



Fish Passage Center

Weekly Report #01 - 18

July 13, 2001

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SIGNIFICANT POINTS

- **Mainstem migration flows continue to decline throughout the week, declining farther below the NMFS Biological Opinion target, than previous weeks.**
- **The Biological Opinion summer flow target for Lower Granite Dam of 50 kcfs began on June 20. Flows for the past week averaged 25.2 Kcfs.**
- **The Biological Opinion summer flow target for McNary Dam of 200 kcfs began on July 1. Flows for the past week averaged 84.5 Kcfs**

SUMMARY OF EVENTS:

Water Supply: For the July 1 thorough July 10 period precipitation was below average for the Columbia River above Grand Coulee at 17% and 38% of average for the Columbia River above The Dalles. Precipitation for the Snake River above Ice Harbor was 99% of average. The July "final" runoff volume forecast shows a decline in the runoff volume from the June "final" forecast. The summary of the Runoff Volume Forecasts is given in the following Table:

Site	May Final		June Final		July Final	
	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg
<i>Hungry Horse (Apr-Sep)</i>	1330	61	1300	60	1290	59
<i>Libby (April-Sep.)</i>	3740	55	3750	55	3570	53
<i>Grand Coulee (Jan-July)</i>	37800	60	36500	58	35900	57
<i>The Dalles (Jan-July)</i>	56500	53	55500	52	54700	52
<i>Brownlee (April-July)</i>	1950	34	1970	34	1720	30
<i>Dworshak (April-July)</i>	1440	53	1550	57	1430	53
<i>Lower Granite (Jan-July)</i>	14100	47	14800	50	14000	47

Reservoir Operations: With the exception of the Dworshak, federal operators and regulators continued to operate to refill system reservoirs. Over the past week, system reservoirs refilled as illustrated in the following table. Grand Coulee Reservoir filled over two feet this past week. Libby outflow has been a steady 6 Kcfs for bull trout purposes. Albeni Falls outflow is being adjusted to keep the project between 2062 and 2062.5 feet for summer recreation. Flow augmentation from Dworshak Reservoir for flow and temperature regulation began on July 2. Outflow from Dworshak is set to powerhouse capacity, which is presently 9.7 Kcfs. The reservoir drafted about 5.8 feet over the week.

The Upper Snake projects continued drafting pools for irrigation demands, to 45% of capacity on July 12. American Falls is at 38% of capacity, Palisades is at 25% of capacity and Jackson Lake is at 75% of capacity.

Reservoir	Elevations July 6 – July 12, 2001
Libby	2433.6 – 2435.02
Hungry Horse	3542.39 – 3543.03
Grand Coulee	1282.4 – 1284.3
Dworshak	1585.58 – 1579.76
Brownlee*	2074.29 – 2073.91

* Through midnight 7/11

Flows: The continuing priority for refill and the low runoff volume has resulted in mainstem migration flows far below the NMFS Biological Opinion requirement in all river reaches. For the week of July 6 through July 12, weekly average flows at Priest Rapids was 56.8 kcfs with the highest daily average flow of 72.1 kcfs occurring on July 10 and the lowest daily average flow occurring on of 40.5 kcfs occurring on July 12.

Daily average flows at Lower Granite Dam have remained fairly steady through the week due to flow augmentation from Dworshak Dam. The highest daily average flow of 29.3 kcfs occurred on July 6 and the lowest daily average flow of 25.2 occurred on July 10. The weekly average flow at Lower Granite Dam was 26.9 kcfs. The NMFS Biological Opinion summer flow target for Lower Granite Dam of 50 kcfs began on June 20.

The weekly average flow at McNary Dam have been 84.5 kcfs with the lowest daily average flow occurring on July 8 of 66.9 kcfs and the highest daily average flow of 97.4 occurring on July 10. A system operational request was submitted requesting that Grand Coulee stop refilling, pass inflow and draft to 1280 feet by July 22 to augment flows at McNary during this critical time period for fish passage in the lower Columbia River. Bonneville Power Administration agreed to stop refilling, but will not agree to draft the reservoir to 1280 feet by July 22 based on system reliability needs predicted using an analysis conducted by the Northwest Power Planning Council.

Flathead Lake is presently 15 inches below its full pool. A proposal has been made to the to refill the lake 0.5 feet by allowing it to capture salmon augmentation water from Hungry Horse. This would equate to five feet of storage from Hungry Horse. The agreement that was reached calls for a reduction of outflow from Kerr Dam until outflows reach 4 Kcfs where they will be held for the rest of the summer. In flows will start to match outflows in the next few days, which will stabilize the lake level.

Smolt Monitoring Program. Collection of subyearling chinook at Lower Granite Dam have dropped 33% from last week's average, with the latter three days of this week seeing collections below 10,000 fish per day. The large numbers of subyearling chinook arriving and passing Lower Granite Dam last week are now being seen at Little Goose and Lower Monumental dams (this week's average collection up over 200%). Subyearling chinook passage indices at Rock Island Dam averaged over 500 fish per day this week, up 160% from last week. Subyearling chinook passage indices at McNary Dam dropped 87% this week, and averaged only 60,200 fish per day. Flows in the lower Columbia River dropped 22% this week at McNary Dam, down to an average of 85 kcfs. Subyearling chinook passage indices at John Day Dam dropped 53% this week, and averaged 20,500 fish per day. Subyearling chinook passage indices rose 50% this week at Bonneville Dam, and averaged 40,700 fish per day.

