143	143	12.3%
5/18	1	24.0	217.94	100.00 X			8	114	114	22.0%
5/19	1	24.0	213.18	100.00 X			11	157	157	35.5%
5/20	1	24.0	208.28	100.00 X			4	57	57	40.4%
5/21	1	24.0	228.17	100.00 X			4	57	57	45.3%
5/22	1	24.0	228.01	100.00 X			9	129	129	56.3%
5/23	1	24.0	227.75	100.00 X			9	129	129	67.4%
5/24	1	24.0	226.09	100.00 X			3	43	43	71.1%
5/25	1	24.0	261.27	84.28 X			3	43	51	75.5%
5/26	1	24.0	243.13	91.20 X			4	47	52	79.9%
5/27	1	24.0	208.07	100.00 X			1	13	13	81.0%
5/28	1	24.0	222.11	100.00 X			3	43	43	84.7%
5/29	1	24.0	233.81	94.42 X			1	14	15	86.0%
5/30	1	24.0	257.16	86.20 X			5	63	73	92.3%
5/31	2	22.0	260.70	84.66 X			0 *	0 *	0 *	92.3%
5/31	10	0.0	220.78	99.45 X			1 *	1 *	1 *	92.4%
6/01	1	26.0	224.90	98.51 X			0	0	0	92.4%
6/02	1	24.0	223.18	100.00 X			0	0	0	92.4%
6/03	1	24.0	213.99	100.00 X			1	14	14	93.6%
6/04	1	24.0	236.00	100.00 X			0	0	0	93.6%
6/05	1	24.0	182.95	100.00 X			0	0	0	93.6%
6/06	1	24.0	196.81	100.00 X			0	0	0	93.6%
6/07	1	24.0	211.60	100.00 X			1	14	14	94.8%
6/08	1	24.0	193.64	100.00 X			1	14	14	96.0%
6/09	1	24.0	203.05	100.00 X			0	0	0	96.0%
6/10	1	24.0	210.63	100.00 X			0	0	0	96.0%
6/11	1	24.0	218.02	100.00 X			1	14	14	97.2%
6/12	1	24.0	195.52	100.00 X			0	0	0	97.2%
6/13	2	21.0	217.08	100.00 X			1 *	33 *	33 *	100.0%
6/13	10	0.0	180.89	100.00 X			0 *	0 *	0 *	100.0%

***** CONTINUED *****

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MCNARY

* * * STEELHEAD * * *

RD-7S-1 SU STEELHEAD LOT ID # 85167-06 4,219 RELEASED AT: BELOW ICE HARBR FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: LYONS FERRY

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC-ID-GW-HRS	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** CONTINUED *****

<u>TOTAL</u>	81	1.142	1.166
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- (1) Sample parameters: SC = Sample quality code ID = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * *

STEELHEAD

* * *

ID-7T-1 SU STEELHEAD LOT ID # 85163-08 3,986 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/20/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE SC	PARAMETERS #D GW HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...	
							DAILY COUNT	CUMULATIVE
5/23	1	24.0	227.75	100.00 X	6	86	86	5.0%
5/24	1	24.0	225.09	100.00 X	18	257	257	20.1%
5/25	1	24.0	261.27	84.28 X	27	386	458	47.0%
5/26	1	24.0	243.13	91.20 X	21	247	271	62.8%
5/27	1	24.0	208.07	100.00 X	8	100	100	68.7%
5/28	1	24.0	222.11	100.00 X	7	100	100	74.6%
5/29	1	24.0	233.81	94.42 X	10	143	151	83.4%
5/30	1	24.0	257.16	86.20 X	4	50	58	86.8%
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	89.3%
5/31	10	0.0	220.78	99.45 X	4 *	4 *	4 *	89.6%
6/01	1	26.0	224.90	98.51 X	1	50	51	92.6%
6/02	1	24.0	223.18	100.00 X	1	13	13	93.3%
6/03	1	24.0	213.99	100.00 X	2	29	29	95.0%
6/04	1	24.0	236.00	100.00 X	1	14	14	95.8%
6/05	1	24.0	182.95	100.00 X	0	0	0	95.8%
6/06	1	24.0	196.81	100.00 X	0	0	0	95.8%
6/07	1	24.0	211.60	100.00 X	2	29	29	97.5%
6/08	1	24.0	193.64	100.00 X	0	0	0	97.5%
6/09	1	24.0	203.05	100.00 X	0	0	0	97.5%
6/10	1	24.0	210.63	100.00 X	0	0	0	97.5%
6/11	1	24.0	218.02	100.00 X	1	14	14	98.4%
6/12	1	24.0	195.52	100.00 X	1	14	14	99.2%
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.2%
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	99.2%
6/14	1	27.0	184.50	100.00 X	0	0	0	99.2%
6/15	1	24.0	176.92	100.00 X	0	0	0	99.2%
6/16	1	24.0	179.20	100.00 X	0	0	0	99.2%
6/17	1	24.0	183.76	100.00 X	0	0	0	99.2%
6/18	1	24.0	170.52	100.00 X	0	0	0	99.2%
6/19	1	24.0	204.46	100.00 X	0	0	0	99.2%
6/20	1	24.0	201.23	100.00 X	0	0	0	99.2%
6/21	1	24.0	189.82	100.00 X	0	0	0	99.2%
6/22	1	24.0	184.08	100.00 X	0	0	0	99.2%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

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STEELHEAD

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LD-7T-1 SU STEELHEAD LOT ID # 85163-08 3,986 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/20/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D-GW-HR.S	RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
						... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	

***** C O N T I N U E D *****

6/23	1	24.0	138.31	100.00 X	0	0	0	99.2X
6/24	1	24.0	157.00	100.00 X	0	0	0	99.2X
6/25	1	24.0	155.94	100.00 X	0	0	0	99.2X
6/26	1	24.0	154.78	100.00 X	0	0	0	99.2X
6/27	1	24.0	154.16	100.00 X	1	14	14	100.0X

TOTAL			116	1,586	1,706	
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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MCNARY

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STEELHEAD

* * *

LD-7T-3 SU STEELHEAD LOT ID # 85163-07 4,138 RELEASED AT: BELOW PRST RAPI FROM: 5/21/85 TO 5/21/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW				
5/24	1	24.0	225.09	100.00 X	3	43	43	6.2%
5/25	1	24.0	261.27	84.28 X	10	143	170	30.8%
5/26	1	24.0	243.13	91.20 X	13	153	168	55.1%
5/27	1	24.0	208.07	100.00 X	4	50	50	62.3%
5/28	1	24.0	222.11	100.00 X	5	71	71	72.5%
5/29	1	24.0	233.81	94.42 X	5	71	75	83.4%
5/30	1	24.0	257.16	86.20 X	3	38	44	89.7%
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	89.7%
5/31	10	0.0	220.78	99.45 X	3 *	3 *	3 *	90.2%
6/01	1	26.0	224.90	98.51 X	0	0	0	90.2%
6/02	1	24.0	223.18	100.00 X	3	40	40	96.0%
6/03	1	24.0	213.99	100.00 X	0	0	0	96.0%
6/04	1	24.0	236.00	100.00 X	0	0	0	96.0%
6/05	1	24.0	182.95	100.00 X	0	0	0	96.0%
6/06	1	24.0	196.81	100.00 X	0	0	0	96.0%
6/07	1	24.0	211.60	100.00 X	1	14	14	98.0%
6/08	1	24.0	193.64	100.00 X	0	0	0	98.0%
6/09	1	24.0	203.05	100.00 X	1	14	14	100.0%
TOTAL					51	640	692	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * *

STEELHEAD

* * *

RD-7T-3 SU STEELHEAD LOT ID # 85163-09

4,289 RELEASED AT: BELOW PRST RAPI FROM: 5/22/85 TO 5/22/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC ID GW HB S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/25	1	24.0	261.27	84.28 X	5	71	84 7.0%
5/26	1	24.0	243.13	91.20 X	18	212	232 26.2%
5/27	1	24.0	208.07	100.00 X	19	238	238 45.9%
5/28	1	24.0	222.11	100.00 X	11	157	157 58.9%
5/29	1	24.0	233.81	94.42 X	9	129	137 70.2%
5/30	1	24.0	257.16	86.20 X	4	50	58 75.0%
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 * 82.1%
5/31	10	0.0	220.78	99.45 X	9 *	9 *	9 * 82.9%
6/01	1	26.0	224.90	98.51 X	0	0	0 82.9%
6/02	1	24.0	223.18	100.00 X	6	80	80 89.5%
6/03	1	24.0	213.99	100.00 X	1	14	14 90.6%
6/04	1	24.0	236.00	100.00 X	3	43	43 94.2%
6/05	1	24.0	182.95	100.00 X	0	0	0 94.2%
6/06	1	24.0	196.81	100.00 X	1	14	14 95.4%
6/07	1	24.0	211.60	100.00 X	0	0	0 95.4%
6/08	1	24.0	193.64	100.00 X	0	0	0 95.4%
6/09	1	24.0	203.05	100.00 X	0	0	0 95.4%
6/10	1	24.0	210.63	100.00 X	1	14	14 96.5%
6/11	1	24.0	218.02	100.00 X	0	0	0 96.5%
6/12	1	24.0	195.52	100.00 X	1	14	14 97.7%
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 * 97.7%
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 * 97.7%
6/14	1	27.0	184.50	100.00 X	0	0	0 97.7%
6/15	1	24.0	176.92	100.00 X	0	0	0 97.7%
6/16	1	24.0	179.20	100.00 X	0	0	0 97.7%
6/17	1	24.0	183.76	100.00 X	0	0	0 97.7%
6/18	1	24.0	170.52	100.00 X	0	0	0 97.7%
6/19	1	24.0	204.46	100.00 X	1	14	14 98.8%
6/20	1	24.0	201.23	100.00 X	0	0	0 98.8%
6/21	1	24.0	189.82	100.00 X	0	0	0 98.8%
6/22	1	24.0	184.08	100.00 X	0	0	0 98.8%
6/23	1	24.0	138.31	100.00 X	0	0	0 98.8%
6/24	1	24.0	157.00	100.00 X	0	0	0 98.8%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MONARY

* * *

STEELHEAD

* * *

RD-7T-3 SU STEELHEAD LOT ID # 85163-09 4,289 RELEASED AT: BELOW PRST RAPI FROM: 5/22/85 TO 5/22/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1) .. PARAMETERS .. SC ID GW HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
						DAILY COUNT	CUMULATIVE	
***** CONTINUED *****								
6/25	1	24.0	155.94	100.00 %	0	0	0	98.8%
6/26	1	24.0	154.78	100.00 %	1	14	14	100.0%
<u>TOTAL</u>				92	1,146		1,208	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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HONARY

* * * STEELHEAD * * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE #	(1)		(2)		(3)		... DAILY COUNT	PASSAGE INDEX	INDEX CUMULATIVE
		SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED			
5/23	1	24.0	227.75	100.00 %		2	29	29	0.4%	
5/24	1	24.0	225.09	100.00 %		6	86	86	1.6%	
5/25	1	24.0	261.27	84.28 %		13	186	221	4.8%	
5/26	1	24.0	243.13	91.20 %		62	729	799	16.2%	
5/27	1	24.0	208.07	100.00 %		79	988	988	30.3%	
5/28	1	24.0	222.11	100.00 %		61	871	871	42.7%	
5/29	1	24.0	233.81	94.42 %		58	829	878	55.2%	
5/30	1	24.0	257.16	86.20 %		49	613	711	65.3%	
5/31	2	22.0	260.70	84.66 %		10 *	364 *	430 *	71.4%	
5/31	10	0.0	220.78	99.45 %		48 *	48 *	48 *	72.1%	
6/01	1	26.0	224.90	98.51 %		9	450	457	78.6%	
6/02	1	24.0	223.18	100.00 %		20	267	267	82.4%	
6/03	1	24.0	213.99	100.00 %		12	171	171	84.9%	
6/04	1	24.0	236.00	100.00 %		16	229	229	88.1%	
6/05	1	24.0	182.95	100.00 %		11	157	157	90.4%	
6/06	1	24.0	196.81	100.00 %		5	71	71	91.4%	
6/07	1	24.0	211.60	100.00 %		12	171	171	93.8%	
6/08	1	24.0	193.64	100.00 %		5	71	71	94.8%	
6/09	1	24.0	203.05	100.00 %		3	43	43	95.5%	
6/10	1	24.0	210.63	100.00 %		1	14	14	95.7%	
6/11	1	24.0	218.02	100.00 %		5	71	71	96.7%	
6/12	1	24.0	195.52	100.00 %		3	43	43	97.3%	
6/13	2	21.0	217.08	100.00 %		1 *	33 *	33 *	97.7%	
6/13	10	0.0	180.89	100.00 %		3 *	3 *	3 *	97.8%	
6/14	1	27.0	184.50	100.00 %		0	0	0	97.8%	
6/15	1	24.0	176.92	100.00 %		1	14	14	98.0%	
6/16	1	24.0	179.20	100.00 %		0	0	0	98.0%	
6/17	1	24.0	183.76	100.00 %		3	43	43	98.6%	
6/18	1	24.0	170.52	100.00 %		0	0	0	98.6%	
6/19	1	24.0	204.46	100.00 %		0	0	0	98.6%	
6/20	1	24.0	201.23	100.00 %		1	14	14	98.8%	
6/21	1	24.0	189.82	100.00 %		1	14	14	99.0%	
6/22	1	24.0	184.08	100.00 %		0	0	0	99.0%	

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * STEELHEAD * * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				... PASSAGE INDEX ...
SC-D-GW-HR-S								

***** C O N T I N U E D *****

6/23	1	24.0	138.31	100.00 %	0	0	0	99.0%
6/24	1	24.0	157.00	100.00 %	0	0	0	99.0%
6/25	1	24.0	155.94	100.00 %	1	14	14	99.2%
6/26	1	24.0	154.78	100.00 %	1	14	14	99.4%
6/27	1	24.0	154.16	100.00 %	1	14	14	99.6%
6/28	1	24.0	152.23	100.00 %	0	0	0	99.6%
6/29	1	24.0	132.98	100.00 %	1	14	14	99.8%
6/30	1	24.0	131.17	100.00 %	0	0	0	99.8%
7/01	1	24.0	144.13	100.00 %	0	0	0	99.8%
7/02	1	24.0	139.01	100.00 %	0	0	0	99.8%
7/03	1	24.0	164.86	100.00 %	0	0	0	99.8%
7/04	1	24.0	147.66	100.00 %	0	0	0	99.8%
7/05	1	24.0	120.52	100.00 %	0	0	0	99.8%
7/06	1	24.0	118.49	100.00 %	0	0	0	99.8%
7/07	1	24.0	103.75	100.00 %	0	0	0	99.8%
7/08	1	24.0	138.07	100.00 %	0	0	0	99.8%
7/09	1	24.0	108.65	100.00 %	0	0	0	99.8%
7/10	1	24.0	116.53	100.00 %	0	0	0	99.8%
7/11	1	24.0	109.58	100.00 %	0	0	0	99.8%
7/12	1	24.0	105.28	100.00 %	0	0	0	99.8%
7/13	1	24.0	105.79	100.00 %	0	0	0	99.8%
7/14	1	24.0	100.93	100.00 %	0	0	0	99.8%
7/15	1	24.0	84.63	100.00 %	0	0	0	99.8%
7/16	1	24.0	85.46	100.00 %	0	0	0	99.8%
7/17	1	24.0	105.94	100.00 %	0	0	0	99.8%
7/18	1	24.0	121.82	100.00 %	0	0	0	99.8%
7/19	1	24.0	117.51	100.00 %	0	0	0	99.8%
7/20	1	24.0	104.98	100.00 %	0	0	0	99.8%
7/21	1	24.0	101.26	100.00 %	0	0	0	99.8%
7/22	1	24.0	87.47	100.00 %	0	0	0	99.8%
7/23	1	24.0	90.48	100.00 %	0	0	0	99.8%
7/24	1	24.0	94.51	100.00 %	0	0	0	99.8%
7/25	1	24.0	108.61	100.00 %	0	0	0	99.8%
7/26	1	24.0	92.51	100.00 %	0	0	0	99.8%

***** C O N T I N U E D *****

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* * *

STEELHEAD

* * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
SC-10-GH-HB-S							

***** C O N T I N U E D *****

7/27	1	24.0	83.51	100.00 X	0	0	0	99.8%
7/28	1	24.0	67.53	100.00 X	0	0	0	99.8%
7/29	1	24.0	91.69	100.00 X	0	0	0	99.8%
7/30	1	24.0	87.67	100.00 X	0	0	0	99.8%
7/31	1	24.0	86.02	100.00 X	0	0	0	99.8%
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	99.8%
8/01	10	0.0	86.13	100.00 X	0 *	0 *	0 *	99.8%
8/02	1	27.0	88.77	100.00 X	0	0	0	99.8%
8/03	1	24.0	90.79	100.00 X	0	0	0	99.8%
8/04	1	24.0	79.26	100.00 X	0	0	0	99.8%
8/05	1	24.0	86.04	100.00 X	0	0	0	99.8%
8/06	1	24.0	77.25	100.00 X	0	0	0	99.8%
8/07	1	24.0	116.09	100.00 X	0	0	0	99.8%
8/08	1	24.0	90.45	100.00 X	0	0	0	99.8%
8/09	1	24.0	99.22	100.00 X	0	0	0	99.8%
8/10	1	24.0	96.76	100.00 X	0	0	0	99.8%
8/11	1	24.0	80.94	100.00 X	0	0	0	99.8%
8/12	1	24.0	71.08	100.00 X	0	0	0	99.8%
8/13	1	24.0	95.40	100.00 X	0	0	0	99.8%
8/14	1	24.0	102.17	100.00 X	0	0	0	99.8%
8/15	1	24.0	113.53	100.00 X	0	0	0	99.8%
8/16	1	24.0	111.22	100.00 X	0	0	0	99.8%
8/17	1	24.0	93.07	100.00 X	0	0	0	99.8%
8/18	1	24.0	89.30	100.00 X	0	0	0	99.8%
8/19	1	24.0	85.41	100.00 X	0	0	0	99.8%
8/20	1	24.0	97.50	100.00 X	0	0	0	99.8%
8/21	1	24.0	89.27	100.00 X	0	0	0	99.8%
8/22	1	24.0	84.62	100.00 X	0	0	0	99.8%
8/23	1	24.0	91.79	100.00 X	0	0	0	99.8%
8/24	1	24.0	80.45	100.00 X	0	0	0	99.8%
8/25	1	24.0	73.42	100.00 X	0	0	0	99.8%
8/26	1	24.0	85.48	100.00 X	0	0	0	99.8%
8/27	1	24.0	95.48	100.00 X	0	0	0	99.8%
8/28	1	24.0	113.00	100.00 X	0	0	0	99.8%

***** C O N T I N U E D *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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MONDAY

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STEELHEAD

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LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)		
						... PASSAGE DAILY COUNT	INDEX	... CUMULATIVE

***** CONTINUED *****

8/29	1	24.0	94.01	100.00 %	0	0	0	99.8%
8/30	1	24.0	73.53	100.00 %	0	0	0	99.8%
8/31	1	24.0	88.98	100.00 %	0	0	0	99.8%
9/01	1	24.0	72.47	100.00 %	0	0	0	99.8%
9/02	1	24.0	85.55	100.00 %	0	0	0	99.8%
9/03	1	24.0	95.84	100.00 %	0	0	0	99.8%
9/04	1	24.0	77.75	100.00 %	0	0	0	99.8%
9/05	1	24.0	105.89	100.00 %	0	0	0	99.8%
9/06	1	24.0	99.96	100.00 %	0	0	0	99.8%
9/07	1	24.0	87.06	100.00 %	0	0	0	99.8%
9/08	1	24.0	80.68	100.00 %	0	0	0	99.8%
9/09	1	24.0	82.24	100.00 %	0	0	0	99.8%
9/10	1	24.0	89.57	100.00 %	0	0	0	99.8%
9/11	1	24.0	99.12	100.00 %	0	0	0	99.8%
9/12	1	24.0	94.56	100.00 %	0	0	0	99.8%
9/13	1	24.0	97.93	100.00 %	0	0	0	99.8%
9/14	1	24.0	98.05	100.00 %	0	0	0	99.8%
9/15	1	24.0	82.26	100.00 %	0	0	0	99.8%
9/16	1	24.0	87.37	100.00 %	0	0	0	99.8%
9/17	1	24.0	82.98	100.00 %	0	0	0	99.8%
9/18	1	24.0	111.50	100.00 %	0	0	0	99.8%
9/19	1	24.0	116.09	100.00 %	0	0	0	99.8%
9/20	1	24.0	102.93	100.00 %	1	14	14	100.0%
<hr/>					505	6,692	7,017	

