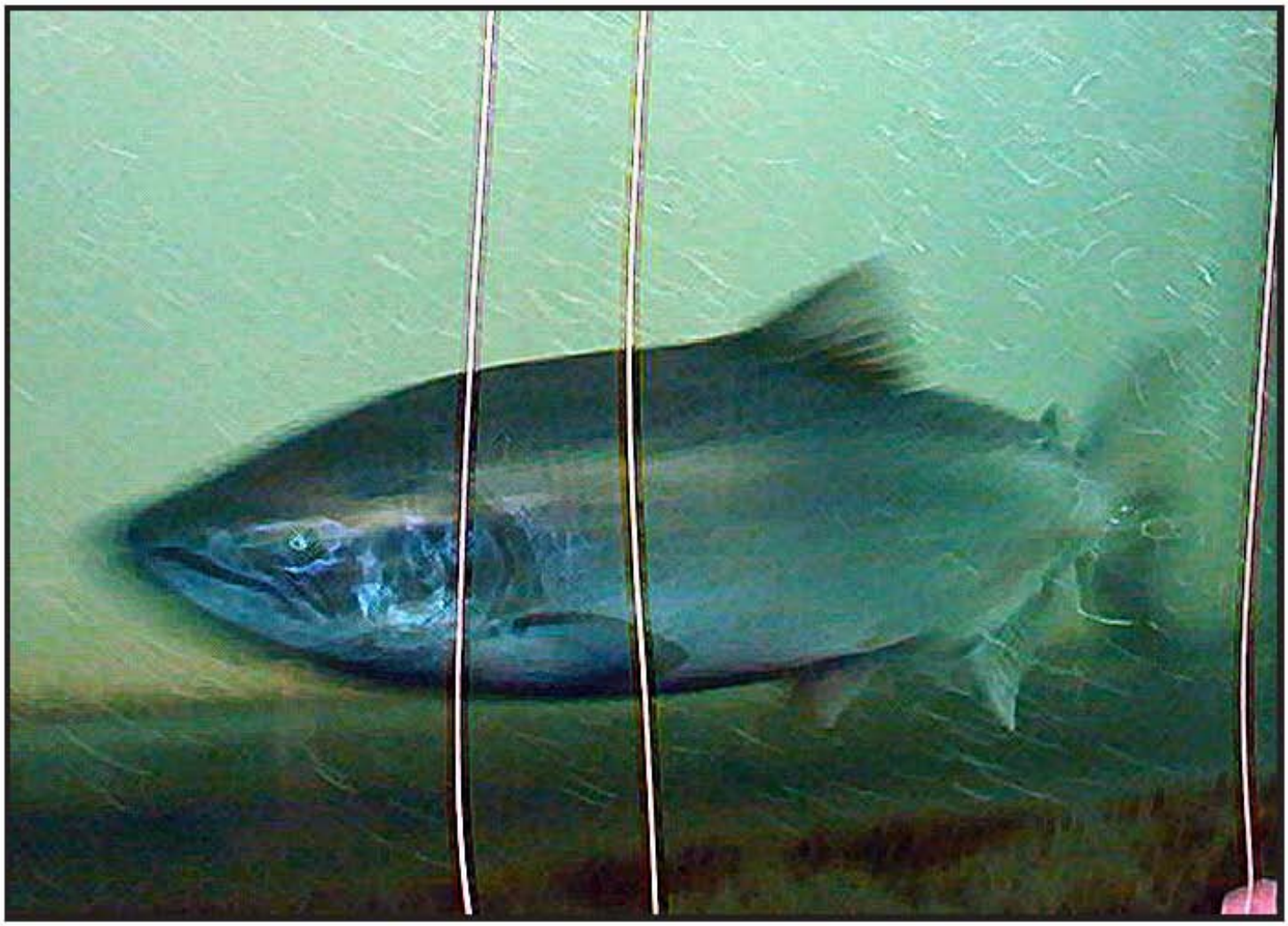
US Army Corps of Engineers®
Portland District
Walla Walla District

# Annual Fish Passage Report 2007



## Columbia and Snake River Projects

# *2007*

# ANNUAL FISH PASSAGE REPORT

# COLUMBIA AND SNAKE RIVERS

***for***

# SALMON, STEELHEAD, SHAD, AND LAMPREY

***BONNEVILLE DAM***
***THE DALLES DAM***
***JOHN DAY DAM***
***McNARY DAM***
***ICE HARBOR DAM***
***LOWER MONUMENTAL DAM***
***LITTLE GOOSE DAM***
***LOWER GRANITE DAM***
***PRIEST RAPIDS DAM***
***ROCK ISLAND DAM***
***ROCKY REACH DAM***
***WELLS DAM***

**NORTHWESTERN DIVISION**
**U.S. ARMY CORPS OF ENGINEERS**

**Prepared By:**
**U.S. Army Engineer Districts**
**Portland and Walla Walla**

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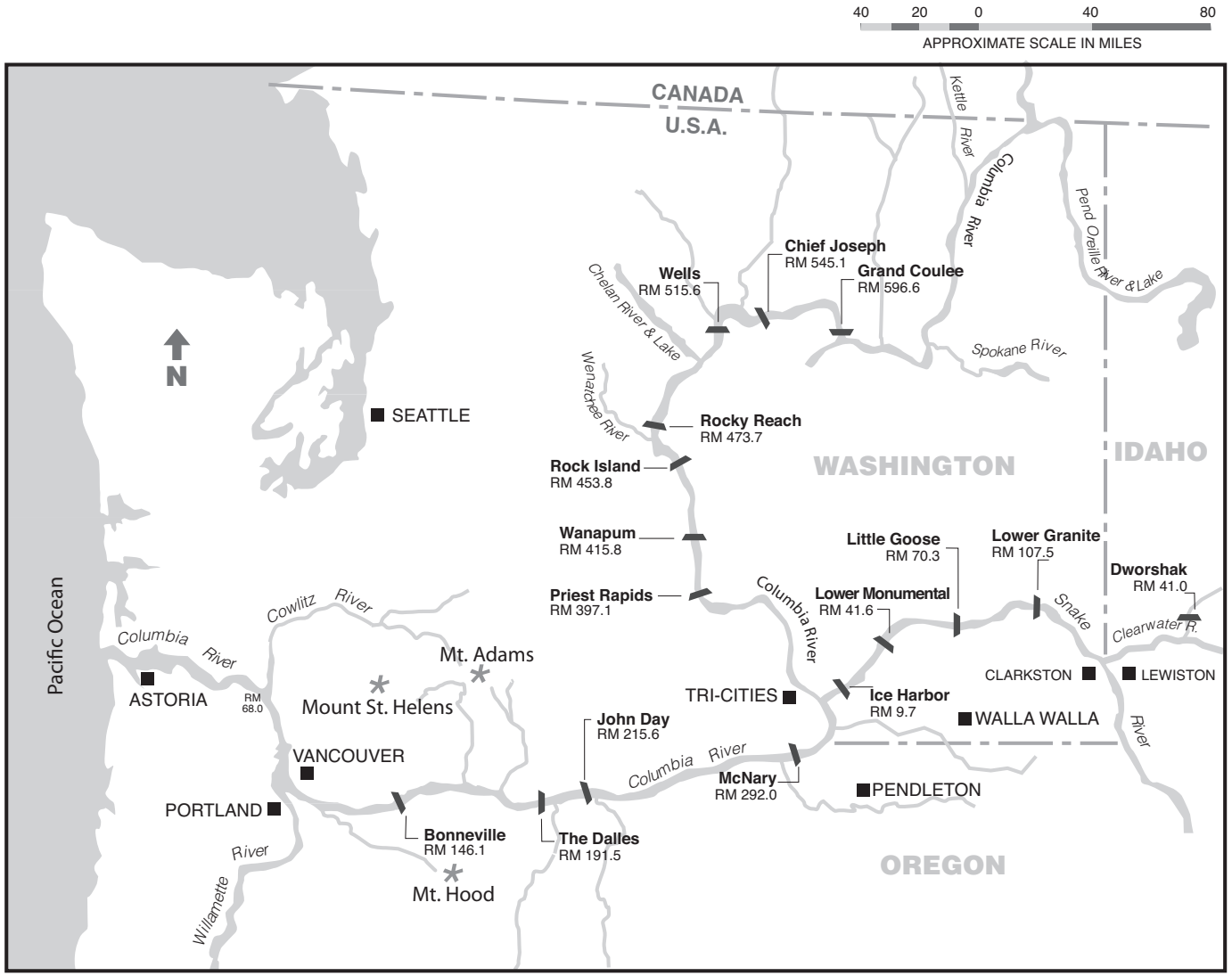


## FISH ESCAPEMENT AT MAIN STEM DAMS ON THE COLUMBIA AND SNAKE RIVERS: 2003-2007

| SPECIES | BONNEVILLE | THE DALLES | JOHN DAY | MCNARY | ICE HARBOR | LOWER MONUMENTAL | LITTLE GOOSE | LOWER GRANITE |
|---|---|---|---|---|---|---|---|---|
| **2003** | | | | | | | | |
| CHINOOK* | 992,231 | 608,153 | 467,085 | 420,603 | 143,197 | 122,817 | 114,458 | 119,676 |
| Spring* | 206,268 | 142,817 | 111,642 | 106,673 | 86,190 | 77,947 | 76,096 | 78,904 |
| Summer* | 128,166 | 111,931 | 105,615 | 104,948 | 25,343 | 22,307 | 17,877 | 20,559 |
| Fall* | 657,797 | 353,405 | 249,828 | 208,982 | 31,664 | 22,563 | 20,485 | 20,213 |
| Jacks | 75,338 | 61,671 | 54,606 | 52,258 | 23,288 | 19,855 | 17,151 | 20,913 |
| STEELHEAD | 361,412 | 273,172 | 286,176 | 230,418 | 186,474 | 172,596 | 161,026 | 180,072 |
| SOCKEYE | 39,291 | 34,176 | 35,417 | 32,037 | 37 | 14 | 23 | 11 |
| COHO* | 133,870 | 45,374 | 38,577 | 19,830 | 1,431 | 999 | 807 | 1,265 |
| Adults | 125,743 | 42,563 | 34,453 | 18,095 | 1,362 | 924 | 734 | 1,135 |
| Jacks | 8,127 | 2,811 | 4,124 | 1,735 | 69 | 75 | 73 | 130 |
| SHAD | 4,558,550 | 4,258,889 | 2,735,108 | 1,077,670 | 245,805 | 160,292 | 56,834 | 17,545 |
| LAMPREY | 117,027 | 28,995 | 20,922 | 13,324 | 1,702 | 468 | 660 | 282 |
| **2004** | | | | | | | | |
| CHINOOK* | 905,809 | 560,420 | 446,303 | 382,946 | 130,213 | 113,885 | 100,733 | 109,061 |
| Spring* | 179,037 | 137,957 | 118,520 | 115,179 | 81,752 | 75,363 | 65,862 | 75,224 |
| Summer* | 105,032 | 87,925 | 83,060 | 74,217 | 16,185 | 12,789 | 11,567 | 11,277 |
| Fall* | 621,740 | 334,538 | 244,723 | 193,550 | 32,276 | 25,733 | 23,304 | 22,560 |
| Jacks | 60,245 | 48,653 | 47,696 | 40,644 | 18,825 | 11,902 | 10,999 | 14,592 |
| STEELHEAD | 310,893 | 238,242 | 227,199 | 201,071 | 168,897 | 149,429 | 142,092 | 154,389 |
| SOCKEYE | 123,291 | 107,466 | 113,497 | 89,707 | 91 | 80 | 81 | 113 |
| COHO* | 119,826 | 40,564 | 34,755 | 20,132 | 3,519 | 3,606 | 3,029 | 3,904 |
| Adults | 115,018 | 38,661 | 32,627 | 19,004 | 3,473 | 3,441 | 2,898 | 3,802 |
| Jacks | 4,808 | 1,903 | 2,128 | 1,128 | 46 | 165 | 131 | 102 |
| SHAD | 5,355,677 | 5,472,400 | ** | 1,751,728 | 365,493 | ** | ** | 33,987 |
| LAMPREY | 61,780 | 14,873 | 11,663 | 5,888 | 805 | 194 | 243 | 117 |
| **2005** | | | | | | | | |
| CHINOOK* | 600,301 | 388,893 | 322,563 | 269,103 | 58,361 | 52,281 | 46,553 | 49,530 |
| Spring* | 78,326 | 64,174 | 58,742 | 55,056 | 29,306 | 26,935 | 24,918 | 27,286 |
| Summer* | 83,703 | 73,136 | 69,439 | 66,858 | 9,817 | 9,158 | 7,961 | 7,814 |
| Fall* | 438,272 | 251,583 | 194,382 | 147,189 | 19,238 | 16,188 | 13,674 | 14,430 |
| Jacks | 29,998 | 24,900 | 22,868 | 19,470 | 6,818 | 4,857 | 4,160 | 5,572 |
| STEELHEAD | 315,104 | 240,349 | 223,174 | 214,105 | 155,541 | 153,792 | 143,537 | 155,783 |
| SOCKEYE | 72,971 | 65,273 | 69,770 | 63,540 | 18 | 18 | 13 | 18 |
| COHO* | 88,791 | 34,629 | 34,197 | 19,776 | 1,621 | 2,095 | 1,992 | 2,183 |
| Adults | 83,305 | 32,447 | 30,869 | 18,577 | 1,601 | 2,065 | 1,913 | 2,077 |
| Jacks | 5,486 | 2,182 | 3,328 | 1,199 | 20 | 30 | 79 | 106 |
| SHAD | 4,242,129 | 6,067,028 | ** | 1,951,001 | 281,114 | ** | ** | 13,584 |
| LAMPREY | 26,664 | 8,361 | 8,312 | 4,158 | 461 | 222 | 211 | 40 |
| **2006** | | | | | | | | |
| CHINOOK* | 525,948 | 339,206 | 288,434 | 217,185 | 52,501 | 54,482 | 44,695 | 45,992 |
| Spring* | 99,364 | 64,003 | 52,406 | 48,362 | 26,309 | 24,137 | 21,569 | 23,503 |
| Summer* | 101,874 | 84,839 | 77,964 | 65,960 | 9,085 | 10,449 | 8,752 | 7,720 |
| Fall* | 324,710 | 190,364 | 158,064 | 102,863 | 17,107 | 19,896 | 14,374 | 14,769 |
| Jacks | 32,812 | 27,104 | 28,476 | 19,646 | 8,255 | 9,840 | 6,429 | 8,356 |
| STEELHEAD | 333,250 | 235,623 | 217,122 | 184,024 | 123,631 | 135,566 | 124,440 | 145,991 |
| SOCKEYE | 37,066 | 30,026 | 35,387 | 29,295 | 48 | 17 | 26 | 17 |
| COHO* | 109,006 | 32,196 | 33,778 | 13,333 | 971 | 1,180 | 972 | 1,434 |
| Adults | 101,086 | 29,728 | 28,868 | 12,183 | 897 | 1,101 | 938 | 1,141 |
| Jacks | 7,920 | 2,468 | 4,910 | 1,150 | 74 | 79 | 34 | 293 |
| SHAD | 3,965,254 | 4,611,592 | ** | 1,176,899 | 213,229 | ** | ** | 7,923 |
| LAMPREY | 38,938 | 6,894 | 9,600 | 2,456 | 277 | 175 | 125 | 35 |
| **2007** | | | | | | | | |
| CHINOOK* | 357,375 | 252,215 | 214,329 | 178,802 | 69,105 | 73,333 | 60,398 | 62,530 |
| Spring* | 83,230 | 68,201 | 57,042 | 51,104 | 35,355 | 35,064 | 31,187 | 31,455 |
| Summer* | 61,568 | 52,062 | 47,908 | 42,436 | 10,599 | 13,362 | 10,759 | 11,096 |
| Fall* | 212577 | 131,952 | 109,379 | 85,262 | 23,151 | 24,907 | 18,452 | 19,979 |
| Jacks | 83,054 | 65,200 | 61,316 | 49,740 | 19,635 | 17,371 | 18,120 | 22,146 |
| STEELHEAD | 320,931 | 241,898 | 227,198 | 208,788 | 153,619 | 154,104 | 135,414 | 157,345 |
| SOCKEYE | 24,376 | 19,124 | 24,277 | 18,175 | 55 | 44 | 37 | 52 |
| COHO* | 96,058 | 32,749 | 39,226 | 22,587 | 2,147 | 2,231 | 2,141 | 2,798 |
| Adults | 91,994 | 30,661 | 33,017 | 20,217 | 1,994 | 2,092 | 1,963 | 2,532 |
| Jacks | 4,064 | 2,088 | 6,209 | 2,370 | 153 | 139 | 178 | 266 |
| SHAD | 2,575,277 | 3,591,988 | 227,198 | 985,466 | 202,818 | ** | ** | 21,386 |
| LAMPREY | 19,313 | 6,085 | 5,744 | 3,454 | 290 | 138 | 72 | 34 |

**ASSUMED DATES FOR CHINOOK RUN (MAY VARY FROM PREVIOUS YEARS)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SPRING | 15 MARCH - 31 MAY | 1 APRIL - 3 JUNE | 1 APR - 5 JUN | 1 APR - 8 JUN | 1 APR - 11 JUN | 1 APR - 13 JUN | 1 APR - 15-Jun | 1 MAR - 17 JUN |
| SUMMER | 1 JUN - 31 JUL | 4 JUN - 3 AUG | 6 JUN - 5 AUG | 9 JUN - 8 AUG | 12 JUN - 11 AUG | 14 JUN - 13 AUG | 16 JUN - 15-Aug | 18 JUN - 17 AUG |
| FALL | 1 AUG - 15 NOV | 4 AUG - 31 OCT | 6 AUG - 31 OCT | 9 AUG - 31 OCT | 12 AUG - 31 OCT | 14 AUG - 31 OCT | 16 AUG - 31 OCT | 18 AUG - 15 DEC |