Adult Fish Passage: At Bonneville Dam, the cumulative count of adult summer chinook salmon through July 12 was 60,294, about 2.6 times and 3.7 times greater than the respective Year 2000 and 10-year average. The adult chinook counts at Bonneville Dam ranged from a high of 1,220 to a low of 934 per day through the week. At The Dalles Dam, 54,079 adult summer chinook salmon have been counted, approximately 89.7% of the Bonneville count. The cumulative adult summer chinook salmon count at McNary Dam was 45,681 (minus 7/11 count), with 13,738 tallied at Ice Harbor (Snake River) and about 22,182 (through July 10) at Priest Rapids Dam (Mid-Columbia River). Numbers of adult chinook entering the Snake River continued to decline while the Priest Rapids counts averaged about 1,000 fish per day through the week. A couple of interest points: a summer chinook salmon that was PIT tagged at Wells Hatchery as a yearling fish in 1997 (length = 182 mm at time of tagging) was detected passing through the Bonneville adult fish facility on July 6, making it a 6-yr old fish. Two other PIT tagged summer chinook returned to the Bonneville adult

trap that were marked as subyearling fish in July/August 97 at the Rock Island trap, spending 4 years in the ocean and then returning in July 2001 as adult fish. According to CRITFC sampling at Bonneville Dam, about 1% of the summer chinook are 6-year old fish. To date, no known marked summer chinook have returned as 6-year old fish to the Snake River basin.

Steelhead passage at Bonneville Dam averaged 3,665 per day through the week ending July 12 with the steelhead count now at 66,953 which is 2.0 times the year 2000 count and 3.2 times greater than the 10-year average. The returns of unclipped (mostly wild) steelhead comprise about 36.1% of the total steelhead run past the project. This year's run of steelhead should exceed the pre-season estimate of 249,300 to Bonneville Dam. Water temperatures will certainly play an important role in passage of steelhead during this year when flows are at extreme low levels in the Columbia River. Some steelhead are already moving into the cooler tributaries that feed into the Bonneville pool based on the count differentials between Bonneville Dam and The Dalles and John Day dams. The Ice Harbor Dam count of steelhead averaged 349 per day for the week with the season total now 9,469, about 2.5 times greater than the 2000 and 10-year average. Steelhead counts at Mid-Columbia projects were increasing with 55 fish per day passing Priest Rapids Dam and moving upstream of that project; the count through July 11 was 1,047, close to double the previous year.

Adult sockeye passage at Bonneville Dam ranged from a high count of 1,198 to a low of 443, with the total count through July 12 of 112,259, about 1.2 times and 3.1 times greater than the respective 2000 count and 10-year average count. About 97,000 sockeye salmon have been counted at Priest Rapids Dam through July 11 with most of these sockeye continuing up into Lake Wenatchee or Lake Osoyoos basins. Sockeye passage is now peaking at the upper Mid-Columbia projects. About 75,000 have been counted at Rock Island Dam with about 62% of these fish counted at Rocky Reach Dam. Sockeye counted at Rocky Reach and Wells dams would be destined for Lake

Osoyoos. A small portion of the run will enter the Snake River with the Lower Granite count of 19 sockeye counted through July 12 (does not include video or night counts).

The return of coho salmon is estimated at 1.3 million to the mouth of the Columbia River; note that this includes both the early and late stock coho. No estimates have been made to Bonneville Dam as yet for adult coho salmon, but expectations are that the counts will be greater than in previous years.

Hatchery Releases – See the Hatchery Release Summary for the previous two-week and next two week projected releases for the Columbia River Basin above Bonneville Dam.

Snake River – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season.

Mid-Columbia [above McNary Dam] – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season.

Lower Columbia [McNary Dam to above Bonneville Dam]– Releases of yearling and subyearling chinook and coho salmon, and steelhead are completed for the 2001 migration season.

A summary of preliminary hatchery release numbers of anadromous salmonids for 2001 is given below. Some large differences in hatchery releases were evident in 2001 when compared to previous years. The first major difference is the reduced number of spring/summer chinook in the Snake River, about 4.1 million total. This brood cycle is from the adult spring/summer chinook returning in 1999 that totaled only 6,600 fish to Lower Granite Dam. The 2nd factor that accounts for the lower release numbers in 2001 is due to reduced numbers of “tule” fall chinook released from Spring Creek NFH (lower Columbia). The 2001 release from Spring Creek was about 6-7 million less than the normal release. Overall the Columbia River Hatcheries above Bonneville Dam released about 12 million less fish than in the previous two years.

Migration Year 2001 - Preliminary Numbers of Hatchery Reared Salmonids Released into Columbia River basin streams above Bonneville Dam.

	Tuesday 10-Jul-2001			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Total	16,968,047	23,590,164	30,828,652	71,386,863
Spring Chinook	2801410	3258547	5987494	12047451
Summer Chinook	1343943	4216806		5560749
Fall Chinook	2341500	12439000	17456464	32236964
Coho	582192	2142069	6791808	9516069
Winter Steelhead			67806	67806
Summer Steelhead	9812985	1292526	525080	11630591
Sockeye	86017	241216		327233

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary									
From:	6/29/01			to	7/12/01				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	24,000	06-01-01	07-06-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe Total					24,000				
NMFS	Lyons Ferry	CH0	FA	2001	7,500	06-01-01	07-06-01	Pittsburg Landing	Snake River
NMFS Total					7,500				
WDFW	Turtle Rock	CH0	SU	2001	450,000	06-29-01	06-29-01	Turtle Rock H	Mid-Columbia River
WDFW	Turtle Rock	CH0	SU	2001	600,000	06-29-01	06-29-01	Turtle Rock H	Mid-Columbia River
WDFW Total					1,050,000				
Grand Total					1,081,500				

Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/29/01	78.2	0.1	85.3	0.0	90.1	6.5	85.4	0.0	91.0	0.0	108.8	33.8	99.7	23.7
06/30/01	85.7	0.1	80.6	0.0	83.0	6.1	81.0	0.0	84.8	0.0	95.8	29.8	90.6	21.8
07/01/01	60.8	0.1	62.4	0.0	64.3	5.0	65.6	0.0	71.7	0.0	96.5	29.9	89.3	21.4
07/02/01	81.5	0.1	84.2	0.0	89.3	6.8	92.2	0.0	94.6	0.0	98.8	30.8	86.1	20.9
07/03/01	77.4	0.1	78.9	0.0	84.6	6.7	83.1	0.0	88.8	0.0	110.7	34.4	101.3	24.5
07/04/01	39.1	0.1	39.8	0.0	46.7	3.9	45.0	0.0	47.2	0.0	56.5	17.5	58.9	14.4
07/05/01	57.8	0.1	58.8	0.0	58.9	4.5	60.5	0.0	64.5	0.0	68.7	21.3	55.7	13.4
07/06/01	58.7	0.1	56.6	0.0	53.8	4.4	52.6	0.0	54.8	0.0	64.5	20.1	61.0	14.5
07/07/01	36.0	0.1	44.1	0.0	46.6	4.0	46.0	0.0	48.4	0.0	53.1	16.5	50.9	12.3
07/08/01	51.0	0.1	45.6	0.0	44.7	3.7	46.9	0.0	48.7	0.0	59.7	18.5	59.9	14.1
07/09/01	54.1	0.1	59.6	0.0	64.1	5.3	68.3	0.0	71.2	0.0	68.5	21.2	64.2	15.2
07/10/01	42.4	0.1	39.2	0.0	40.9	4.0	40.0	0.0	41.8	0.0	74.3	23.2	72.1	17.4
07/11/01	35.2	0.2	38.9	0.0	41.2	3.3	40.9	0.0	40.5	0.0	40.4	12.5	49.0	11.9
07/12/01	51.7	0.1	51.1	0.0	52.8	4.1	53.8	0.0	54.2	0.0	44.6	13.9	40.5	9.8

Daily Average Flow and Spill (in kcfs) at Snake Basin Projects

Date	Dworshak		Brownlee		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/29/01	1.7	0.0	7.5	7.6	27.9	0.0	28.8	0.0	29.4	0.0	28.7	0.0		
06/30/01	1.8	0.0	8.2	9.2	22.9	0.0	24.1	0.0	24.7	0.0	23.4	0.0		
07/01/01	1.8	0.0	7.2	9.2	23.6	0.0	24.6	0.0	25.3	0.0	25.3	0.0		
07/02/01	4.3	0.0	8.2	9.2	24.9	0.0	25.1	0.0	25.6	0.0	23.8	0.0		
07/03/01	5.0	0.0	7.2	9.2	25.1	0.0	26.7	0.0	29.2	0.0	28.8	0.0		
07/04/01	5.0	0.0	6.8	11.1	26.3	0.0	26.2	0.0	26.4	0.0	26.4	0.0		
07/05/01	6.5	0.0	7.9	10.7	25.4	0.0	25.6	0.0	25.6	0.0	23.7	0.0		
07/06/01	7.0	0.0	6.9	8.2	29.3	0.0	28.8	0.0	28.9	0.0	29.2	0.0		
07/07/01	9.0	0.0	7.3	7.5	26.2	0.0	27.0	0.0	29.0	0.0	27.4	0.0		
07/08/01	9.6	0.0	6.8	7.0	27.9	0.0	28.7	0.0	29.2	0.0	28.9	0.0		
07/09/01	9.7	0.0	7.4	7.2	25.5	0.0	26.2	0.0	27.3	0.0	27.1	0.0		
07/10/01	9.7	0.0	7.5	8.5	25.2	0.0	25.7	0.0	28.0	0.0	27.2	0.0		
07/11/01	9.7	0.0	9.1	9.2	26.0	0.0	26.4	0.0	26.7	0.0	25.8	0.0		
07/12/01	9.7	0.0	---	---	28.4	0.0	28.8	0.0	30.5	0.0	30.1	0.0		

Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
06/29/01	135.3	0.0	140.9	0.0	143.7	0.0	134.4	0.0	20.6	105.2
06/30/01	111.3	0.0	101.5	0.0	100.5	0.0	112.5	0.0	8.2	95.8
07/01/01	93.1	0.0	83.5	0.0	85.6	0.0	100.7	0.0	2.1	90.0
07/02/01	112.2	0.0	120.9	0.0	127.4	0.0	122.6	0.0	15.2	98.8
07/03/01	124.0	0.0	124.6	0.0	126.2	0.0	126.3	0.0	23.5	94.3
07/04/01	104.2	0.0	99.0	0.0	100.7	0.0	102.6	0.0	3.2	90.9
07/05/01	85.0	0.0	84.1	0.0	84.7	0.0	97.2	0.0	0.6	88.1
07/06/01	85.7	0.0	80.3	0.0	83.0	0.0	91.5	0.0	0.6	82.4
07/07/01	84.3	0.0	81.5	0.0	83.5	0.0	85.1	0.0	0.6	75.9
07/08/01	66.9	0.0	68.4	0.0	72.9	0.0	83.2	0.0	0.2	74.4
07/09/01	94.8	0.0	86.2	0.0	89.2	0.0	84.2	0.0	4.9	70.7
07/10/01	97.4	0.0	96.8	0.0	97.4	0.0	97.6	0.0	9.2	79.8
07/11/01	90.3	0.0	96.3	0.0	101.7	0.0	100.8	0.0	5.6	86.6
07/12/01	72.4	0.0	78.9	0.0	79.5	0.0	88.6	0.0	1.1	78.9