TOTAL

- (1) Sample parameters: SC = Sample quality code SD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCHARY

* * * STEELHEAD * * *

RA-7U-1 SU STEELHEAD LOT ID # 85152-01 30,479 RELEASED AT: METHOW R FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW					
5/14	1	24.0	220.75	100.00 X	5	71	71	0.8%
5/15	1	24.0	234.10	93.53 X	8	114	122	2.2%
5/16	1	24.0	225.04	81.94 X	48	565	690	10.0%
5/17	1	24.0	212.92	100.00 X	62	886	886	20.0%
5/18	1	24.0	217.94	100.00 X	68	971	971	30.9%
5/19	1	24.0	213.18	100.00 X	64	914	914	41.2%
5/20	1	24.0	208.28	100.00 X	51	729	729	49.5%
5/21	1	24.0	228.17	100.00 X	51	729	729	57.7%
5/22	1	24.0	228.01	100.00 X	35	500	500	63.3%
5/23	1	24.0	227.75	100.00 X	37	529	529	69.3%
5/24	1	24.0	225.09	100.00 X	20	286	286	72.5%
5/25	1	24.0	261.27	84.28 X	26	371	440	77.5%
5/26	1	24.0	243.13	91.20 X	37	435	477	82.9%
5/27	1	24.0	208.07	100.00 X	22	275	275	86.0%
5/28	1	24.0	222.11	100.00 X	14	200	200	88.3%
5/29	1	24.0	233.81	94.42 X	11	157	166	90.1%
5/30	1	24.0	257.16	86.20 X	15	188	218	92.6%
5/31	2	22.0	260.70	84.66 X	5 *	182 *	215 *	95.0%
5/31	10	0.0	220.78	99.45 X	5 *	5 *	5 *	95.1%
6/01	1	26.0	224.90	98.51 X	1	50	51	95.7%
6/02	1	24.0	223.18	100.00 X	6	80	80	96.6%
6/03	1	24.0	213.99	100.00 X	2	29	29	96.9%
6/04	1	24.0	236.00	100.00 X	4	57	57	97.5%
6/05	1	24.0	182.95	100.00 X	3	43	43	98.0%
6/06	1	24.0	196.81	100.00 X	0	0	0	98.0%
6/07	1	24.0	211.60	100.00 X	2	29	29	98.3%
6/08	1	24.0	193.64	100.00 X	0	0	0	98.3%
6/09	1	24.0	203.05	100.00 X	1	14	14	98.5%
6/10	1	24.0	210.63	100.00 X	1	14	14	98.7%
6/11	1	24.0	218.02	100.00 X	3	43	43	99.1%
6/12	1	24.0	195.52	100.00 X	1	14	14	99.3%
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.3%
6/13	10	0.0	180.89	100.00 X	1 *	1 *	1 *	99.3%
6/14	1	27.0	184.50	100.00 X	1	33	33	99.7%

***** C O N T I N U E D *****

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MONARY

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STEELHEAD

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RA-7U-1 SU STEELHEAD LOT ID # 85152-01 30,479 RELEASED AT: METHOW R FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
		RIVER FLOW	INDEX FLOW					

***** C O N T I N U E D *****

6/15	1	24.0	176.92	100.00 X	0	0	0	99.7X
6/16	1	24.0	179.20	100.00 X	0	0	0	99.7X
6/17	1	24.0	183.76	100.00 X	0	0	0	99.7X
6/18	1	24.0	170.52	100.00 X	0	0	0	99.7X
6/19	1	24.0	204.46	100.00 X	0	0	0	99.7X
6/20	1	24.0	201.23	100.00 X	0	0	0	99.7X
6/21	1	24.0	189.82	100.00 X	0	0	0	99.7X
6/22	1	24.0	184.08	100.00 X	0	0	0	99.7X
6/23	1	24.0	138.31	100.00 X	1	14	14	99.8X
6/24	1	24.0	157.00	100.00 X	0	0	0	99.8X
6/25	1	24.0	155.94	100.00 X	0	0	0	99.8X
6/26	1	24.0	154.78	100.00 X	0	0	0	99.8X
6/27	1	24.0	154.16	100.00 X	0	0	0	99.8X
6/28	1	24.0	152.23	100.00 X	0	0	0	99.8X
6/29	1	24.0	132.98	100.00 X	0	0	0	99.8X
6/30	1	24.0	131.17	100.00 X	0	0	0	99.8X
7/01	1	24.0	144.13	100.00 X	0	0	0	99.8X
7/02	1	24.0	139.01	100.00 X	0	0	0	99.8X
7/03	1	24.0	164.86	100.00 X	0	0	0	99.8X
7/04	1	24.0	147.66	100.00 X	0	0	0	99.8X
7/05	1	24.0	120.52	100.00 X	0	0	0	99.8X
7/06	1	24.0	118.49	100.00 X	0	0	0	99.8X
7/07	1	24.0	103.75	100.00 X	0	0	0	99.8X
7/08	1	24.0	138.07	100.00 X	0	0	0	99.8X
7/09	1	24.0	108.65	100.00 X	1	14	14	100.0X
TOTAL					612	8,542	8,559	

- (1) Sample parameters:
 SC = Sample quality code
 GW = Number of gatewells sampled
 ID = Number of accumulated days for sample
 Hrs = Number of hours sampled
- (2) River Flow:
 Data acquired from Corps data site - MCN
- (3) Index Flow:
 *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
- (4) Passage Index:
 Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCKNARY

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STEELHEAD

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RA-7U-3 SU STEELHEAD LOT ID # 85152-02

30,351 RELEASED AT: METHOW R
 AGENCY: WDG

FROM: 5/10/85 TO 5/10/85
 HATCHERY: WELLS-WIG

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GW--HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				
5/15	1	24.0	234.10	93.53 X	1	14	15	0.2%
5/16	1	24.0	225.04	81.94 X	0	0	0	0.2%
5/17	1	24.0	212.92	100.00 X	0	0	0	0.2%
5/18	1	24.0	217.94	100.00 X	3	43	43	0.6%
5/19	1	24.0	213.18	100.00 X	23	329	329	4.0%
5/20	1	24.0	208.28	100.00 X	21	300	300	7.2%
5/21	1	24.0	228.17	100.00 X	52	743	743	15.0%
5/22	1	24.0	228.01	100.00 X	49	700	700	22.3%
5/23	1	24.0	227.75	100.00 X	63	900	900	31.7%
5/24	1	24.0	225.09	100.00 X	45	643	643	38.4%
5/25	1	24.0	261.27	84.28 X	55	786	933	48.2%
5/26	1	24.0	243.13	91.20 X	92	1,082	1,186	60.6%
5/27	1	24.0	208.07	100.00 X	62	775	775	68.7%
5/28	1	24.0	222.11	100.00 X	45	643	643	75.4%
5/29	1	24.0	233.81	94.42 X	44	625	666	82.3%
5/30	1	24.0	257.16	86.20 X	21	263	305	85.5%
5/31	2	22.0	260.70	84.66 X	8 *	291 *	344 *	89.1%
5/31	10	0.0	220.78	99.45 X	36 *	36 *	36 *	89.5%
6/01	1	26.0	224.90	98.51 X	2	100	102	90.6%
6/02	1	24.0	223.18	100.00 X	5	67	67	91.3%
6/03	1	24.0	213.99	100.00 X	14	200	200	93.4%
6/04	1	24.0	236.00	100.00 X	9	129	129	94.7%
6/05	1	24.0	182.95	100.00 X	9	129	129	96.1%
6/06	1	24.0	196.81	100.00 X	3	43	43	96.5%
6/07	1	24.0	211.60	100.00 X	5	71	71	97.3%
6/08	1	24.0	193.64	100.00 X	2	29	29	97.6%
6/09	1	24.0	203.05	100.00 X	0	0	0	97.6%
6/10	1	24.0	210.63	100.00 X	0	0	0	97.6%
6/11	1	24.0	218.02	100.00 X	5	71	71	98.3%
6/12	1	24.0	195.52	100.00 X	1	14	14	98.4%
6/13	2	21.0	217.08	100.00 X	1 *	33 *	33 *	98.8%
6/13	10	0.0	180.89	100.00 X	2 *	2 *	2 *	98.8%
6/14	1	27.0	184.50	100.00 X	0	0	0	98.8%
6/15	1	24.0	176.92	100.00 X	0	0	0	98.8%
6/16	1	24.0	179.20	100.00 X	1	14	14	99.0%

***** CONTINUED *****

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MONARY

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STEELHEAD

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RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE SC-#D-GW-HR,S	SAMPLE (1)	(2)	(3)	NUMBER NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
		PARAMETERS	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE	

***** C O N T I N U E D *****

6/17	1	24.0	183.76	100.00 %	0	0	0	99.0%
6/18	1	24.0	170.52	100.00 %	2	29	29	99.3%
6/19	1	24.0	204.46	100.00 %	2	29	29	99.6%
6/20	1	24.0	201.23	100.00 %	0	0	0	99.6%
6/21	1	24.0	189.82	100.00 %	1	14	14	99.7%
6/22	1	24.0	184.08	100.00 %	0	0	0	99.7%
6/23	1	24.0	138.31	100.00 %	1	14	14	99.9%
6/24	1	24.0	157.00	100.00 %	0	0	0	99.9%
6/25	1	24.0	155.94	100.00 %	0	0	0	99.9%
6/26	1	24.0	154.78	100.00 %	0	0	0	99.9%
6/27	1	24.0	154.16	100.00 %	0	0	0	99.9%
6/28	1	24.0	152.23	100.00 %	0	0	0	99.9%
6/29	1	24.0	132.98	100.00 %	0	0	0	99.9%
6/30	1	24.0	131.17	100.00 %	0	0	0	99.9%
7/01	1	24.0	144.13	100.00 %	0	0	0	99.9%
7/02	1	24.0	139.01	100.00 %	0	0	0	99.9%
7/03	1	24.0	164.86	100.00 %	0	0	0	99.9%
7/04	1	24.0	147.66	100.00 %	0	0	0	99.9%
7/05	1	24.0	120.52	100.00 %	0	0	0	99.9%
7/06	1	24.0	118.49	100.00 %	0	0	0	99.9%
7/07	1	24.0	103.75	100.00 %	0	0	0	99.9%
7/08	1	24.0	138.07	100.00 %	0	0	0	99.9%
7/09	1	24.0	108.65	100.00 %	0	0	0	99.9%
7/10	1	24.0	116.53	100.00 %	0	0	0	99.9%
7/11	1	24.0	109.58	100.00 %	0	0	0	99.9%
7/12	1	24.0	105.28	100.00 %	0	0	0	99.9%
7/13	1	24.0	105.79	100.00 %	0	0	0	99.9%
7/14	1	24.0	100.93	100.00 %	0	0	0	99.9%
7/15	1	24.0	84.63	100.00 %	0	0	0	99.9%
7/16	1	24.0	85.46	100.00 %	0	0	0	99.9%
7/17	1	24.0	105.94	100.00 %	0	0	0	99.9%
7/18	1	24.0	121.82	100.00 %	0	0	0	99.9%
7/19	1	24.0	117.51	100.00 %	0	0	0	99.9%
7/20	1	24.0	104.98	100.00 %	0	0	0	99.9%

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MCNARY

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STEELHEAD

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RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER NUMBER SAMPLLED	NUMBER COLLECTED	(4)	
		RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE				
7/21	1	24.0	101.26	100.00 X	0	0	0	99.9%
7/22	1	24.0	87.47	100.00 X	0	0	0	99.9%
7/23	1	24.0	90.48	100.00 X	0	0	0	99.9%
7/24	1	24.0	94.51	100.00 X	0	0	0	99.9%
7/25	1	24.0	108.61	100.00 X	0	0	0	99.9%
7/26	1	24.0	92.51	100.00 X	0	0	0	99.9%
7/27	1	24.0	83.51	100.00 X	0	0	0	99.9%
7/28	1	24.0	67.53	100.00 X	0	0	0	99.9%
7/29	1	24.0	91.69	100.00 X	1	14	14	100.0%
TOTAL					686	9.179	9.565	

- (1) Sample parameters: SC = Sample quality code ID = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * STEELHEAD * * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLLED			DAILY COUNT	CUMULATIVE
5/23	1	24.0	227.75	100.00 %	2	29	29	6.2%
5/24	1	24.0	225.09	100.00 %	1	14	14	9.2%
5/25	1	24.0	261.27	84.28 %	0	0	0	9.2%
5/26	1	24.0	243.13	91.20 %	0	0	0	9.2%
5/27	1	24.0	208.07	100.00 %	3	38	38	17.4%
5/28	1	24.0	222.11	100.00 %	2	29	29	23.7%
5/29	1	24.0	233.81	94.42 %	5	71	75	39.8%
5/30	1	24.0	257.16	86.20 %	2	25	29	46.0%
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	46.0%
5/31	10	0.0	220.78	99.45 %	3 *	3 *	3 *	46.7%
6/01	1	26.0	224.90	98.51 %	0	0	0	46.7%
6/02	1	24.0	223.18	100.00 %	1	13	13	49.5%
6/03	1	24.0	213.99	100.00 %	2	29	29	55.7%
6/04	1	24.0	236.00	100.00 %	0	0	0	55.7%
6/05	1	24.0	182.95	100.00 %	3	43	43	64.9%
6/06	1	24.0	196.81	100.00 %	1	14	14	68.0%
6/07	1	24.0	211.60	100.00 %	2	29	29	74.2%
6/08	1	24.0	193.64	100.00 %	4	57	57	86.5%
6/09	1	24.0	203.05	100.00 %	0	0	0	86.5%
6/10	1	24.0	210.63	100.00 %	0	0	0	86.5%
6/11	1	24.0	218.02	100.00 %	0	0	0	86.5%
6/12	1	24.0	195.52	100.00 %	0	0	0	86.5%
6/13	2	21.0	217.08	100.00 %	0 *	0 *	0 *	86.5%
6/13	10	0.0	180.89	100.00 %	2 *	2 *	2 *	86.9%
6/14	1	27.0	184.50	100.00 %	1	33	33	94.0%
6/15	1	24.0	176.92	100.00 %	0	0	0	94.0%
6/16	1	24.0	179.20	100.00 %	0	0	0	94.0%
6/17	1	24.0	183.76	100.00 %	0	0	0	94.0%
6/18	1	24.0	170.52	100.00 %	0	0	0	94.0%
6/19	1	24.0	204.46	100.00 %	0	0	0	94.0%
6/20	1	24.0	201.23	100.00 %	0	0	0	94.0%
6/21	1	24.0	189.82	100.00 %	1	14	14	97.0%
6/22	1	24.0	184.08	100.00 %	0	0	0	97.0%

***** CONTINUED *****

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MCNARY

* * *

STEELHEAD

* * *

RA-17-1 SU STEELHEAD LOT ID # 85156-01 41,028 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
6/23	1	24.0	138.31	100.00 X	0	0	97.0%
6/24	1	24.0	157.00	100.00 X	0	0	97.0%
6/25	1	24.0	155.94	100.00 X	0	0	97.0%
6/26	1	24.0	154.78	100.00 X	0	0	97.0%
6/27	1	24.0	154.16	100.00 X	0	0	97.0%
6/28	1	24.0	152.23	100.00 X	1	14	100.0%
TOTAL					36	457	465

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * STEELHEAD * * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/24	1	24.0	225.09	100.00 X	1	14	2.1%
5/25	1	24.0	261.27	94.28 X	0	0	2.1%
5/26	1	24.0	243.13	91.20 X	0	0	2.1%
5/27	1	24.0	208.07	100.00 X	1	13	4.0%
5/28	1	24.0	222.11	100.00 X	2	29	8.3%
5/29	1	24.0	233.81	94.42 X	2	29	13.0%
5/30	1	24.0	257.16	86.20 X	8	100	30.3%
5/31	2	22.0	260.70	84.66 X	3 *	109 *	49.5%
5/31	10	0.0	220.78	99.45 X	2 *	2 *	49.8%
6/01	1	26.0	224.90	98.51 X	0	0	49.8%
6/02	1	24.0	223.18	100.00 X	1	13	51.7%
6/03	1	24.0	213.99	100.00 X	5	71	62.3%
6/04	1	24.0	236.00	100.00 X	2	29	66.6%
6/05	1	24.0	182.95	100.00 X	3	43	73.0%
6/06	1	24.0	196.81	100.00 X	3	43	79.4%
6/07	1	24.0	211.60	100.00 X	0	0	79.4%
6/08	1	24.0	193.64	100.00 X	0	0	79.4%
6/09	1	24.0	203.05	100.00 X	0	0	79.4%
6/10	1	24.0	210.63	100.00 X	1	14	81.5%
6/11	1	24.0	218.02	100.00 X	2	29	85.8%
6/12	1	24.0	195.52	100.00 X	1	14	87.9%
6/13	2	21.0	217.08	100.00 X	2 *	67 *	97.9%
6/13	10	0.0	180.89	100.00 X	0 *	0 *	97.9%
6/14	1	27.0	184.50	100.00 X	0	0	97.9%
6/15	1	24.0	176.92	100.00 X	0	0	97.9%
6/16	1	24.0	179.20	100.00 X	0	0	97.9%
6/17	1	24.0	183.76	100.00 X	0	0	97.9%
6/18	1	24.0	170.52	100.00 X	0	0	97.9%
6/19	1	24.0	204.46	100.00 X	0	0	97.9%
6/20	1	24.0	201.23	100.00 X	1	14	100.0%

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MCNARY

* * *

STEELHEAD

* * *

RA-17-3 SU STEELHEAD LOT ID # 85156-02 40,201 RELEASED AT: GRANDE RONDE R FROM: 5/03/85 TO 5/13/85
 AGENCY: WDG HATCHERY: LYONS FERRY

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

TOTAL	40	633	671
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK O'S * * *