***Includes Jack Counts.**

## FISH ESCAPEMENT AT MID COLUMBIA RIVER DAMS: 2003 - 2007

| SPECIES | PRIEST RAPIDS | ROCK ISLAND | ROCKY REACH | WELLS |
|---|---|---|---|---|
| **2003** | | | | |
| CHINOOK* | 160,433 | 132,167 | 88,011 | 59,346 |
| Spring* | 18,792 | 17,634 | 4,669 | 4,702 |
| Summer* | 86,837 | 88,401 | 69,362 | 46,391 |
| Fall* | 54,804 | 26,132 | 13,980 | 8,253 |
| Jacks | 10,847 | 11,939 | 9,363 | 2,984 |
| STEELHEAD | 17,652 | 17,509 | 13,650 | 9,963 |
| SOCKEYE | 36,551 | 34,779 | 30,355 | 28,977 |
| COHO* | 5,216 | 5,869 | 993 | 168 |
| Adults | 4,803 | 5,869 | 993 | 168 |
| Jacks | 413 | ** | ** | ** |
| SHAD | 7,067 | ** | ** | ** |
| LAMPREY | 4,338 | 5,000 | 2,521 | 1,408 |
| **2004** | | | | |
| CHINOOK* | 134,620 | 97,765 | 65,538 | 43,417 |
| Spring* | 14,541 | 11,876 | 5,099 | 4,793 |
| Summer* | 72,673 | 67,145 | 49,625 | 32,847 |
| Fall* | 47,406 | 18,744 | 10,814 | 5,777 |
| Jacks | 10,526 | 7,854 | 10,324 | 2,083 |
| STEELHEAD | 18,727 | 19,547 | 14,580 | 9,317 |
| SOCKEYE | 124,943 | 106,666 | 81,338 | 78,053 |
| COHO* | 5,624 | 5,814 | 786 | 291 |
| Adults | 4,830 | 5,982 | 786 | 291 |
| Jacks | 794 | ** | ** | ** |
| SHAD | 10,589 | ** | ** | ** |
| LAMPREY | 2,647 | 2,362 | 1,043 | 403 |
| **2005** | | | | |
| CHINOOK* | 109,429 | 80,942 | 56,064 | 40,220 |
| Spring* | 14,663 | 16,969 | 6,897 | 4,996 |
| Summer* | 63,125 | 54,121 | 44,665 | 31,763 |
| Fall* | 31,641 | 9,852 | 4,502 | 3,461 |
| Jacks | 2,765 | 3,746 | 3,287 | 1,248 |
| STEELHEAD | 12,472 | 12,409 | 9,710 | 7,203 |
| SOCKEYE | 74,563 | 71,226 | 55,570 | 55,559 |
| COHO* | 1,260 | 6,580 | 1,225 | 348 |
| Adults | 1,173 | 6,580 | 1,225 | 348 |
| Jacks | 87 | ** | ** | ** |
| SHAD | 10,254 | ** | ** | ** |
| LAMPREY | 2,598 | 2,267 | 404 | 212 |
| **2006** | | | | |
| CHINOOK* | 87,086 | 81,777 | 54,600 | 36,615 |
| Spring* | 8,616 | 12,254 | 6,232 | 4,376 |
| Summer* | 57,792 | 63,962 | 44,077 | 27,196 |
| Fall* | 20,678 | 5,561 | 4,291 | 5,043 |
| Jacks | 2,464 | 4,176 | 3,169 | 3,445 |
| STEELHEAD | 10,408 | 9,382 | 8,124 | 6,674 |
| SOCKEYE | 26,710 | 35,132 | 25,377 | 22,075 |
| COHO* | 3,813 | 5,597 | 1,523 | 409 |
| Adults | 3,205 | 5,597 | 1,523 | 409 |
| Jacks | 608 | ** | ** | ** |
| SHAD | 281 | ** | ** | ** |
| LAMPREY | 4,381 | 1,326 | 370 | 21 |
| **2007** | | | | |
| CHINOOK* | 65,962 | 47,659 | 34,581 | 22,280 |
| Spring* | 5,884 | 9,577 | 3,805 | 2,793 |
| Summer* | 33,045 | 34,352 | 27,829 | 16,817 |
| Fall* | 27,033 | 3,730 | 2,947 | 2,670 |
| Jacks | 5,960 | 9,974 | 7,450 | 5,362 |
| STEELHEAD | 15,183 | 13,296 | 10,146 | 7,500 |
| SOCKEYE | 24,645 | 25,122 | 20,683 | 22,273 |
| COHO* | 12,310 | 17,152 | 4,738 | 2,432 |
| Adults | 11,488 | 16,604 | 4,634 | 2,432 |
| Jacks | 822 | 548 | 104 | ** |
| SHAD | 1,015 | ** | ** | ** |
| LAMPREY | 6,593 | 1,299 | 541 | 35 |

**ASSUMED DATES FOR CHINOOK RUNS (MAY VARY FROM PREVIOUS YEARS)**

| | | | | |
|---|---|---|---|---|
| SPRING | 15 APR - 31 MAY | 14 APR - 23 JUN | 14 APR - 23 JUN | 1 MAY - 28 JUN |
| SUMMER | 1 JUN 13 AUG | 24 JUN - 1 SEP | 24 JUN - 1 SEP | 29 JUN - 28 AUG |
| FALL | 14 AUG - 15 NOV | 2 SEP - 15 NOV | 2 SEP - 15 NOV | 29 AUG - 15 NOV |

***Includes jack counts.**

TABLE 3 and TABLE 4

## STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953-2007

## BY RUN-YEAR (JUNE 1 - MAY 31)

### Information Below Concerns the Following Two Tables

**Estimating the size of the upriver steelhead run has previously been hampered because of the calendar year approach used in the summary tables. Problems in accountability arise due to over wintering behavior of summer steelhead, especially Snake River stocks, which often have sizeable proportions of the run remaining below mainstem projects during the winter months. Migration of these steelhead commences again the following spring when warming reservoir temperatures trigger upstream movement. For this reason, an additional table has been prepared that summarizes steelhead trout counts at each project on a "fish year" basis: June 1 - May 31. Because all stocks of steelhead cross Bonneville Dam during the calendar year, those summary counts have not been modified.**

### Footnotes for the Following Two Tables

***Because counting started at each dam early in the year after construction was complete, these figures are for the latter part of the run year only. That part of the run year starting after June 1st of the previous 'year passed the dams without being counted.**

****1981 was the last year visual counts were made at Little Goose Project until 1991.**

TABLE 3

**STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953 - 2007**

**BY RUN-YEAR (JUNE 1 - MAY 31)**

| RUN-YEAR | THE DALLES | JOHN DAY | MCNARY | ICE HARBOR | LOWER MONUMENTAL | LITTLE GOOSE** | LOWER GRANITE |
|---|---|---|---|---|---|---|---|
| 1953-54 | | | 8,252 * | | | | |
| 1954-55 | | | 72,913 | | | | |
| 1955-56 | | | 84,434 | | | | |
| 1956-57 | 3,531 * | | 40,660 | | | | |
| 1957-58 | 128,124 | | 105,136 | | | | |
| 1958-59 | 120,170 | | 87,413 | | | | |
| 1959-60 | 155,892 | | 111,288 | | | | |
| 1960-61 | 110,955 | | 95,556 | | | | |
| 1961-62 | 134,740 | | 104,679 | 9,474 * | | | |
| 1962-63 | 163,125 | | 163,333 | 108,186 | | | |
| 1963-64 | 118,899 | | 113,676 | 76,788 | | | |
| 1964-65 | 110,509 | | 99,872 | 58,025 | | | |
| 1965-66 | 142,376 | | 120,469 | 62,566 | | | |
| 1966-67 | 144,267 | | 144,461 | 64,987 | | | |
| 1967-68 | 122,231 | 6,598 * | 83,948 | 47,536 | | | |
| 1968-69 | 147,844 | 122,649 | 107,806 | 85,273 | 16,240 * | | |
| 1969-70 | 111,617 | 81,623 | 74,933 | 58,172 | 63,269 | 9,256 * | |
| 1970-71 | 99,319 | 81,238 | 68,598 | 54,445 | 58,430 | 54,257 | |
| 1971-72 | 151,329 | 117,402 | 110,450 | 66,196 | 68,704 | 70,867 | |
| 1972-73 | 135,730 | 149,704 | 95,837 | 63,584 | 66,650 | 63,033 | |
| 1973-74 | 100,924 | 93,951 | 62,158 | 37,245 | 38,288 | 37,099 | |
| 1974-75 | 71,336 | 40,868 | 26,191 | 12,170 | 14,851 | 13,818 | 2,789 * |
| 1975-76 | 57,695 | 33,640 | 25,150 | 15,895 | 17,236 | 15,177 | 16,592 |
| 1976-77 | 83,194 | 59,368 | 54,409 | 24,140 | 21,801 | 21,109 | 22,562 |
| 1977-78 | 133,096 | 102,193 | 86,962 | 54,911 | 48,160 | 47,617 | 57,029 |
| 1978-79 | 58,995 | 43,554 | 34,580 | 27,252 | 19,849 | 24,050 | 26,473 |
| 1979-80 | 86,317 | 59,825 | 54,213 | 26,790 | 20,073 | 23,816 | 28,758 |
| 1980-81 | 93,309 | 77,113 | 63,957 | 47,778 | 32,599 | 36,680 | 37,996 |
| 1981-82 | 112,265 | 96,663 | 62,955 | 43,274 | 37,755 | 36,896 | 42,420 |
| 1982-83 | 116,178 | 105,438 | 72,246 | 70,236 | 60,775 | ** | 72,384 |
| 1983-84 | 172,033 | 157,602 | 126,706 | 90,030 | 82,555 | | 88,760 |
| 1984-85 | 221,299 | 204,595 | 142,246 | 101,008 | 92,947 | | 104,417 |
| 1985-86 | 274,826 | 245,087 | 181,635 | 123,187 | 104,400 | | 116,147 |
| 1986-87 | 280,671 | 234,651 | 193,096 | 142,273 | 121,107 | | 129,983 |
| 1987-88 | 219,822 | 172,290 | 151,587 | 77,565 | 64,717 | | 71,280 |
| 1988-89 | 197,669 | 163,283 | 150,361 | 98,950 | 81,324 | | 87,137 |
| 1989-90 | 236,584 | 193,951 | 170,014 | 149,361 | 131,050 | ** | 131,420 |
| 1990-91 | 128,123 | 107,117 | 94,522 | 54,370 | 44,518 | 1,070 | 56,865 |
| 1991-92 | 199,244 | 158,790 | 168,156 | 122,874 | 97,454 | 96,421 | 99,052 |
| 1992-93 | 233,430 | 197,715 | 197,739 | 166,654 | 136,820 | 118,949 | 128,265 |
| 1993-94 | 123,449 | 94,080 | 90,359 | 68,568 | 65,883 | 58,747 | 59,768 |
| 1994-95 | 111,378 | 92,362 | 92,568 | 49,450 | 48,231 | 46,258 | 47,302 |
| 1995-96 | 146,152 | 123,319 | 114,813 | 91,938 | 89,953 | 77,417 | 79,126 |
| 1996-97 | 162,447 | 156,924 | 124,820 | 101,384 | 96,785 | 82,573 | 86,898 |
| 1997-98 | 164,657 | 159,442 | 129,772 | 104,220 | 85,959 | 74,845 | 86,617 |
| 1998-99 | 116,262 | 156,628 | 98,606 | 84,135 | 65,173 | 62,641 | 70,721 |
| 1999-00 | 157,062 | 165,239 | 84,413 | 84,253 | 73,135 | 65,505 | 73,811 |
| 2000-01 | 205,801 | 219,433 | 131,330 | 126,989 | 113,454 | 102,074 | 116,490 |
| 2001-02 | 504,704 | 489,215 | 401,881 | 286,874 | 298,042 | 270,031 | 269,281 |
| 2002-03 | 389,119 | 393,339 | 292,034 | 213,944 | 230,466 | 215,586 | 222,050 |
| 2003-04 | 281,586 | 298,452 | 242,677 | 189,143 | 181,005 | 170,582 | 172,487 |
| 2004-05 | 240,134 | 232,656 | 210,249 | 169,797 | 154,386 | 146,810 | 151,634 |
| 2005-06 | 244,295 | 231,858 | 224,369 | 158,099 | 155,682 | 145,202 | 158,511 |
| 2006-07 | 250,603 | 233,841 | 210,672 | 127,216 | 135,029 | 124,052 | 148,982 |
| Total | 8,275,317 | 6,153,696 | 6,461,160 | 4,097,205 | 3,334,755 | 2,312,438 | 3,064,007 |
| 10-Year Average | 255,422 | 258,010 | 202,600 | 154,467 | 149,233 | 137,733 | 147,058 |

***Partial year**
**** 1981 was the last year visual counts were made at Little Goose Project until 1991.**
**Note: Extended video counts from participating projects included for 1996 - 2007.**

TABLE 4

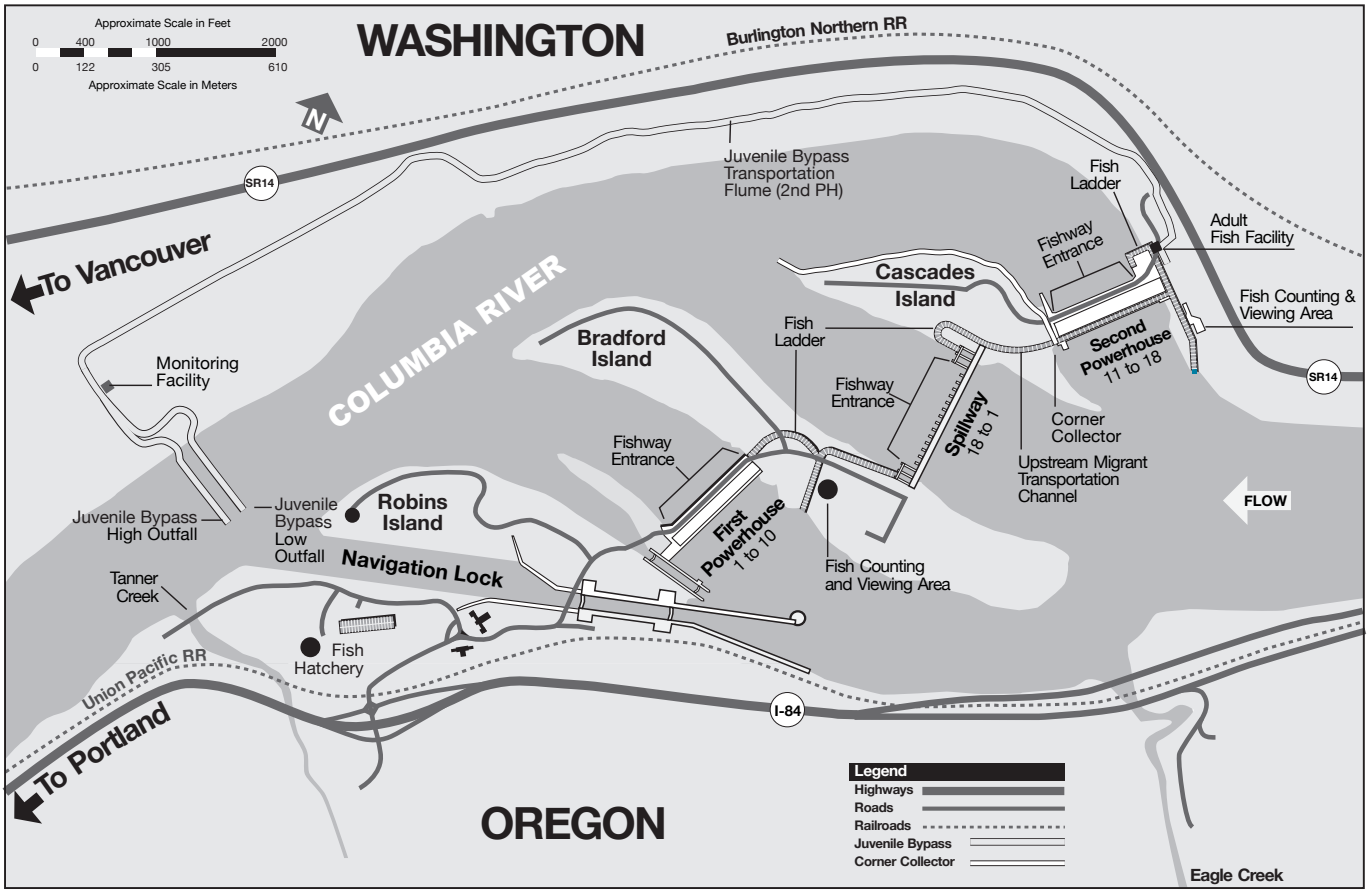
**STEELHEAD OVER MID COLUMBIA RIVER DAMS 1959 - 2007**

**BY RUN-YEAR (JUNE 1 - MAY 31)**

| RUN-YEAR | PRIEST RAPIDS | ROCK ISLAND | ROCKY REACH | WELLS |
|---|---|---|---|---|
| 1959-60 | 810 * | | | |
| 1960-61 | 7,277 | | | |
| 1961-62 | 8,970 | | | |
| 1962-63 | 9,408 | | | |
| 1963-64 | 8,808 | | | |
| 1964-65 | 6,137 | | | |
| 1965-66 | 9,055 | | | |
| 1966-67 | 13,159 | | | |
| 1967-68 | 8,402 | | | |
| 1968-69 | 9,672 | | | |
| 1969-70 | 6,140 | | | |
| 1970-71 | 5,764 | | | |
| 1971-72 | 11,331 | | | |
| 1972-73 | 6,006 | | | |
| 1973--74 | 6,881 | | | |
| 1974-75 | 2,955 | | | |
| 1975-76 | 2,558 | | | 44 * |
| 1976-77 | 9,490 | | | 4,636 |
| 1977-78 | 9,632 | | | 5,464 |
| 1978-79 | 4,479 | | | 1,475 |
| 1979-80 | 8,704 | | | 3,771 |
| 1980-81 | 8,308 | | | 3,363 |
| 1981-82 | 9,122 | 7,607 | 5,567 | 4,107 |
| 1982-83 | 10,948 | 9,737 | 6,037 | 7,805 |
| 1983-84 | 32,103 | 29,885 | 19,864 | 19,540 |
| 1984-85 | 26,566 | 25,287 | 17,349 | 16,663 |
| 1985-86 | 34,007 | 31,813 | 22,621 | 19,712 |
| 1986-87 | 22,332 | 22,766 | 15,060 | 13,251 |
| 1987-88 | 14,054 | 12,887 | 7,243 | 5,565 |
| 1988-89 | 10,138 | 9,100 | 5,573 | 4,358 |
| 1989-90 | 10,720 | 9,244 | 5,991 | 4,577 |
| 1990-91 | 7,858 | 6,926 | 5,023 | 3,842 |
| 1991-92 | 14,047 | 11,125 | 7,788 | 7,823 |
| 1992-93 | 13,596 | 12,382 | 7,429 | 7,029 |
| 1993-94 | 5,405 | 4,689 | 2,738 | 2,359 |
| 1994-95 | 6,710 | 5,633 | 2,825 | 2,181 |
| 1995-96 | 4,357 | 4,168 | 1,777 | 951 |
| 1996-97 | 8,323 | 7,295 | 5,780 | 4,154 |
| 1997-98 | 8,942 | 7,718 | 6,756 | 4,074 |
| 1998-99 | 5,846 | 4,968 | 4,404 | 2,676 |
| 1999-00 | 8,267 | 6,346 | 4,848 | 3,514 |
| 2000-01 | 11,341 | 10,565 | 8,307 | 6,287 |
| 2001-02 | 30,102 | 28,614 | 22,114 | 18,519 |
| 2002-03 | 15,867 | 15,243 | 11,718 | 9,430 |
| 2003-04 | 17,729 | 17,633 | 13,919 | 10,016 |
| 2004-05 | 18,655 | 19,448 | 14,624 | 9,306 |
| 2005-06 | 12,502 | 12,413 | 9,498 | 7,168 |
| 2006-07 | 10,415 | 9,371 | 8,141 | 6,691 |
| Total | 533,898 | 342,863 | 242,994 | 220,351 |
| 10-Year Average | 13,967 | 13,232 | 10,433 | 7,768 |