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			#	<u>Boundary</u>			#	<u>Grand Coulee</u>			#	<u>Grand C. Tlwr</u>			#	<u>Chief Joseph</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	105	105	106	24	105	106	107	24	107	107	108	24	106	106	107	22	106	107	107	23
6/30	105	105	105	23	106	107	107	24	107	108	108	24	106	106	107	22	107	107	107	24
7/1	105	105	106	24	106	107	108	24	107	107	108	24	106	107	108	22	107	107	108	23
7/2	107	108	108	24	107	107	108	24	107	107	108	24	106	106	107	22	108	108	109	23
7/3	107	108	108	24	107	109	109	24	107	107	107	24	106	107	107	23	108	108	109	23
7/4	108	108	108	24	108	109	110	24	108	108	108	24	107	107	108	19	108	109	109	23
7/5	108	108	108	24	108	109	110	24	108	108	108	24	106	106	107	4	108	109	110	23
7/6	108	109	111	24	108	109	110	24	107	107	107	24	---	---	---	0	109	109	110	24
7/7	109	109	109	24	109	110	114	24	107	107	107	24	---	---	---	0	108	109	110	24
7/8	105	106	108	24	108	109	109	24	107	107	107	24	---	---	---	0	109	109	109	23
7/9	105	105	105	23	108	109	109	24	107	107	107	24	---	---	---	0	108	109	111	23
7/10	105	105	106	24	108	109	110	24	107	107	108	24	---	---	---	0	110	111	111	22
7/11	105	105	105	24	107	108	108	24	107	107	108	24	---	---	---	0	110	110	111	23
7/12	106	107	110	24	107	107	108	23	108	109	136	19	106	107	108	22	109	109	110	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			#	<u>Wells</u>			#	<u>Wells Dwnstrm</u>			#	<u>Rocky Reach</u>			#	<u>Rocky R. Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	107	107	108	23	106	107	108	23	108	108	109	23	107	108	108	23	144	144	144	1
6/30	107	107	108	24	107	107	108	23	108	109	109	23	109	109	109	18	---	---	---	0
7/1	106	107	108	23	107	107	108	22	109	109	109	22	108	108	109	19	---	---	---	0
7/2	107	108	109	23	107	107	108	20	108	109	109	20	109	109	110	21	---	---	---	0
7/3	108	109	110	23	108	108	109	24	109	110	110	24	109	110	110	21	143	143	143	1
7/4	108	109	110	23	109	109	110	22	110	110	111	22	110	110	110	20	---	---	---	0
7/5	108	109	110	23	109	110	111	23	110	111	111	23	110	110	111	21	112	112	124	9
7/6	108	109	110	24	109	109	110	23	110	111	112	23	110	110	111	19	110	110	111	18
7/7	108	109	110	24	109	109	110	24	110	111	111	24	111	111	112	22	106	110	110	17
7/8	108	109	109	23	109	110	111	24	110	111	112	24	111	111	112	20	108	110	110	18
7/9	109	110	111	23	110	111	111	23	111	112	112	23	111	112	112	20	110	111	111	20
7/10	109	109	110	23	111	112	113	24	111	112	113	24	112	113	113	20	111	112	112	18
7/11	108	109	110	23	110	111	111	23	110	111	112	23	112	112	113	20	111	111	112	19
7/12	108	109	110	23	111	111	114	22	110	111	112	22	112	112	113	21	111	111	112	21