LD-R -4 FA CHINOOK LOT ID # B5035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE SC	PARAMETERS #D-GW-HR,S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX	INDEX CUMULATIVE
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			...	
6/13	2	21.0	217.08	100.00 %	1 *	33 *	33 *	33 *	4.7%
6/13	10	0.0	180.89	100.00 %	1 *	1 *	1 *	1 *	4.9%
6/14	1	27.0	184.50	100.00 %	0	0	0	0	4.9%
6/15	1	24.0	176.92	100.00 %	0	0	0	0	4.9%
6/16	1	24.0	179.20	100.00 %	0	0	0	0	4.9%
6/17	1	24.0	183.76	100.00 %	1	14	14	14	6.9%
6/18	1	24.0	170.52	100.00 %	0	0	0	0	6.9%
6/19	1	24.0	204.46	100.00 %	0	0	0	0	6.9%
6/20	1	24.0	201.23	100.00 %	0	0	0	0	6.9%
6/21	1	24.0	189.82	100.00 %	1	14	14	14	8.9%
6/22	1	24.0	184.08	100.00 %	2	29	29	29	13.1%
6/23	1	24.0	138.31	100.00 %	1	14	14	14	15.1%
6/24	1	24.0	157.00	100.00 %	0	0	0	0	15.1%
6/25	1	24.0	155.94	100.00 %	0	0	0	0	15.1%
6/26	1	24.0	154.78	100.00 %	0	0	0	0	15.1%
6/27	1	24.0	154.16	100.00 %	3	43	43	43	21.3%
6/28	1	24.0	152.23	100.00 %	3	43	43	43	27.5%
6/29	1	24.0	132.98	100.00 %	0	0	0	0	27.5%
6/30	1	24.0	131.17	100.00 %	0	0	0	0	27.5%
7/01	1	24.0	144.13	100.00 %	3	43	43	43	33.7%
7/02	1	24.0	139.01	100.00 %	0	0	0	0	33.7%
7/03	1	24.0	164.86	100.00 %	0	0	0	0	33.7%
7/04	1	24.0	147.66	100.00 %	0	0	0	0	33.7%
7/05	1	24.0	120.52	100.00 %	1	14	14	14	33.7%
7/06	1	24.0	118.49	100.00 %	1	14	14	14	37.7%
7/07	1	24.0	103.75	100.00 %	1	14	14	14	39.7%
7/08	1	24.0	138.07	100.00 %	3	43	43	43	45.9%
7/09	1	24.0	108.65	100.00 %	4	57	57	57	54.1%
7/10	1	24.0	116.53	100.00 %	4	57	57	57	62.3%
7/11	1	24.0	109.58	100.00 %	1	14	14	14	64.3%
7/12	1	24.0	105.28	100.00 %	1	14	14	14	66.3%
7/13	1	24.0	105.79	100.00 %	1	21	21	21	69.4%
7/14	1	24.0	100.93	100.00 %	0	0	0	0	69.4%

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 FISH PASSAGE DATA SYSTEM
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MCNARY

* * * CHINOOK O'S * * *

LD-R -4 FA CHINOOK LOT ID # 85035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC-ID-GW-HB:S	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
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***** C O N T I N U E D *****

7/15	1	24.0	84.63	100.00 %	0	0	0	69.4%
7/16	1	24.0	85.46	100.00 %	1	12	12	71.1%
7/17	1	24.0	105.94	100.00 %	1	14	14	73.1%
7/18	1	24.0	121.82	100.00 %	2	34	34	78.0%
7/19	1	24.0	117.51	100.00 %	1	17	17	80.4%
7/20	1	24.0	104.98	100.00 %	0	0	0	80.4%
7/21	1	24.0	101.26	100.00 %	1	14	14	82.4%
7/22	1	24.0	87.47	100.00 %	0	0	0	82.4%
7/23	1	24.0	90.48	100.00 %	0	0	0	82.4%
7/24	1	24.0	94.51	100.00 %	1	14	14	84.5%
7/25	1	24.0	108.61	100.00 %	2	29	29	88.6%
7/26	1	24.0	92.51	100.00 %	1	14	14	90.6%
7/27	1	24.0	83.51	100.00 %	3	43	43	96.8%
7/28	1	24.0	67.53	100.00 %	0	0	0	96.8%
7/29	1	24.0	91.69	100.00 %	0	0	0	96.8%
7/30	1	24.0	87.67	100.00 %	0	0	0	96.8%
7/31	1	24.0	86.02	100.00 %	0	0	0	96.8%
8/01	2	21.0	84.83	100.00 %	0 *	0 *	0 *	96.8%
8/01	10	0.0	86.13	100.00 %	8 *	8 *	8 *	98.0%
8/02	1	27.0	88.77	100.00 %	0	0	0	98.0%
8/03	1	24.0	90.79	100.00 %	0	0	0	98.0%
8/04	1	24.0	79.26	100.00 %	0	0	0	98.0%
8/05	1	24.0	86.04	100.00 %	0	0	0	98.0%
8/06	1	24.0	77.25	100.00 %	0	0	0	98.0%
8/07	1	24.0	116.09	100.00 %	0	0	0	98.0%
8/08	1	24.0	90.45	100.00 %	1	14	14	100.0%

***** C O N T I N U E D *****

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NATIONAL MARINE FISHERIES SERVICE
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MONARY

* * * CHINOOK O'S * * *

LD-R -4 FA CHINOOK LOT ID # 85035-01 33,700 RELEASED AT: GRANDE RONDE R FROM: 6/04/85 TO 6/04/85
 AGENCY: USFWS HATCHERY: HAGERMAN NFH

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC=40 GW HR.S	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

TOTAL	55	695	695
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- (1) Sample parameters: SC = Sample quality code 40 = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK O'S * * *

LA-T-3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE SC	PARAMETERS #D-GH-HR:S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
6/12	1	24.0	195.52	100.00 X	3	43	43	0.9%
6/13	2	21.0	217.08	100.00 X	2 *	67 *	67 *	2.3%
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	2.3%
6/14	1	27.0	184.50	100.00 X	1	33	33	3.1%
6/15	1	24.0	176.92	100.00 X	0	0	0	3.1%
6/16	1	24.0	179.20	100.00 X	2	29	29	3.7%
6/17	1	24.0	183.76	100.00 X	2	29	29	4.3%
6/18	1	24.0	170.52	100.00 X	2	29	29	4.9%
6/19	1	24.0	204.46	100.00 X	0	0	0	4.9%
6/20	1	24.0	201.23	100.00 X	2	29	29	5.5%
6/21	1	24.0	189.82	100.00 X	4	57	57	6.7%
6/22	1	24.0	184.08	100.00 X	10	143	143	9.8%
6/23	1	24.0	138.31	100.00 X	4	57	57	11.0%
6/24	1	24.0	157.00	100.00 X	17	243	243	16.2%
6/25	1	24.0	155.94	100.00 X	13	186	186	20.2%
6/26	1	24.0	154.78	100.00 X	8	114	114	22.6%
6/27	1	24.0	154.16	100.00 X	17	243	243	27.8%
6/28	1	24.0	152.23	100.00 X	14	200	200	32.0%
6/29	1	24.0	132.98	100.00 X	11	157	157	35.4%
6/30	1	24.0	131.17	100.00 X	4	57	57	36.6%
7/01	1	24.0	144.13	100.00 X	10	143	143	39.7%
7/02	1	24.0	139.01	100.00 X	10	143	143	42.7%
7/03	1	24.0	164.86	100.00 X	36	514	514	53.7%
7/04	1	24.0	147.66	100.00 X	20	286	286	59.8%
7/05	1	24.0	120.52	100.00 X	10	143	143	62.8%
7/06	1	24.0	118.49	100.00 X	6	86	86	64.7%
7/07	1	24.0	103.75	100.00 X	5	71	71	66.2%
7/08	1	24.0	138.07	100.00 X	8	114	114	68.6%
7/09	1	24.0	108.65	100.00 X	11	157	157	72.0%
7/10	1	24.0	116.53	100.00 X	6	86	86	73.8%
7/11	1	24.0	109.58	100.00 X	6	86	86	75.6%
7/12	1	24.0	105.28	100.00 X	8	114	114	78.1%
7/13	1	24.0	105.79	100.00 X	9	186	186	82.0%
7/14	1	24.0	100.93	100.00 X	3	63	63	83.4%
7/15	1	24.0	84.63	100.00 X	1	18	18	83.8%

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* * * CHINOOK O'S * * *

LA-T -3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
SC-SD-GW-HR,6						

***** C O N T I N U E D *****

7/16	1	24.0	85.46	100.00 %	3	37	37	94.6%
7/17	1	24.0	105.94	100.00 %	1	14	14	94.9%
7/18	1	24.0	121.82	100.00 %	5	85	85	96.7%
7/19	1	24.0	117.51	100.00 %	1	17	17	97.0%
7/20	1	24.0	104.98	100.00 %	3	45	45	98.0%
7/21	1	24.0	101.26	100.00 %	0	0	0	98.0%
7/22	1	24.0	87.47	100.00 %	1	14	14	98.3%
7/23	1	24.0	90.48	100.00 %	4	57	57	98.5%
7/24	1	24.0	94.51	100.00 %	10	143	143	92.6%
7/25	1	24.0	108.61	100.00 %	5	71	71	94.1%
7/26	1	24.0	92.51	100.00 %	4	57	57	95.3%
7/27	1	24.0	83.51	100.00 %	1	14	14	95.6%
7/28	1	24.0	67.53	100.00 %	0	0	0	95.6%
7/29	1	24.0	91.69	100.00 %	0	0	0	95.6%
7/30	1	24.0	87.67	100.00 %	0	0	0	95.6%
7/31	1	24.0	86.02	100.00 %	0	0	0	95.6%
8/01	2	21.0	84.83	100.00 %	0 *	0 *	0 *	95.6%
8/01	10	0.0	86.13	100.00 %	9 *	9 *	9 *	95.8%
8/02	1	27.0	88.77	100.00 %	0	0	0	95.8%
8/03	1	24.0	90.79	100.00 %	0	0	0	95.8%
8/04	1	24.0	79.26	100.00 %	0	0	0	95.8%
8/05	1	24.0	86.04	100.00 %	0	0	0	95.8%
8/06	1	24.0	77.25	100.00 %	0	0	0	95.8%
8/07	1	24.0	116.09	100.00 %	2	29	29	96.4%
8/08	1	24.0	90.45	100.00 %	4	57	57	97.6%
8/09	1	24.0	99.22	100.00 %	0	0	0	97.6%
8/10	1	24.0	96.76	100.00 %	1	14	14	97.9%
8/11	1	24.0	80.94	100.00 %	0	0	0	97.9%
8/12	1	24.0	71.08	100.00 %	1	14	14	98.2%
8/13	1	24.0	95.40	100.00 %	1	14	14	98.5%
8/14	1	24.0	102.17	100.00 %	0	0	0	98.5%
8/15	1	24.0	113.53	100.00 %	0	0	0	98.5%
8/16	1	24.0	111.22	100.00 %	0	0	0	98.5%

***** C O N T I N U E D *****

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MCMARY

*** CHINOOK 0'S ***

LA-T-3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX	(4)
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			INDEX	CUMULATIVE
SC-GW-HR.S								

***** C O N T I N U E D *****

8/17	1	24.0	93.07	100.00 %	0	0	0	98.5%
8/18	1	24.0	89.30	100.00 %	0	0	0	98.5%
8/19	1	24.0	85.41	100.00 %	0	0	0	98.5%
8/20	1	24.0	97.50	100.00 %	0	0	0	98.5%
8/21	1	24.0	89.27	100.00 %	1	14	14	98.8%
8/22	1	24.0	84.62	100.00 %	0	0	0	98.8%
8/23	1	24.0	91.79	100.00 %	0	0	0	98.8%
8/24	1	24.0	80.45	100.00 %	0	0	0	98.8%
8/25	1	24.0	73.42	100.00 %	1	14	14	99.1%
8/26	1	24.0	85.48	100.00 %	0	0	0	99.1%
8/27	1	24.0	95.48	100.00 %	0	0	0	99.1%
8/28	1	24.0	113.00	100.00 %	1	14	14	99.4%
8/29	1	24.0	94.01	100.00 %	0	0	0	99.4%
8/30	1	24.0	73.53	100.00 %	0	0	0	99.4%
8/31	1	24.0	88.98	100.00 %	0	0	0	99.4%
9/01	1	24.0	72.47	100.00 %	0	0	0	99.4%
9/02	1	24.0	85.55	100.00 %	0	0	0	99.4%
9/03	1	24.0	95.84	100.00 %	1	14	14	99.7%
9/04	1	24.0	77.75	100.00 %	0	0	0	99.7%
9/05	1	24.0	105.89	100.00 %	0	0	0	99.7%
9/06	1	24.0	99.96	100.00 %	0	0	0	99.7%
9/07	1	24.0	87.06	100.00 %	0	0	0	99.7%
9/08	1	24.0	80.68	100.00 %	0	0	0	99.7%
9/09	1	24.0	82.24	100.00 %	0	0	0	99.7%
9/10	1	24.0	89.57	100.00 %	0	0	0	99.7%
9/11	1	24.0	99.12	100.00 %	0	0	0	99.7%
9/12	1	24.0	94.56	100.00 %	1	14	14	100.0%

***** C O N T I N U E D *****

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MCNARY

* * * CHINOOK 0'S * * *

LA-T -3 SU CHINOOK LOT ID # 85111-01 101,328 RELEASED AT: WELLS-WDF FROM: 5/29/85 TO 5/31/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
		RIVER	INDEX	FLOW			... PASSAGE INDEX ...	DAILY COUNT
1985	SC = #D GW HR.S	RIVER FLOW	INDEX FLOW					

***** CONTINUED *****

<u>TOTAL</u>	326	4,687	4,687
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK 0'S * * *

RA-T -1 FA CHINOOK LOT ID # 85109-01 78,312 RELEASED AT: PRIEST RAPIDS H FROM: 6/12/85 TO 6/12/85
 AGENCY: WDF HATCHERY: PRIEST RAPIDS H

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	SC--ID--GW--HR.S					... PASSAGE INDEX ...	DAILY COUNT
6/22	1	24.0	184.08	100.00 X	12	171	171	0.8X
6/23	1	24.0	138.31	100.00 X	14	200	200	1.8X
6/24	1	24.0	157.00	100.00 X	7	100	100	2.3X
6/25	1	24.0	155.94	100.00 X	61	871	871	6.6X
6/26	1	24.0	154.78	100.00 X	100	1,429	1,429	13.6X
6/27	1	24.0	154.16	100.00 X	109	1,557	1,557	21.2X
6/28	1	24.0	152.23	100.00 X	67	957	957	25.9X
6/29	1	24.0	132.98	100.00 X	80	1,143	1,143	31.5X
6/30	1	24.0	131.17	100.00 X	111	1,586	1,586	39.3X
7/01	1	24.0	144.13	100.00 X	195	2,786	2,786	52.9X
7/02	1	24.0	139.01	100.00 X	68	971	971	57.7X
7/03	1	24.0	164.86	100.00 X	131	1,871	1,871	66.8X
7/04	1	24.0	147.66	100.00 X	68	971	971	71.6X
7/05	1	24.0	120.52	100.00 X	26	371	371	73.4X
7/06	1	24.0	118.49	100.00 X	8	114	114	74.0X
7/07	1	24.0	103.75	100.00 X	7	100	100	74.5X
7/08	1	24.0	138.07	100.00 X	57	814	814	78.5X
7/09	1	24.0	108.65	100.00 X	29	414	414	80.5X
7/10	1	24.0	116.53	100.00 X	43	614	614	83.5X
7/11	1	24.0	109.58	100.00 X	32	457	457	85.7X
7/12	1	24.0	105.28	100.00 X	32	457	457	88.0X
7/13	1	24.0	105.79	100.00 X	41	849	849	92.1X
7/14	1	24.0	100.93	100.00 X	27	568	568	94.9X
7/15	1	24.0	84.63	100.00 X	3	53	53	95.2X
7/16	1	24.0	85.46	100.00 X	10	124	124	95.8X
7/17	1	24.0	105.94	100.00 X	13	186	186	96.7X
7/18	1	24.0	121.82	100.00 X	23	391	391	98.6X
7/19	1	24.0	117.51	100.00 X	3	50	50	98.8X
7/20	1	24.0	104.98	100.00 X	4	60	60	99.1X
7/21	1	24.0	101.26	100.00 X	0	0	0	99.1X
7/22	1	24.0	87.47	100.00 X	0	0	0	99.1X
7/23	1	24.0	90.48	100.00 X	3	43	43	99.4X
7/24	1	24.0	94.51	100.00 X	5	71	71	99.7X
7/25	1	24.0	108.61	100.00 X	2	29	29	99.8X

***** CONTINUED *****

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MCNARY

* * * CHINOOK O'S * * *

RA-T-1 FA CHINOOK LOT ID # 85109-01 78,312 RELEASED AT: PRIEST RAPIDS H FROM: 6/12/85 TO 6/12/85
 AGENCY: WDF HATCHERY: PRIEST RAPIDS H

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	.. PARAMETERS ..	RIVER SC-ID-GW-HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

7/26	1	24.0	92.51	100.00 X	1	14	14	99.9%
7/27	1	24.0	83.51	100.00 X	0	0	0	99.9%
7/28	1	24.0	67.53	100.00 X	0	0	0	99.9%
7/29	1	24.0	91.69	100.00 X	0	0	0	99.9%
7/30	1	24.0	87.67	100.00 X	0	0	0	99.9%
7/31	1	24.0	86.02	100.00 X	0	0	0	99.9%
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	99.9%
8/01	10	0.0	86.13	100.00 X	4 *	4 *	4 *	99.9%
8/02	1	27.0	88.77	100.00 X	0	0	0	99.9%
8/03	1	24.0	90.79	100.00 X	0	0	0	99.9%
8/04	1	24.0	79.26	100.00 X	0	0	0	99.9%
8/05	1	24.0	86.04	100.00 X	0	0	0	99.9%
8/06	1	24.0	77.25	100.00 X	0	0	0	99.9%
8/07	1	24.0	116.09	100.00 X	0	0	0	99.9%
8/08	1	24.0	90.45	100.00 X	0	0	0	99.9%
8/09	1	24.0	99.22	100.00 X	0	0	0	99.9%
8/10	1	24.0	96.76	100.00 X	0	0	0	99.9%
8/11	1	24.0	80.94	100.00 X	0	0	0	99.9%
8/12	1	24.0	71.08	100.00 X	0	0	0	99.9%
8/13	1	24.0	95.40	100.00 X	0	0	0	99.9%
8/14	1	24.0	102.17	100.00 X	0	0	0	99.9%
8/15	1	24.0	113.53	100.00 X	0	0	0	99.9%
8/16	1	24.0	111.22	100.00 X	0	0	0	99.9%
8/17	1	24.0	93.07	100.00 X	0	0	0	99.9%
8/18	1	24.0	89.30	100.00 X	1	14	14	100.0%
TOTAL					1,397	20,410	20,410	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCNARY

* * * CHINOOK O'S * * *

RA-T -3 SU CHINOOK LOT ID # 85118-01 22,515 RELEASED AT: WELLS-WDF FROM: 5/10/85 TO 5/18/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE SC	PARAMETERS ID-GW-HS-S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
			RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				... PASSAGE INDEX ...
6/16	1	24.0	179.20	100.00 X	1	14	14	1.6%	
6/17	1	24.0	183.76	100.00 X	1	14	14	3.2%	
6/18	1	24.0	170.52	100.00 X	0	0	0	3.2%	
6/19	1	24.0	204.46	100.00 X	0	0	0	3.2%	
6/20	1	24.0	201.23	100.00 X	0	0	0	3.2%	
6/21	1	24.0	189.82	100.00 X	0	0	0	3.2%	
6/22	1	24.0	184.08	100.00 X	1	14	14	4.8%	
6/23	1	24.0	138.31	100.00 X	1	14	14	6.4%	
6/24	1	24.0	157.00	100.00 X	5	71	71	14.6%	
6/25	1	24.0	155.94	100.00 X	2	29	29	17.9%	
6/26	1	24.0	154.78	100.00 X	3	43	43	22.8%	
6/27	1	24.0	154.16	100.00 X	3	43	43	27.8%	
6/28	1	24.0	152.23	100.00 X	1	14	14	29.4%	
6/29	1	24.0	132.98	100.00 X	4	57	57	35.9%	
6/30	1	24.0	131.17	100.00 X	3	43	43	40.9%	
7/01	1	24.0	144.13	100.00 X	3	43	43	45.8%	
7/02	1	24.0	139.01	100.00 X	1	14	14	47.4%	
7/03	1	24.0	164.86	100.00 X	2	29	29	50.7%	
7/04	1	24.0	147.66	100.00 X	2	29	29	54.1%	
7/05	1	24.0	120.52	100.00 X	0	0	0	54.1%	
7/06	1	24.0	118.49	100.00 X	1	14	14	55.7%	
7/07	1	24.0	103.75	100.00 X	0	0	0	55.7%	
7/08	1	24.0	138.07	100.00 X	4	57	57	62.2%	
7/09	1	24.0	108.65	100.00 X	3	43	43	67.2%	
7/10	1	24.0	116.53	100.00 X	0	0	0	67.2%	
7/11	1	24.0	109.58	100.00 X	0	0	0	67.2%	
7/12	1	24.0	105.28	100.00 X	2	29	29	70.5%	
7/13	1	24.0	105.79	100.00 X	1	21	21	72.9%	
7/14	1	24.0	100.93	100.00 X	0	0	0	72.9%	
7/15	1	24.0	84.63	100.00 X	0	0	0	72.9%	
7/16	1	24.0	85.46	100.00 X	1	12	12	74.3%	
7/17	1	24.0	105.94	100.00 X	4	57	57	80.8%	
7/18	1	24.0	121.82	100.00 X	1	17	17	82.8%	
7/19	1	24.0	117.51	100.00 X	1	17	17	84.7%	