*Partial year

# Plate 2 Bonneville Lock and Dam



# BONNEVILLE DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| Jan 1 – Mar 31 | Video counting daily 0400-2000 hours Pacific Standard Time. |
| Apr 1 – Oct 31 | Visual counting daily 0400-2000 hours Pacific Standard Time. |
| Nov 1 – Dec 31 | Video counting daily 0400-2000 hours Pacific Standard Time. |

## FISH FACILITIES OPERATION SCHEDULE

| *Fish Facility* | *Out of Service* | *In Service* | *Reason for Outage* |
|---|---|---|---|
| Washington Shore Ladder | 01 Jan | 22 Feb | Winter Maintenance |
| Cascades Island Ladder | 01 Jan | 25 Feb | Winter Maintenance |
| BI Lamprey Ramp | 01 Jan | 23 Mar | Winter Maintenance |
| BI Lamprey Ramp | 24 Oct | 31 Dec | Winter Maintenance |
| WA Shore Lamprey Ramp | NA | 18 Jun | Installation complete |
| WA Shore Lamprey Ramp | 24 Oct | 31 Dec | Winter Maintenance |
| Cascades Island exit | 01 Jan | 01 Oct | UMT closed for VBS modifications |
| UMT | 01 Jan | 09 Mar | VBS modifications to PH2 gatewells |
| UMT | 01 Oct | 31 Dec | VBS modifications to PH2 gatewells |
| AFF | 01 Jan | 26 Mar | Winter Maintenance |
| DSM1 | 01 Jan | 13 Sep | Open and running for Kelt passage. |
| DSM2 | 01 Jan | 16 Feb | Winter Maintenance |
| DSM2 | 23 May | 24 May | ERG tripped due to high debris loads clogging dewatering screens |
| DSM2 | 27 Jun | 27 Jun | ERG was intentionally tripped so screens could be inspected. Screen #3 was found to be completely occluded with debrisl. The screen was hand cleaned. |
| SMF | 31 Oct | 31 Dec | System in bypass |
| B2 Corner Collector | 01 Jan | 01 Mar | Open to flush debris. Closed until fish passage season begins. |
| B2 Corner Collector | 23 Mar | 23 Mar | Plunge pool dive. |
| B2 Corner Collector | 29 Mar | 29 Mar | Facilitate arrival and departure of VBS delivery barge. |
| B2 Corner Collector | 31 Aug | 31 Dec | Winter maintenance. |

***Fishway Auxiliary Water Supply Turbines***

*Fish Unit 1*

| | |
|---|---|
| 01 Jan - 21 Feb | OOS due to Washington shore ladder going to orifice flow. |
| 26 Feb | On standby to facilitate ROV inspection. |
| 23 Mar | On standby to facilitate the staff gauge replacement activities in the PH2 monoliths. |
| 16 Apr | OOS to facilitate N. Bonneville substation maintenance by BPA. |
| 03 Jun - 04 Jun | OOS due to water in the turbine bearing. |
| 31 Jul | OOS for Slip ring maintenance and ROV inspection. |
| 06 Aug | OOS for governor calibrations. |
| 13 Aug | OOS for model testing. |
| 03 Oct | OOS due to loss of governor pressure. |
| 07 Nov | OOS due to loose wire on metering. |
| 29 Nov | Reduced load due to trashrack raking. |
| 30 Nov | Reduced load due to stab plate installation. |

*Fish Unit 2*

| | |
|---|---|
| 01 Jan - 21 Feb | OOS due to Washington shore ladder going to orifice flow. |
| 26 Feb | On standby to facilitate ROV inspection. |
| 23 Mar | On standby to facilitate the staff gauge replacement activities in the PH2 monoliths. |
| 16 Apr | OOS to facilitate N. Bonneville substation maintenance by BPA. |
| 31 Jul | OOS for Slip ring maintenance and ROV inspection. |
| 7-Aug- | OOS for governor calibrations. |
| 13 Aug | OOS for model testing. |
| 03 Oct | OOS due to loss of governor pressure. |
| 29 Nov | Reduced load due to trashrack raking. |
| 30 Nov | Reduced load due to stab plate installation. |

Fish units 1 and 2 were placed on standby at other times during the year to “float” trash away from the trash racks. When drawdown measured one foot or greater, fish units were shut down. An adjacent unit was then operated to pull trash away from the fish unit trashracks. This procedure helped prevent debris and silt from accumulating in front of the fish units. Most of the unit outages associated with the floating of trash and debris occurred between 2400 and 0300 to minimize impact on adult fish passage.

Fish units 1 and 2 were run at reduced loading for lamprey passage studies during the hours of approximately 2200 to 0400 from 01 June until 30 September. This was done to decrease entrance velocities at PH2 and bring the differential to 0.5’ to test the efficiency of lamprey entry into the fishway. This treatment was alternated with a normal treatment, with a targeted entrance differential of 1.5’.

## FISH PASSAGE PLAN VIOLATIONS

The results of 314 daily fishway inspections, 9 conducted by National Oceanic and Atmospheric Administration (NOAA) Fisheries, or Fish Passage Center (FPC), are shown in the following table. Project Fisheries and the control room operators conduct inspections each day. Shown are the FPP violations and the percentage of days the item was **in** criteria based on Project Biologist's inspections only. Items **in** criteria 100% of the time are not listed.

| VIOLATION | % IN criteria |
|---|---|
| **PH1** | |
| Head at PH1 South collection channel | 98.1% |
| Head at PH1 North collection channel | 99.4% |
| Gate position: PH1 weir gate 64 | 97.8% |
| PH1 ITS chain gate depth 6C | 97.5% |
| PH1 ITS chain gates | 95.0% |
| Head at Bradford Island picket leads | 97.8% |
| Depth over weir at Bradford Island | 86.7% |
| Position or Head at FV3-7 | 99.4% |
| Position or Head at FV3-9 | 94.1% |
| Depth over weir at A-branch | 84.5% |
| A-branch diffusers FG3-3, FG3-4, FG3-5, FG3-6 | 3.1% |
| PH1 collection channel diffusers | 3.1% |
| Depth over weir at B-branch | 85.1% |
| B-branch diffusers | 77.7% |
| B branch entrance gates | 96.3% |
| B branch differential | 89.5% |
| **PH2** | |
| Cascades Island entrance gates | 95.7% |
| Cascades Island diffusers | 24.1% |
| cascades Island differential | 93.5% |
| Depth over weir at Upstream Migrant Transportation channel | 94.7% |
| Head or depth: PH2 North Upstream Entrance | 98.5% |
| Head or depth: PH2 North Downstream Entrance | 99.1% |
| Head or depth: PH2 South Upstream Entrance | 98.8% |
| Head or depth: PH2 South Downstream Entrance | 99.1% |
| PH2 velocity meter/collection channel velocity | 91.0% |
| PH2 floating orifice gate position | 71.8% |
| Depth over PH2 weir 67 | 93.2% |
| Depth over PH2 weir 38 | 88.2% |
| Depth over PH2 weir 37 | 94.7% |
| DSM 2 Add in valve | 99.4% |
| PH2 JBS channel elevation | 99.7% |
| PH2 JBS orifices | 91.0% |
| DSM 2 Airburst system | 46.4% |
| PH2 fish unit F1 | 98.1% |
| PH2 fish unit F2 | 98.5% |
| Smolt Monitoring Facility | 99.7% |
| calibration once a week | 92.9% |
| Inspections by Project Bios (3 inspections/week during winter maintenance, 7/week during fish passage season) | 98.7% |

TABLE 5

MONTHLY TOTALS OF SALMONID, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER BONNEVILLE DAM.
2007

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV** | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | 1 | 1 | 75 | 31,919 | 51,256 | 39,619 | 21,949 | 53,174 | 136,977 | 21,707 | 851 | 33 | 357,562 |
| STEELHEAD | 601 | 387 | 1,514 | 1,020 | 1,666 | 6,789 | 58,362 | 185,281 | 54,543 | 11,734 | 1,332 | 688 | 323,917 |
| SOCKEYE | | | | | 36 | 18,742 | 5,487 | 107 | 4 | | | | 24,376 |
| COHO* | -2 | | | | | | 6 | 8,888 | 55,968 | 28,712 | 2,947 | 57 | 96,576 |
| CHUM | | | | | | | 4 | 0 | 0 | 24 | 93 | | 121 |
| PINK | | | | | | | | 16 | 11 | | | | 27 |
| TOTAL | 600 | 388 | 1,589 | 32,939 | 52,958 | 65,150 | 85,808 | 247,466 | 247,503 | 62,177 | 5,223 | 778 | 802,579 |
| SHAD | | | | 56 | 695,605 | 1,763,670 | 112,508 | 3,438 | | | | | 2,575,277 |
| LAMPREY | | | | | 297 | 2,397 | 12,948 | 2,884 | 818 | -26 | -9 | | 19,309 |
| STURGEON | | | | | | 3 | 3 | 4 | 4 | 18 | 10 | | 42 |
| BULL TROUT | | | | | | | | | | | | | 0 |

*Jacks included
**Counts were taken from 0400-2000 PST Jan 1 - Dec 31. Visual counting occurred Apr 1 - Oct 31.
Video counting occurred Jan 1 - Mar 31 and Nov 1 - Dec 31.

TABLE 6

**MONTHLY FISH PASSAGE SUMMARY REPORT** **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JANUARY 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jan 1 | 0 | | | | 0 | | | 12 | 4 | | | | | | 138.0 | 0.5 | 5.5 | 41.0 |
| Jan 2 | 0 | | | | 0 | | | 38 | 13 | | | | | | 129.9 | 0.6 | 6.0 | 41.0 |
| Jan 3 | 0 | | | | 0 | | | 60 | 20 | | | | | | 157.3 | 0.5 | 4.0 | 41.0 |
| Jan 4 | 0 | | | | 0 | | | 70 | 24 | | | | | | 177.8 | 0.6 | 4.0 | 42.0 |
| Jan 5 | 0 | | | | 0 | | | 24 | 6 | | | | | | 190.5 | 9.6 | 2.5 | 41.0 |
| Jan 6 | 0 | | | | 0 | | | 64 | 20 | | | | | | 189.3 | 1.7 | 3.0 | 41.0 |
| Jan 7 | 0 | | | | 0 | | | 42 | 14 | | | | | | 170.6 | 0.6 | 3.5 | 42.0 |
| Jan 8 | 0 | | | | 0 | | | 41 | 13 | | | | | | 174.7 | 0.5 | 3.2 | 42.0 |
| Jan 9 | 0 | | | | 0 | | | 42 | 13 | | | | | | 172.2 | 0.5 | 4.5 | 42.0 |
| Jan 10 | 0 | | | | 0 | | | 40 | 11 | | | | | | 178.9 | 0.5 | 4.0 | 42.0 |
| Jan 11 | 0 | | | | 0 | | | 14 | 6 | | | | | | 165.0 | 0.5 | 5.0 | 42.0 |
| Jan 12 | 0 | | | | -1 | | | 16 | 4 | | | | | | 196.6 | 0.5 | 5.0 | 41.0 |
| Jan 13 | 0 | | | | 0 | | | 11 | 5 | | | | | | 190.9 | 0.6 | 4.0 | 40.0 |
| Jan 14 | 0 | | | | -1 | | | 2 | 1 | | | | | | 195.1 | 2.0 | 4.0 | 39.0 |
| Jan 15 | 0 | | | | 0 | | | 4 | 2 | | | | | | 213.1 | 23.6 | 3.5 | 39.0 |
| Jan 16 | 0 | | | | 0 | | | 7 | 2 | | | | | | 214.4 | 15.4 | 3.1 | 38.0 |
| Jan 17 | 0 | | | | 0 | | | 17 | -2 | | | | | | 200.5 | 0.5 | 3.0 | 39.0 |
| Jan 18 | 0 | | | | 0 | | | 9 | 1 | | | | | | 196.7 | 0.6 | 3.5 | 39.0 |
| Jan 19 | 1 | | | | 0 | | | 11 | 4 | | | | | | 199.2 | 0.5 | 4.0 | 39.0 |
| Jan 20 | 0 | | | | 0 | | | 13 | 2 | | | | | | 182.2 | 0.6 | 4.0 | 39.0 |
| Jan 21 | 0 | | | | 0 | | | 12 | 1 | | | | | | 158.9 | 0.6 | 5.0 | 39.0 |
| Jan 22 | 0 | | | | 0 | | | 7 | 2 | | | | | | 178.0 | 0.6 | 5.0 | 39.0 |
| Jan 23 | 0 | | | | 0 | | | 1 | 1 | | | | | | 173.2 | 0.6 | 5.0 | 39.0 |
| Jan 24 | 0 | | | | 0 | | | 14 | 4 | | | | | | 183.2 | 0.6 | 5.0 | 38.0 |
| Jan 25 | 0 | | | | 0 | | | 2 | 1 | | | | | | 176.5 | 0.5 | 3.0 | 38.0 |
| Jan 26 | 0 | | | | 0 | | | 2 | 0 | | | | | | 192.3 | 0.5 | 3.0 | 38.0 |
| Jan 27 | 0 | | | | 0 | | | 9 | 2 | | | | | | 193.4 | 0.6 | 2.5 | 38.0 |
| Jan 28 | 0 | | | | 0 | | | 3 | 1 | | | | | | 163.6 | 0.6 | 2.5 | 37.0 |
| Jan 29 | 0 | | | | 0 | | | 9 | 2 | | | | | | 165.3 | 0.6 | 3.1 | 37.0 |
| Jan 30 | 0 | | | | 0 | | | 2 | 0 | | | | | | 165.2 | 0.6 | 4.0 | 37.0 |
| Jan 31 | 0 | | | | 0 | | | 3 | 1 | | | | | | 159.0 | 0.6 | 4.5 | 37.0 |
| TOTAL | 1 | | | | -2 | | | 601 | 178 | | | | | | | | | |
| AVG | 0 | | | | 0 | | | 19 | 6 | | | | | | 178.8 | 2.2 | 3.9 | 39.6 |

**Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**

TABLE 7

**MONTHLY FISH PASSAGE SUMMARY REPORT** **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **FEBRUARY 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Feb 1 | 0 | | | | | | | 7 | 1 | | | | | | 174.1 | 0.6 | 5.0 | 37.0 |
| Feb 2 | 0 | | | | | | | 9 | 2 | | | | | | 159.0 | 0.6 | 5.8 | 37.0 |
| Feb 3 | 0 | | | | | | | 8 | 2 | | | | | | 163.2 | 0.6 | 7.0 | 37.0 |
| Feb 4 | 0 | | | | | | | 5 | 0 | | | | | | 143.7 | 0.6 | 7.0 | 37.0 |
| Feb 5 | 0 | | | | | | | 8 | 4 | | | | | | 148.7 | 0.6 | 7.0 | 37.0 |
| Feb 6 | 0 | | | | | | | 2 | 1 | | | | | | 147.4 | 0.6 | 7.0 | 38.0 |
| Feb 7 | 0 | | | | | | | -1 | 0 | | | | | | 150.6 | 0.6 | 7.0 | 38.0 |
| Feb 8 | 0 | | | | | | | 1 | 1 | | | | | | 148.0 | 0.5 | 7.0 | 38.0 |
| Feb 9 | 0 | | | | | | | 7 | 2 | | | | | | 149.7 | 0.6 | 7.0 | 38.0 |
| Feb 10 | 0 | | | | | | | 12 | 4 | | | | | | 151.6 | 0.6 | 5.0 | 38.0 |
| Feb 11 | 0 | | | | | | | 7 | 1 | | | | | | 147.5 | 0.6 | 7.0 | 38.0 |
| Feb 12 | 0 | | | | | | | 8 | 1 | | | | | | 146.6 | 0.6 | 7.0 | 38.0 |
| Feb 13 | 0 | | | | | | | 5 | 1 | | | | | | 147.4 | 0.6 | 7.0 | 39.0 |
| Feb 14 | 0 | | | | | | | 4 | 0 | | | | | | 152.7 | 0.6 | 7.0 | 39.0 |
| Feb 15 | 0 | | | | | | | 35 | 11 | | | | | | 157.4 | 0.5 | 7.0 | 38.0 |
| Feb 16 | 0 | | | | | | | 88 | 29 | | | | | | 162.9 | 0.6 | 6.0 | 39.0 |
| Feb 17 | 0 | | | | | | | 19 | 8 | | | | | | 161.1 | 0.6 | 6.0 | 40.0 |
| Feb 18 | 0 | | | | | | | 31 | 11 | | | | | | 124.6 | 0.6 | 5.0 | 40.0 |
| Feb 19 | 0 | | | | | | | 11 | 5 | | | | | | 157.6 | 0.7 | 6.0 | 40.0 |
| Feb 20 | 0 | | | | | | | 22 | 10 | | | | | | 162.4 | 0.6 | 5.0 | 41.0 |
| Feb 21 | 0 | | | | | | | 9 | 2 | | | | | | 157.0 | 0.6 | 6.0 | 41.0 |
| Feb 22 | 0 | | | | | | | 23 | 6 | | | | | | 134.3 | 0.6 | 6.0 | 41.0 |
| Feb 23 | 0 | | | | | | | 10 | 2 | | | | | | 133.8 | 0.6 | 6.0 | 41.0 |
| Feb 24 | 0 | | | | | | | 8 | 2 | | | | | | 141.2 | 0.6 | 3.0 | 41.0 |
| Feb 25 | 0 | | | | | | | 15 | 3 | | | | | | 136.2 | 0.7 | 5.5 | 41.0 |
| Feb 26 | 0 | | | | | | | 17 | 3 | | | | | | 135.8 | 0.6 | 6.0 | 41.0 |
| Feb 27 | 0 | | | | | | | 12 | 4 | | | | | | 150.4 | 0.6 | 6.0 | 41.0 |
| Feb 28 | 1 | | | | | | | 5 | 2 | | | | | | 133.1 | 0.6 | 6.5 | 41.0 |
| TOTAL | 1 | | | | | | | 387 | 118 | | | | | | | | | |
| AVG | 0 | | | | | | | 14 | 4 | | | | | | 149.2 | 0.6 | 6.2 | 39.1 |

**Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**

TABLE 8

**MONTHLY FISH PASSAGE SUMMARY REPORT** **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 0 | | | | | | | 13 | 6 | | | | | | 185.5 | 0.6 | 5.0 | 41.0 |
| Mar 2 | 0 | | | | | | | 25 | 10 | | | | | | 172.8 | 0.7 | 6.5 | 40.0 |
| Mar 3 | 0 | | | | | | | 23 | 6 | | | | | | 162.4 | 0.7 | 7.0 | 41.0 |
| Mar 4 | 2 | | | | | | | 14 | 6 | | | | | | 143.4 | 0.7 | 7.0 | 41.0 |
| Mar 5 | 0 | | | | | | | 21 | 4 | | | | | | 138.4 | 0.7 | 7.0 | 41.0 |
| Mar 6 | 1 | | | | | | | 34 | 12 | | | | | | 144.5 | 0.7 | 7.0 | 42.0 |
| Mar 7 | 4 | | | | | | | 38 | 12 | | | | | | 147.3 | 0.7 | 6.0 | 42.0 |
| Mar 8 | 5 | | | | | | | 41 | 12 | | | | | | 164.3 | 0.7 | 6.4 | 42.0 |
| Mar 9 | 2 | | | | | | | 24 | 7 | | | | | | 190.2 | 0.8 | 6.0 | 42.0 |
| Mar 10 | 0 | | | | | | | 78 | 20 | | | | | | 142.4 | 1.3 | 6.0 | 42.0 |
| Mar 11 | 0 | | | | | | | 124 | 38 | | | | | | 145.2 | 1.4 | 6.0 | 43.0 |
| Mar 12 | 0 | | | | | | | 90 | 25 | | | | | | 162.6 | 1.3 | 3.0 | 43.0 |
| Mar 13 | 2 | | | | | | | 87 | 34 | | | | | | 201.8 | 1.4 | 5.0 | 44.0 |
| Mar 14 | 4 | | | | | | | 77 | 29 | | | | | | 214.1 | 1.4 | 4.5 | 44.0 |
| Mar 15 | 2 | | | | | | | 37 | 12 | | | | | | 228.2 | 1.4 | 5.0 | 43.0 |
| Mar 16 | 0 | | | | | | | 23 | 6 | | | | | | 228.3 | 1.4 | 4.0 | 43.0 |
| Mar 17 | 1 | | | | | | | 21 | 5 | | | | | | 218.9 | 1.4 | 5.0 | 43.0 |
| Mar 18 | 3 | | | | | | | 35 | 9 | | | | | | 206.6 | 2.1 | 5.0 | 44.0 |
| Mar 19 | 3 | | | | | | | 34 | 9 | | | | | | 215.2 | 1.3 | 5.0 | 44.0 |
| Mar 20 | 5 | | | | | | | 40 | 19 | | | | | | 240.6 | 5.8 | 5.0 | 45.0 |
| Mar 21 | 1 | | | | | | | 43 | 15 | | | | | | 264.7 | 25.3 | 3.5 | 45.0 |
| Mar 22 | 2 | | | | | | | 49 | 21 | | | | | | 270.1 | 34.7 | 2.5 | 45.0 |
| Mar 23 | 3 | | | | | | | 59 | 21 | | | | | | 184.5 | 8.0 | 3.0 | 46.0 |
| Mar 24 | 5 | | | | | | | 60 | 21 | | | | | | 251.7 | 30.7 | 3.5 | 46.0 |
| Mar 25 | 6 | | | | | | | 55 | 22 | | | | | | 252.6 | 31.3 | 3.5 | 46.0 |
| Mar 26 | 8 | | | | | | | 53 | 12 | | | | | | 286.3 | 58.2 | 3.0 | 46.0 |
| Mar 27 | 10 | | | | | | | 55 | 12 | | | | | | 248.7 | 48.9 | 4.0 | 46.0 |
| Mar 28 | 3 | | | | | | | 67 | 19 | | | | | | 249.2 | 49.3 | 3.0 | 46.0 |
| Mar 29 | 1 | | | | | | | 59 | 11 | | | | | | 278.4 | 58.4 | 4.0 | 47.0 |
| Mar 30 | 0 | | | | | | | 78 | 21 | | | | | | 266.0 | 35.6 | 3.0 | 47.0 |
| Mar 31 | 2 | | | | | | | 57 | 20 | | | | | | 293.1 | 55.5 | 4.0 | 47.0 |
| TOTAL | 75 | | | | | | | 1,514 | 476 | | | | | | | | | |
| AVG | 2 | | | | | | | 49 | 15 | | | | | | 209.6 | 14.9 | 4.8 | 43.8 |

**Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Visual counting started April 1.**

**Official Spring Chinook run started March 15. January, February, and March 1-14 Chinook counts were not added to spring totals**

TABLE 9

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **APRIL 2007**

**FISH COUNTS** — **RIVER CONDITIONS**

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apr 1 | 8 | | | 0 | | | | 77 | 24 | | | 0 | | | 279.7 | 78.5 | 3.5 | 46.0 |
| Apr 2 | 3 | | | 0 | | | | 40 | 14 | | | 0 | | | 254.0 | 46.0 | 3.5 | 46.0 |
| Apr 3 | 3 | | | 0 | | | | 53 | 15 | | | 0 | | | 275.8 | 51.4 | 3.2 | 46.0 |
| Apr 4 | 2 | | | 0 | | | | 54 | 16 | | | 0 | | | 252.9 | 28.6 | 3.5 | 46.0 |
| Apr 5 | 10 | | | 0 | | | | 37 | 9 | | | 0 | | | 272.3 | 50.2 | 4.0 | 47.0 |
| Apr 6 | 36 | | | 1 | | | | 52 | 21 | | | 0 | | | 242.0 | 18.0 | 4.5 | 47.0 |
| Apr 7 | 21 | | | 0 | | | | 39 | 17 | | | 0 | | | 223.7 | 1.6 | 4.0 | 47.0 |
| Apr 8 | 36 | | | 0 | | | | 38 | 14 | | | 0 | | | 210.6 | 1.6 | 5.8 | 47.0 |
| Apr 9 | 65 | | | 1 | | | | 29 | 6 | | | 0 | | | 210.2 | 1.7 | 4.0 | 47.0 |
| Apr 10 | 128 | | | 1 | | | | 35 | 4 | | | 0 | | | 240.5 | 98.9 | 5.0 | 48.0 |
| Apr 11 | 253 | | | 1 | | | | 35 | 12 | | | 0 | | | 247.9 | 100.3 | 5.0 | 48.0 |
| Apr 12 | 183 | | | 2 | | | | 19 | 4 | | | 0 | | | 205.2 | 100.3 | 5.0 | 48.0 |
| Apr 13 | 651 | | | 2 | | | | 46 | 11 | | | 0 | | | 266.9 | 100.5 | 5.0 | 48.0 |
| Apr 14 | 368 | | | -1 | | | | 40 | 18 | | | 0 | | | 219.5 | 101.1 | 6.0 | 48.0 |
| Apr 15 | 429 | | | 0 | | | | 32 | 9 | | | 0 | | | 255.7 | 100.4 | 5.0 | 48.0 |
| Apr 16 | 804 | | | 2 | | | | 20 | 6 | | | 0 | | | 211.5 | 100.9 | 5.0 | 49.0 |
| Apr 17 | 1,245 | | | 6 | | | | 44 | 12 | | | 0 | | | 251.6 | 98.9 | 5.0 | 49.0 |
| Apr 18 | 1,643 | | | 7 | | | | 37 | 17 | | | 0 | | | 230.6 | 97.7 | 6.0 | 49.0 |
| Apr 19 | 1,496 | | | 18 | | | | 30 | 19 | | | 0 | | | 222.9 | 98.9 | 6.0 | 49.0 |
| Apr 20 | 1,295 | | | 19 | | | | 26 | 7 | | | 0 | | | 226.9 | 99.6 | 4.2 | 50.0 |
| Apr 21 | 616 | | | 10 | | | | 15 | 7 | | | 0 | | | 232.4 | 100.2 | 5.0 | 50.0 |
| Apr 22 | 1,358 | | | 27 | | | | 24 | 13 | | | 0 | | | 231.7 | 99.5 | 5.0 | 50.0 |
| Apr 23 | 1,723 | | | 37 | | | | 23 | 5 | | | 0 | | | 242.8 | 98.5 | 4.5 | 51.0 |
| Apr 24 | 2,550 | | | 81 | | | | 16 | 8 | | | 0 | | | 209.3 | 98.1 | 5.0 | 51.0 |
| Apr 25 | 3,428 | | | 78 | | | | 25 | 8 | | | 1 | | | 220.9 | 98.8 | 6.5 | 50.0 |
| Apr 26 | 2,615 | | | 156 | | | | 30 | 9 | | | 2 | | | 235.6 | 98.6 | 6.0 | 51.0 |
| Apr 27 | 2,470 | | | 154 | | | | 30 | 5 | | | 1 | | | 223.2 | 99.3 | 6.5 | 52.0 |
| Apr 28 | 2,371 | | | 151 | | | | 16 | 5 | | | 11 | | | 236.0 | 97.4 | 5.5 | 50.0 |
| Apr 29 | 2,976 | | | 341 | | | | 33 | 9 | | | 18 | | | 240.8 | 93.9 | 4.5 | 52.0 |
| Apr 30 | 1,829 | | | 210 | | | | 25 | 6 | | | 23 | | | 244.4 | 93.9 | 5.0 | 53.0 |
| TOTAL | 30,615 | | | 1,304 | | | | 1,020 | 330 | | | 56 | | | | | | |
| AVG | 1,021 | | | 43 | | | | 34 | 11 | | | 2 | | | 237.3 | 78.4 | 4.9 | 48.8 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | SHAD |
|---|---|---|---|---|---|
| SPRING | 30,670 | 1,304 | 1,845 | 585 | 56 |

TABLE 10

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 2,387 | | | 345 | | | 0 | 33 | 11 | | | 11 | 0 | | 268.6 | 92.7 | 4.0 | 53.0 |
| May 2 | 2,361 | | | 378 | | | 0 | 24 | 4 | | | 10 | 0 | | 267.3 | 92.8 | 5.5 | 53.0 |
| May 3 | 1,606 | | | 428 | | | 0 | 36 | 6 | | | 12 | 0 | | 271.8 | 93.3 | 5.0 | 53.0 |
| May 4 | 1,835 | | | 457 | | | 0 | 33 | 4 | | | 18 | 0 | | 284.8 | 94.1 | 4.0 | 53.0 |
| May 5 | 1,412 | | | 469 | | | 0 | 28 | 5 | | | 28 | 0 | | 294.4 | 95.9 | 4.0 | 53.0 |
| May 6 | 1,079 | | | 425 | | | 0 | 33 | 2 | | | 343 | 0 | | 278.5 | 97.5 | 4.0 | 53.0 |
| May 7 | 2,433 | | | 919 | | | 0 | 48 | 7 | | | 1,362 | 0 | | 265.4 | 97.2 | 5.2 | 54.0 |
| May 8 | 2,928 | | | 1,249 | | | 0 | 37 | 4 | | | 2,604 | 0 | | 261.5 | 97.1 | 5.5 | 54.0 |
| May 9 | 1,881 | | | 871 | | | 0 | 43 | 4 | | | 1,380 | 0 | | 281.0 | 94.4 | 4.0 | 56.0 |
| May 10 | 1,182 | | | 661 | | | 0 | 38 | 9 | | | 800 | 0 | | 284.2 | 92.5 | 4.0 | 55.0 |
| May 11 | 1,437 | | | 870 | | | 0 | 33 | 5 | | | 2,383 | 1 | | 285.2 | 94.6 | 5.0 | 55.0 |
| May 12 | 998 | | | 610 | | | 0 | 40 | 4 | | | 3,321 | 0 | | 283.8 | 97.3 | 4.0 | 55.0 |
| May 13 | 811 | | | 494 | | | 0 | 25 | 1 | | | 1,161 | 0 | | 257.5 | 97.7 | 4.0 | 55.0 |
| May 14 | 931 | | | 1,024 | | | 0 | 46 | 2 | | | 5,569 | 1 | | 301.0 | 98.9 | 4.0 | 55.0 |
| May 15 | 1,077 | | | 841 | | | 0 | 50 | 5 | | | 17,455 | -1 | | 292.0 | 98.2 | 5.0 | 56.0 |
| May 16 | 845 | | | 488 | | | 0 | 65 | 5 | | | 15,996 | 1 | | 274.3 | 99.0 | 4.0 | 56.0 |
| May 17 | 1,277 | | | 615 | | | 0 | 55 | 7 | | | 11,164 | 2 | | 268.2 | 98.4 | 5.0 | 57.0 |
| May 18 | 998 | | | 451 | | | 0 | 50 | 4 | | | 46,970 | 5 | | 269.4 | 98.1 | 3.0 | 57.0 |
| May 19 | 792 | | | 347 | | | 0 | 40 | 9 | | | 44,333 | 18 | | 278.2 | 98.0 | 4.5 | 57.0 |
| May 20 | 585 | | | 300 | | | 0 | 32 | 7 | | | 37,973 | 17 | | 266.1 | 98.2 | 3.5 | 58.0 |
| May 21 | 498 | | | 270 | | | 0 | 33 | 6 | | | 20,336 | 6 | | 256.5 | 97.8 | 5.0 | 58.0 |
| May 22 | 595 | | | 288 | | | 0 | 43 | 6 | | | 11,582 | 8 | | 270.7 | 98.1 | 4.0 | 58.0 |
| May 23 | 539 | | | 301 | | | 0 | 49 | 10 | | | 24,629 | 22 | | 269.0 | 98.6 | 4.0 | 57.0 |
| May 24 | 589 | | | 362 | | | 0 | 67 | 9 | | | 51,736 | 16 | | 267.5 | 99.0 | 6.0 | 58.0 |
| May 25 | 573 | | | 357 | | | 0 | 96 | 12 | | | 71,238 | 5 | | 272.7 | 98.0 | 5.2 | 58.0 |
| May 26 | 711 | | | 349 | | | 1 | 97 | 19 | | | 60,187 | 3 | | 253.6 | 95.6 | 5.8 | 59.0 |
| May 27 | 749 | | | 204 | | | 1 | 96 | 9 | | | 30,385 | 13 | | 221.4 | 92.2 | 5.0 | 59.0 |
| May 28 | 909 | | | 304 | | | 2 | 118 | 18 | | | 30,992 | 20 | | 269.5 | 92.5 | 4.0 | 59.0 |
| May 29 | 644 | | | 176 | | | 5 | 89 | 13 | | | 43,375 | 15 | | 248.8 | 96.6 | 5.0 | 59.0 |
| May 30 | 571 | | | 202 | | | 14 | 98 | 12 | | | 56,751 | 15 | | 244.5 | 97.7 | 5.0 | 59.0 |
| May 31 | 721 | | | 247 | | | 13 | 91 | 21 | | | 101,501 | 130 | | 250.3 | 98.3 | 5.5 | 60.0 |
| TOTAL | 35,954 | | | 15,302 | | | 36 | 1,666 | 240 | | | 695,605 | 297 | | | | | |
| AVG | 1,160 | | | 494 | | | 1 | 54 | 8 | | | 22,439 | 10 | | 269.6 | 96.5 | 4.6 | 56.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|---|
| SPRING | 66,624 | 16,606 | 36 | 3,511 | 825 | 695,661 | 297 |