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			#	<u>Rock I. Tlwr</u>			#	<u>Wanapum</u>			#	<u>Wanapum Tlwr</u>			#	<u>Priest Rapids</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	---	---	---	0	107	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
6/30	---	---	---	0	107	107	108	20	---	---	---	0	---	---	---	0	---	---	---	0
7/1	---	---	---	0	107	107	107	22	---	---	---	0	---	---	---	0	---	---	---	0
7/2	108	108	108	8	108	108	109	23	---	---	---	0	---	---	---	0	---	---	---	0
7/3	107	108	108	23	109	109	109	23	---	---	---	0	---	---	---	0	---	---	---	0
7/4	108	109	109	23	109	109	109	23	---	---	---	0	---	---	---	0	---	---	---	0
7/5	108	109	109	23	109	109	110	23	---	---	---	0	---	---	---	0	---	---	---	0
7/6	108	108	109	19	109	109	109	13	---	---	---	0	---	---	---	0	---	---	---	0
7/7	107	108	109	14	105	109	110	19	---	---	---	0	---	---	---	0	---	---	---	0
7/8	108	109	110	17	107	109	110	18	---	---	---	0	---	---	---	0	---	---	---	0
7/9	109	110	110	22	109	110	111	22	---	---	---	0	---	---	---	0	---	---	---	0
7/10	110	111	112	23	111	111	112	23	---	---	---	0	---	---	---	0	---	---	---	0
7/11	109	110	111	21	110	111	111	21	---	---	---	0	---	---	---	0	---	---	---	0
7/12	108	109	109	23	110	111	112	23	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clrwtr-Peck</u>			#	<u>Anatone</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
6/29	---	---	---	0	107	108	109	23	106	107	108	24	---	---	---	0	103	105	106	24
6/30	---	---	---	0	108	108	109	24	104	105	106	24	---	---	---	0	103	105	107	24
7/1	---	---	---	0	107	108	108	24	104	105	106	24	103	105	106	24	103	105	106	23
7/2	---	---	---	0	107	108	108	24	103	104	108	24	103	105	107	24	103	105	107	24
7/3	---	---	---	0	108	108	108	24	103	103	104	24	104	106	108	24	103	106	109	24
7/4	---	---	---	0	108	109	109	23	103	103	104	24	104	106	108	24	103	106	109	24
7/5	---	---	---	0	108	109	111	24	102	102	103	23	103	104	106	23	102	103	106	24
7/6	---	---	---	0	108	108	110	24	102	102	102	24	---	---	---	0	102	104	107	24
7/7	---	---	---	0	106	107	107	24	100	101	101	23	---	---	---	0	102	105	108	24
7/8	---	---	---	0	106	107	107	24	100	101	101	24	103	104	106	24	102	105	108	24
7/9	---	---	---	0	107	108	109	24	100	100	101	24	103	104	106	24	103	105	108	24
7/10	---	---	---	0	108	109	109	23	100	101	101	24	103	105	106	24	103	105	108	24
7/11	---	---	---	0	107	107	108	20	100	101	101	24	103	104	106	24	102	104	107	24
7/12	---	---	---	0	105	106	106	21	100	100	101	24	103	104	105	24	102	104	107	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			#	<u>Lower Granite</u>			#	<u>L. Granite Tlwr</u>			#	<u>Little Goose</u>			#	<u>L. Goose Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
6/29	102	105	107	24	102	103	104	23	100	100	101	23	103	105	107	24	102	103	103	24
6/30	103	105	107	24	102	104	109	23	99	100	100	22	107	108	111	24	103	104	104	24
7/1	102	104	106	24	101	102	104	24	99	99	100	24	103	105	108	24	102	102	103	24
7/2	102	104	106	24	110	113	116	24	101	102	102	24	106	109	111	24	103	104	104	24
7/3	103	105	107	24	112	114	115	24	102	103	104	24	110	111	112	23	103	104	104	23
7/4	103	106	107	24	111	113	114	24	103	104	104	24	110	110	112	24	103	103	104	24
7/5	102	104	105	23	106	107	109	24	101	102	102	24	102	103	107	23	101	101	102	23
7/6	102	104	105	24	106	107	109	24	100	101	101	21	104	106	108	24	101	102	103	24
7/7	103	105	106	23	108	109	110	24	101	101	102	24	104	105	105	24	102	102	103	24
7/8	103	105	107	24	108	109	112	24	100	101	102	23	103	105	106	24	101	101	102	24
7/9	103	105	107	24	106	108	109	24	99	100	103	24	104	108	109	24	101	101	102	24
7/10	103	105	107	24	109	111	113	24	99	100	102	24	107	108	108	24	101	102	102	24
7/11	103	105	106	24	108	108	110	24	99	100	101	24	104	105	106	23	101	101	102	23
7/12	103	105	106	24	108	108	110	24	100	101	101	24	106	106	108	24	101	102	102	24

Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
6/29	104	105	108	24	102	103	104	24	102	104	105	24	103	104	105	24	107	110	112	23
6/30	105	106	109	24	103	104	106	24	103	105	107	24	104	105	106	24	110	111	112	24
7/1	103	104	105	24	103	103	104	24	101	102	103	24	103	103	104	24	109	109	110	24
7/2	105	106	108	23	103	104	105	23	103	104	106	24	103	104	108	24	109	110	113	24
7/3	109	111	114	24	103	104	104	24	106	108	112	24	104	105	106	24	112	114	115	24
7/4	108	110	111	24	103	104	106	24	106	109	110	24	105	105	106	24	111	112	113	24
7/5	103	104	106	24	103	103	105	24	104	106	108	24	104	105	107	24	109	110	111	24
7/6	104	104	106	24	103	104	105	24	105	106	107	24	104	105	105	24	109	110	110	24
7/7	104	104	105	24	103	104	105	24	105	106	107	23	104	104	105	23	110	111	112	24
7/8	103	103	104	24	102	103	103	24	103	105	106	24	104	105	106	24	110	111	113	24
7/9	105	106	107	24	102	103	104	24	105	106	107	24	104	104	105	24	111	112	115	24
7/10	105	106	107	24	102	103	104	24	106	108	108	24	104	105	105	24	112	113	113	24
7/11	104	105	107	24	101	102	103	24	105	106	107	23	104	104	105	23	110	111	113	24
7/12	105	105	106	24	101	102	103	21	104	105	107	24	103	104	104	24	109	110	112	24