***** CONTINUED *****

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MCDARY

* * * CHINOOK O'S * * *

RA-T-3 SU CHINOOK LOT ID # 85118-01 22,515 RELEASED AT: WELLS-WDF FROM: 5/10/85 TO 5/18/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	SD	RIVER FLOW	INDEX FLOW		NUMBER SAMPLED	DAILY COUNT		CUMULATIVE

***** C O N T I N U E D *****

7/20	1	24.0	104.98	100.00 X	4	60	60	91.6%
7/21	1	24.0	101.26	100.00 X	0	0	0	91.6%
7/22	1	24.0	87.47	100.00 X	0	0	0	91.6%
7/23	1	24.0	90.48	100.00 X	0	0	0	91.6%
7/24	1	24.0	94.51	100.00 X	1	14	14	93.2%
7/25	1	24.0	108.61	100.00 X	2	29	29	96.6%
7/26	1	24.0	92.51	100.00 X	0	0	0	96.6%
7/27	1	24.0	83.51	100.00 X	1	14	14	98.2%
7/28	1	24.0	67.53	100.00 X	0	0	0	98.2%
7/29	1	24.0	91.69	100.00 X	0	0	0	98.2%
7/30	1	24.0	87.67	100.00 X	0	0	0	98.2%
7/31	1	24.0	86.02	100.00 X	0	0	0	98.2%
8/01	2	21.0	84.83	100.00 X	0 *	0 *	0 *	98.2%
8/01	10	0.0	86.13	100.00 X	2 *	2 *	2 *	98.4%
8/02	1	27.0	88.77	100.00 X	0	0	0	98.4%
8/03	1	24.0	90.79	100.00 X	0	0	0	98.4%
8/04	1	24.0	79.26	100.00 X	0	0	0	98.4%
8/05	1	24.0	86.04	100.00 X	0	0	0	98.4%
8/06	1	24.0	77.25	100.00 X	0	0	0	98.4%
8/07	1	24.0	116.09	100.00 X	0	0	0	98.4%
8/08	1	24.0	90.45	100.00 X	0	0	0	98.4%
8/09	1	24.0	99.22	100.00 X	0	0	0	98.4%
8/10	1	24.0	96.76	100.00 X	0	0	0	98.4%
8/11	1	24.0	80.94	100.00 X	0	0	0	98.4%
8/12	1	24.0	71.08	100.00 X	0	0	0	98.4%
8/13	1	24.0	95.40	100.00 X	0	0	0	98.4%
8/14	1	24.0	102.17	100.00 X	0	0	0	98.4%
8/15	1	24.0	113.53	100.00 X	0	0	0	98.4%
8/16	1	24.0	111.22	100.00 X	0	0	0	98.4%
8/17	1	24.0	93.07	100.00 X	0	0	0	98.4%
8/18	1	24.0	89.30	100.00 X	0	0	0	98.4%
8/19	1	24.0	85.41	100.00 X	0	0	0	98.4%
8/20	1	24.0	97.50	100.00 X	0	0	0	98.4%
8/21	1	24.0	89.27	100.00 X	0	0	0	98.4%
8/22	1	24.0	84.62	100.00 X	0	0	0	98.4%

***** C O N T I N U E D *****

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MONARY **** CHINOOK O'S ****

RA-T -3 SU CHINOOK LOT ID # 85118-01 22,515 RELEASED AT: WELLS-WDF FROM: 5/10/85 TO 5/18/85
 AGENCY: WDF HATCHERY: WELLS-WDF

DATE 1985	SAMPLE .. PARAMETERS ..	(1) RIVER SC-#D-GW-HS.S	(2) FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT	CUMULATIVE
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***** C O N T I N U E D *****

8/23	1	24.0	91.79	100.00 X	0	0	0	98.4X
8/24	1	24.0	80.45	100.00 X	0	0	0	98.4X
8/25	1	24.0	73.42	100.00 X	0	0	0	98.4X
8/26	1	24.0	85.48	100.00 X	0	0	0	98.4X
8/27	1	24.0	95.48	100.00 X	0	0	0	98.4X
8/28	1	24.0	113.00	100.00 X	0	0	0	98.4X
8/29	1	24.0	94.01	100.00 X	0	0	0	98.4X
8/30	1	24.0	73.53	100.00 X	0	0	0	98.4X
8/31	1	24.0	88.98	100.00 X	0	0	0	98.4X
9/01	1	24.0	72.47	100.00 X	0	0	0	98.4X
9/02	1	24.0	85.55	100.00 X	0	0	0	98.4X
9/03	1	24.0	95.84	100.00 X	0	0	0	98.4X
9/04	1	24.0	77.75	100.00 X	0	0	0	98.4X
9/05	1	24.0	105.89	100.00 X	0	0	0	98.4X
9/06	1	24.0	99.96	100.00 X	0	0	0	98.4X
9/07	1	24.0	87.06	100.00 X	0	0	0	98.4X
9/08	1	24.0	80.68	100.00 X	0	0	0	98.4X
9/09	1	24.0	82.24	100.00 X	0	0	0	98.4X
9/10	1	24.0	89.57	100.00 X	0	0	0	98.4X
9/11	1	24.0	99.12	100.00 X	0	0	0	98.4X
9/12	1	24.0	94.56	100.00 X	1	14	14	100.0X
<hr/>					TOTAL	62	871	871

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (#) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MCDARY

* * * SOCKEYE * * *

LA-IL-1 SOCKEYE LOT ID # 85303-01 9,614 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/28/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	(2)					... PASSAGE INDEX ...	
	SC	SD	GW	HR.S			DAILY COUNT	CUMULATIVE
4/24	1		24.0	197.70	100.00 %	1	33	1.0%
4/25	1		24.0	226.20	100.00 %	1	33	2.0%
4/26	1		24.0	208.06	100.00 %	4	133	6.0%
4/27	1		24.0	186.73	100.00 %	2	31	6.9%
4/28	1		24.0	182.12	100.00 %	10	143	11.2%
4/29	1		24.0	208.57	100.00 %	12	171	16.3%
4/30	1		24.0	206.63	100.00 %	26	371	27.4%
5/01	1		24.0	214.77	100.00 %	17	243	34.7%
5/02	1		24.0	183.10	100.00 %	22	314	44.1%
5/03	1		24.0	213.20	100.00 %	6	86	46.6%
5/04	1		24.0	214.28	100.00 %	12	171	51.8%
5/05	1		24.0	218.32	100.00 %	8	114	55.2%
5/06	1		24.0	243.11	90.11 %	23	329	66.1%
5/07	1		24.0	271.65	79.76 %	15	176	72.7%
5/08	1		24.0	234.50	93.53 %	9	95	75.8%
5/09	1		24.0	233.77	85.71 %	4	57	77.8%
5/10	1		24.0	249.76	80.54 %	7	74	80.5%
5/11	1		24.0	257.35	79.20 %	5	59	82.8%
5/12	1		24.0	249.25	84.34 %	4	42	84.3%
5/13	1		24.0	238.86	93.39 %	6	88	87.1%
5/14	1		24.0	220.75	100.00 %	3	43	88.4%
5/15	1		24.0	234.10	93.53 %	5	71	90.6%
5/16	1		24.0	225.04	81.94 %	4	47	92.3%
5/17	1		24.0	212.92	100.00 %	2	29	93.2%
5/18	1		24.0	217.94	100.00 %	1	14	93.6%
5/19	1		24.0	213.18	100.00 %	1	14	94.0%
5/20	1		24.0	208.28	100.00 %	0	0	94.0%
5/21	1		24.0	228.17	100.00 %	2	29	94.9%
5/22	1		24.0	228.01	100.00 %	0	0	94.9%
5/23	1		24.0	227.75	100.00 %	7	100	97.9%
5/24	1		24.0	225.09	100.00 %	1	14	98.3%
5/25	1		24.0	261.27	84.28 %	1	14	98.8%
5/26	1		24.0	243.13	91.20 %	2	26	99.6%
5/27	1		24.0	208.07	100.00 %	1	13	100.0%

***** CONTINUED *****

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SOCKEYE

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LA-IL-1 SOCKEYE LOT ID # 85303-01 9,614 RELEASED AT: BELOW PRST RAPI FROM: 4/20/85 TO 4/28/85
 AGENCY: NMFS HATCHERY: FROM RIVER

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC #D GW HRS	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

***** CONTINUED *****

TOTAL	224	3,175	3,340
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gateways sampled, Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

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SOCKEYE

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LA-IL-3 SOCKEYE LOT ID #: 85303-04 6,451 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC	.. PARAMETERS .. SD GW HR S	RIVER FLOW	INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
							DAILY COUNT	CUMULATIVE	
5/17	1	24.0	212.92	100.00 X	1	14	14	0.5X	
5/18	1	24.0	217.94	100.00 X	1	14	14	1.1X	
5/19	1	24.0	213.18	100.00 X	7	100	100	4.9X	
5/20	1	24.0	208.28	100.00 X	3	43	43	6.6X	
5/21	1	24.0	228.17	100.00 X	11	157	157	12.6X	
5/22	1	24.0	228.01	100.00 X	18	257	257	22.6X	
5/23	1	24.0	227.75	100.00 X	28	400	400	38.0X	
5/24	1	24.0	225.09	100.00 X	22	314	314	50.1X	
5/25	1	24.0	261.27	84.28 X	27	386	458	67.8X	
5/26	1	24.0	243.13	91.20 X	24	282	309	79.7X	
5/27	1	24.0	208.07	100.00 X	8	100	100	83.5X	
5/28	1	24.0	222.11	100.00 X	9	129	129	88.5X	
5/29	1	24.0	233.81	94.42 X	4	57	60	90.8X	
5/30	1	24.0	257.16	86.20 X	6	75	87	94.2X	
5/31	2	22.0	260.70	84.66 X	1 *	36 *	43 *	95.8X	
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	95.8X	
6/01	1	26.0	224.90	98.51 X	1	50	51	97.8X	
6/02	1	24.0	223.18	100.00 X	0	0	0	97.8X	
6/03	1	24.0	213.99	100.00 X	0	0	0	97.8X	
6/04	1	24.0	236.00	100.00 X	2	29	29	98.9X	
6/05	1	24.0	182.95	100.00 X	1	14	14	99.5X	
6/06	1	24.0	196.81	100.00 X	0	0	0	99.5X	
6/07	1	24.0	211.60	100.00 X	1	14	14	100.0X	

***** CONTINUED *****

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SOCKEYE

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LA-IL-3 SOCKEYE LOT ID # 85303-04 6,451 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1) .. PARAMETERS .. SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE

***** C O N T I N U E D *****

<u>TOTAL</u>	<u>175</u>	<u>2,471</u>	<u>2,593</u>
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(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled

(2) River Flow: Data acquired from Corps data site - MCN

(3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *

(4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

(*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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* * * SOCKEYE * * *

LA-IN-1 SOCKEYE LOT ID # 85303-02 8,189 RELEASED AT: BELOW PRST RAPI FROM: 4/28/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX ...	INDEX CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW				
5/02	1	24.0	183.10	100.00 X	1	14	14	0.4X
5/03	1	24.0	213.20	100.00 X	6	86	86	3.0X
5/04	1	24.0	214.28	100.00 X	4	57	57	4.7X
5/05	1	24.0	218.32	100.00 X	17	243	243	11.9X
5/06	1	24.0	243.11	90.11 X	29	414	459	25.5X
5/07	1	24.0	271.65	79.76 X	22	259	325	35.1X
5/08	1	24.0	234.50	93.53 X	22	232	248	42.4X
5/09	1	24.0	233.77	85.71 X	13	186	217	48.9X
5/10	1	24.0	249.76	80.54 X	7	74	92	51.6X
5/11	1	24.0	257.35	79.20 X	5	59	74	53.8X
5/12	1	24.0	249.25	84.34 X	8	84	100	56.7X
5/13	1	24.0	238.86	93.39 X	14	206	221	63.3X
5/14	1	24.0	220.75	100.00 X	10	143	143	67.5X
5/15	1	24.0	234.10	93.53 X	13	186	199	73.4X
5/16	1	24.0	225.04	81.94 X	9	106	129	77.2X
5/17	1	24.0	212.92	100.00 X	7	100	100	80.2X
5/18	1	24.0	217.94	100.00 X	5	71	71	82.3X
5/19	1	24.0	213.18	100.00 X	5	71	71	84.4X
5/20	1	24.0	208.28	100.00 X	2	29	29	85.3X
5/21	1	24.0	228.17	100.00 X	0	0	0	85.3X
5/22	1	24.0	228.01	100.00 X	2	29	29	86.1X
5/23	1	24.0	227.75	100.00 X	5	71	71	88.2X
5/24	1	24.0	225.09	100.00 X	7	100	100	91.2X
5/25	1	24.0	261.27	84.28 X	6	86	102	94.2X
5/26	1	24.0	243.13	91.20 X	5	59	65	96.1X
5/27	1	24.0	208.07	100.00 X	2	25	25	96.9X
5/28	1	24.0	222.11	100.00 X	3	43	43	98.2X
5/29	1	24.0	233.81	94.42 X	1	14	15	98.6X
5/30	1	24.0	257.16	86.20 X	0	0	0	98.6X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	98.6X
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	98.6X
6/01	1	26.0	224.90	98.51 X	0	0	0	98.6X
6/02	1	24.0	223.18	100.00 X	0	0	0	98.6X
6/03	1	24.0	213.99	100.00 X	1	14	14	99.0X

***** CONTINUED *****

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SOCKEYE

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LA-IN-1 SOCKEYE LOT ID # 85303-02 8,169 RELEASED AT: BELOW PRST RAPI FROM: 4/28/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC-ID-GW-HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4) DAILY COUNT CUMULATIVE
***** C O N T I N U E D *****								
6/04	1	24.0	236.00	100.00 %	0	0	0	99.0%
6/05	1	24.0	182.95	100.00 %	0	0	0	99.0%
6/06	1	24.0	196.81	100.00 %	0	0	0	99.0%
6/07	1	24.0	211.60	100.00 %	0	0	0	99.0%
6/08	1	24.0	193.64	100.00 %	0	0	0	99.0%
6/09	1	24.0	203.05	100.00 %	0	0	0	99.0%
6/10	1	24.0	210.63	100.00 %	0	0	0	99.0%
6/11	1	24.0	218.02	100.00 %	0	0	0	99.0%
6/12	1	24.0	195.52	100.00 %	0	0	0	99.0%
6/13	2	21.0	217.08	100.00 %	1 *	33 *	33 *	100.0%
6/13	10	0.0	180.89	100.00 %	0 *	0 *	0 *	100.0%
TOTAL					232	3,094	3,375	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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SOCKEYE

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LA-IN-3 SOCKEYE LOT ID # 85303-05 10,403 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)			INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...			(4) CUMULATIVE
	SC	ID	GW				RIVER FLOW	DAILY COUNT	INDEX	
5/23	1	24.0	227.75	100.00 X	1	14		14	0.3X	
5/24	1	24.0	225.09	100.00 X	4	57		57	1.6X	
5/25	1	24.0	261.27	84.28 X	12	171		203	6.2X	
5/26	1	24.0	243.13	91.20 X	65	765		839	25.0X	
5/27	1	24.0	208.07	100.00 X	49	613		613	38.8X	
5/28	1	24.0	222.11	100.00 X	45	643		643	53.2X	
5/29	1	24.0	233.81	94.42 X	56	800		847	72.3X	
5/30	1	24.0	257.16	86.20 X	36	450		522	84.0X	
5/31	2	22.0	260.70	84.66 X	8 *	291 *		344 *	91.7X	
5/31	10	0.0	220.78	99.45 X	0 *	0 *		0 *	91.7X	
6/01	1	26.0	224.90	98.51 X	2	100		102	94.0X	
6/02	1	24.0	223.18	100.00 X	5	67		67	95.5X	
6/03	1	24.0	213.99	100.00 X	2	29		29	96.2X	
6/04	1	24.0	236.00	100.00 X	4	57		57	97.4X	
6/05	1	24.0	182.95	100.00 X	3	43		43	98.4X	
6/06	1	24.0	196.81	100.00 X	1	14		14	98.7X	
6/07	1	24.0	211.60	100.00 X	0	0		0	98.7X	
6/08	1	24.0	193.64	100.00 X	2	29		29	99.4X	
6/09	1	24.0	203.05	100.00 X	1	14		14	99.7X	
6/10	1	24.0	210.63	100.00 X	0	0		0	99.7X	
6/11	1	24.0	218.02	100.00 X	1	14		14	100.0X	

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SOCKEYE

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LA-IN-3 SOCKEYE LOT ID # 85303-05 10,403 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE .. PARAMETERS ..	(1) SC--#D--GW--HR.S	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
							DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

TOTAL	297	4,171	4,451
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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SOCKEYE

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LA-IS-1 SOCKEYE LOT ID # 85303-03 8,171 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/12/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC-#D-GW-HR.S	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED				... PASSAGE INDEX ...
5/09	1	24.0	233.77	85.71 X	1	14	16	0.5X
5/10	1	24.0	249.76	80.54 X	1	11	14	1.0X
5/11	1	24.0	257.35	79.20 X	5	59	74	3.3X
5/12	1	24.0	249.25	84.34 X	12	126	149	8.0X
5/13	1	24.0	238.86	93.39 X	29	426	456	22.6X
5/14	1	24.0	220.75	100.00 X	16	229	229	29.8X
5/15	1	24.0	234.10	93.53 X	21	300	321	40.0X
5/16	1	24.0	225.04	81.94 X	12	141	172	45.5X
5/17	1	24.0	212.92	100.00 X	24	343	343	56.4X
5/18	1	24.0	217.94	100.00 X	21	300	300	66.0X
5/19	1	24.0	213.18	100.00 X	13	186	186	71.9X
5/20	1	24.0	208.28	100.00 X	6	86	86	74.6X
5/21	1	24.0	228.17	100.00 X	7	100	100	77.8X
5/22	1	24.0	228.01	100.00 X	10	143	143	82.3X
5/23	1	24.0	227.75	100.00 X	6	86	86	85.1X
5/24	1	24.0	225.09	100.00 X	5	71	71	87.3X
5/25	1	24.0	261.27	84.28 X	5	71	84	90.0X
5/26	1	24.0	243.13	91.20 X	10	118	129	94.1X
5/27	1	24.0	208.07	100.00 X	3	38	38	95.3X
5/28	1	24.0	222.11	100.00 X	1	14	14	95.8X
5/29	1	24.0	233.81	94.42 X	1	14	15	96.2X
5/30	1	24.0	257.16	86.20 X	1	13	15	96.7X
5/31	2	22.0	260.70	84.66 X	0 *	0 *	0 *	96.7X
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	96.7X
6/01	1	26.0	224.90	98.51 X	0	0	0	96.7X
6/02	1	24.0	223.18	100.00 X	1	13	13	97.1X
6/03	1	24.0	213.99	100.00 X	0	0	0	97.1X
6/04	1	24.0	236.00	100.00 X	1	14	14	97.6X
6/05	1	24.0	182.95	100.00 X	1	14	14	98.0X
6/06	1	24.0	196.81	100.00 X	0	0	0	98.0X
6/07	1	24.0	211.60	100.00 X	0	0	0	98.0X
6/08	1	24.0	193.64	100.00 X	2	29	29	99.0X
6/09	1	24.0	203.05	100.00 X	0	0	0	99.0X