TABLE 11

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | | 858 | | 254 | | | 25 | 89 | 14 | | | 148,119 | 131 | 0 | 223.2 | 96.9 | 5.0 | 61.0 |
| Jun 2 | | 784 | | 238 | | | 28 | 102 | 18 | | | 55,938 | 116 | 0 | 230.9 | 94.8 | 5.5 | 61.0 |
| Jun 3 | | 909 | | 247 | | | 44 | 79 | 12 | | | 96,149 | 128 | 0 | 219.4 | 96.4 | 7.0 | 62.0 |
| Jun 4 | | 647 | | 240 | | | 48 | 90 | 18 | | | 28,584 | 179 | 0 | 240.7 | 97.5 | 5.0 | 62.0 |
| Jun 5 | | 1,194 | | 241 | | | 60 | 111 | 32 | | | 49,807 | 171 | 0 | 223.4 | 98.5 | 6.0 | 62.0 |
| Jun 6 | | 1,096 | | 204 | | | 72 | 77 | 14 | | | 31,651 | 127 | 0 | 250.3 | 98.9 | 6.0 | 62.0 |
| Jun 7 | | 795 | | 139 | | | 87 | 88 | 13 | | | 38,819 | 116 | 0 | 240.9 | 98.6 | 6.0 | 61.0 |
| Jun 8 | | 878 | | 201 | | | 164 | 71 | 10 | | | 28,808 | 64 | 0 | 249.3 | 98.8 | 5.0 | 61.0 |
| Jun 9 | | 1,015 | | 216 | | | 176 | 116 | 18 | | | 94,273 | 124 | 0 | 282.6 | 99.3 | 4.0 | 62.0 |
| Jun 10 | | 797 | | 201 | | | 237 | 120 | 18 | | | 76,883 | 132 | 0 | 254.1 | 98.5 | 5.0 | 62.0 |
| Jun 11 | | 1,088 | | 271 | | | 345 | 162 | 16 | | | 112,974 | 132 | 0 | 268.5 | 98.2 | 5.0 | 62.0 |
| Jun 12 | | 1,100 | | 279 | | | 385 | 159 | 9 | | | 82,895 | 77 | 0 | 237.5 | 98.0 | 6.0 | 62.0 |
| Jun 13 | | 1,079 | | 289 | | | 511 | 190 | 22 | | | 69,254 | 54 | 0 | 236.9 | 98.7 | 5.0 | 62.0 |
| Jun 14 | | 984 | | 338 | | | 600 | 144 | 14 | | | 40,710 | 113 | 0 | 247.2 | 99.6 | 4.0 | 62.0 |
| Jun 15 | | 959 | | 275 | | | 600 | 119 | 10 | | | 101,543 | 43 | 0 | 237.2 | 99.2 | 6.0 | 62.0 |
| Jun 16 | | 948 | | 289 | | | 712 | 171 | 28 | | | 54,703 | 27 | 0 | 214.7 | 98.4 | 3.5 | 62.0 |
| Jun 17 | | 1,117 | | 306 | | | 757 | 166 | 22 | | | 29,873 | 34 | 0 | 194.4 | 98.3 | 5.0 | 61.0 |
| Jun 18 | | 900 | | 259 | | | 856 | 199 | 25 | | | 22,120 | 21 | 0 | 221.2 | 98.2 | 5.0 | 61.0 |
| Jun 19 | | 1,070 | | 274 | | | 829 | 191 | 26 | | | 62,255 | 57 | 0 | 229.4 | 98.2 | 6.0 | 61.0 |
| Jun 20 | | 1,202 | | 329 | | | 1,273 | 223 | 31 | | | 83,635 | 51 | 0 | 201.3 | 102.8 | 5.8 | 62.0 |
| Jun 21 | | 1,414 | | 384 | | | 1,334 | 249 | 47 | | | 121,519 | 104 | 0 | 194.8 | 92.3 | 5.0 | 62.0 |
| Jun 22 | | 1,293 | | 349 | | | 1,606 | 204 | 47 | | | 66,378 | 95 | 1 | 210.2 | 91.7 | 5.2 | 63.0 |
| Jun 23 | | 1,176 | | 398 | | | 1,424 | 304 | 64 | | | 45,654 | 37 | 0 | 209.6 | 91.3 | 6.6 | 63.0 |
| Jun 24 | | 1,322 | | 460 | | | 1,398 | 356 | 73 | | | 89,609 | 12 | 1 | 184.5 | 78.8 | 3.5 | 63.0 |
| Jun 25 | | 1,190 | | 361 | | | 951 | 350 | 86 | | | 24,074 | 28 | 0 | 166.8 | 92.3 | 5.0 | 63.0 |
| Jun 26 | | 967 | | 276 | | | 869 | 255 | 60 | | | 19,980 | 33 | 0 | 191.3 | 94.2 | 4.5 | 63.0 |
| Jun 27 | | 1,376 | | 265 | | | 951 | 472 | 120 | | | 23,481 | 50 | 1 | 176.6 | 93.3 | 4.0 | 63.0 |
| Jun 28 | | 1,301 | | 341 | | | 843 | 624 | 180 | | | 23,504 | 12 | 0 | 170.0 | 93.5 | 5.0 | 64.0 |
| Jun 29 | | 1,097 | | 230 | | | 815 | 714 | 179 | | | 22,459 | 36 | 0 | 172.5 | 91.4 | 6.0 | 64.0 |
| Jun 30 | | 707 | | 202 | | | 742 | 594 | 164 | | | 18,019 | 93 | 0 | 205.8 | 89.4 | 4.5 | 64.0 |
| TOTAL | | 31,263 | | 8,356 | | | 18,742 | 6,789 | 1,390 | | | 1,763,670 | 2,397 | 3 | | | | |
| AVG | | 1,042 | | 279 | | | 625 | 226 | 46 | | | 58,789 | 80 | 0 | 219.5 | 95.9 | 5.2 | 62.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 31,263 | 8,356 |
| TOTAL | 97,887 | 24,962 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD |
|---|---|---|
| 18,778 | 10,300 | 2,215 |

| SHAD | LAMPREY | STURGEON |
|---|---|---|
| 2,459,331 | 2,694 | 3 |

TABLE 12

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 849 | | 197 | 0 | | 778 | 690 | 213 | | 0 | 21,125 | 59 | 1 | 161.9 | 89.2 | 5.3 | 65.0 |
| Jul 2 | | 925 | | 154 | 0 | | 572 | 576 | 190 | | 0 | 11,190 | 89 | 0 | 131.8 | 89.0 | 4.0 | 65.0 |
| Jul 3 | | 823 | | 301 | 0 | | 504 | 600 | 234 | | 0 | 11,432 | 117 | 0 | 172.6 | 88.4 | 3.5 | 65.0 |
| Jul 4 | | 990 | | 437 | 0 | | 411 | 745 | 275 | | 0 | 10,084 | 240 | 0 | 149.8 | 86.7 | 5.0 | 65.0 |
| Jul 5 | | 917 | | 377 | 0 | | 409 | 821 | 313 | | 0 | 10,071 | 390 | 0 | 168.1 | 86.8 | 7.0 | 66.0 |
| Jul 6 | | 899 | | 264 | 0 | | 384 | 932 | 359 | | 0 | 7,185 | 760 | 0 | 187.0 | 87.3 | 6.0 | 67.0 |
| Jul 7 | | 747 | | 236 | 0 | | 259 | 1,062 | 439 | | 0 | 5,704 | 524 | 0 | 162.1 | 88.0 | 6.0 | 67.0 |
| Jul 8 | | 757 | | 232 | 0 | | 256 | 1,151 | 480 | | 0 | 4,526 | 500 | 0 | 165.9 | 88.8 | 7.0 | 67.0 |
| Jul 9 | | 589 | | 157 | 0 | | 228 | 1,003 | 416 | | 0 | 3,273 | 599 | 0 | 184.1 | 90.2 | 7.0 | 67.0 |
| Jul 10 | | 545 | | 150 | 0 | | 194 | 1,090 | 467 | | 0 | 3,701 | 745 | 0 | 181.2 | 91.1 | 7.0 | 68.0 |
| Jul 11 | | 546 | | 177 | 0 | | 232 | 1,400 | 604 | | 0 | 3,748 | 975 | 0 | 175.3 | 92.3 | 5.5 | 68.0 |
| Jul 12 | | 505 | | 180 | 0 | | 131 | 1,303 | 624 | | 0 | 2,640 | 979 | 0 | 190.7 | 94.1 | 7.0 | 69.0 |
| Jul 13 | | 489 | | 283 | 0 | | 207 | 1,536 | 677 | | 0 | 2,072 | 816 | 0 | 203.5 | 94.2 | 5.0 | 70.0 |
| Jul 14 | | 453 | | 205 | 0 | | 128 | 1,610 | 701 | | 0 | 2,124 | 414 | 0 | 208.8 | 95.2 | 5.0 | 70.0 |
| Jul 15 | | 559 | | 208 | 0 | | 120 | 1,794 | 845 | | 0 | 1,839 | 640 | 0 | 190.5 | 97.9 | 6.0 | 70.0 |
| Jul 16 | | 464 | | 173 | 0 | | 115 | 1,873 | 855 | | 0 | 1,118 | 772 | 0 | 210.3 | 91.1 | 5.0 | 71.0 |
| Jul 17 | | 440 | | 118 | 0 | | 107 | 1,682 | 710 | | 0 | 943 | 517 | 1 | 199.6 | 90.1 | 5.0 | 71.0 |
| Jul 18 | | 400 | | 102 | 1 | | 93 | 1,514 | 627 | | 1 | 1,025 | 228 | 0 | 166.9 | 93.1 | 7.0 | 70.0 |
| Jul 19 | | 503 | | 139 | 0 | | 65 | 2,331 | 986 | | 0 | 1,195 | 297 | 1 | 166.0 | 96.4 | 6.0 | 70.0 |
| Jul 20 | | 402 | | 86 | 0 | | 52 | 2,673 | 1,169 | | 1 | 1,442 | 319 | 0 | 165.8 | 98.8 | 6.3 | 70.0 |
| Jul 21 | | 422 | | 101 | 1 | | 41 | 3,062 | 1,314 | | 0 | 1,113 | 279 | 0 | 159.8 | 98.8 | 7.0 | 70.0 |
| Jul 22 | | 455 | | 113 | 0 | | 27 | 2,457 | 996 | | 0 | 1,073 | 288 | 0 | 171.2 | 98.2 | 5.0 | 70.0 |
| Jul 23 | | 382 | | 128 | 0 | | 28 | 3,114 | 1,253 | | 0 | 706 | 471 | 0 | 183.6 | 96.6 | 6.0 | 70.0 |
| Jul 24 | | 444 | | 167 | 0 | | 32 | 3,384 | 1,318 | | 0 | 491 | 307 | 0 | 163.7 | 93.6 | 7.0 | 70.0 |
| Jul 25 | | 290 | | 116 | 1 | | 20 | 3,035 | 1,143 | | 0 | 514 | 247 | 0 | 160.0 | 95.0 | 6.0 | 71.0 |
| Jul 26 | | 402 | | 137 | 0 | | 15 | 3,261 | 1,151 | | 1 | 380 | 293 | 0 | 165.2 | 95.1 | 6.0 | 71.0 |
| Jul 27 | | 309 | | 88 | 0 | | 19 | 2,558 | 813 | | 0 | 247 | 239 | 0 | 182.2 | 95.4 | 6.0 | 71.0 |
| Jul 28 | | 356 | | 111 | 0 | | 13 | 2,409 | 754 | | 0 | 417 | 270 | 0 | 171.5 | 94.9 | 7.0 | 71.0 |
| Jul 29 | | 315 | | 75 | 0 | | 21 | 3,272 | 1,095 | | 1 | 618 | 240 | 0 | 151.5 | 95.3 | 6.0 | 71.0 |
| Jul 30 | | 239 | | 65 | 1 | | 16 | 3,021 | 1,071 | | 0 | 186 | 123 | 0 | 169.6 | 95.0 | 7.0 | 71.0 |
| Jul 31 | | 203 | | 53 | 2 | | 10 | 2,403 | 882 | | 0 | 326 | 211 | 0 | 173.3 | 96.6 | 6.0 | 71.0 |
| TOTAL | | 16,619 | | 5,330 | 6 | | 5,487 | 58,362 | 22,974 | | 4 | 112,508 | 12,948 | 3 | | | | |
| AVG | | 536 | | 172 | 0 | | 177 | 1,883 | 741 | | 0 | 3,629 | 418 | 0 | 174.0 | 93.0 | 6.0 | 69.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | SOCKEYE | STEELHEAD | WILD STEELHEAD | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|---|
| SPRING | 66,624 | 16,606 | 6 | 24,265 | 68,662 | 25,189 | 4 | 2,571,839 | 15,642 | 6 |
| SUMMER | 47,882 | 13,686 | | | | | | | | |
| TOTAL | 114,506 | 30,292 | | | | | | | | |

TABLE 13

**MONTHLY FISH PASSAGE SUMMARY REPORT** **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | | 388 | 107 | 0 | 1 | 22 | 5,927 | 2,015 | 0 | | 334 | 312 | 0 | 176.6 | 98.4 | 6.5 | 71.0 |
| Aug 2 | | | 343 | 62 | 0 | 0 | 14 | 6,888 | 2,143 | 0 | | 356 | 483 | 0 | 194.7 | 100.4 | 7.0 | 71.0 |
| Aug 3 | | | 378 | 96 | 4 | 0 | 11 | 6,666 | 1,856 | 1 | | 296 | 356 | 0 | 167.3 | 95.2 | 6.0 | 71.0 |
| Aug 4 | | | 328 | 89 | 4 | 3 | 8 | 7,833 | 2,101 | 0 | | 324 | 295 | 1 | 135.5 | 88.7 | 6.0 | 72.0 |
| Aug 5 | | | 282 | 53 | 9 | 1 | 8 | 7,403 | 1,815 | 0 | | 328 | 125 | 0 | 142.4 | 92.8 | 6.0 | 71.0 |
| Aug 6 | | | 235 | 60 | 4 | 2 | 8 | 6,057 | 1,571 | 0 | | 254 | 168 | 1 | 140.5 | 93.0 | 5.0 | 71.0 |
| Aug 7 | | | 347 | 60 | 0 | 1 | 6 | 5,385 | 1,348 | 0 | | 215 | 65 | 0 | 137.4 | 91.0 | 6.5 | 71.0 |
| Aug 8 | | | 373 | 86 | 0 | 2 | 4 | 4,000 | 1,089 | 0 | | 148 | 63 | 0 | 151.0 | 93.4 | 6.0 | 71.0 |
| Aug 9 | | | 389 | 74 | 1 | 0 | 2 | 4,400 | 1,213 | 0 | | 85 | 63 | 0 | 152.8 | 97.7 | 4.5 | 70.0 |
| Aug 10 | | | 350 | 49 | 1 | 1 | 3 | 4,004 | 1,099 | 0 | | 66 | 41 | 0 | 162.3 | 97.2 | 5.0 | 70.0 |
| Aug 11 | | | 412 | 42 | 2 | 0 | 7 | 4,823 | 1,365 | 0 | | 85 | 95 | 0 | 163.8 | 98.4 | 7.0 | 70.0 |
| Aug 12 | | | 514 | 87 | 2 | 0 | 0 | 5,496 | 1,474 | 0 | | 122 | 63 | 0 | 154.2 | 94.8 | 6.5 | 70.0 |
| Aug 13 | | | 616 | 110 | 4 | 1 | 2 | 6,165 | 1,522 | 0 | | 72 | 75 | 0 | 131.3 | 86.4 | 7.0 | 70.0 |
| Aug 14 | | | 642 | 117 | 20 | 3 | 0 | 7,572 | 1,805 | 0 | | 44 | 97 | 0 | 164.8 | 94.7 | 7.0 | 70.0 |
| Aug 15 | | | 859 | 134 | 19 | 6 | 0 | 7,217 | 1,668 | 1 | | 38 | 150 | 0 | 165.8 | 97.3 | 7.0 | 70.0 |
| Aug 16 | | | 996 | 126 | 44 | 8 | 2 | 7,379 | 1,710 | 0 | | 50 | 95 | 0 | 160.2 | 101.4 | 7.0 | 71.0 |
| Aug 17 | | | 1,395 | 146 | 29 | 3 | 4 | 8,893 | 1,886 | 2 | | 43 | 35 | 0 | 149.7 | 96.9 | 7.0 | 70.0 |
| Aug 18 | | | 1,338 | 163 | 56 | 17 | 0 | 9,906 | 2,092 | 0 | | 68 | 3 | 0 | 128.5 | 84.1 | 6.0 | 70.0 |
| Aug 19 | | | 1,174 | 126 | 71 | 11 | 1 | 11,039 | 2,132 | 0 | | 90 | 19 | 1 | 117.1 | 75.2 | 5.0 | 70.0 |
| Aug 20 | | | 1,103 | 112 | 69 | 13 | 0 | 9,354 | 1,717 | 0 | | 31 | 16 | 0 | 118.4 | 76.1 | 7.0 | 70.0 |
| Aug 21 | | | 861 | 90 | 83 | 6 | 0 | 6,256 | 1,147 | 0 | | 44 | 60 | 0 | 125.7 | 82.3 | 7.0 | 69.0 |
| Aug 22 | | | 1,374 | 88 | 91 | 14 | 0 | 4,709 | 917 | 1 | | 27 | 41 | 0 | 146.0 | 94.7 | 6.0 | 69.0 |
| Aug 23 | | | 1,807 | 142 | 185 | 14 | 0 | 4,237 | 882 | 0 | | 23 | -10 | 0 | 138.4 | 92.8 | 7.0 | 70.0 |
| Aug 24 | | | 1,728 | 138 | 222 | 20 | 1 | 4,759 | 919 | 1 | | 78 | 11 | 0 | 134.8 | 86.8 | 5.0 | 70.0 |
| Aug 25 | | | 1,709 | 220 | 268 | 28 | 0 | 5,879 | 1,236 | 1 | | 35 | 26 | 0 | 126.9 | 83.6 | 5.0 | 70.0 |
| Aug 26 | | | 2,497 | 267 | 372 | 20 | 0 | 5,705 | 1,169 | 4 | | 35 | 38 | 1 | 118.0 | 75.9 | 4.5 | 70.0 |
| Aug 27 | | | 2,377 | 314 | 420 | 23 | 1 | 4,159 | 850 | 3 | | 21 | 21 | 0 | 119.0 | 76.2 | 7.0 | 70.0 |
| Aug 28 | | | 3,370 | 332 | 578 | 18 | 1 | 3,152 | 588 | 1 | | 42 | 6 | 0 | 131.9 | 80.1 | 7.0 | 70.0 |
| Aug 29 | | | 6,103 | 689 | 1,327 | 56 | 0 | 2,852 | 556 | 1 | | 19 | 31 | 0 | 142.5 | 84.5 | 7.0 | 70.0 |
| Aug 30 | | | 6,670 | 888 | 2,186 | 83 | 1 | 3,384 | 662 | 0 | | 25 | 17 | 0 | 153.8 | 86.6 | 7.0 | 70.0 |
| Aug 31 | | | 6,259 | 890 | 2,358 | 104 | 1 | 3,782 | 678 | 0 | | 40 | 24 | 0 | 132.2 | 84.9 | 7.0 | 70.0 |
| TOTAL | | | 47,217 | 5,957 | 8,429 | 459 | 107 | 185,281 | 43,225 | 16 | | 3,438 | 2,884 | 4 | | | | |
| AVG | | | 1,523 | 192 | 272 | 15 | 3 | 5,977 | 1,394 | | | 111 | 93 | 0 | 144.6 | 89.7 | 6.3 | 70.3 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 47,882 | 13,686 |
| FALL | 47,217 | 5,957 |
| TOTAL | 161,723 | 36,249 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|
| 8,435 | 459 | 24,372 | 253,943 | 68,414 | 16 | 4 | 2,575,277 | 18,526 | 10 |