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	106	108	110	23	104	105	106	23	101	102	102	24	101	101	102	24	102	102	102	24
6/30	109	110	114	24	106	107	108	24	101	102	102	24	101	102	102	24	102	102	102	24
7/1	107	107	110	24	106	106	106	24	100	101	101	23	101	101	102	24	101	101	101	23
7/2	109	110	111	24	106	107	107	20	101	102	103	23	101	101	102	24	101	102	102	23
7/3	111	113	113	24	107	108	109	24	103	105	107	23	102	102	103	24	102	102	103	23
7/4	111	112	113	24	108	108	109	24	104	105	105	23	103	103	104	24	103	103	103	23
7/5	108	108	109	24	107	107	107	24	101	102	103	23	102	102	103	24	102	102	103	23
7/6	109	110	111	24	107	107	108	24	101	102	102	24	102	102	103	24	101	101	102	24
7/7	110	110	112	24	108	108	109	24	101	101	102	24	102	102	102	24	101	101	102	24
7/8	109	110	111	24	107	107	108	24	101	101	101	23	102	102	102	24	101	102	102	23
7/9	109	110	112	24	107	107	108	24	101	101	102	23	102	102	102	24	101	102	102	23
7/10	110	111	113	24	107	108	109	24	102	102	102	23	102	102	102	24	102	102	103	23
7/11	108	109	111	24	106	107	107	24	101	102	102	23	102	102	103	24	102	102	102	23
7/12	107	108	109	24	106	107	107	24	102	102	103	23	102	102	103	24	101	101	102	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Skamania</u>			<u>Camas\Washugal</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
6/29	102	102	103	24	101	102	102	24	102	102	103	24	101	102	102	24	102	104	104	24
6/30	102	102	103	24	102	102	102	24	102	102	103	24	102	102	102	24	103	104	104	24
7/1	101	102	102	24	101	101	101	23	102	102	103	23	101	102	102	23	103	104	104	23
7/2	101	102	102	24	101	101	102	23	102	103	103	23	102	102	102	23	103	105	105	24
7/3	102	103	103	24	102	102	103	23	102	103	104	23	102	102	103	23	104	105	106	24
7/4	103	103	104	22	102	102	102	23	102	103	103	23	102	102	103	23	103	104	105	24
7/5	103	103	103	24	101	101	101	23	101	102	103	23	101	101	101	23	102	103	104	24
7/6	102	102	102	24	100	101	101	24	101	102	103	24	101	101	101	24	102	103	103	24
7/7	102	102	103	24	100	100	101	24	101	102	102	24	101	101	102	24	103	103	104	24
7/8	102	103	103	24	100	100	101	23	101	102	103	23	101	101	102	23	103	104	104	24
7/9	102	103	103	24	101	101	101	23	102	103	104	23	102	102	103	23	104	105	105	24
7/10	103	103	103	24	101	101	102	23	102	103	103	23	102	102	103	23	104	104	105	24
7/11	102	103	103	24	101	101	101	23	102	103	103	23	102	102	102	23	103	104	104	24
7/12	102	102	103	24	101	101	101	23	102	102	103	23	101	102	102	23	103	103	104	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/29/2001	---	---	---	0	40	60	186	8	3,103	5,250	1,280
06/30/2001*	---	---	---	---	40	55	84	3	3,620	5,600	1,538
07/01/2001	---	---	---	---	40	675	76	4	3,000	2,800	651
07/02/2001	---	---	---	---	40	90	24	3	1,400	2,010	741
07/03/2001	---	---	---	---	40	100	44	1	1,800	2,370	752
07/04/2001	---	---	---	---	700	83	282	1	2,500	3,570	287
07/05/2001	---	---	---	---	200	214	500	0	2,100	2,550	227
07/06/2001*	---	---	---	---	0	353	340	2	1,052	2,475	277
07/07/2001	---	---	---	---	220	201	170	0	1,000	350	627
07/08/2001	---	---	---	---	180	653	270	1	1,700	782	478
07/09/2001	---	---	---	---	60	302	450	2	1,095	0	902
07/10/2001	---	---	---	---	0	212	210	1	1,120	198	671
07/11/2001	---	---	---	---	40	230	210	1	1,398	550	375
07/12/2001*	---	---	---	---	60	375	240	1	300	650	292
07/13/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1,660	3,603	3,086	28	25,188	29,155	9,098
# Days:	0	0	0	1	14	14	14	14	14	14	14
Average:	0	0	0	0	119	257	220	2	1,799	2,083	650
YTD	12,660	26,732	9,049	527	1,957,446	748,545	550,912	6,629	2,287,963	991,231	1,685,232

COMBINED SUBYEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/29/2001	---	---	---	0	6,620	600	84	243	327,697	22,150	28,503
06/30/2001*	---	---	---	---	6,800	2,556	132	184	525,360	65,250	39,645
07/01/2001	---	---	---	---	4,140	1,485	196	200	665,200	28,100	19,842
07/02/2001	---	---	---	---	4,860	955	64	128	440,900	11,970	18,633
07/03/2001	---	---	---	---	9,260	886	136	310	588,100	41,970	31,198
07/04/2001	---	---	---	---	82,200	5,795	416	209	435,800	79,590	31,721
07/05/2001	---	---	---	---	46,200	7,381	500	110	214,600	55,900	20,060
07/06/2001*	---	---	---	---	9,700	15,560	300	218	139,898	23,850	25,095
07/07/2001	---	---	---	---	27,740	11,412	370	297	82,000	11,500	37,645
07/08/2001	---	---	---	---	26,300	5,907	560	136	46,500	15,658	38,878
07/09/2001	---	---	---	---	17,720	3,558	1,110	641	17,490	7,260	67,359
07/10/2001	---	---	---	---	6,600	6,915	730	1,093	28,884	16,866	26,051
07/11/2001	---	---	---	---	9,520	16,584	880	419	50,094	28,750	49,049
07/12/2001*	---	---	---	---	9,080	5,279	1,830	799	56,700	39,850	40,729
07/13/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	266,740	84,873	7,308	4,987	3,619,223	448,664	474,408
# Days:	0	0	0	1	14	14	14	14	14	14	14
Average:	0	0	0	0	19,053	6,062	522	356	258,516	32,047	33,886
YTD	1	1	13	31	581,880	101,755	16,374	8,519	7,337,253	767,729	1,977,422

*The total, #days and average do not include the current day's data. *See sampling comments. <http://www.fpc.org/current/daily/smpcomments.htm>. This means that one or more of the sites on this date had an incomplete or biased sample.