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SOCKEYE

LA-IS-1 SOCKEYE LOT ID # 85303-03 8,171 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/12/85
 DATE .. PARAMETERS .. RIVER INDEX NUMBER NUMBER ... PASSAGE INDEX ...
 1985 SC--#D-GW-HRS FLOW FLOW SAMPLED COLLECTED DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

6/10	1	24.0	210.63	100.00 X	0	0	0	99.0X
6/11	1	24.0	218.02	100.00 X	0	0	0	99.0X
6/12	1	24.0	195.52	100.00 X	0	0	0	99.0X
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	99.0X
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	99.0X
6/14	1	27.0	184.50	100.00 X	1	33	33	100.0X
TOTAL					216	2,992	3,144	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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SOCKEYE

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LA-15-3 SOCKEYE LOT ID # 85303-06 12,604 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)	
		SC	ID	GH	HGS	RIVER FLOW	INDEX FLOW	DAILY COUNT	CUMULATIVE
5/30	1	24.0	257.16	86.20	X	8	100	116	2.1%
5/31	2	22.0	260.70	84.66	X	12 *	436 *	515 *	11.5%
5/31	10	0.0	220.78	99.45	X	0 *	0 *	0 *	11.5%
6/01	1	26.0	224.90	98.51	X	7	350	355	17.9%
6/02	1	24.0	223.18	100.00	X	13	173	173	21.0%
6/03	1	24.0	213.99	100.00	X	23	329	329	27.0%
6/04	1	24.0	236.00	100.00	X	36	514	514	36.3%
6/05	1	24.0	182.95	100.00	X	54	771	771	50.3%
6/06	1	24.0	196.81	100.00	X	25	357	357	56.8%
6/07	1	24.0	211.60	100.00	X	52	743	743	70.3%
6/08	1	24.0	193.64	100.00	X	38	543	543	80.2%
6/09	1	24.0	203.05	100.00	X	31	443	443	88.2%
6/10	1	24.0	210.63	100.00	X	11	157	157	91.1%
6/11	1	24.0	218.02	100.00	X	8	114	114	93.1%
6/12	1	24.0	195.52	100.00	X	13	186	186	96.5%
6/13	2	21.0	217.08	100.00	X	4 *	133 *	133 *	98.9%
6/13	10	0.0	180.89	100.00	X	1 *	1 *	1 *	98.9%
6/14	1	27.0	184.50	100.00	X	0	0	0	98.9%
6/15	1	24.0	176.92	100.00	X	0	0	0	98.9%
6/16	1	24.0	179.20	100.00	X	2	29	29	99.5%
6/17	1	24.0	183.76	100.00	X	1	14	14	99.7%
6/18	1	24.0	170.52	100.00	X	0	0	0	99.7%
6/19	1	24.0	204.46	100.00	X	0	0	0	99.7%
6/20	1	24.0	201.23	100.00	X	0	0	0	99.7%
6/21	1	24.0	189.82	100.00	X	0	0	0	99.7%
6/22	1	24.0	184.08	100.00	X	0	0	0	99.7%
6/23	1	24.0	138.31	100.00	X	0	0	0	99.7%
6/24	1	24.0	157.00	100.00	X	0	0	0	99.7%
6/25	1	24.0	155.94	100.00	X	0	0	0	99.7%
6/26	1	24.0	154.78	100.00	X	0	0	0	99.7%
6/27	1	24.0	154.16	100.00	X	0	0	0	99.7%
6/28	1	24.0	152.23	100.00	X	0	0	0	99.7%
6/29	1	24.0	132.98	100.00	X	0	0	0	99.7%
6/30	1	24.0	131.17	100.00	X	0	0	0	99.7%

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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SOCKEYE

LA-1S-3 SOCKEYE LOT ID # 85303-06 12,604 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE SC .. PARAMETERS .. #D GW HRS	RIVER FLOW	INDEX FLOW	NUMBER NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
						DAILY COUNT	CUMULATIVE	

***** C O N T I N U E D *****

7/01	1	24.0	144.13	100.00 X	0	0	0	99.7X
7/02	1	24.0	139.01	100.00 X	0	0	0	99.7X
7/03	1	24.0	164.86	100.00 X	0	0	0	99.7X
7/04	1	24.0	147.66	100.00 X	0	0	0	99.7X
7/05	1	24.0	120.52	100.00 X	0	0	0	99.7X
7/06	1	24.0	118.49	100.00 X	0	0	0	99.7X
7/07	1	24.0	103.75	100.00 X	0	0	0	99.7X
7/08	1	24.0	138.07	100.00 X	0	0	0	99.7X
7/09	1	24.0	108.65	100.00 X	0	0	0	99.7X
7/10	1	24.0	116.53	100.00 X	0	0	0	99.7X
7/11	1	24.0	109.58	100.00 X	0	0	0	99.7X
7/12	1	24.0	105.28	100.00 X	0	0	0	99.7X
7/13	1	24.0	105.79	100.00 X	0	0	0	99.7X
7/14	1	24.0	100.93	100.00 X	0	0	0	99.7X
7/15	1	24.0	84.63	100.00 X	0	0	0	99.7X
7/16	1	24.0	85.46	100.00 X	0	0	0	99.7X
7/17	1	24.0	105.94	100.00 X	0	0	0	99.7X
7/18	1	24.0	121.82	100.00 X	0	0	0	99.7X
7/19	1	24.0	117.51	100.00 X	0	0	0	99.7X
7/20	1	24.0	104.98	100.00 X	1	15	15	100.0X
TOTAL				340	5,408	5,508		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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MONARY *** SOCKEYE ***

LA-2C-1 SOCKEYE LOT ID # 85307-01 2,299 RELEASED AT: BELOW PRST RAPI FROM: 5/01/85 TO 5/04/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	.. PARAMETERS .. SC-ID-GW-HRS	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
		RIVER FLOW	INDEX FLOW					
5/05	1	24.0	218.32	100.00 %	1	14	14	1.5%
5/06	1	24.0	243.11	90.11 %	5	71	79	10.3%
5/07	1	24.0	271.65	79.76 %	6	71	89	20.1%
5/08	1	24.0	234.50	93.53 %	7	74	79	28.8%
5/09	1	24.0	233.77	85.71 %	5	71	83	38.0%
5/10	1	24.0	249.76	80.54 %	2	21	26	40.9%
5/11	1	24.0	257.35	79.20 %	2	24	30	44.2%
5/12	1	24.0	249.25	84.34 %	2	21	25	47.0%
5/13	1	24.0	238.86	93.39 %	9	132	141	62.5%
5/14	1	24.0	220.75	100.00 %	4	57	57	68.8%
5/15	1	24.0	234.10	93.53 %	4	57	61	75.6%
5/16	1	24.0	225.04	81.94 %	2	24	29	78.8%
5/17	1	24.0	212.92	100.00 %	0	0	0	78.8%
5/18	1	24.0	217.94	100.00 %	1	14	14	80.3%
5/19	1	24.0	213.18	100.00 %	0	0	0	80.3%
5/20	1	24.0	208.28	100.00 %	0	0	0	80.3%
5/21	1	24.0	228.17	100.00 %	0	0	0	80.3%
5/22	1	24.0	228.01	100.00 %	1	14	14	81.9%
5/23	1	24.0	227.75	100.00 %	0	0	0	81.9%
5/24	1	24.0	225.09	100.00 %	0	0	0	81.9%
5/25	1	24.0	261.27	84.28 %	2	29	34	85.6%
5/26	1	24.0	243.13	91.20 %	1	12	13	87.1%
5/27	1	24.0	208.07	100.00 %	1	13	13	88.5%
5/28	1	24.0	222.11	100.00 %	2	29	29	91.7%
5/29	1	24.0	233.81	94.42 %	2	29	31	95.1%
5/30	1	24.0	257.16	86.20 %	3	38	44	100.0%

***** CONTINUED *****

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FISH PASSAGE DATA SYSTEM

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TOTAL 62 815 905

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
(2) River Flow: Data acquired from Corps data site - MCN
(3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
(4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

NATIONAL MARINE FISHERIES SERVICE
FISH PASSAGE DATA SYSTEM

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DATE	SAMPLE 1985	SAMPLE (1)	(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE	(4)
		.. PARAMETERS ..	RIVER FLOW	INDEX FLOW				
5/24	1	24.0	225.09	100.00 X	3	43	43	5.9X
5/25	1	24.0	261.27	84.28 X	2	29	34	10.5X
5/26	1	24.0	243.13	91.20 X	10	118	129	28.2X
5/27	1	24.0	208.07	100.00 X	5	63	63	36.8X
5/28	1	24.0	222.11	100.00 X	7	100	100	50.5X
5/29	1	24.0	233.81	94.42 X	3	43	46	56.8X
5/30	1	24.0	257.16	86.20 X	5	63	73	66.8X
5/31	2	22.0	260.70	84.66 X	4 *	145 *	171 *	90.3X
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	90.3X
6/01	1	26.0	224.90	98.51 X	0	0	0	90.3X
6/02	1	24.0	223.18	100.00 X	0	0	0	90.3X
6/03	1	24.0	213.99	100.00 X	1	14	14	92.2X
6/04	1	24.0	236.00	100.00 X	1	14	14	94.1X
6/05	1	24.0	182.95	100.00 X	2	29	29	98.1X
6/06	1	24.0	196.81	100.00 X	0	0	0	98.1X
6/07	1	24.0	211.60	100.00 X	1	14	14	100.0X
TOTAL					44	475	730	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

** Brand Recapture Summary **

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SOCKEYE

LA-2J-1 SOCKEYE LOT ID # 85307-02 1,069 RELEASED AT: BELOW PRST RAPI FROM: 5/05/85 TO 5/13/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	.. PARAMETERS ..	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
		SC	II	GW	RIVER FLOW	INDEX FLOW	... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE
5/11	1	24.0	257.35	79.20 %	2	24	30	7.4%
5/12	1	24.0	249.25	84.34 %	2	21	25	13.6%
5/13	1	24.0	238.86	93.39 %	1	15	16	17.6%
5/14	1	24.0	220.75	100.00 %	3	43	43	28.2%
5/15	1	24.0	234.10	93.53 %	2	29	31	35.9%
5/16	1	24.0	225.04	81.94 %	0	0	0	35.9%
5/17	1	24.0	212.92	100.00 %	1	14	14	39.4%
5/18	1	24.0	217.94	100.00 %	2	29	29	46.5%
5/19	1	24.0	213.18	100.00 %	3	43	43	57.2%
5/20	1	24.0	208.28	100.00 %	2	29	29	64.4%
5/21	1	24.0	228.17	100.00 %	1	14	14	67.8%
5/22	1	24.0	228.01	100.00 %	4	57	57	81.9%
5/23	1	24.0	227.75	100.00 %	1	14	14	85.4%
5/24	1	24.0	225.09	100.00 %	0	0	0	85.4%
5/25	1	24.0	261.27	84.28 %	1	14	17	89.6%
5/26	1	24.0	243.13	91.20 %	0	0	0	89.6%
5/27	1	24.0	208.07	100.00 %	0	0	0	89.6%
5/28	1	24.0	222.11	100.00 %	1	14	14	93.1%
5/29	1	24.0	233.81	94.42 %	1	14	15	96.8%
5/30	1	24.0	257.16	86.20 %	0	0	0	96.8%
5/31	2	22.0	260.70	84.66 %	0 *	0 *	0 *	96.8%
5/31	10	0.0	220.78	99.45 %	0 *	0 *	0 *	96.8%
6/01	1	26.0	224.90	98.51 %	0	0	0	96.8%
6/02	1	24.0	223.18	100.00 %	1	13	13	100.0%
TOTAL					28	387	404	

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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SOCKEYE

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LA-2J-3 SOCKEYE LOT ID # 85307-05 2,382 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/03/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	.. PARAMETERS ..	SC-ID-GW-HS,S					DAILY COUNT		
5/31	2	22.0	260.70	84.66 X	2 *	73 *	86 *	8.8%	
5/31	10	0.0	220.78	99.45 X	0 *	0 *	0 *	8.8%	
6/01	1	26.0	224.90	98.51 X	2	100	102	19.1%	
6/02	1	24.0	223.18	100.00 X	6	80	80	27.3%	
6/03	1	24.0	213.99	100.00 X	2	29	29	30.2%	
6/04	1	24.0	236.00	100.00 X	8	114	114	41.9%	
6/05	1	24.0	182.95	100.00 X	20	286	286	71.0%	
6/06	1	24.0	196.81	100.00 X	5	71	71	78.2%	
6/07	1	24.0	211.60	100.00 X	8	114	114	89.8%	
6/08	1	24.0	193.64	100.00 X	2	29	29	92.8%	
6/09	1	24.0	203.05	100.00 X	1	14	14	94.2%	
6/10	1	24.0	210.63	100.00 X	0	0	0	94.2%	
6/11	1	24.0	218.02	100.00 X	0	0	0	94.2%	
6/12	1	24.0	195.52	100.00 X	2	29	29	97.1%	
6/13	2	21.0	217.08	100.00 X	0 *	0 *	0 *	97.1%	
6/13	10	0.0	180.89	100.00 X	0 *	0 *	0 *	97.1%	
6/14	1	27.0	184.50	100.00 X	0	0	0	97.1%	
6/15	1	24.0	176.92	100.00 X	1	14	14	98.6%	
6/16	1	24.0	179.20	100.00 X	0	0	0	98.6%	
6/17	1	24.0	183.76	100.00 X	0	0	0	98.6%	
6/18	1	24.0	170.52	100.00 X	0	0	0	98.6%	
6/19	1	24.0	204.46	100.00 X	0	0	0	98.6%	
6/20	1	24.0	201.23	100.00 X	0	0	0	98.6%	
6/21	1	24.0	189.82	100.00 X	0	0	0	98.6%	
6/22	1	24.0	184.08	100.00 X	0	0	0	98.6%	
6/23	1	24.0	138.31	100.00 X	0	0	0	98.6%	
6/24	1	24.0	157.00	100.00 X	0	0	0	98.6%	
6/25	1	24.0	155.94	100.00 X	0	0	0	98.6%	
6/26	1	24.0	154.78	100.00 X	0	0	0	98.6%	
6/27	1	24.0	154.16	100.00 X	0	0	0	98.6%	
6/28	1	24.0	152.23	100.00 X	0	0	0	98.6%	
6/29	1	24.0	132.98	100.00 X	0	0	0	98.6%	
6/30	1	24.0	131.17	100.00 X	0	0	0	98.6%	
7/01	1	24.0	144.13	100.00 X	0	0	0	98.6%	

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SOCKEYE

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LA-2J-3 SOCKEYE LOT ID # 85307-05 2,382 RELEASED AT: BELOW PRST RAPI FROM: 5/27/85 TO 6/03/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...
	SD	GW	HRS	S	C	DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

7/02	1	24.0	139.01	100.00 %	0	0	0	98.6X
7/03	1	24.0	164.86	100.00 %	0	0	0	98.6X
7/04	1	24.0	147.66	100.00 %	0	0	0	98.6X
7/05	1	24.0	120.52	100.00 %	0	0	0	98.6X
7/06	1	24.0	118.49	100.00 %	0	0	0	98.6X
7/07	1	24.0	103.75	100.00 %	0	0	0	98.6X
7/08	1	24.0	138.07	100.00 %	0	0	0	98.6X
7/09	1	24.0	108.65	100.00 %	0	0	0	98.6X
7/10	1	24.0	116.53	100.00 %	0	0	0	98.6X
7/11	1	24.0	109.58	100.00 %	1	14	14	100.0X
TOTAL					60	967	982	

- (1) Sample parameters: SC = Sample quality code SD = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from Corps data site - MCN
 (3) Index Flow: *** POWERHOUSE1 / (POWERHOUSE1 + SPILL) ***
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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SOCKEYE

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LA-14-1 SOCKEYE LOT ID # 85307-03 835 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	.. PARAMETERS ..	SC-ID-GW-HRS					DAILY COUNT	INDEX	
5/18	1	24.0	217.94	100.00 X	1	14	14	3.4%	
5/19	1	24.0	213.18	100.00 X	1	14	14	6.7%	
5/20	1	24.0	208.28	100.00 X	3	43	43	17.1%	
5/21	1	24.0	228.17	100.00 X	4	57	57	30.8%	
5/22	1	24.0	228.01	100.00 X	5	71	71	47.8%	
5/23	1	24.0	227.75	100.00 X	4	57	57	61.5%	
5/24	1	24.0	225.09	100.00 X	1	14	14	64.9%	
5/25	1	24.0	261.27	84.28 X	2	29	34	73.1%	
5/26	1	24.0	243.13	91.20 X	1	12	13	76.2%	
5/27	1	24.0	208.07	100.00 X	2	25	25	82.2%	
5/28	1	24.0	222.11	100.00 X	1	14	14	85.6%	
5/29	1	24.0	233.81	94.42 X	2	29	31	93.0%	
5/30	1	24.0	257.16	86.20 X	2	25	29	100.0%	
TOTAL					29	404	416		

- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from Corps data site - MCN
- (3) Index Flow: * * * POWERHOUSE1 / (POWERHOUSE1 + SPILL) * * *
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

E. John Day Dam

Contractor: National Marine Fisheries Service

Project Leader(s): Richard Johnsen (503-739-2303)

Location: Columbia River, River Mile 215.6

Monitoring Dates: March 28, 1985 - October 29, 1985

Sampling Method: Fish were collected with a gatewell sampling system from unit 3 of the John Day Dam powerhouse.

The gatewell sampling method used at John Day Dam varied during 1985. An airlift pump system was used to sample fish in Unit 3 (gatewells B and C) from March 28 through April 1, 1985. No sampling was performed from April 2 through April 19 due to installation and testing of the submerged traveling screens (STS). All sampling after April 20 was with the STS installed. Samples of unit 3 from April 20 through April 22 were dipnet samples. Samples taken from April 27 to the end of the season were obtained with an airpump of unit 3, gatewell B. Fish were typically collected for a 24-hour period (1200-1200h). All sampled fish were examined for species composition and brands.

Deviations from the typical 24-hour sample are discussed under "Notes on Data Presentation". Additional information on the sampling procedures at John Day Dam is presented in the NMFS annual report (Johnsen and Ranck, 1985).

Analysis of Data: Data from John Day were used for

in-season management and limited assessment of travel time.

The flow proportion used to expand collection counts to a passage index was estimated as follows:

Unit 3 flow/ River flow

Notes on Data Presentation: Counts that were biased because a complete 24-hour sample was not obtained are indicated with a sample quality code of 5 or 7. However, some of the samples, obtained for less than the entire 24-hour period, were not considered biased because the amount of time missed was minimal and/or the time missed occurred in the evening when few fish pass the project.