TABLE 14

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 4,961 | 1,063 | 2,429 | 130 | 0 | 3,526 | 644 | 3 | | | 48 | 0 | 125.4 | 3.0 | 7.0 | 70.0 |
| Sep 2 | | | 4,416 | 819 | 2,055 | 77 | 1 | 2,653 | 567 | 1 | | | 174 | 0 | 101.1 | 1.5 | 6.0 | 71.0 |
| Sep 3 | | | 4,491 | 885 | 1,983 | 101 | 0 | 2,600 | 537 | 1 | | | 76 | 0 | 102.2 | 1.5 | 7.0 | 71.0 |
| Sep 4 | | | 5,906 | 1,117 | 2,151 | 50 | 2 | 2,664 | 583 | 1 | | | 142 | 0 | 100.8 | 1.5 | 6.0 | 71.0 |
| Sep 5 | | | 4,156 | 1,062 | 2,361 | 56 | 0 | 2,304 | 448 | 0 | | | 83 | 0 | 111.5 | 1.5 | 7.0 | 71.0 |
| Sep 6 | | | 5,369 | 1,335 | 1,892 | 53 | 0 | 2,224 | 430 | 1 | | | 47 | 0 | 116.8 | 1.5 | 6.0 | 70.0 |
| Sep 7 | | | 4,842 | 1,526 | 1,632 | 95 | 0 | 1,727 | 333 | 0 | | | 13 | 0 | 91.1 | 1.5 | 7.0 | 70.0 |
| Sep 8 | | | 4,953 | 1,433 | 1,774 | 85 | 0 | 1,834 | 405 | 0 | | | 17 | 0 | 85.5 | 1.5 | 7.0 | 70.0 |
| Sep 9 | | | 4,515 | 1,577 | 2,175 | 90 | 0 | 1,611 | 340 | 0 | | | 7 | 0 | 80.9 | 1.5 | 6.5 | 70.0 |
| Sep 10 | | | 5,021 | 1,646 | 4,741 | 137 | 0 | 1,940 | 408 | 1 | | | 2 | 0 | 77.8 | 1.5 | 7.0 | 69.0 |
| Sep 11 | | | 2,386 | 1,155 | 3,485 | 121 | 0 | 1,607 | 281 | 0 | | | 60 | 0 | 96.6 | 1.5 | 7.0 | 68.0 |
| Sep 12 | | | 4,141 | 1,805 | 3,832 | 84 | 0 | 2,367 | 422 | 2 | | | 6 | 0 | 99.8 | 1.5 | 7.0 | 69.0 |
| Sep 13 | | | 2,926 | 1,621 | 2,273 | 120 | 1 | 1,886 | 312 | 0 | | | 14 | 0 | 90.0 | 1.5 | 7.0 | 69.0 |
| Sep 14 | | | 2,367 | 1,405 | 1,358 | 73 | 0 | 1,973 | 378 | 0 | | | 43 | 0 | 95.4 | 1.5 | 7.0 | 69.0 |
| Sep 15 | | | 2,207 | 1,250 | 1,422 | 42 | 0 | 1,620 | 312 | 0 | | | 28 | 1 | 86.2 | 1.5 | 7.0 | 69.0 |
| Sep 16 | | | 1,685 | 811 | 1,238 | 28 | 0 | 1,254 | 243 | 0 | | | 21 | 0 | 77.4 | 1.5 | 7.0 | 69.0 |
| Sep 17 | | | 2,439 | 1,014 | 1,357 | 31 | 0 | 1,277 | 227 | 1 | | | 11 | 0 | 81.7 | 1.4 | 7.0 | 68.0 |
| Sep 18 | | | 2,499 | 908 | 1,333 | 44 | 0 | 1,433 | 261 | 0 | | | 24 | -1 | 86.5 | 1.4 | 7.0 | 68.0 |
| Sep 19 | | | 3,204 | 1,654 | 1,253 | 34 | 0 | 1,647 | 279 | 0 | | | -3 | 0 | 91.3 | 1.4 | 6.0 | 67.0 |
| Sep 20 | | | 5,125 | 3,052 | 2,268 | 58 | 0 | 2,571 | 380 | 0 | | | 1 | 1 | 96.8 | 1.5 | 7.0 | 67.0 |
| Sep 21 | | | 4,724 | 3,620 | 2,422 | 73 | 0 | 2,932 | 472 | 0 | | | 10 | 0 | 93.2 | 1.4 | 7.0 | 67.0 |
| Sep 22 | | | 3,154 | 2,289 | 2,057 | 113 | 0 | 2,464 | 354 | 0 | | | 1 | 0 | 93.3 | 1.4 | 6.0 | 67.0 |
| Sep 23 | | | 2,093 | 1,344 | 1,401 | 96 | 0 | 1,842 | 298 | 0 | | | 8 | 0 | 81.1 | 1.4 | 6.0 | 66.0 |
| Sep 24 | | | 1,898 | 1,380 | 920 | 67 | 0 | 1,320 | 194 | 0 | | | 6 | 1 | 80.2 | 1.4 | 7.0 | 66.0 |
| Sep 25 | | | 1,602 | 1,101 | 896 | 63 | 0 | 1,192 | 196 | 0 | | | 8 | 0 | 80.0 | 1.4 | 7.0 | 65.0 |
| Sep 26 | | | 1,429 | 1,064 | 789 | 82 | 0 | 1,139 | 205 | 0 | | | 2 | 0 | 94.8 | 1.3 | 6.0 | 65.0 |
| Sep 27 | | | 1,134 | 866 | 647 | 59 | 0 | 899 | 163 | 0 | | | 4 | 0 | 85.8 | 1.4 | 7.0 | 65.0 |
| Sep 28 | | | 1,136 | 627 | 534 | 52 | 0 | 711 | 161 | 0 | | | -27 | 1 | 73.6 | 1.4 | 7.0 | 65.0 |
| Sep 29 | | | 1,199 | 627 | 659 | 76 | 0 | 728 | 98 | 0 | | | -6 | 1 | 73.3 | 1.4 | 7.0 | 65.0 |
| Sep 30 | | | 589 | 354 | 382 | 59 | 0 | 598 | 106 | 0 | | | -2 | 0 | 72.2 | 1.4 | 7.0 | 64.0 |
| TOTAL | | | 96,567 | 40,410 | 53,719 | 2,249 | 4 | 54,543 | 10,037 | 11 | | | 818 | 4 | | | | |
| AVG | | | 3,219 | 1,347 | 1,791 | 75 | 0 | 1,818 | 335 | 0 | | | 27 | 0 | 90.7 | 1.5 | 6.8 | 68.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 47,882 | 13,686 |
| FALL | 143,784 | 46,367 |
| TOTAL | 258,290 | 76,659 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|
| 62,154 | 2,708 | 24,376 | 308,486 | 78,451 | 27 | 4 | 2,575,277 | 19,344 | 14 |

TABLE 15

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 1,077 | 484 | 646 | 61 | | 973 | 173 | | 0 | | -4 | 1 | 72.0 | 1.5 | 7.0 | 64.0 |
| Oct 2 | | | 880 | 428 | 725 | 75 | | 831 | 132 | | 0 | | -12 | 0 | 83.7 | 1.3 | 7.0 | 63.0 |
| Oct 3 | | | 673 | 364 | 489 | 74 | | 666 | 109 | | 0 | | -1 | 1 | 82.9 | 1.6 | 7.0 | 63.0 |
| Oct 4 | | | 892 | 330 | 563 | 65 | | 593 | 104 | | 0 | | 0 | 0 | 108.0 | 1.5 | 7.0 | 63.0 |
| Oct 5 | | | 594 | 276 | 550 | 36 | | 518 | 102 | | 0 | | 0 | 1 | 100.4 | 1.3 | 7.0 | 62.0 |
| Oct 6 | | | 621 | 307 | 590 | 45 | | 594 | 127 | | 0 | | -1 | 1 | 90.5 | 1.2 | 7.0 | 62.0 |
| Oct 7 | | | 964 | 410 | 691 | 58 | | 754 | 170 | | 0 | | 2 | 2 | 79.6 | 1.3 | 7.0 | 61.0 |
| Oct 8 | | | 1,279 | 601 | 864 | 69 | | 832 | 152 | | 0 | | -2 | 1 | 89.1 | 1.4 | 7.0 | 61.0 |
| Oct 9 | | | 888 | 439 | 780 | 62 | | 714 | 128 | | 1 | | -2 | 1 | 103.7 | 1.3 | 7.0 | 61.0 |
| Oct 10 | | | 842 | 370 | 729 | 58 | | 599 | 107 | | 0 | | 0 | -1 | 103.9 | 1.3 | 7.0 | 61.0 |
| Oct 11 | | | 711 | 336 | 928 | 67 | | 541 | 96 | | 0 | | -1 | 1 | 109.6 | 1.4 | 7.0 | 61.0 |
| Oct 12 | | | 553 | 280 | 1,047 | 53 | | 444 | 77 | | 0 | | 4 | -1 | 116.5 | 1.3 | 7.0 | 61.0 |
| Oct 13 | | | 522 | 287 | 1,153 | 38 | | 362 | 73 | | 0 | | 2 | 0 | 104.2 | 1.3 | 7.0 | 61.0 |
| Oct 14 | | | 470 | 266 | 1,252 | 37 | | 362 | 72 | | 1 | | 1 | 0 | 83.9 | 1.2 | 7.0 | 61.0 |
| Oct 15 | | | 575 | 153 | 1,124 | 47 | | 301 | 79 | | 1 | | 1 | 0 | 82.5 | 1.3 | 7.0 | 61.0 |
| Oct 16 | | | 419 | 145 | 834 | 28 | | 230 | 44 | | 0 | | 0 | 1 | 98.8 | 1.3 | 7.0 | 60.0 |
| Oct 17 | | | 260 | 102 | 902 | 51 | | 279 | 55 | | 0 | | 0 | 0 | 90.2 | 1.3 | 7.0 | 60.0 |
| Oct 18 | | | 405 | 105 | 1,659 | 49 | | 254 | 64 | | 0 | | -2 | 1 | 137.0 | 1.4 | 7.0 | 60.0 |
| Oct 19 | | | 358 | 68 | 1,634 | 42 | | 225 | 52 | | 2 | | -2 | 1 | 84.7 | 1.3 | 7.0 | 59.0 |
| Oct 20 | | | 355 | 85 | 1,927 | 21 | | 225 | 31 | | 4 | | -4 | 0 | 87.7 | 1.3 | 6.0 | 58.0 |
| Oct 21 | | | 360 | 136 | 1,377 | 34 | | 160 | 31 | | 3 | | -2 | 0 | 106.8 | 1.2 | 5.0 | 57.0 |
| Oct 22 | | | 206 | 50 | 1,018 | 31 | | 180 | 32 | | 0 | | 1 | -1 | 103.5 | 1.2 | 7.0 | 57.0 |
| Oct 23 | | | 275 | 75 | 1,250 | 34 | | 203 | 58 | | 3 | | 1 | 1 | 108.5 | 1.2 | 7.0 | 58.0 |
| Oct 24 | | | 263 | 53 | 1,017 | 41 | | 190 | 33 | | 0 | | -2 | 0 | 103.0 | 1.2 | 7.0 | 58.0 |
| Oct 25 | | | 225 | 36 | 814 | 42 | | 143 | 35 | | 0 | | 0 | 2 | 110.2 | 0.6 | 7.0 | 58.0 |
| Oct 26 | | | 90 | 32 | 482 | 22 | | 99 | 24 | | 1 | | 0 | 1 | 99.5 | 0.6 | 6.0 | 58.0 |
| Oct 27 | | | 70 | 31 | 601 | 19 | | 96 | 29 | | 2 | | -1 | 0 | 102.6 | 1.3 | 7.0 | 57.0 |
| Oct 28 | | | 115 | 36 | 436 | 8 | | 138 | 32 | | 2 | | 0 | 1 | 85.5 | 1.3 | 7.0 | 56.0 |
| Oct 29 | | | 129 | 19 | 602 | 11 | | 72 | 12 | | 4 | | 0 | 1 | 100.0 | 0.6 | 7.0 | 56.0 |
| Oct 30 | | | 161 | 23 | 406 | 4 | | 74 | 17 | | 0 | | 0 | 0 | 90.7 | 0.7 | 7.0 | 56.0 |
| Oct 31 | | | 136 | 12 | 333 | 7 | | 82 | 18 | | 0 | | -2 | 3 | 106.5 | 1.2 | 7.0 | 56.0 |
| TOTAL | | | 15,368 | 6,339 | 27,423 | 1,289 | | 11,734 | 2,268 | | 24 | | -26 | 18 | | | | |
| AVG | | | 496 | 204 | 885 | 42 | | 379 | 73 | | 1 | | -1 | 1 | 97.6 | 1.2 | 6.9 | 59.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 47,882 | 13,686 |
| FALL | 159,152 | 52,706 |
| TOTAL | 273,658 | 82,998 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|
| 89,577 | 3,997 | 24,376 | 320,220 | 80,719 | 27 | 28 | 2,575,277 | 19,318 | 32 |

TABLE 16

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 119 | 21 | 526 | 9 | | 84 | 32 | | 1 | | -1 | 0 | 100.5 | 1.1 | 7.0 | 55.0 |
| Nov 2 | | | 32 | 2 | 93 | 3 | | 8 | 1 | | 0 | | 0 | 0 | 107.2 | 1.1 | 7.0 | 55.0 |
| Nov 3 | | | 25 | 1 | 46 | 3 | | 15 | 6 | | 0 | | 0 | 0 | 92.5 | 1.1 | 7.0 | 54.0 |
| Nov 4 | | | 22 | 2 | 93 | 3 | | 12 | 3 | | 1 | | 0 | 2 | 80.5 | 1.1 | 7.0 | 54.0 |
| Nov 5 | | | 78 | 6 | 236 | 5 | | 75 | 25 | | 5 | | 1 | 0 | 105.1 | 1.2 | 7.0 | 55.0 |
| Nov 6 | | | 33 | 4 | 197 | 6 | | 60 | 22 | | 3 | | -1 | 1 | 112.0 | 1.1 | 7.0 | 54.0 |
| Nov 7 | | | 31 | 3 | 187 | 2 | | 44 | 15 | | 5 | | -1 | 0 | 113.5 | 1.1 | 7.0 | 54.0 |
| Nov 8 | | | 35 | 3 | 197 | 4 | | 74 | 16 | | 5 | | 0 | 3 | 85.1 | 1.1 | 7.0 | 54.0 |
| Nov 9 | | | 43 | 6 | 214 | 12 | | 57 | 28 | | 5 | | -1 | -1 | 88.2 | 1.1 | 7.0 | 54.0 |
| Nov 10 | | | 68 | 3 | 116 | 4 | | 42 | 14 | | 5 | | -3 | 2 | 123.0 | 1.1 | 7.0 | 54.0 |
| Nov 11 | | | 51 | 2 | 95 | 6 | | 32 | 12 | | 5 | | 0 | 0 | 121.4 | 1.1 | 7.0 | 54.0 |
| Nov 12 | | | 36 | 1 | 118 | 3 | | 60 | 14 | | 9 | | 1 | 0 | 119.7 | 1.1 | 7.0 | 54.0 |
| Nov 13 | | | 34 | -1 | 143 | -1 | | 61 | 14 | | 11 | | 0 | 2 | 119.9 | 1.1 | 5.8 | 53.1 |
| Nov 14 | | | 36 | 1 | 90 | 5 | | 41 | 18 | | 4 | | 0 | 0 | 130.6 | 1.1 | 4.0 | 53.1 |
| Nov 15 | | | 20 | 2 | 66 | 3 | | 46 | 14 | | 8 | | 0 | 0 | 125.7 | 1.1 | 7.0 | 52.0 |
| Nov 16 | | | 21 | 1 | 45 | 3 | | 53 | 15 | | 6 | | -4 | 0 | 122.2 | 1.1 | 6.0 | 52.0 |
| Nov 17 | | | 18 | -1 | 93 | 1 | | 48 | 13 | | 7 | | 0 | 0 | 118.9 | 1.1 | 4.0 | 52.0 |
| Nov 18 | | | 15 | 0 | 109 | 1 | | 53 | 11 | | 1 | | 0 | 0 | 124.8 | 1.1 | 1.5 | 52.0 |
| Nov 19 | | | 5 | 0 | 63 | 1 | | 44 | 13 | | 3 | | 0 | -1 | 118.4 | 1.1 | 5.0 | 52.0 |
| Nov 20 | | | 8 | 1 | 45 | 1 | | 47 | 12 | | 1 | | 0 | 2 | 119.4 | 1.1 | 7.0 | 50.0 |
| Nov 21 | | | 11 | 0 | 21 | 0 | | 39 | 11 | | 0 | | 0 | 0 | 122.8 | 1.1 | 5.0 | 51.1 |
| Nov 22 | | | 2 | 1 | 21 | -1 | | 55 | 26 | | 2 | | 0 | 0 | 124.3 | 1.1 | 6.0 | 50.0 |
| Nov 23 | | | 5 | 0 | 14 | 1 | | 55 | 23 | | 1 | | 0 | 0 | 127.0 | 1.2 | 5.0 | 48.9 |
| Nov 24 | | | 3 | 0 | 4 | 3 | | 52 | 21 | | 0 | | 0 | 0 | 119.8 | 1.1 | 7.0 | 48.0 |
| Nov 25 | | | 8 | 0 | 6 | 1 | | 52 | 25 | | 2 | | 0 | 0 | 121.2 | 1.1 | 7.0 | 48.0 |
| Nov 26 | | | 3 | 0 | 7 | 1 | | 18 | 8 | | 3 | | 0 | 0 | 129.3 | 1.1 | 7.0 | 48.0 |
| Nov 27 | | | 9 | 0 | 2 | 0 | | 24 | 11 | | 0 | | 0 | 0 | 116.6 | 1.1 | 7.0 | 46.9 |
| Nov 28 | | | 6 | 1 | 9 | 0 | | 22 | 11 | | 0 | | 0 | 0 | 128.7 | 1.1 | 7.0 | 48.0 |
| Nov 29 | | | 8 | 0 | -1 | 0 | | 34 | 12 | | 0 | | 0 | 0 | 127.9 | 1.1 | 7.0 | 48.0 |
| Nov 30 | | | 7 | 0 | 12 | 1 | | 25 | 10 | | 0 | | 0 | 0 | 131.6 | 1.1 | 7.0 | 46.9 |
| TOTAL | | | 792 | 59 | 2,867 | 80 | | 1,332 | 456 | | 93 | | -9 | 10 | | | | |
| AVG | | | 26 | 2 | 96 | 3 | | 44 | 15 | | 3 | | 0 | 0 | 115.9 | 1.1 | 6.3 | 51.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 47,882 | 13,686 |
| FALL | 159,815 | 52,762 |
| TOTAL | 274,321 | 83,054 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|
| 91,994 | 4,064 | 24,376 | 320,931 | 80,953 | 27 | 121 | 2,575,277 | 19,313 | 42 |

Note: November 1 to December 31 counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST. Visual counting ended October 31.

Video disruption occurred resulting in 15 hours of loss on 11/2 and 2 hour loss on 11/5 at Washington Shore ladder

Official Fall Chinook run ended November 15. Counts on November 16-30 are not included in fall totals. Pink, chum, and sturgeon counts are totals for the entire calendar year.