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Two-Week Summary of Passage Indices

COMBINED COHO

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/29/2001	---	---	---	0	20	30	6	288	300	100	814
06/30/2001 *	---	---	---	---	120	100	0	144	400	150	1,569
07/01/2001	---	---	---	---	120	35	12	78	300	0	833
07/02/2001	---	---	---	---	40	30	4	39	200	120	613
07/03/2001	---	---	---	---	600	75	12	91	200	30	520
07/04/2001	---	---	---	---	3,960	470	50	69	500	270	160
07/05/2001	---	---	---	---	1,900	1,270	20	49	200	250	277
07/06/2001 *	---	---	---	---	400	1,300	60	46	110	150	126
07/07/2001	---	---	---	---	780	100	10	81	0	50	401
07/08/2001	---	---	---	---	920	1,300	20	35	300	0	277
07/09/2001	---	---	---	---	500	525	20	18	45	30	476
07/10/2001	---	---	---	---	280	860	50	63	196	0	783
07/11/2001	---	---	---	---	340	1,025	30	36	180	0	241
07/12/2001 *	---	---	---	---	500	375	50	19	400	300	159
07/13/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	10,480	7,495	344	1,056	3,331	1,450	7,249
# Days:	0	0	0	1	14	14	14	14	14	14	14
Average:	0	0	0	0	749	535	25	75	238	104	518
YTD	0	0	0	6	52,100	15,558	1,120	44,952	144,813	59,413	2,161,875

COMBINED STEELHEAD

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/29/2001	---	---	---	26	3,220	544	234	77	500	150	320
06/30/2001 *	---	---	---	---	4,980	1,212	268	46	820	450	677
07/01/2001	---	---	---	---	1,400	1,763	1,252	68	500	100	286
07/02/2001	---	---	---	---	1,500	1,247	328	30	400	60	256
07/03/2001	---	---	---	---	2,720	2,057	1,184	61	300	30	376
07/04/2001	---	---	---	---	7,860	7,187	5,742	51	400	330	287
07/05/2001	---	---	---	---	4,900	5,984	3,840	31	200	200	227
07/06/2001 *	---	---	---	---	3,500	2,608	1,560	17	240	0	76
07/07/2001	---	---	---	---	7,580	810	560	15	0	0	401
07/08/2001	---	---	---	---	3,420	1,454	1,130	11	300	54	277
07/09/2001	---	---	---	---	3,540	1,282	1,300	8	135	30	627
07/10/2001	---	---	---	---	2,860	2,517	550	25	151	60	447
07/11/2001	---	---	---	---	3,560	2,962	490	33	342	0	241
07/12/2001 *	---	---	---	---	3,640	2,209	1,250	6	100	0	239
07/13/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	26	54,680	33,836	19,688	479	4,388	1,464	4,737
# Days:	0	0	0	1	14	14	14	14	14	14	14
Average:	0	0	0	26	3,906	2,417	1,406	34	313	105	338
YTD	4,567	34,103	4,357	5,399	5,498,196	821,303	340,801	17,759	559,653	188,564	487,001

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/29/2001	---	---	---	0	0	0	0	0	200	350	1,803
06/30/2001*	---	---	---	---	0	0	0	2	100	250	1,753
07/01/2001	---	---	---	---	0	10	0	0	100	0	443
07/02/2001	---	---	---	---	0	10	0	1	100	120	358
07/03/2001	---	---	---	---	0	10	8	10	0	450	434
07/04/2001	---	---	---	---	0	29	4	5	100	1,560	383
07/05/2001	---	---	---	---	0	0	0	1	100	350	403
07/06/2001*	---	---	---	---	0	0	40	1	0	0	403
07/07/2001	---	---	---	---	0	0	0	5	100	0	501
07/08/2001	---	---	---	---	20	100	0	3	0	108	226
07/09/2001	---	---	---	---	0	1	0	19	0	90	326
07/10/2001	---	---	---	---	0	0	0	33	4	2	224
07/11/2001	---	---	---	---	0	25	0	2	48	50	188
07/12/2001*	---	---	---	---	0	0	10	27	0	0	106
07/13/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	20	185	62	109	852	3,330	7,551
# Days:	0	0	0	1	14	14	14	14	14	14	14
Average:	0	0	0	0	1	13	4	8	61	238	539
YTD	24	0	0	0	4,490	9,563	966	2,946	283,182	101,659	105,822