NATIONAL MARINE FISHERIES SERVICE
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JOHN DAY

* * * CHINOOK 1'S * * *

LA-IL-3 SP CHINOOK LOT ID # 85304-04 10,569 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	... PASSAGE DAILY COUNT			INDEX CUMULATIVE	
5/22	1	1	24.0	238.70	8.67 X	2	2	1.4X
5/23	1	1	24.0	229.50	8.71 X	13	13	10.7X
5/24	1	1	24.0	246.10	8.49 X	21	21	26.2X
5/25	1	1	24.0	253.90	8.11 X	23	23	43.9X
5/26	1	1	24.0	251.60	7.75 X	13	13	54.4X
5/27	1	1	24.0	230.00	8.09 X	9	9	61.3X
5/28	1	1	24.0	239.40	7.64 X	8	8	67.9X
5/29	7	1	10.0	251.80	3.14 X	6 *	6 *	191 *
5/30	1	1	24.0	259.30	7.64 X	1	1	80.6X
5/31	1	1	24.0	233.50	8.05 X	3	3	82.9X
6/01	1	1	24.0	243.70	7.76 X	9	9	90.1X
6/02	1	1	24.0	234.80	8.13 X	0	0	90.1X
6/03	1	1	22.0	238.60	7.54 X	1	1	90.9X
6/04	1	1	24.0	257.20	7.62 X	0	0	90.9X
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *
6/06	1	1	24.0	193.00	9.74 X	2	2	92.3X
6/07	1	1	24.0	202.40	9.24 X	5	5	95.6X
6/08	1	1	24.0	207.30	8.68 X	2	2	97.1X
6/09	1	1	24.0	201.40	8.89 X	1	1	97.8X
6/10	1	1	24.0	223.90	8.58 X	0	0	97.8X
6/11	1	1	24.0	228.00	8.42 X	0	0	97.8X
6/12	1	1	24.0	223.80	8.67 X	0	0	97.8X
6/13	1	1	24.0	204.00	9.36 X	0	0	97.8X
6/14	1	1	21.0	179.30	9.65 X	0	0	97.8X
6/15	1	1	24.0	178.10	9.71 X	0	0	97.8X
6/16	1	1	24.0	176.90	10.57 X	2	2	98.9X
6/17	1	1	24.0	181.50	10.14 X	0	0	98.9X
6/18	1	1	24.0	173.20	9.58 X	1	1	99.6X
6/19	1	1	24.0	188.80	9.16 X	0	0	99.6X
6/20	1	1	24.0	204.40	8.90 X	0	0	99.6X
6/21	1	1	24.0	187.40	9.50 X	0	0	99.6X
6/22	1	1	24.0	185.00	9.68 X	0	0	99.6X
6/23	1	1	24.0	159.30	10.42 X	0	0	99.6X
6/24	1	1	24.0	154.60	10.87 X	0	0	99.6X
6/25	1	1	24.0	158.00	10.32 X	0	0	99.6X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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JOHN DAY

* * *

CHINOOK 1'S

* * *

LA-IL-3 SP CHINOOK LOT ID # 85304-04 10,569 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE	(1)	(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	(4)	
	.. PARAMETERS ..	RIVER SC-ID-GW-HR.S	RIVER FLOW	INDEX FLOW			... PASSAGE INDEX ...	DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

6/26	1	1	24.0	146.70	10.91 X	0	0	0	99.6%
6/27	1	1	24.0	142.40	10.67 X	0	0	0	99.6%
6/28	1	1	24.0	142.00	11.13 X	0	0	0	99.6%
6/29	1	1	24.0	120.50	12.95 X	0	0	0	99.6%
6/30	1	1	24.0	114.50	12.84 X	0	0	0	99.6%
7/01	1	1	24.0	132.30	11.87 X	0	0	0	99.6%
7/02	1	1	24.0	138.30	11.14 X	0	0	0	99.6%
7/03	1	1	24.0	169.20	9.99 X	0	0	0	99.6%
7/04	1	1	24.0	135.30	12.20 X	0	0	0	99.6%
7/05	1	1	24.0	124.40	11.58 X	0	0	0	99.6%
7/06	1	1	24.0	123.30	11.35 X	0	0	0	99.6%
7/07	1	1	24.0	130.10	11.61 X	0	0	0	99.6%
7/08	1	1	24.0	117.40	15.84 X	0	0	0	99.6%
7/09	1	1	24.0	115.40	12.22 X	0	0	0	99.6%
7/10	1	1	24.0	108.50	13.27 X	0	0	0	99.6%
7/11	1	1	20.0	124.40	11.74 X	0	0	0	99.6%
7/12	1	1	19.0	112.90	12.67 X	0	0	0	99.6%
7/13	1	1	24.0	109.40	13.44 X	0	0	0	99.6%
7/14	1	1	24.0	101.40	15.09 X	0	0	0	99.6%
7/15	1	1	24.0	90.60	16.34 X	0	0	0	99.6%
7/16	1	1	24.0	69.80	18.91 X	0	0	0	99.6%
7/17	1	1	24.0	90.00	15.22 X	0	0	0	99.6%
7/18	1	1	24.0	120.60	13.76 X	1	1	7	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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JOHN DAY

* * *

CHINOOK 1'S

* * *

LA-IL-3 SP CHINOOK LOT ID # 85304-04 10,569 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

	SAMPLE (1)	(2)	(3)		(4)
DATE .. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER	... PASSAGE INDEX ...
1985 SC-ID-GW-HS,S	FLOW	FLOW	SAMPLED	COLLECTED	DAILY COUNT CUMULATIVE

***** CONTINUED *****

1010	123	123	1,602
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH IATA
- (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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JOHN DAY * * * CHINOOK 1'S * * *

LA-IN-3 SP CHINOOK LOT ID # 85304-05 6,779 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
	SC	ID	GW	HGS			DAILY COUNT	CUMULATIVE	
5/27	1	1	24.0	230.00	8.09 X	1	1	12	1.5X
5/28	1	1	24.0	239.40	7.64 X	1	1	13	3.2X
5/29	7	1	10.0	251.80	3.14 X	1 *	1 *	32 *	7.3X
5/30	1	1	24.0	259.30	7.64 X	5	5	65	15.6X
5/31	1	1	24.0	233.50	8.05 X	2	2	25	18.8X
6/01	1	1	24.0	243.70	7.76 X	18	18	232	48.5X
6/02	1	1	24.0	234.80	8.13 X	9	9	111	62.7X
6/03	1	1	22.0	238.60	7.54 X	0	0	0	62.7X
6/04	1	1	24.0	257.20	7.62 X	6	6	79	72.8X
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *	72.8X
6/06	1	1	24.0	193.00	9.74 X	4	4	41	78.0%
6/07	1	1	24.0	202.40	9.24 X	5	5	54	84.9%
6/08	1	1	24.0	207.30	8.68 X	3	3	35	89.4%
6/09	1	1	24.0	201.40	8.89 X	0	0	0	89.4%
6/10	1	1	24.0	223.90	8.58 X	0	0	0	89.4%
6/11	1	1	24.0	228.00	8.42 X	0	0	0	89.4%
6/12	1	1	24.0	223.80	8.67 X	0	0	0	89.4%
6/13	1	1	24.0	204.00	9.36 X	0	0	0	89.4%
6/14	1	1	21.0	179.30	9.65 X	0	0	0	89.4%
6/15	1	1	24.0	178.10	9.71 X	2	2	21	92.1X
6/16	1	1	24.0	176.90	10.57 X	1	1	9	93.2X
6/17	1	1	24.0	181.50	10.14 X	1	1	10	94.5X
6/18	1	1	24.0	173.20	9.58 X	2	2	21	97.2X
6/19	1	1	24.0	188.80	9.16 X	1	1	11	98.6X
6/20	1	1	24.0	204.40	8.90 X	1	1	11	100.0%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
FISH PASSAGE DATA SYSTEM

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JOHN DAY * * * **CHINOOK 1'S** * * *

	SAMPLE (1)	(2)	(3)	(4)		
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER	... PASSAGE INDEX ...
1985	SC-ID-GW-HRS	FLOW	FLOW	SAMPLED	COLLECTED	DAILY COUNT CUMULATIVE

* * * * * * * * * CONTINUED * * * * * * * * *

TOTAL _____ 63 _____ 63 _____ 782

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * CHINOOK 1'S * * *

LA-14-1 SP CHINOOK LOT ID # 85308-03 5,398 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	SC	ID					DAILY COUNT	CUMULATIVE
5/23	1	1	24.0	229.50	8.71 X	2	2	3.1%
5/24	1	1	24.0	246.10	8.49 X	3	3	7.7%
5/25	1	1	24.0	253.90	8.11 X	17	17	210 35.7%
5/26	1	1	24.0	251.60	7.75 X	10	10	129 52.9%
5/27	1	1	24.0	230.00	8.09 X	6	6	74 62.7%
5/28	1	1	24.0	239.40	7.64 X	4	4	52 69.6%
5/29	7	1	10.0	251.80	3.14 X	1 *	1 *	32 * 73.9%
5/30	1	1	24.0	259.30	7.64 X	3	3	39 79.1%
5/31	1	1	24.0	233.50	8.05 X	0	0	0 79.1%
6/01	1	1	24.0	243.70	7.76 X	5	5	64 87.6%
6/02	1	1	24.0	234.80	8.13 X	2	2	25 90.9%
6/03	1	1	22.0	238.60	7.54 X	1	1	13 92.7%
6/04	1	1	24.0	257.20	7.62 X	0	0	0 92.7%
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 * 92.7%
6/06	1	1	24.0	193.00	9.74 X	0	0	0 92.7%
6/07	1	1	24.0	202.40	9.24 X	2	2	22 95.6%
6/08	1	1	24.0	207.30	8.68 X	1	1	12 97.2%
6/09	1	1	24.0	201.40	8.89 X	0	0	0 97.2%
6/10	1	1	24.0	223.90	8.58 X	1	1	12 98.8%
6/11	1	1	24.0	228.00	8.42 X	0	0	0 98.8%
6/12	1	1	24.0	223.80	8.67 X	0	0	0 98.8%
6/13	1	1	24.0	204.00	9.36 X	0	0	0 98.8%
6/14	1	1	21.0	179.30	9.65 X	0	0	0 98.8%
6/15	1	1	24.0	178.10	9.71 X	0	0	0 98.8%
6/16	1	1	24.0	176.90	10.57 X	1	1	9 100.0%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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JOHN DAY * * * CHINOOK 1'S * * *

LA-14-1 SF CHINOOK	LOT ID # 85308-03	5,398	RELEASED AT: BELOW PRST RAPI	FROM: 5/15/85 TO 5/19/85
			AGENCY: NMFS	HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT	(4) CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW				
SC=10 GW=65							

***** CONTINUED *****

INITIAL	59	59	751
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs = Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE

FISH PASSAGE DATA SYSTEM

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JOHN DAY

STEELHEAD

LA-7K-1 SU STEELHEAD LOT ID # 85163-01 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	... PASSAGE INDEX ...			(4) CUMULATIVE
	SC	PARAMETERS	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	DAILY COUNT	
5/16	1	1	24.0	197.00	8.93 %	2	2	2.8%
5/17	1	1	24.0	248.90	7.87 %	1	1	4.4%
5/18	1	1	24.0	208.80	8.29 %	10	10	19.5%
5/19	1	1	24.0	226.90	8.64 %	13	13	38.3%
5/20	1	1	24.0	236.10	8.05 %	9	9	52.3%
5/21	1	1	24.0	236.50	8.41 %	3	3	56.8%
5/22	1	1	24.0	238.70	8.67 %	10	10	71.2%
5/23	1	1	24.0	229.50	8.71 %	1	1	72.6%
5/24	1	1	24.0	246.10	8.49 %	3	3	77.0%
5/25	1	1	24.0	253.90	8.11 %	2	2	80.1%
5/26	1	1	24.0	251.60	7.75 %	4	4	86.6%
5/27	1	1	24.0	230.00	8.09 %	2	2	89.7%
5/28	1	1	24.0	239.40	7.64 %	0	0	89.7%
5/29	7	1	10.0	251.80	3.14 %	1 *	1 *	93.7%
5/30	1	1	24.0	259.30	7.64 %	1	1	95.4%
5/31	1	1	24.0	233.50	8.05 %	3	3	100.0%
TOTAL					65	65	799	

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gatewells sampled
 HD = Number of accumulated days for sample
 Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
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JOHN DAY

STEELHEAD

LA-7K-3 SU STEELHEAD LOT ID # 85163-02

4,056 RELEASED AT: BELOW PRST RAPI FROM: 5/11/85 TO 5/11/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW			... DAILY COUNT	13	
5/17	1	1	24.0	248.90	7.87 X	1	1	13	1.7%
5/18	1	1	24.0	208.80	8.29 X	11	11	133	19.0%
5/19	1	1	24.0	226.90	8.64 X	13	13	150	38.5%
5/20	1	1	24.0	236.10	8.05 X	7	7	87	49.8%
5/21	1	1	24.0	236.50	8.41 X	6	6	71	59.0%
5/22	1	1	24.0	238.70	8.67 X	3	3	35	63.6%
5/23	1	1	24.0	229.50	8.71 X	4	4	46	69.6%
5/24	1	1	24.0	246.10	8.49 X	5	5	59	77.2%
5/25	1	1	24.0	253.90	8.11 X	4	4	49	83.6%
5/26	1	1	24.0	251.60	7.75 X	2	2	26	87.0%
5/27	1	1	24.0	230.00	8.09 X	0	0	0	87.0%
5/28	1	1	24.0	239.40	7.64 X	1	1	13	88.7%
5/29	7	1	10.0	251.80	3.14 X	0 *	0 *	0 *	88.7%
5/30	1	1	24.0	259.30	7.64 X	1	1	13	90.4%
5/31	1	1	24.0	233.50	6.05 X	1	1	12	91.9%
6/01	1	1	24.0	243.70	7.76 X	1	1	13	93.6%
6/02	1	1	24.0	234.80	8.13 X	1	1	12	95.2%
6/03	1	1	22.0	238.60	7.54 X	0	0	0	95.2%
6/04	1	1	24.0	257.20	7.62 X	2	2	26	98.6%
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *	98.6%
6/06	1	1	24.0	193.00	9.74 X	0	0	0	98.6%
6/07	1	1	24.0	202.40	9.24 X	0	0	0	98.6%
6/08	1	1	24.0	207.30	8.68 X	0	0	0	98.6%
6/09	1	1	24.0	201.40	8.89 X	0	0	0	98.6%
6/10	1	1	24.0	223.90	8.58 X	0	0	0	98.6%
6/11	1	1	24.0	228.00	8.42 X	0	0	0	98.6%
6/12	1	1	24.0	223.80	8.67 X	0	0	0	98.6%
6/13	1	1	24.0	204.00	9.36 X	1	1	11	100.0%

***** CONTINUED *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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JOHN DAY * * * STEELHEAD * * *

LA-7K-3 SU STEELHEAD LOT ID # 85163-02 4,058 RELEASED AT: BELOW PRST RAPI FROM: 5/11/85 TO 5/11/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE	SAMPLE ..	(1) PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT ...	INDEX CUMULATIVE
1985	SC	#D GW NR.S						

***** CONTINUED *****

TOTAL	64	64	769
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * STEELHEAD * * *

ID-7K-1 SU STEELHEAD LOT ID # 85163-04 4,038 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/15/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED			
5/19	1	1 24.0	226.90	8.64 X	2	2	3.4%
5/20	1	1 24.0	236.10	8.05 X	1	1	5.1%
5/21	1	1 24.0	236.50	8.41 X	4	4	12.2%
5/22	1	1 24.0	238.70	8.67 X	9	9	27.5%
5/23	1	1 24.0	229.50	8.71 X	4	4	34.3%
5/24	1	1 24.0	246.10	8.49 X	5	5	42.9%
5/25	1	1 24.0	253.90	8.11 X	8	8	57.5%
5/26	1	1 24.0	251.60	7.75 X	8	8	72.6%
5/27	1	1 24.0	230.00	8.09 X	3	3	78.1%
5/28	1	1 24.0	239.40	7.64 X	3	3	83.8%
5/29	7	1 10.0	251.80	3.14 X	0 *	0 *	83.8%
5/30	1	1 24.0	259.30	7.64 X	0	0	83.8%
5/31	1	1 24.0	233.50	8.05 X	4	4	91.2%
6/01	1	1 24.0	243.70	7.76 X	0	0	91.2%
6/02	1	1 24.0	234.80	8.13 X	0	0	91.2%
6/03	1	1 22.0	238.60	7.54 X	1	1	93.1%
6/04	1	1 24.0	257.20	7.62 X	2	2	96.9%
6/05	5	1 8.0	219.90	2.50 X	0 *	0 *	96.9%
6/06	1	1 24.0	193.00	9.74 X	0	0	96.9%
6/07	1	1 24.0	202.40	9.24 X	1	1	98.5%
6/08	1	1 24.0	207.30	8.68 X	0	0	98.5%
6/09	1	1 24.0	201.40	8.89 X	0	0	98.5%
6/10	1	1 24.0	223.90	8.58 X	0	0	98.5%
6/11	1	1 24.0	228.00	8.42 X	0	0	98.5%
6/12	1	1 24.0	223.80	8.67 X	0	0	98.5%
6/13	1	1 24.0	204.00	9.36 X	0	0	98.5%
6/14	1	1 21.0	179.30	9.65 X	0	0	98.5%
6/15	1	1 24.0	178.10	9.71 X	0	0	98.5%
6/16	1	1 24.0	176.90	10.57 X	0	0	98.5%
6/17	1	1 24.0	181.50	10.14 X	0	0	98.5%
6/18	1	1 24.0	173.20	9.58 X	0	0	98.5%
6/19	1	1 24.0	188.80	9.16 X	0	0	98.5%
6/20	1	1 24.0	204.40	8.90 X	0	0	98.5%
6/21	1	1 24.0	187.40	9.50 X	0	0	98.5%
6/22	1	1 24.0	185.00	9.68 X	0	0	98.5%

***** CONTINUED *****

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JOHN DAY

* * *

STEELHEAD

* * *

LI-7K-1 SU STEELHEAD LOT ID # 85163-04 4,038 RELEASED AT: BELOW PRST RAPI FROM: 5/15/85 TO 5/15/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW			DAILY COUNT	CUMULATIVE	
6/23	1	1	24.0	159.30	10.42 X	0	0	0	98.5%
6/24	1	1	24.0	154.60	10.87 X	0	0	0	98.5%
6/25	1	1	24.0	158.00	10.32 X	1	1	10	100.0%
TOTAL						56	56	680	

***** CONTINUED *****

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * STEELHEAD * * *

LI-7K-3 SU STEELHEAD LOT ID # 85163-05 4,022 RELEASED AT: BELOW PRST RAPI FROM: 5/16/85 TO 5/16/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER SAMPLLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID	RIVER FLOW	INDEX FLOW			DAILY COUNT	INDEX	
5/22	1	1	24.0	238.70	8.67 X	2	2	23	3.6X
5/23	1	1	24.0	229.50	8.71 X	3	3	34	8.9X
5/24	1	1	24.0	246.10	8.49 X	11	11	130	29.3X
5/25	1	1	24.0	253.90	8.11 X	14	14	173	56.4X
5/26	1	1	24.0	251.60	7.75 X	8	8	103	72.6X
5/27	1	1	24.0	230.00	8.09 X	1	1	12	74.5X
5/28	1	1	24.0	239.40	7.64 X	4	4	52	82.6X
5/29	7	1	10.0	251.80	3.14 X	0 *	0 *	0 *	82.6X
5/30	1	1	24.0	259.30	7.64 X	1	1	13	84.6X
5/31	1	1	24.0	233.50	8.05 X	3	3	37	90.4X
6/01	1	1	24.0	243.70	7.76 X	0	0	0	90.4X
6/02	1	1	24.0	234.80	8.13 X	1	1	12	92.3X
6/03	1	1	22.0	238.60	7.54 X	2	2	27	96.6X
6/04	1	1	24.0	257.20	7.62 X	0	0	0	96.6X
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *	96.6X
6/06	1	1	24.0	193.00	9.74 X	0	0	0	96.6X
6/07	1	1	24.0	202.40	9.24 X	0	0	0	96.6X
6/08	1	1	24.0	207.30	8.68 X	0	0	0	96.6X
6/09	1	1	24.0	201.40	8.89 X	0	0	0	96.6X
6/10	1	1	24.0	223.90	8.58 X	0	0	0	96.6X
6/11	1	1	24.0	228.00	8.42 X	1	1	12	98.4X
6/12	1	1	24.0	223.80	8.67 X	0	0	0	98.4X
6/13	1	1	24.0	204.00	9.36 X	0	0	0	98.4X
6/14	1	1	21.0	179.30	9.65 X	1	1	10	100.0X
TOTAL					52	52	638		