TABLE 17

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **BONNEVILLE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **DECEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Dec 1 | | | 5 | | 6 | 1 | | 28 | 10 | | | | | | 131.4 | 1.1 | 7.0 | 46.9 |
| Dec 2 | | | 9 | | -1 | -1 | | 21 | 10 | | | | | | 130.4 | 1.1 | 5.0 | 46.0 |
| Dec 3 | | | 5 | | 17 | 0 | | 21 | 1 | | | | | | 122.3 | 1.1 | 1.0 | 46.0 |
| Dec 4 | | | 5 | | 9 | 0 | | 20 | 0 | | | | | | 144.9 | 1.1 | 1.0 | 45.0 |
| Dec 5 | | | 0 | | 7 | 0 | | 30 | 4 | | | | | | 169.0 | 1.1 | 1.5 | 46.0 |
| Dec 6 | | | 3 | | 6 | 0 | | 34 | 10 | | | | | | 131.6 | 1.1 | 2.0 | 46.0 |
| Dec 7 | | | 1 | | 5 | 0 | | 36 | 14 | | | | | | 110.9 | 1.4 | 5.0 | 46.0 |
| Dec 8 | | | 0 | | 2 | 0 | | 21 | 7 | | | | | | 131.5 | 1.1 | 6.0 | 46.0 |
| Dec 9 | | | 0 | | 3 | 0 | | 39 | 19 | | | | | | 132.5 | 1.1 | 4.0 | 45.0 |
| Dec 10 | | | 0 | | 0 | 0 | | 30 | 10 | | | | | | 143.8 | 1.1 | 7.0 | 45.0 |
| Dec 11 | | | 1 | | 1 | 0 | | 33 | 14 | | | | | | 182.2 | 1.1 | 5.0 | 44.1 |
| Dec 12 | | | 1 | | 0 | 0 | | 39 | 11 | | | | | | 128.4 | 1.0 | 7.0 | 44.1 |
| Dec 13 | | | 1 | | 0 | 0 | | 38 | 12 | | | | | | 135.9 | 1.1 | 7.0 | 44.1 |
| Dec 14 | | | 1 | | 0 | 0 | | 39 | 18 | | | | | | 136.9 | 0.6 | 7.0 | 44.1 |
| Dec 15 | | | 0 | | 0 | 0 | | 19 | 11 | | | | | | 135.4 | 0.5 | 6.0 | 44.1 |
| Dec 16 | | | 0 | | 0 | 0 | | 31 | 13 | | | | | | 137.1 | 0.5 | 7.0 | 44.1 |
| Dec 17 | | | 0 | | 0 | 0 | | 18 | 8 | | | | | | 123.7 | 0.6 | 7.0 | 44.1 |
| Dec 18 | | | 0 | | 0 | 0 | | 12 | 3 | | | | | | 122.7 | 0.5 | 7.0 | 44.1 |
| Dec 19 | | | 0 | | 1 | 0 | | 32 | 18 | | | | | | 113.4 | 0.5 | 7.0 | 44.1 |
| Dec 20 | | | 1 | | 0 | 0 | | 37 | 15 | | | | | | 119.8 | 0.5 | 7.0 | 44.1 |
| Dec 21 | | | 0 | | 1 | 0 | | 31 | 10 | | | | | | 128.8 | 0.5 | 7.0 | 45.0 |
| Dec 22 | | | 0 | | 0 | 0 | | 7 | 5 | | | | | | 143.4 | 0.6 | 6.0 | 43.0 |
| Dec 23 | | | 0 | | 0 | 0 | | 26 | 10 | | | | | | 143.5 | 0.5 | 5.0 | 43.0 |
| Dec 24 | | | 0 | | 0 | 0 | | 6 | 3 | | | | | | 139.4 | 0.5 | 6.0 | 43.0 |
| Dec 25 | | | 0 | | 0 | 0 | | 8 | 5 | | | | | | 136.1 | 0.6 | 7.0 | 43.0 |
| Dec 26 | | | 0 | | 0 | 0 | | 4 | 1 | | | | | | 120.7 | 0.5 | 7.0 | 42.1 |
| Dec 27 | | | 0 | | 0 | 0 | | 4 | 1 | | | | | | 169.9 | 0.5 | 7.0 | 42.1 |
| Dec 28 | | | 0 | | 0 | 0 | | 3 | 1 | | | | | | 171.6 | 0.5 | 7.0 | 42.0 |
| Dec 29 | | | 0 | | 0 | 0 | | 10 | 5 | | | | | | 156.2 | 0.5 | 7.0 | 41.0 |
| Dec 30 | | | 0 | | 0 | 0 | | 6 | 2 | | | | | | 115.7 | 0.5 | 7.0 | 41.0 |
| Dec 31 | | | 0 | | 0 | 0 | | 5 | 2 | | | | | | 120.3 | 0.5 | 7.0 | 41.0 |
| TOTAL | | | 33 | | 57 | 0 | | 688 | 253 | | | | | | | | | |
| AVG | | | 1 | | 2 | 0 | | 22 | 8 | | | | | | 136.4 | 0.8 | 5.8 | 44.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 66,624 | 16,606 |
| SUMMER | 47,882 | 13,686 |
| FALL | 159,815 | 52,762 |
| TOTAL | 274,321 | 83,054 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | PINK | CHUM | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|
| 91,994 | 4,064 | 24,376 | 320,931 | 80,953 | 27 | 121 | 2,575,277 | 19,313 | 42 |

**Note: November 1 to December 31 counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST. Visual counting ended October 31.**
**Video disruption occurred resulting in a 15 hour loss on 12/8, a 16 hour loss on 12/9, and a 2 hour loss on 12/10 at Bradford Island fish ladder**
**Official Fall Chinook run ended November 15. December counts were not added to fall totals. Pink, chum, and sturgeon counts are totals for the entire calendar year**

**TABLE 18**

**YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM**

**1938 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | CHUM | PINK | TOTAL SALMONID |
|---|---|---|---|---|---|---|---|
| 1938 | 271,799 | 107,003 | 75,040 | 15,185 | 2,117 | 0 | 471,144 |
| 1939 | 286,189 | 122,032 | 73,382 | 14,383 | 1,168 | 0 | 497,154 |
| 1940 | 391,587 | 185,174 | 148,807 | 11,917 | 1,729 | 0 | 739,214 |
| 1941 | 461,443 | 118,089 | 65,741 | 17,911 | 5,269 | 4 | 668,457 |
| 1942 | 401,942 | 151,800 | 55,464 | 12,402 | 1,865 | 11 | 623,484 |
| 1943 | 313,123 | 92,133 | 39,845 | 2,547 | 788 | 0 | 448,436 |
| 1944 | 240,764 | 100,518 | 15,072 | 4,207 | 954 | 1 | 361,516 |
| 1945 | 297,478 | 120,133 | 9,501 | 790 | 728 | 1 | 428,631 |
| 1946 | 446,052 | 142,807 | 74,376 | 3,898 | 1,178 | 2 | 668,313 |
| 1947 | 480,377 | 135,444 | 171,139 | 11,174 | 199 | 3 | 798,336 |
| 1948 | 419,555 | 139,062 | 131,541 | 4,081 | 3,636 | 2 | 697,877 |
| 1949 | 277,697 | 119,285 | 51,444 | 1,004 | 2,028 | 6 | 451,464 |
| 1950 | 357,375 | 114,087 | 77,993 | 10,151 | 1,069 | 8 | 560,683 |
| 1951 | 331,788 | 140,689 | 169,428 | 5,201 | 1,044 | 7 | 648,157 |
| 1952 | 420,879 | 260,990 | 184,645 | 7,768 | 1,505 | 9 | 875,796 |
| 1953 | 332,479 | 223,914 | 235,215 | 13,018 | 1,728 | 10 | 806,364 |
| 1954 | 320,947 | 176,260 | 130,107 | 4,062 | 1,569 | 4 | 632,949 |
| 1955 | 359,853 | 198,411 | 237,748 | 3,725 | 318 | 9 | 800,064 |
| 1956 | 300,917 | 131,116 | 156,418 | 6,127 | 693 | 4 | 595,275 |
| 1957 | 403,286 | 139,183 | 82,915 | 4,675 | 569 | 12 | 630,640 |
| 1958 | 426,419 | 131,437 | 122,389 | 3,673 | 455 | 6 | 684,379 |
| 1959 | 345,028 | 129,026 | 86,560 | 2,695 | 906 | 22 | 564,237 |
| 1960 | 256,049 | 113,676 | 59,713 | 3,268 | 1,026 | 0 | 433,732 |
| 1961 | 281,980 | 139,719 | 17,111 | 3,456 | 896 | 12 | 443,174 |
| 1962 | 286,625 | 164,025 | 28,179 | 14,788 | 1,013 | 27 | 494,657 |
| 1963 | 278,560 | 129,418 | 60,319 | 12,658 | 739 | 34 | 481,728 |
| 1964 | 344,422 | 117,252 | 99,856 | 53,602 | 632 | 45 | 615,809 |
| 1965 | 317,957 | 166,453 | 55,125 | 76,032 | 496 | 64 | 616,127 |
| 1966 | 340,111 | 143,661 | 156,661 | 71,891 | 872 | 58 | 713,254 |
| 1967 | 366,237 | 121,872 | 144,158 | 96,488 | 352 | 50 | 729,157 |
| 1968 | 341,154 | 106,974 | 108,207 | 63,488 | 79 | 21 | 619,923 |
| 1969 | 507,543 | 140,782 | 59,636 | 49,378 | 143 | 86 | 757,568 |
| 1970 | 384,780 | 113,510 | 70,762 | 80,116 | 209 | 150 | 649,527 |
| 1971 | 405,702 | 193,966 | 87,447 | 75,989 | 29 | 176 | 763,309 |
| 1972 | 394,456 | 185,886 | 56,323 | 65,932 | 1 | 51 | 702,649 |
| 1973 | 398,635 | 157,823 | 58,979 | 54,609 | 43 | 12 | 670,101 |
| 1974 | 366,759 | 137,054 | 43,837 | 60,955 | 23 | 2 | 608,630 |
| 1975 | 425,566 | 85,540 | 58,212 | 58,307 | 11 | 309 | 627,945 |

**TABLE 18**
**(continued)**

**YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM**

**1938 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | CHUM | PINK | TOTAL SALMONID |
|---|---|---|---|---|---|---|---|
| 1976 | 507,773 | 124,177 | 43,611 | 53,150 | 11 | 2 | 728,724 |
| 1977 | 366,657 | 193,437 | 99,829 | 19,408 | 17 | 0 | 679,348 |
| 1978 | 394,600 | 104,431 | 18,436 | 52,590 | 28 | 0 | 570,085 |
| 1979 | 276,306 | 113,979 | 52,628 | 45,328 | 1 | 23 | 488,265 |
| 1980 | 245,518 | 129,254 | 58,882 | 22,052 | 44 | 0 | 455,750 |
| 1981 | 285,650 | 159,270 | 56,037 | 30,510 | 4 | 20 | 531,491 |
| 1982 | 322,809 | 157,640 | 50,219 | 73,832 | 12 | 0 | 604,512 |
| 1983 | 244,346 | 218,439 | 100,545 | 15,173 | 50 | 52 | 578,605 |
| 1984 | 324,425 | 315,560 | 152,541 | 29,487 | 64 | 8 | 822,085 |
| 1985 | 463,873 | 343,987 | 166,340 | 56,857 | 97 | 147 | 1,031,301 |
| 1986 | 570,881 | 379,891 | 58,123 | 130,853 | 77 | 23 | 1,139,848 |
| 1987 | 547,494 | 303,081 | 116,993 | 27,635 | 147 | 20 | 995,370 |
| 1988 | 494,025 | 279,072 | 79,714 | 39,620 | 60 | 6 | 892,497 |
| 1989 | 416,117 | 287,798 | 41,884 | 39,281 | 16 | 12 | 785,108 |
| 1990 | 340,990 | 183,027 | 49,581 | 24,845 | 26 | 0 | 598,469 |
| 1991 | 274,622 | 274,545 | 76,481 | 64,057 | 5 | 550 | 690,260 |
| 1992 | 256,299 | 314,975 | 84,992 | 18,126 | 39 | 24 | 674,455 |
| 1993 | 277,657 | 188,386 | 80,178 | 11,732 | 17 | 15 | 557,985 |
| 1994 | 243,450 | 161,978 | 12,678 | 22,794 | 26 | 5 | 440,931 |
| 1995 | 240,050 | 202,448 | 8,774 | 12,034 | 30 | 36 | 463,372 |
| 1996 | 296,635 | 205,213 | 30,252 | 18,747 | 22 | 1 | 550,870 |
| 1997 | 387,088 | 258,385 | 47,008 | 27,267 | 47 | 64 | 719,859 |
| 1998 | 280,944 | 185,094 | 13,218 | 49,920 | 21 | 13 | 529,210 |
| 1999 | 343,176 | 206,488 | 17,877 | 45,152 | 43 | 28 | 612,764 |
| 2000 | 491,905 | 275,178 | 93,398 | 97,032 | 17 | 0 | 957,530 |
| 2001 | 971,119 | 633,073 | 114,934 | 266,314 | 29 | -4 | 1,985,465 |
| 2002 | 924,585 | 480,309 | 49,610 | 94,901 | 72 | 0 | 1,549,477 |
| 2003 | 992,231 | 361,412 | 39,291 | 133,870 | 411 | 637 | 1,527,852 |
| 2004 | 906,197 | 313,378 | 123,291 | 119,851 | 80 | 1 | 1,462,798 |
| 2005 | 600,415 | 315,650 | 72,971 | 88,791 | 139 | 22 | 1,077,988 |
| 2006 | 526,534 | 339,141 | 37,066 | 110,053 | 164 | 6 | 1,012,964 |
| 2007 | 357,562 | 323,917 | 24,376 | 96,576 | 121 | 27 | 802,579 |
| Total | 27,755,446 | 13,728,817 | 5,631,053 | 2,939,389 | 40,016 | 2,956 | 50,097,677 |
| 10-Year Average | 639,467 | 343,364 | 58,603 | 110,246 | 110 | 73 | 1,151,863 |

*Jacks included

TABLE 19

**MONTHLY COUNT OF CHINOOK SALMON**

**BONNEVILLE DAM - 1938 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING Jan 1- May 31 | SUMMER Jun 1- Jul 31 | FALL Aug 1- Dec 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1938 | | | | | 22,371 | 8,221 | 6,556 | 34,765 | 197,294 | 2,302 | 263 | 27 | 271,799 | 22,371 | 14,777 | 234,651 |
| 1939 | 6 | 12 | 121 | 51,410 | 25,159 | 5,602 | 17,828 | 32,909 | 150,851 | 2,197 | 78 | 16 | 286,189 | 76,708 | 23,430 | 186,051 |
| 1940 | | | 504 | 37,253 | 28,621 | 7,027 | 14,938 | 58,643 | 240,515 | 3,765 | 287 | 34 | 391,587 | 66,378 | 21,965 | 303,244 |
| 1941 | 4 | | 1,360 | 51,486 | 19,445 | 7,013 | 9,395 | 12,590 | 351,967 | 7,179 | 866 | 138 | 461,443 | 72,295 | 16,408 | 372,740 |
| 1942 | 1 | 15 | 34 | 9,506 | 30,915 | 11,816 | 12,821 | 27,581 | 303,939 | 4,485 | 639 | 190 | 401,752 | 40,471 | 24,637 | 336,644 |
| 1943 | 11 | 6 | 43 | 12,172 | 53,268 | 5,440 | 8,044 | 28,985 | 201,414 | 3,354 | 365 | 21 | 313,123 | 65,500 | 13,484 | 234,139 |
| 1944 | 1 | 2 | 65 | 15,671 | 15,127 | 4,363 | 8,241 | 55,468 | 139,254 | 2,388 | 164 | 20 | 240,764 | 30,866 | 12,604 | 197,294 |
| 1945 | 6 | 4 | 81 | 17,148 | 26,276 | 11,293 | 16,317 | 32,254 | 189,675 | 4,281 | 137 | 6 | 297,478 | 43,515 | 27,610 | 226,353 |
| 1946 | 1 | 2 | 25 | 14,196 | 53,313 | 30,253 | 20,967 | 45,422 | 277,152 | 4,523 | 173 | 25 | 446,052 | 67,537 | 51,220 | 327,295 |
| 1947 | | 2 | 141 | 83,520 | 49,899 | 25,502 | 13,358 | 43,062 | 260,385 | 3,945 | 526 | 37 | 480,377 | 133,562 | 38,860 | 307,955 |
| 1948 | 10 | | 251 | 21,205 | 20,262 | 44,137 | 23,100 | 35,934 | 270,238 | 3,928 | 467 | 23 | 419,555 | 41,728 | 67,237 | 310,590 |
| 1949 | | | 5 | 5,765 | 44,304 | 24,232 | 22,500 | 41,500 | 137,599 | 1,571 | 215 | 6 | 277,697 | 50,074 | 46,732 | 180,891 |
| 1950 | | | 21 | 6,630 | 50,638 | 16,667 | 32,937 | 40,462 | 205,521 | 4,356 | 143 | | 357,375 | 57,289 | 49,604 | 250,482 |
| 1951 | | | 32 | 28,801 | 86,055 | 54,889 | 24,394 | 33,785 | 97,131 | 6,489 | 212 | | 331,788 | 114,888 | 79,283 | 137,617 |
| 1952 | | | 255 | 8,130 | 107,807 | 62,491 | 21,800 | 82,290 | 135,053 | 2,576 | 477 | | 420,879 | 116,192 | 84,291 | 220,396 |
| 1953 | | | 1,254 | 126,450 | 42,583 | 27,228 | 30,593 | 27,398 | 75,145 | 1,495 | 333 | | 332,479 | 170,287 | 57,821 | 104,371 |
| 1954 | | 2 | 657 | 82,877 | 51,230 | 46,801 | 32,596 | 24,969 | 80,426 | 1,189 | 200 | | 320,947 | 134,766 | 79,397 | 106,784 |
| 1955 | | | 1,391 | 84,436 | 85,769 | 45,502 | 37,437 | 32,833 | 70,558 | 1,803 | 124 | | 359,853 | 171,596 | 82,939 | 105,318 |
| 1956 | | | 161 | 8,850 | 54,438 | 64,262 | 36,938 | 42,203 | 92,030 | 1,854 | 179 | 2 | 300,917 | 63,449 | 101,200 | 136,268 |
| 1957 | | | 328 | 90,984 | 45,128 | 104,243 | 30,790 | 34,829 | 95,457 | 1,352 | 175 | | 403,286 | 136,440 | 135,033 | 131,813 |
| 1958 | | | 468 | 15,361 | 59,377 | 74,375 | 27,524 | 19,735 | 227,504 | 1,948 | 127 | | 426,419 | 75,206 | 101,899 | 249,314 |
| 1959 | | | 182 | 26,944 | 34,007 | 39,581 | 49,371 | 24,945 | 168,187 | 1,643 | 168 | | 345,028 | 61,133 | 88,952 | 194,943 |
| 1960 | | | 184 | 37,064 | 32,349 | 65,247 | 19,923 | 22,719 | 76,327 | 2,012 | 224 | | 256,049 | 69,597 | 85,170 | 101,282 |
| 1961 | | | 476 | 72,526 | 25,693 | 41,302 | 25,159 | 22,675 | 90,688 | 3,108 | 353 | | 281,980 | 98,695 | 66,461 | 116,824 |
| 1962 | | | 1,278 | 56,201 | 33,637 | 52,392 | 25,093 | 23,526 | 91,320 | 2,759 | 419 | | 286,625 | 91,116 | 77,485 | 118,024 |
| 1963 | | | 2,802 | 43,859 | 28,810 | 36,836 | 27,178 | 28,586 | 104,415 | 5,571 | 503 | | 278,560 | 75,471 | 64,014 | 139,075 |
| 1964 | | | 2,418 | 69,031 | 19,979 | 35,814 | 44,717 | 26,546 | 141,525 | 4,157 | 235 | | 344,422 | 91,428 | 80,531 | 172,463 |
| 1965 | | | 1,238 | 47,083 | 35,945 | 38,482 | 37,515 | 38,727 | 112,664 | 6,074 | 229 | | 317,957 | 84,266 | 75,997 | 157,694 |
| 1966 | | | 2,168 | 92,637 | 17,864 | 40,233 | 31,764 | 20,608 | 128,421 | 6,052 | 364 | | 340,111 | 112,669 | 71,997 | 155,445 |
| 1967 | | | 1,620 | 71,957 | 11,358 | 41,847 | 53,812 | 25,760 | 154,323 | 5,405 | 155 | | 366,237 | 84,935 | 95,659 | 185,643 |
| 1968 | | | 1,342 | 69,420 | 28,425 | 46,793 | 36,126 | 27,779 | 126,994 | 4,010 | 265 | | 341,154 | 99,187 | 82,919 | 159,048 |
| 1969 | | | 1,910 | 65,371 | 106,281 | 59,177 | 42,976 | 38,456 | 187,502 | 5,511 | 359 | | 507,543 | 173,562 | 102,153 | 231,828 |
| 1970 | | | 2,020 | 78,605 | 30,351 | 35,091 | 29,811 | 44,559 | 159,710 | 4,364 | 269 | | 384,780 | 110,976 | 64,902 | 208,902 |
| 1971 | | | 683 | 60,849 | 63,985 | 37,757 | 40,154 | 26,749 | 166,346 | 8,820 | 359 | | 405,702 | 125,517 | 77,911 | 202,274 |
| 1972 | | | 426 | 154,443 | 31,271 | 36,758 | 34,072 | 23,577 | 109,820 | 3,939 | 150 | | 394,456 | 186,140 | 70,830 | 137,486 |
| 1973 | | | 1,585 | 128,495 | 12,068 | 24,164 | 21,196 | 31,513 | 170,895 | 8,457 | 262 | | 398,635 | 142,148 | 45,360 | 211,127 |
| 1974 | | | 434 | 57,516 | 76,585 | 13,424 | 32,472 | 15,554 | 156,543 | 13,923 | 308 | | 366,759 | 134,535 | 45,896 | 186,328 |
| 1975 | | | 162 | 48,295 | 55,647 | 16,989 | 27,362 | 37,907 | 234,145 | 4,847 | 212 | | 425,566 | 104,104 | 44,351 | 277,111 |