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

Cumulative Adult Passage at Mainstem Dams Through: 07/12

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	391,367	14,172	178,302	21,259	70,775	4,654	60,294	10,952	23,432	9,874	16,718	2,622	0	0	0	0	0	0
TDA	302,372	9,953	102,953	14,796	41,161	3,200	54,079	7,350	18,649	7,196	13,089	1,810	0	0	0	0	0	0
JDA	262,215	6,181	86,553	12,157	33,812	2,643	47,754	6,179	17,452	5,427	12,343	1,498	0	0	0	0	0	0
MCN	258,749	6,683	64,647	10,836	30,645	2,566	45,681	5,315	13,920	4,413	11,532	1,303	0	0	0	0	0	0
IHR	171,173	3,023	38,807	9,489	16,921	1,647	13,738	1,789	3,865	2,855	3,956	665	0	0	0	0	0	0
LMN	180,799	1,783	35,520	10,336	15,613	1,755	16,647	1,237	4,118	2,911	3,712	666	0	0	0	0	0	0
LGS	174,823	2,990	34,330	10,152	14,769	1,744	13,172	1,939	3,565	3,384	3,504	717	0	0	0	0	0	0
LWG	171,958	3,136	33,822	10,318	13,830	1,676	11,200	2,451	3,361	3,231	3,601	705	0	0	0	0	0	0
PRD	51,133	987	20,098	1,092	9,843	292	25,582	1,091	11,378	988	7,237	292	0	0	0	0	0	0
RIS	39,785	1,761	14,850	1,558	7,292	362	17,173	2,951	8,230	4,673	3,881	608	0	0	0	0	0	0
RRH	15,893	543	5,336	392	1,847	90	8,028	1,112	3,912	726	1,154	119	0	0	0	0	0	0
WEL	9,994	877	2,130	457	869	97	6,146	532	1,394	395	460	75	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.		10-Yr		10-Yr			Wild	
	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	2	0	0	0	2	0	112,259	91,260	42,224	66,953	33,054	21,184	24,135
TDA	0	0	0	0	0	0	99,698	71,719	32,148	35,205	15,869	8,606	14,276
JDA	6	0	2	0	0	0	105,719	85,806	33,706	27,093	12,690	8,358	8,724
MCN	0	0	0	0	0	0	87,948	57,435	29,981	17,077	6,057	5,711	4,884
IHR	0	0	0	0	0	0	18	167	20	9,469	3,855	3,725	2,161
LMN	0	0	0	0	0	0	109	226	25	7,991	2,913	3,220	2,107
LGS	0	0	0	0	0	0	44	214	24	5,289	2,318	1,845	1,811
LWG	0	0	0	0	0	0	19	211	22	8,142	3,597	5,281	2,312
PRD	6	8	25	2	2	0	97,394	80,204	28,738	1,047	581	377	**
RIS	29	0	12	0	2	0	74,972	58,585	13,995	576	301	244	249*
RRH	24	0	7	0	0	0	46,077	38,779	7,052	424	210	158	150*
WEL	0	0	0	0	0	0	43,753	35,857	5,714	185	77	76	83

PRD data from Grant CO PUD's website and through 7/11; RIS, RRH data from Chelan CO PUD's website and through 7/8.
WEL data from Douglas CO PUD and through 7/9.

MCN is missing counts for 7/11; LGS is missing counts for 7/8.

* Wild Steelhead count from COE and through 7/6. **PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files.

Wild steelhead numbers are included in the total.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Two Week Transportation Summary

06/30/01 TO 07/13/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	266,740	1,660	10,480	20	54,680	333,580
	Sum of NumberBarged	266,903	1,607	10,001	20	55,366	333,897
	Sum of NumberBypassed	1	0	0	0	0	1
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,029	14	41	0	476	1,560
LGS	Sum of NumberCollected	84,873	3,603	7,495	185	33,836	129,992
	Sum of NumberBarged	80,677	3,085	7,194	202	32,503	123,661
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,470	174	6	3	634	2,287
LMN	Sum of NumberCollected	7,308	3,086	344	62	19,688	30,488
	Sum of NumberBarged	5,456	2,977	294	52	18,297	27,076
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	177	54	0	0	339	570
MCN	Sum of NumberCollected	3,619,223	25,188	3,331	852	4,388	3,652,982
	Sum of NumberBarged	3,594,227	24,760	3,154	828	4,161	3,627,130
	Sum of NumberBypassed	9,797	0	0	0	0	9,797
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	15,199	428	177	24	227	16,055
Total Sum of NumberCollected		3,978,144	33,537	21,650	1,119	112,592	4,147,042
Total Sum of NumberBarged		3,947,263	32,429	20,643	1,102	110,327	4,111,764
Total Sum of NumberBypassed		9,798	0	0	0	0	9,798
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		17,875	670	224	27	1,676	20,472

YTD Transportation Summary

TO: 07/13/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	581,880	1,957,446	52,100	4,490	5,498,196	8,094,112
	Sum of NumberBarged	571,640	1,867,363	50,527	4,090	5,224,150	7,717,770
	Sum of NumberBypassed	1	79,198	976	221	265,274	345,670
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	1,198	4,393	69	12	1,774	7,446
LGS	Sum of NumberCollected	101,925	750,693	15,563	9,566	822,735	1,700,482
	Sum of NumberBarged	96,929	744,237	15,003	9,502	811,131	1,676,802
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	898	0	28	336	1,262
	Sum of TotalProjectMortalities	1,502	3,259	35	26	4,705	9,527
LMN	Sum of NumberCollected	16,374	550,912	1,120	966	340,801	910,173
	Sum of NumberBarged	14,466	527,413	1,069	952	336,402	880,302
	Sum of NumberBypassed	0	16,478	0	0	511	16,989
	Sum of NumberTrucked	0	5,519	0	0	319	5,838
	Sum of TotalProjectMortalities	183	1,271	1	4	2,330	3,789
MCN	Sum of NumberCollected	7,290,050	2,214,734	139,156	267,714	550,131	10,461,785
	Sum of NumberBarged	6,503,749	1,011,670	74,969	126,091	230,995	7,947,474
	Sum of NumberBypassed	442,099	1,162,074	57,288	136,862	303,005	2,101,328
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	25,934	6,083	646	513	3,964	37,140
Total Sum of NumberCollected		7,990,229	5,473,785	207,939	282,736	7,211,863	21,166,552
Total Sum of NumberBarged		7,186,784	4,150,683	141,568	140,635	6,602,678	18,222,348
Total Sum of NumberBypassed		442,100	1,257,750	58,264	137,083	568,790	2,463,987
Total Sum of NumberTrucked		0	12,850	30	195	4,041	17,116
Total Sum of TotalProjectMortalities		28,817	15,006	751	555	12,773	57,902