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gatewells sampled
 Hrs= Number of hours sampled
- (2) River Flow: Data acquired from CATCH DATA
- (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
- (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
- (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

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STEELHEAD

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RA-7K-1 SU STEELHEAD LOT ID # 85163-03 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	#D					DAILY COUNT		
5/18	1	1	24.0	208.80	8.29 X	1	1	12	1.8%
5/19	1	1	24.0	226.90	8.64 X	1	1	12	3.6%
5/20	1	1	24.0	236.10	8.05 X	10	10	124	22.5%
5/21	1	1	24.0	236.50	8.41 X	8	8	95	36.9%
5/22	1	1	24.0	238.70	8.67 X	9	9	104	52.7%
5/23	1	1	24.0	229.50	8.71 X	7	7	80	64.9%
5/24	1	1	24.0	246.10	8.49 X	8	8	94	79.2%
5/25	1	1	24.0	253.90	8.11 X	0	0	0	79.2%
5/26	1	1	24.0	251.60	7.75 X	7	7	90	92.9%
5/27	1	1	24.0	230.00	8.09 X	0	0	0	92.9%
5/28	1	1	24.0	239.40	7.64 X	0	0	0	92.9%
5/29	7	1	10.0	251.80	3.14 X	0 *	0 *	0 *	92.9%
5/30	1	1	24.0	259.30	7.64 X	0	0	0	92.9%
5/31	1	1	24.0	233.50	8.05 X	1	1	12	94.7%
6/01	1	1	24.0	243.70	7.76 X	0	0	0	94.7%
6/02	1	1	24.0	234.80	8.13 X	0	0	0	94.7%
6/03	1	1	22.0	238.60	7.54 X	0	0	0	94.7%
6/04	1	1	24.0	257.20	7.62 X	1	1	13	96.7%
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *	96.7%
6/06	1	1	24.0	193.00	9.74 X	0	0	0	96.7%
6/07	1	1	24.0	202.40	9.24 X	0	0	0	96.7%
6/08	1	1	24.0	207.30	8.68 X	0	0	0	96.7%
6/09	1	1	24.0	201.40	8.89 X	0	0	0	96.7%
6/10	1	1	24.0	223.90	8.58 X	0	0	0	96.7%
6/11	1	1	24.0	228.00	8.42 X	0	0	0	96.7%
6/12	1	1	24.0	223.00	8.67 X	0	0	0	96.7%
6/13	1	1	24.0	204.00	9.36 X	1	1	11	98.3%
6/14	1	1	21.0	179.30	9.65 X	0	0	0	98.3%
6/15	1	1	24.0	178.10	9.71 X	0	0	0	98.3%
6/16	1	1	24.0	176.90	10.57 X	0	0	0	98.3%
6/17	1	1	24.0	181.50	10.14 X	0	0	0	98.3%
6/18	1	1	24.0	173.20	9.58 X	0	0	0	98.3%
6/19	1	1	24.0	188.80	9.16 X	1	1	11	100.0%

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JOHN DAY

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STEELHEAD

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RA-7K-1 SU STEELHEAD LOT ID # 85163-03 4,041 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/13/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GW--HR.S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE		
						(1)	(2)	(3)

***** CONTINUED *****

1010	55	55	658
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY * * * STEELHEAD * * *

RD-7K-1 SU STEELHEAD LOT ID # 85163-06 4,047 RELEASED AT: BELOW PRST RAPI FROM: 5/17/85 TO 5/17/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)			(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		
	SC	#D	GW	HRS				DAILY COUNT	CUMULATIVE	
5/22	1	1	24.0	238.70	8.67 %	1	1	12	1.4%	
5/23	1	1	24.0	229.50	8.71 %	0	0	0	1.4%	
5/24	1	1	24.0	246.10	8.49 %	6	6	71	9.8%	
5/25	1	1	24.0	253.90	8.11 %	15	15	185	31.7%	
5/26	1	1	24.0	251.60	7.75 %	20	20	258	62.2%	
5/27	1	1	24.0	230.00	8.09 %	6	6	74	71.0%	
5/28	1	1	24.0	239.40	7.64 %	2	2	26	74.1%	
5/29	7	1	10.0	251.80	3.14 %	1 *	1 *	32 *	77.9%	
5/30	1	1	24.0	259.30	7.64 %	1	1	13	79.4%	
5/31	1	1	24.0	233.50	8.05 %	5	5	62	86.7%	
6/01	1	1	24.0	243.70	7.76 %	1	1	13	88.3%	
6/02	1	1	24.0	234.80	8.13 %	2	2	25	91.2%	
6/03	1	1	22.0	238.60	7.54 %	0	0	0	91.2%	
6/04	1	1	24.0	257.20	7.62 %	4	4	52	97.4%	
6/05	5	1	8.0	219.90	2.50 %	0 *	0 *	0 *	97.4%	
6/06	1	1	24.0	193.00	9.74 %	1	1	10	98.6%	
6/07	1	1	24.0	202.40	9.24 %	0	0	0	98.6%	
6/08	1	1	24.0	207.30	8.68 %	0	0	0	98.6%	
6/09	1	1	24.0	201.40	8.89 %	0	0	0	98.6%	
6/10	1	1	24.0	223.90	8.58 %	1	1	12	100.0%	
TOTAL						66	66	845		

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * STEELHEAD * * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	NUMBER COLLECTED	... DAILY COUNT	PASSAGE INDEX ... CUMULATIVE	
	SC	#	RIVER FLOW	INDEX FLOW				
5/18	1	1	24.0	208.80	8.29 X	1	12	0.7%
5/19	1	1	24.0	226.90	8.64 X	4	46	3.4%
5/20	1	1	24.0	236.10	8.05 X	0	0	3.4%
5/21	1	1	24.0	236.50	8.41 X	0	0	3.4%
5/22	1	1	24.0	238.70	8.67 X	2	23	4.8%
5/23	1	1	24.0	229.50	8.71 X	0	0	4.8%
5/24	1	1	24.0	246.10	8.49 X	0	0	4.8%
5/25	1	1	24.0	253.90	8.11 X	1	12	5.5%
5/26	1	1	24.0	251.60	7.75 X	3	39	7.8%
5/27	1	1	24.0	230.00	8.09 X	2	25	9.3%
5/28	1	1	24.0	239.40	7.64 X	6	79	14.0%
5/29	7	1	10.0	251.80	3.14 X	1 *	32 *	15.9%
5/30	1	1	24.0	259.30	7.64 X	22	288	33.0%
5/31	1	1	24.0	233.50	8.05 X	21	261	48.5%
6/01	1	1	24.0	243.70	7.76 X	5	64	52.3%
6/02	1	1	24.0	234.80	8.13 X	17	209	64.8%
6/03	1	1	22.0	238.60	7.54 X	4	53	67.9%
6/04	1	1	24.0	257.20	7.62 X	9	118	74.9%
6/05	5	1	8.0	219.90	2.50 X	3 *	120 *	82.1%
6/06	1	1	24.0	193.00	9.74 X	2	21	83.3%
6/07	1	1	24.0	202.40	9.24 X	5	54	86.5%
6/08	1	1	24.0	207.30	8.68 X	1	12	87.2%
6/09	1	1	24.0	201.40	8.89 X	1	11	87.9%
6/10	1	1	24.0	223.90	8.58 X	4	47	90.7%
6/11	1	1	24.0	228.00	8.42 X	3	36	92.8%
6/12	1	1	24.0	223.80	8.67 X	1	12	93.5%
6/13	1	1	24.0	204.00	9.36 X	0	0	93.5%
6/14	1	1	21.0	179.30	9.65 X	3	31	95.4%
6/15	1	1	24.0	178.10	9.71 X	0	0	95.4%
6/16	1	1	24.0	176.90	10.57 X	0	0	95.4%
6/17	1	1	24.0	181.50	10.14 X	0	0	95.4%
6/18	1	1	24.0	173.20	9.58 X	3	31	97.2%
6/19	1	1	24.0	188.80	9.16 X	1	11	97.9%
6/20	1	1	24.0	204.40	8.90 X	1	11	98.5%
6/21	1	1	24.0	187.40	9.50 X	0	0	98.5%

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JOHN DAY

* * * STEELHEAD * * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		(2)	(3)	(4)		
	SC	ID	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** CONTINUED *****

6/22	1	1	24.0	185.00	9.68 X	0	0	0	98.5X
6/23	1	1	24.0	159.30	10.42 X	0	0	0	98.5X
6/24	1	1	24.0	154.60	10.87 X	1	1	9	99.0X
6/25	1	1	24.0	158.00	10.32 X	0	0	0	99.0X
6/26	1	1	24.0	146.70	10.91 X	1	1	9	99.6X
6/27	1	1	24.0	142.40	10.67 X	0	0	0	99.6X
6/28	1	1	24.0	142.00	11.13 X	0	0	0	99.6X
6/29	1	1	24.0	120.50	12.95 X	0	0	0	99.6X
6/30	1	1	24.0	114.50	12.84 X	0	0	0	99.6X
7/01	1	1	24.0	132.30	11.87 X	0	0	0	99.6X
7/02	1	1	24.0	138.30	11.14 X	0	0	0	99.6X
7/03	1	1	24.0	169.20	9.99 X	0	0	0	99.6X
7/04	1	1	24.0	135.30	12.20 X	0	0	0	99.6X
7/05	1	1	24.0	124.40	11.58 X	0	0	0	99.6X
7/06	1	1	24.0	123.30	11.35 X	0	0	0	99.6X
7/07	1	1	24.0	130.10	11.61 X	0	0	0	99.6X
7/08	1	1	24.0	117.40	15.84 X	0	0	0	99.6X
7/09	1	1	24.0	115.40	12.22 X	0	0	0	99.6X
7/10	1	1	24.0	108.50	13.27 X	0	0	0	99.6X
7/11	1	1	20.0	124.40	11.74 X	0	0	0	99.6X
7/12	1	1	19.0	112.90	12.67 X	0	0	0	99.6X
7/13	1	1	24.0	109.40	13.44 X	0	0	0	99.6X
7/14	1	1	24.0	101.40	15.09 X	0	0	0	99.6X
7/15	1	1	24.0	90.60	16.34 X	0	0	0	99.6X
7/16	1	1	24.0	69.80	18.91 X	0	0	0	99.6X
7/17	1	1	24.0	90.00	15.22 X	0	0	0	99.6X
7/18	1	1	24.0	120.60	13.76 X	0	0	0	99.6X
7/19	1	1	23.0	120.70	13.67 X	0	0	0	99.6X
7/20	1	1	24.0	127.00	13.07 X	0	0	0	99.6X
7/21	1	1	24.0	97.70	16.07 X	0	0	0	99.6X
7/22	1	1	24.0	88.80	16.78 X	0	0	0	99.6X
7/23	1	1	24.0	92.00	15.54 X	0	0	0	99.6X
7/24	5	1	21.0	92.70	15.43 X	0 *	0 *	0 *	99.6X
7/25	1	1	24.0	104.50	15.31 X	0	0	0	99.6X

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JOHN DAY

*** STEELHEAD ***

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)	(2)	(3)	(4)		
	.. PARAMETERS .. SC ID GW USGS	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ... DAILY COUNT CUMULATIVE

***** C O N T I N U E D *****

7/26	1	1	24.0	96.10	14.78 %	0	0	0	99.6%
7/27	1	1	24.0	83.80	17.30 %	0	0	0	99.6%
7/28	1	1	24.0	68.60	19.83 %	0	0	0	99.6%
7/29	1	1	24.0	73.90	18.54 %	0	0	0	99.6%
7/30	1	1	24.0	78.80	16.88 %	0	0	0	99.6%
7/31	1	1	24.0	72.50	18.76 %	0	0	0	99.6%
8/01	1	1	24.0	82.30	16.89 %	0	0	0	99.6%
8/02	1	1	22.0	100.80	14.38 %	0	0	0	99.6%
8/03	1	1	24.0	100.80	13.69 %	0	0	0	99.6%
8/04	1	1	24.0	97.40	14.99 %	0	0	0	99.6%
8/05	1	1	24.0	90.10	16.43 %	0	0	0	99.6%
8/06	1	1	24.0	104.20	14.01 %	0	0	0	99.6%
8/07	1	1	24.0	98.60	14.81 %	0	0	0	99.6%
8/08	1	1	24.0	107.10	13.45 %	0	0	0	99.6%
8/09	1	1	24.0	102.00	18.53 %	0	0	0	99.6%
8/10	1	1	24.0	89.40	14.43 %	0	0	0	99.6%
8/11	1	1	24.0	75.00	18.40 %	0	0	0	99.6%
8/12	1	1	24.0	78.30	18.77 %	0	0	0	99.6%
8/13	1	1	24.0	94.60	15.12 %	0	0	0	99.6%
8/14	1	1	22.0	90.60	16.45 %	0	0	0	99.6%
8/15	1	1	23.0	107.60	12.36 %	0	0	0	99.6%
8/16	1	1	23.0	104.50	13.97 %	0	0	0	99.6%
8/17	1	1	24.0	108.50	13.82 %	0	0	0	99.6%
8/18	1	1	24.0	79.40	18.26 %	0	0	0	99.6%
8/19	5	1	18.0	78.50	15.41 %	0 *	0 *	0 *	99.6%
8/20	5	0.0	98.60	—	— *	— *	— *	— *	99.6%
8/21	5	1	16.0	81.70	12.97 %	0 *	0 *	0 *	99.6%
8/22	1	1	24.0	97.30	14.18 %	1	1	7	100.0%

***** C O N T I N U E D *****

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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JOHN DAY * * * STEELHEAD * * *

LA-7U-1 SU STEELHEAD LOT ID # 85152-03 30,378 RELEASED AT: METHOW R FROM: 5/14/85 TO 5/14/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE	SAMPLE (1) .. PARAMETERS ..	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE
1985	SC=40-GW-HR.S					

***** CONTINUED *****

1010		129	129	1.683
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * STEELHEAD * * *

RA-7U-1 SU STEELHEAD LOT ID # 85152-01 30,479 RELEASED AT: METHOW R FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		RIVER FLOW	(2) INDEX FLOW	(3) NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
	SC	ID					GU	HR	S
5/17	1	1	24.0	248.90	7.87 X	3	3	38	1.0X
5/18	1	1	24.0	208.80	8.29 X	26	26	314	9.4X
5/19	1	1	24.0	226.90	8.64 X	39	39	451	21.5X
5/20	1	1	24.0	236.10	8.05 X	23	23	286	29.2X
5/21	1	1	24.0	236.50	8.41 X	21	21	250	35.9X
5/22	1	1	24.0	238.70	8.67 X	38	38	438	47.6X
5/23	1	1	24.0	229.50	8.71 X	25	25	287	55.3X
5/24	1	1	24.0	246.10	8.49 X	21	21	247	61.9X
5/25	1	1	24.0	253.90	8.11 X	23	23	284	69.6X
5/26	1	1	24.0	251.60	7.75 X	25	25	323	78.2X
5/27	1	1	24.0	230.00	8.09 X	6	6	74	80.2X
5/28	1	1	24.0	239.40	7.64 X	9	9	118	83.4X
5/29	7	1	10.0	251.80	3.14 X	1 *	1 *	32 *	84.2X
5/30	1	1	24.0	259.30	7.64 X	8	8	105	87.0X
5/31	1	1	24.0	233.50	8.05 X	9	9	112	90.0X
6/01	1	1	24.0	243.70	7.76 X	5	5	64	91.7X
6/02	1	1	24.0	234.80	8.13 X	8	8	98	94.4X
6/03	1	1	22.0	238.60	7.54 X	2	2	27	95.1X
6/04	1	1	24.0	257.20	7.62 X	4	4	52	96.5X
6/05	5	1	8.0	219.90	2.50 X	0 *	0 *	0 *	96.5X
6/06	1	1	24.0	193.00	9.74 X	0	0	0	96.5X
6/07	1	1	24.0	202.40	9.24 X	3	3	32	97.3X
6/08	1	1	24.0	207.30	8.68 X	1	1	12	97.7X
6/09	1	1	24.0	201.40	8.89 X	2	2	22	98.3X
6/10	1	1	24.0	223.90	8.58 X	1	1	12	98.6X
6/11	1	1	24.0	228.00	8.42 X	1	1	12	98.9X
6/12	1	1	24.0	223.80	8.67 X	0	0	0	98.9X
6/13	1	1	24.0	204.00	9.36 X	0	0	0	98.9X
6/14	1	1	21.0	179.30	9.65 X	0	0	0	98.9X
6/15	1	1	24.0	178.10	9.71 X	0	0	0	98.9X
6/16	1	1	24.0	176.90	10.57 X	0	0	0	98.9X
6/17	1	1	24.0	181.50	10.14 X	1	1	10	99.2X
6/18	1	1	24.0	173.20	9.58 X	1	1	10	99.4X
6/19	1	1	24.0	188.80	9.16 X	0	0	0	99.4X
6/20	1	1	24.0	204.40	8.90 X	1	1	11	99.7X

***** CONTINUED *****

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 FISH PASSAGE DATA SYSTEM
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JOHN DAY

STEELHEAD

RA-7U-1 SU STEELHEAD LOT ID # 85152-01 30,479 RELEASED AT: METHOW R FROM: 5/06/85 TO 5/06/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE SC	PARAMETERS #D GW HRS	(2) RIVER FLOW	(3) INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ...		
							DAILY COUNT	CUMULATIVE	

***** CONTINUED *****

6/21	1	1	24.0	187.40	9.50 X	0	0	0	99.7%
6/22	1	1	24.0	185.00	9.68 X	0	0	0	99.7%
6/23	1	1	24.0	159.30	10.42 X	0	0	0	99.7%
6/24	1	1	24.0	154.60	10.87 X	0	0	0	99.7%
6/25	1	1	24.0	158.00	10.32 X	0	0	0	99.7%
6/26	1	1	24.0	146.70	10.91 X	0	0	0	99.7%
6/27	1	1	24.0	142.40	10.67 X	0	0	0	99.7%
6/28	1	1	24.0	142.00	11.13 X	0	0	0	99.7%
6/29	1	1	24.0	120.50	12.95 X	0	0	0	99.7%
6/30	1	1	24.0	114.50	12.84 X	0	0	0	99.7%
7/01	1	1	24.0	132.30	11.87 X	0	0	0	99.7%
7/02	1	1	24.0	138.30	11.14 X	0	0	0	99.7%
7/03	1	1	24.0	169.20	9.99 X	1	1	10	100.0%
TOTAL					308	308	3,731		

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled

(2) River Flow: Data acquired from CATCH DATA

(3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW

(4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)

(*) Sample deviates from "normal" conditions (i.e. SC code > 1)

NATIONAL MARINE FISHERIES SERVICE
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 * authorization and/or clearance *

JOHN DAY

* * *

STEELHEAD

* * *

RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...		(4) CUMULATIVE
	SC	ID					DAILY COUNT		
5/18	1	1	24.0	208.90	8.29 X	1	1	12	0.5%
5/19	1	1	24.0	226.90	8.64 X	0	0	0	0.5%
5/20	1	1	24.0	236.10	8.05 X	0	0	0	0.5%
5/21	1	1	24.0	236.50	8.41 X	2	2	24	1.5%
5/22	1	1	24.0	238.70	8.67 X	4	4	46	3.5%
5/23	1	1	24.0	229.50	8.71 X	22	22	253	14.3%
5/24	1	1	24.0	246.10	8.49 X	17	17	200	22.8%
5/25	1	1	24.0	253.90	8.11 X	21	21	259	33.9%
5/26	1	1	24.0	251.60	7.75 X	25	25	323	47.7%
5/27	1	1	24.0	230.00	8.09 X	6	6	74	50.8%
5/28	1	1	24.0	239.40	7.64 X	9	9	118	55.8%
5/29	7	1	10.0	251.80	3.14 X	1 *	1 *	32 *	57.2%
5/30	1	1	24.0	259.30	7.64 X	15	15	196	65.6%
5/31	1	1	24.0	233.50	8.05 X	16	16	199	74.1%
6/01	1	1	24.0	243.70	7.76 X	6	6	77	77.3%
6/02	1	1	24.0	234.80	8.13 X	6	6	74	80.5%
6/03	1	1	22.0	238.60	7.54 X	4	4	53	82.8%
6/04	1	1	24.0	257.20	7.62 X	11	11	144	88.9%
6/05	5	1	8.0	219.90	2.50 X	2 *	2 *	80 *	92.3%
6/06	1	1	24.0	193.00	9.74 X	5	5	51	94.5%
6/07	1	1	24.0	202.40	9.24 X	3	3	32	95.9%
6/08	1	1	24.0	207.30	8.68 X	1	1	12	96.4%
6/09	1	1	24.0	201.40	8.89 X	0	0	0	96.4%
6/10	1	1	24.0	223.90	8.58 X	0	0	0	96.4%
6/11	1	1	24.0	228.00	8.42 X	0	0	0	96.4%
6/12	1	1	24.0	223.80	8.67 X	0	0	0	96.4%
6/13	1	1	24.0	204.00	9.36 X	0	0	0	96.4%
6/14	1	1	21.0	179.30	9.65 X	1	1	10	96.8%
6/15	1	1	24.0	178.10	9.71 X	0	0	0	96.8%
6/16	1	1	24.0	176.90	10.57 X	1	1	9	97.2%
6/17	1	1	24.0	181.50	10.14 X	5	5	49	99.3%
6/18	1	1	24.0	173.20	9.58 X	0	0	0	99.3%
6/19	1	1	24.0	188.80	9.16 X	0	0	0	99.3%
6/20	1	1	24.0	204.40	8.90 X	0	0	0	99.3%
6/21	1	1	24.0	187.40	9.50 X	0	0	0	99.3%

***** CONTINUED *****

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JOHN DAY

*** STEELHEAD ***

RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE 1985	SAMPLE .. PARAMETERS .. SC--#D--GW--HR.S	RIVER FLOW	(1)	(2)	(3)	NUMBER NUMBER COLLECTED	(4)	
			SC	D	GW		HR.S	INDEX FLOW

***** C O N T I N U E D *****

6/22	1	1	24.0	185.00	9.68 %	0	0	0	99.3%
6/23	1	1	24.0	159.30	10.42 %	0	0	0	99.3%
6/24	1	1	24.0	154.60	10.87 %	0	0	0	99.3%
6/25	1	1	24.0	158.00	10.32 %	1	1	10	99.7%
6/26	1	1	24.0	146.70	10.91 %	0	0	0	99.7%
6/27	1	1	24.0	142.40	10.67 %	0	0	0	99.7%
6/28	1	1	24.0	142.00	11.13 %	0	0	0	99.7%
6/29	1	1	24.0	120.50	12.95 %	0	0	0	99.7%
6/30	1	1	24.0	114.50	12.84 %	0	0	0	99.7%
7/01	1	1	24.0	132.30	11.87 %	0	0	0	99.7%
7/02	1	1	24.0	138.30	11.14 %	0	0	0	99.7%
7/03	1	1	24.0	169.20	9.99 %	0	0	0	99.7%
7/04	1	1	24.0	135.30	12.20 %	0	0	0	99.7%
7/05	1	1	24.0	124.40	11.58 %	0	0	0	99.7%
7/06	1	1	24.0	123.30	11.35 %	0	0	0	99.7%
7/07	1	1	24.0	130.10	11.61 %	0	0	0	99.7%
7/08	1	1	24.0	117.40	15.84 %	0	0	0	99.7%
7/09	1	1	24.0	115.40	12.22 %	0	0	0	99.7%
7/10	1	1	24.0	108.50	13.27 %	0	0	0	99.7%
7/11	1	1	20.0	124.40	11.74 %	0	0	0	99.7%
7/12	1	1	19.0	112.90	12.67 %	0	0	0	99.7%
7/13	1	1	24.0	109.40	13.44 %	0	0	0	99.7%
7/14	1	1	24.0	101.40	15.09 %	0	0	0	99.7%
7/15	1	1	24.0	90.60	16.34 %	0	0	0	99.7%
7/16	1	1	24.0	69.80	18.91 %	0	0	0	99.7%
7/17	1	1	24.0	90.00	15.22 %	1	1	7	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
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JOHN DAY * * * STEELHEAD * * *

RA-7U-3 SU STEELHEAD LOT ID # 85152-02 30,351 RELEASED AT: METHOW R FROM: 5/10/85 TO 5/10/85
 AGENCY: WDG HATCHERY: WELLS-WDG

DATE	SAMPLE .. PARAMETERS ..	(1) RIVER FLOW	(2) INDEX FLOW	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
1985	SC-#D-GW-HRS						DAILY COUNT	CUMULATIVE

***** C O N T I N U E D *****

TOTAL	186	186	2,344
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * * CHINOOK O'S * * *

RA-T -1 FA CHINOOK LOT ID # 85109-01 78,312 RELEASED AT: PRIEST RAPIDS H FROM: 6/12/85 TO 6/12/85
 AGENCY: WDF HATCHERY: PRIEST RAPIDS H

DATE 1985	SAMPLE (1)		RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	(4)	
	SC	ID	GL	H.S.	... DAILY COUNT	PASSAGE INDEX	... CUMULATIVE	
6/28	1	1	24.0	142.00	11.13 X	1	1	2.3%
6/29	1	1	24.0	120.50	12.95 X	0	0	2.3%
6/30	1	1	24.0	114.50	12.84 X	0	0	2.3%
7/01	1	1	24.0	132.30	11.87 X	0	0	2.3%
7/02	1	1	24.0	138.30	11.14 X	0	0	2.3%
7/03	1	1	24.0	169.20	9.99 X	0	0	2.3%
7/04	1	1	24.0	135.30	12.20 X	1	1	4.3%
7/05	1	1	24.0	124.40	11.58 X	0	0	4.3%
7/06	1	1	24.0	123.30	11.35 X	0	0	4.3%
7/07	1	1	24.0	130.10	11.61 X	0	0	4.3%
7/08	1	1	24.0	117.40	15.84 X	0	0	4.3%
7/09	1	1	24.0	115.40	12.22 X	0	0	4.3%
7/10	1	1	24.0	108.50	13.27 X	2	2	8.1%
7/11	1	1	20.0	124.40	11.74 X	0	0	8.1%
7/12	1	1	19.0	112.90	12.67 X	0	0	8.1%
7/13	1	1	24.0	109.40	13.44 X	0	0	8.1%
7/14	1	1	24.0	101.40	15.09 X	0	0	8.1%
7/15	1	1	24.0	90.60	16.34 X	7	7	19.0%
7/16	1	1	24.0	69.80	18.91 X	17	17	41.8%
7/17	1	1	24.0	90.00	15.22 X	3	3	46.8%
7/18	1	1	24.0	120.60	13.76 X	1	1	48.6%
7/19	1	1	23.0	120.70	13.67 X	4	4	55.9%
7/20	1	1	24.0	127.00	13.07 X	2	2	59.7%
7/21	1	1	24.0	97.70	16.07 X	2	2	62.8%
7/22	1	1	24.0	88.80	16.78 X	2	2	65.8%
7/23	1	1	24.0	92.00	15.54 X	1	1	67.3%
7/24	5	1	21.0	92.70	15.43 X	2 *	2 *	70.6%
7/25	1	1	24.0	104.50	15.31 X	1	1	72.4%
7/26	1	1	24.0	96.10	14.78 X	1	1	74.2%
7/27	1	1	24.0	83.80	17.30 X	1	1	75.7%
7/28	1	1	24.0	68.60	19.83 X	0	0	75.7%
7/29	1	1	24.0	73.90	18.54 X	0	0	75.7%
7/30	1	1	24.0	78.80	16.88 X	0	0	75.7%
7/31	1	1	24.0	72.50	18.76 X	2	2	78.5%
8/01	1	1	24.0	82.30	16.89 X	3	3	83.0%
8/02	1	1	22.0	100.80	14.38 X	3	3	88.4%

***** CONTINUED *****

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JOHN DAY *** CHINOOK O'S ***

RA-T-1 FA CHINOOK LOT ID # 85109-01 78,312 RELEASED AT: PRIEST RAPIDS H FROM: 6/12/85 TO 6/12/85
 AGENCY: WDF HATCHERY: PRIEST RAPIDS H

DATE 1985	SAMPLE .. PARAMETERS .. SC-ID-GW-HB-S	RIVER FLOW	INDEX FLOW	NUMBER NUMBER SAMPLED	NUMBER COLLECTED	(4) ... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	
						... PASSAGE INDEX ... DAILY COUNT CUMULATIVE	(4)

***** C O N T I N U E D *****

8/03	1	1	24.0	100.80	13.69 %	0	0	0	88.4%
8/04	1	1	24.0	97.40	14.99 %	1	1	7	90.1%
8/05	1	1	24.0	90.10	16.43 %	0	0	0	90.1%
8/06	1	1	24.0	104.20	14.01 %	0	0	0	90.1%
8/07	1	1	24.0	98.60	14.81 %	0	0	0	90.1%
8/08	1	1	24.0	107.10	13.45 %	0	0	0	90.1%
8/09	1	1	24.0	102.00	18.53 %	0	0	0	90.1%
8/10	1	1	24.0	89.40	14.43 %	1	1	7	91.9%
8/11	1	1	24.0	75.00	18.40 %	0	0	0	91.9%
8/12	1	1	24.0	78.30	18.77 %	0	0	0	91.9%
8/13	1	1	24.0	94.60	15.12 %	0	0	0	91.9%
8/14	1	1	22.0	90.60	16.45 %	2	2	12	94.9%
8/15	1	1	23.0	107.60	12.36 %	0	0	0	94.9%
8/16	1	1	23.0	104.50	13.97 %	0	0	0	94.9%
8/17	1	1	24.0	108.50	13.82 %	0	0	0	94.9%
8/18	1	1	24.0	79.40	18.26 %	0	0	0	94.9%
8/19	5	1	18.0	78.50	15.41 %	0 *	0 *	0 *	94.9%
8/20	5	0.0	98.60	—	— *	— *	— *	— *	94.9%
8/21	5	1	16.0	81.70	12.97 %	0 *	0 *	0 *	94.9%
8/22	1	1	24.0	97.30	14.18 %	0	0	0	94.9%
8/23	1	1	24.0	99.50	14.37 %	0	0	0	94.9%
8/24	1	1	24.0	83.10	16.97 %	0	0	0	94.9%
8/25	1	1	24.0	68.70	20.38 %	0	0	0	94.9%
8/26	1	1	24.0	88.20	16.55 %	0	0	0	94.9%
8/27	1	1	24.0	88.60	22.35 %	0	0	0	94.9%
8/28	1	1	24.0	94.80	15.72 %	0	0	0	94.9%
8/29	1	1	24.0	114.80	13.68 %	2	2	15	98.7%
8/30	1	1	24.0	70.20	19.23 %	1	1	5	100.0%

***** C O N T I N U E D *****

NATIONAL MARINE FISHERIES SERVICE
 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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 * authorization and/or clearance *

JOHN DAY * * * CHINOOK O'S * * *

RA-T -1 FA CHINOOK LOT ID # 85109-01 78,312 RELEASED AT: PRIEST RAPIDS H FROM: 6/12/85 TO 6/12/85
 AGENCY: WDF HATCHERY: PRIEST RAPIDS H

DATE 1985	SAMPLE (1)	(2)	(3)	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE INDEX ...	(4)
	.. PARAMETERS ..	RIVER SC-#D-GW-HR:S	INDEX FLOW			DAILY COUNT	CUMULATIVE

***** CONTINUED *****

TOTAL		63	63	395
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- (1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

SOCKEYE

LA-IL-3 SOCKEYE LOT ID # 85303-04 6,451 RELEASED AT: BELOW PRST RAPI FROM: 5/13/85 TO 5/19/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)		(2)	(3)	(4)			
	SC	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	... PASSAGE DAILY COUNT	INDEX ... CUMULATIVE
5/24	1	1	24.0	246.10	8.49 %	1	1	12 3.0%
5/25	1	1	24.0	253.90	8.11 %	0	0	0 3.0%
5/26	1	1	24.0	251.60	7.75 %	0	0	0 3.0%
5/27	1	1	24.0	230.00	8.09 %	3	3	37 12.1%
5/28	1	1	24.0	239.40	7.64 %	6	6	79 31.7%
5/29	7	1	10.0	251.80	3.14 %	0 *	0 *	0 * 31.7%
5/30	1	1	24.0	259.30	7.64 %	5	5	65 47.8%
5/31	1	1	24.0	233.50	8.05 %	3	3	37 56.9%
6/01	1	1	24.0	243.70	7.76 %	1	1	13 60.1%
6/02	1	1	24.0	234.80	8.13 %	3	3	37 69.3%
6/03	1	1	22.0	238.60	7.54 %	0	0	0 69.3%
6/04	1	1	24.0	257.20	7.62 %	1	1	13 72.5%
6/05	5	1	8.0	219.90	2.50 %	0 *	0 *	0 * 72.5%
6/06	1	1	24.0	193.00	9.74 %	2	2	21 77.7%
6/07	1	1	24.0	202.40	9.24 %	4	4	43 88.4%
6/08	1	1	24.0	207.30	8.68 %	2	2	23 94.1%
6/09	1	1	24.0	201.40	8.89 %	0	0	0 94.1%
6/10	1	1	24.0	223.90	8.58 %	1	1	12 97.0%
6/11	1	1	24.0	228.00	8.42 %	0	0	0 97.0%
6/12	1	1	24.0	223.80	8.67 %	1	1	12 100.0%
TOTAL					33	33	404	

- (1) Sample parameters: SC = Sample quality code
 GW = Number of gateways sampled \$D = Number of accumulated days for sample
 Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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 FISH PASSAGE DATA SYSTEM
 * * Brand Recapture Summary * *

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JOHN DAY * * * SOCKEYE * * *

LA-IN-3 SOCKEYE LOT ID # 85303-05 10,403 RELEASED AT: BELOW PRST RAPI FROM: 5/20/85 TO 5/26/85
 AGENCY: NMFS HATCHERY: FROM RIVER

DATE 1985	SAMPLE (1)			(2)		(3)		... PASSAGE DAILY COUNT	INDEX CUMULATIVE
	SC	ID	GH	UB,S	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED	
5/27	1	1	24.0	230.00	8.09 X		3	3	5.0%
5/28	1	1	24.0	239.40	7.64 X		0	0	5.0%
5/29	7	1	10.0	251.80	3.14 X		0 *	0 *	5.0%
5/30	1	1	24.0	259.30	7.64 X		5	5	13.8%
5/31	1	1	24.0	233.50	8.05 X		10	10	30.7%
6/01	1	1	24.0	243.70	7.76 X		8	8	44.6%
6/02	1	1	24.0	234.80	8.13 X		8	8	57.9%
6/03	1	1	22.0	238.60	7.54 X		2	2	61.6%
6/04	1	1	24.0	257.20	7.62 X		5	5	70.6%
6/05	5	1	8.0	219.90	2.50 X		0 *	0 *	70.6%
6/06	1	1	24.0	193.00	9.74 X		4	4	76.1%
6/07	1	1	24.0	202.40	9.24 X		3	3	80.5%
6/08	1	1	24.0	207.30	8.68 X		5	5	88.3%
6/09	1	1	24.0	201.40	8.89 X		3	3	92.9%
6/10	1	1	24.0	223.90	8.58 X		1	1	94.6%
6/11	1	1	24.0	228.00	8.42 X		1	1	96.2%
6/12	1	1	24.0	223.80	8.67 X		0	0	96.2%
6/13	1	1	24.0	204.00	9.36 X		0	0	96.2%
6/14	1	1	21.0	179.30	9.65 X		1	1	97.6%
6/15	1	1	24.0	178.10	9.71 X		0	0	97.6%
6/16	1	1	24.0	176.90	10.57 X		0	0	97.6%
6/17	1	1	24.0	181.50	10.14 X		0	0	97.6%
6/18	1	1	24.0	173.20	9.58 X		0	0	97.6%
6/19	1	1	24.0	188.80	9.16 X		0	0	97.6%
6/20	1	1	24.0	204.40	8.90 X		0	0	97.6%
6/21	1	1	24.0	187.40	9.50 X		0	0	97.6%
6/22	1	1	24.0	185.00	9.68 X		0	0	97.6%
6/23	1	1	24.0	159.30	10.42 X		0	0	97.6%
6/24	1	1	24.0	154.60	10.87 X		0	0	97.6%
6/25	1	1	24.0	158.00	10.32 X		1	1	98.9%
6/26	1	1	24.0	146.70	10.91 X		0	0	98.9%
6/27	1	1	24.0	142.40	10.67 X		0	0	98.9%
6/28	1	1	24.0	142.00	11.13 X		0	0	98.9%
6/29	1	1	24.0	120.50	12.95 X		0	0	98.9%
6/30	1	1	24.0	114.50	12.84 X		0	0	98.9%

***** CONTINUED *****

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FISH PASSAGE DATA SYSTEM

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JOHN DAY * * * **SOCKEYE** * * *

	SAMPLE (1)	(2)	(3)		(4)
DATE	.. PARAMETERS ..	RIVER	INDEX	NUMBER	NUMBER
1985	SC #D-GW-HR,S	FLOW	FLOW	SAMPLED	COLLECTED
					... PASSAGE INDEX ...
					DAILY COUNT CUMULATIVE

7/01	1	1	24.0	132.30	11.87 %	0	0	0	98.9%
7/02	1	1	24.0	138.30	11.14 %	0	0	0	98.9%
7/03	1	1	24.0	169.20	9.99 %	0	0	0	98.9%
7/04	1	1	24.0	135.30	12.20 %	0	0	0	98.9%
7/05	1	1	24.0	124.40	11.58 %	0	0	0	98.9%
7/06	1	1	24.0	123.30	11.35 %	0	0	0	98.9%
7/07	1	1	24.0	130.10	11.61 %	0	0	0	98.9%
7/08	1	1	24.0	117.40	15.84 %	0	0	0	98.9%
7/09	1	1	24.0	115.40	12.22 %	0	0	0	98.9%
7/10	1	1	24.0	108.50	13.27 %	1	1	8	100.0%
TOTAL						61	61	737	

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

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JOHN DAY

* * *

SOCKEYE

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JOHN DAY * * * **SOCKEYE** * * *

SAMPLE (1)		(2)	(3)	(4)	
DATE	.. PARAMETERS ..	RIVER FLOW	INDEX FLOW	NUMBER SAMPLED	NUMBER COLLECTED
1985	SC-#D-GW-HB+S	FLOW	FLOW		
				... PASSAGE INDEX ...	DAILY COUNT CUMULATIVE

* * * * * CONTINUED * * * * *

TOTAL _____ 60 60 68

(1) Sample parameters: SC = Sample quality code #D = Number of accumulated days for sample
 GW = Number of gatewells sampled Hrs= Number of hours sampled
 (2) River Flow: Data acquired from CATCH DATA
 (3) Index Flow: (UNIT 3 FLOW) / RIVERFLOW
 (4) Passage Index: Calculated as the (number collected) / (100 * percent index flow)
 (*) Sample deviates from "normal" conditions (i.e. SC code > 1)

IV. REFERENCES CITED

Johnsen, Richard C. and Carol L. Ranck, 1985. Monitoring of downstream salmon and steelhead at federal hydroelectric facilities - 1985. National Marine Fisheries Service; Portland, Oregon; Annual Report of Project 84-14 (Agreement DE-AI79-85BP20733)