TABLE 19

**(Continued)**

**MONTHLY COUNT OF CHINOOK SALMON**

**BONNEVILLE DAM - 1938-2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING Jan 1- May 31 | SUMMER Jun 1- Jul 31 | FALL Aug 1- Dec 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | 587 | 58,978 | 53,883 | 39,130 | 29,883 | 48,776 | 262,615 | 13,395 | 526 | | 507,773 | 113,448 | 69,013 | 325,312 |
| 1977 | | | 3,569 | 98,710 | 17,229 | 21,790 | 19,233 | 21,992 | 171,303 | 11,805 | 1,026 | | 366,657 | 119,508 | 41,023 | 206,126 |
| 1978 | | | 4,291 | 100,712 | 44,860 | 27,125 | 17,198 | 23,513 | 165,411 | 11,104 | 386 | | 394,600 | 149,863 | 44,323 | 200,414 |
| 1979 | | | 790 | 29,751 | 20,921 | 15,924 | 18,293 | 41,273 | 142,241 | 6,865 | 248 | | 276,306 | 51,462 | 34,217 | 190,627 |
| 1980 | | | 535 | 30,732 | 29,720 | 15,384 | 15,681 | 26,106 | 118,669 | 8,404 | 287 | | 245,518 | 60,987 | 31,065 | 153,466 |
| 1981 | | | 1,853 | 41,917 | 21,239 | 13,262 | 13,667 | 32,519 | 154,696 | 6,288 | 209 | | 285,650 | 65,009 | 26,929 | 193,712 |
| 1982 | | | 312 | 30,282 | 45,450 | 15,439 | 11,175 | 34,058 | 174,348 | 11,487 | 258 | | 322,809 | 76,044 | 26,614 | 220,151 |
| 1983 | | | 144 | 25,423 | 31,154 | 12,793 | 10,665 | 26,147 | 116,879 | 20,458 | 683 | | 244,346 | 56,721 | 23,458 | 164,167 |
| 1984 | | | 351 | 27,185 | 23,509 | 13,060 | 15,447 | 41,909 | 180,867 | 21,673 | 424 | | 324,425 | 51,045 | 28,507 | 244,873 |
| 1985 | | | 2,036 | 52,145 | 36,780 | 16,763 | 13,107 | 64,899 | 255,020 | 22,099 | 1,024 | | 463,873 | 90,961 | 29,870 | 343,042 |
| 1986 | | | 2,292 | 82,356 | 38,395 | 18,365 | 12,676 | 38,737 | 337,721 | 39,511 | 828 | | 570,881 | 123,043 | 31,041 | 416,797 |
| 1987 | | | 2,727 | 68,866 | 30,214 | 22,728 | 14,979 | 82,500 | 298,865 | 25,614 | 1,001 | | 547,494 | 101,807 | 37,707 | 407,980 |
| 1988 | | | 2,663 | 69,689 | 22,394 | 18,191 | 18,333 | 111,905 | 236,662 | 13,656 | 532 | | 494,025 | 94,746 | 36,524 | 362,755 |
| 1989 | | | 36 | 56,583 | 30,640 | 15,659 | 17,316 | 102,573 | 181,691 | 11,218 | 401 | | 416,117 | 87,259 | 32,975 | 295,883 |
| 1990 | | | 677 | 67,536 | 28,039 | 16,990 | 11,031 | 59,066 | 149,404 | 8,015 | 232 | | 340,990 | 96,252 | 28,021 | 216,717 |
| 1991 | | | 601 | 41,431 | 19,196 | 12,755 | 9,198 | 21,959 | 159,068 | 10,116 | 298 | | 274,622 | 61,228 | 21,953 | 191,441 |
| 1992 | | | 2,188 | 68,073 | 20,321 | 11,871 | 7,374 | 28,537 | 107,620 | 10,043 | 272 | | 256,299 | 90,582 | 19,245 | 146,472 |
| 1993 | | | 226 | 77,174 | 34,772 | 15,968 | 7,648 | 37,893 | 97,693 | 6,036 | 247 | | 277,657 | 112,172 | 23,616 | 141,869 |
| 1994 | | | 505 | 13,499 | 6,562 | 9,743 | 10,458 | 47,787 | 145,801 | 9,669 | 296 | | 244,320 | 20,566 | 20,201 | 203,553 |
| 1995 | | | 206 | 7,144 | 5,511 | 8,565 | 9,226 | 47,145 | 150,990 | 15,614 | 835 | 14 | 245,250 | 12,861 | 17,791 | 214,598 |
| 1996 | 4 | | 110 | 20,923 | 35,571 | 11,136 | 7,768 | 58,909 | 154,420 | 10,451 | 647 | 23 | 299,962 | 56,608 | 18,904 | 224,450 |
| 1997 | | | 466 | 67,577 | 49,921 | 20,162 | 10,943 | 82,123 | 158,589 | 9,488 | 516 | -1 | 399,784 | 117,964 | 31,105 | 250,715 |
| 1998 | 0 | 1 | 695 | 24,549 | 14,587 | 14,500 | 10,396 | 58,135 | 155,716 | 11,308 | 398 | 7 | 290,292 | 39,117 | 24,111 | 217,716 |
| 1999 | | 2 | 251 | 19,016 | 28,831 | 14,830 | 16,121 | 66,546 | 186,880 | 14,624 | 378 | 7 | 347,486 | 48,098 | 30,951 | 268,428 |
| 2000 | | 4 | 3,166 | 130,193 | 71,222 | 25,864 | 19,209 | 100,658 | 139,073 | 11,380 | 227 | 16 | 501,012 | 204,581 | 45,073 | 251,338 |
| 2001 | 0 | 25 | 16,653 | 324,800 | 98,080 | 53,860 | 45,825 | 116,981 | 351,892 | 25,875 | 3,379 | 70 | 1,037,440 | 439,533 | 99,685 | 498,127 |
| 2002 | 74 | 207 | 1,875 | 149,293 | 124,122 | 89,419 | 45,969 | 149,283 | 344,754 | 18,449 | 1,421 | 255 | 925,121 | 275,290 | 135,388 | 513,907 |
| 2003 | 6 | 93 | 19,283 | 120,626 | 70,020 | 81,333 | 46,833 | 90,884 | 533,913 | 30,440 | 2,827 | 402 | 996,660 | 210,028 | 128,166 | 658,466 |
| 2004 | | 17 | 593 | 104,978 | 73,605 | 69,622 | 35,410 | 111,550 | 473,727 | 34,858 | 1,760 | 77 | 906,197 | 179,193 | 105,032 | 621,972 |
| 2005 | -1 | 2 | 43 | 31,504 | 46,793 | 52,917 | 30,786 | 47,880 | 363,426 | 25,199 | 1,855 | 11 | 600,415 | 78,341 | 83,703 | 438,371 |
| 2006 | 0 | 1 | 35 | 7,030 | 92,300 | 71,473 | 30,401 | 55,410 | 236,605 | 28,653 | 4,536 | 90 | 526,534 | 99,366 | 101,874 | 325,294 |
| 2007 | 1 | 1 | 75 | 31,919 | 51,256 | 39,619 | 21,949 | 53,174 | 136,977 | 21,707 | 851 | 33 | 357,562 | 83,252 | 61,568 | 212,742 |
| TOTAL | 124 | 398 | 97,959 | 4,032,741 | 2,933,337 | 2,229,484 | 1,631,973 | 3,198,630 | 13,022,469 | 683,134 | 39,792 | 1,359 | 27,871,400 | 7,063,532 | 3,860,672 | 16,937,188 |
| 10-Year Average | | | 4,267 | 94,391 | 67,082 | 51,344 | 30,290 | 85,050 | 292,296 | 22,249 | 1,763 | | 648,872 | 165,680 | 81,555 | 400,636 |

***Jacks included**

**1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16.**
**1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15. 24 hour counts November 16 through December 31.**
**1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.**
**From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.**
**2003 - 2007 counts include 16 hour video counts between 0400-2000 PST January 1 through March 31**
**and November 1 through December 31.**

TABLE 20

## MONTHLY COUNT OF SOCKEYE SALMON

## BONNEVILLE DAM 1938 - 2007

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1938 | | | | | 1,025 | 17,811 | 53,864 | 2,097 | 235 | 6 | 2 | | 75,040 |
| 1939 | | | | 48 | 189 | 29,386 | 43,124 | 616 | 19 | | | | 73,382 |
| 1940 | | | | | 206 | 59,639 | 85,885 | 3,063 | 13 | 1 | | | 148,807 |
| 1941 | | | | 299 | 1,052 | 23,536 | 39,193 | 1,615 | 46 | | | | 65,741 |
| 1942 | | | | | 13 | 12,624 | 41,301 | 1,477 | 49 | | | | 55,464 |
| 1943 | | | | | 9 | 4,525 | 33,613 | 1,697 | 1 | | | | 39,845 |
| 1944 | | | 1 | | 16 | 3,099 | 11,171 | 659 | 126 | | | | 15,072 |
| 1945 | | | 10 | 51 | 521 | 1,507 | 6,903 | 498 | 10 | 1 | | | 9,501 |
| 1946 | | | | 9 | 67 | 7,815 | 64,715 | 1,747 | 21 | 2 | | | 74,376 |
| 1947 | | | | | 5 | 59,378 | 108,175 | 3,564 | 15 | 1 | | 1 | 171,139 |
| 1948 | | | | | | 12,023 | 117,652 | 1,849 | 13 | 4 | | | 131,541 |
| 1949 | | | | | 151 | 9,013 | 41,619 | 655 | 6 | | | | 51,444 |
| 1950 | | | | | | 341 | 75,784 | 1,826 | 42 | | | | 77,993 |
| 1951 | | | | | 25 | 81,045 | 87,104 | 1,214 | 40 | | | | 169,428 |
| 1952 | | | 7 | 1 | 3 | 136,939 | 47,188 | 467 | 30 | 2 | 8 | | 184,645 |
| 1953 | | | 57 | 27 | 663 | 45,711 | 186,933 | 1,774 | 50 | | | | 235,215 |
| 1954 | | | 1 | | 13 | 52,359 | 76,505 | 1,212 | 17 | | | | 130,107 |
| 1955 | | | | | 79 | 21,923 | 214,860 | 866 | 11 | 9 | | | 237,748 |
| 1956 | | | | | 10 | 29,649 | 125,185 | 1,564 | 7 | 3 | | | 156,418 |
| 1957 | | | | | 21 | 38,616 | 43,938 | 323 | 14 | 3 | | | 82,915 |
| 1958 | | | | | 25 | 38,736 | 82,719 | 878 | 23 | 8 | | | 122,389 |
| 1959 | | | | 2 | 153 | 10,155 | 75,325 | 906 | 14 | 5 | | | 86,560 |
| 1960 | | | | | 4 | 41,758 | 17,615 | 321 | 15 | | | | 59,713 |
| 1961 | | | | 3 | 22 | 7,960 | 9,059 | 56 | 9 | 2 | | | 17,111 |
| 1962 | | | | 1 | 21 | 9,713 | 18,310 | 82 | 47 | 5 | | | 28,179 |
| 1963 | | | | | 492 | 25,010 | 34,275 | 216 | 304 | 17 | 5 | | 60,319 |
| 1964 | | | | 3 | 570 | 32,079 | 66,857 | 213 | 110 | 10 | 14 | | 99,856 |
| 1965 | | | | | 457 | 21,860 | 31,776 | 744 | 285 | 3 | | | 55,125 |
| 1966 | | | | 10 | 338 | 57,509 | 97,845 | 800 | 155 | 4 | | | 156,661 |
| 1967 | | | | 18 | 38 | 36,091 | 107,558 | 344 | 106 | 3 | | | 144,158 |
| 1968 | | | | 54 | 372 | 74,226 | 33,245 | 199 | 101 | 9 | 1 | | 108,207 |
| 1969 | | | | 5 | 165 | 24,238 | 34,970 | 120 | 124 | 13 | 1 | | 59,636 |
| 1970 | | | | 5 | 269 | 22,977 | 46,062 | 1,147 | 290 | 12 | | | 70,762 |
| 1971 | | | | | 70 | 14,789 | 72,203 | 313 | 69 | 2 | 1 | | 87,447 |
| 1972 | | | | | 614 | 16,505 | 37,939 | 1,254 | 9 | 2 | | | 56,323 |
| 1973 | | | | | 17 | 29,314 | 29,308 | 337 | 3 | | | | 58,979 |
| 1974 | | | | | 14 | 8,073 | 35,407 | 340 | 3 | | | | 43,837 |
| 1975 | | | | | 2 | 17,961 | 40,050 | 192 | 7 | | | | 58,212 |

TABLE 20

(Continued)

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM 1938 - 2007

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | | | 94 | 22,532 | 20,661 | 297 | 26 | 1 | | | 43,611 |
| 1977 | | | | 1 | 38 | 74,551 | 25,178 | 61 | | | | | 99,829 |
| 1978 | | | | 1 | 2 | 12,442 | 5,884 | 101 | 6 | | | | 18,436 |
| 1979 | | | | | 1 | 25,474 | 26,297 | 826 | 30 | | | | 52,628 |
| 1980 | | | | | | 22,949 | 35,764 | 164 | 4 | 1 | | | 58,882 |
| 1981 | | | | | 1 | 36,931 | 19,001 | 100 | 4 | | | | 56,037 |
| 1982 | | | | | 12 | 20,731 | 29,207 | 264 | 4 | 1 | | | 50,219 |
| 1983 | | | | | | 52,134 | 48,004 | 400 | 5 | 2 | | | 100,545 |
| 1984 | | | | | 6 | 106,892 | 45,141 | 494 | 7 | 1 | | | 152,541 |
| 1985 | | | | 3 | 13 | 112,054 | 53,842 | 422 | 4 | 2 | | | 166,340 |
| 1986 | | | | | 2 | 27,303 | 30,279 | 475 | 63 | 1 | | | 58,123 |
| 1987 | | | | | 1 | 75,674 | 40,930 | 383 | 5 | | | | 116,993 |
| 1988 | | | | | 11 | 44,409 | 35,168 | 121 | 5 | | | | 79,714 |
| 1989 | | | | | 3 | 24,638 | 17,000 | 231 | 11 | 1 | | | 41,884 |
| 1990 | | | | | | 26,141 | 23,244 | 195 | 1 | | | | 49,581 |
| 1991 | | | | | | 22,318 | 53,699 | 457 | 7 | | | | 76,481 |
| 1992 | | | | | 20 | 54,292 | 30,409 | 271 | | | | | 84,992 |
| 1993 | | | | | 7 | 49,667 | 30,377 | 127 | | | | | 80,178 |
| 1994 | | | | | 2 | 9,835 | 3,306 | 11 | | | | | 13,154 |
| 1995 | | | | | 1 | 5,924 | 3,151 | 59 | | | | | 9,135 |
| 1996 | | | | | 3 | 23,005 | 8,044 | 41 | | | | | 31,093 |
| 1997 | | | | | 9 | 23,559 | 24,392 | 381 | 1 | | | | 48,342 |
| 1998 | | | | | 1 | 7,796 | 5,723 | 93 | | | | | 13,613 |
| 1999 | | | | | | 8,613 | 9,629 | 61 | 1 | | | | 18,304 |
| 2000 | | | | | 146 | 83,479 | 13,847 | 69 | | | | | 97,541 |
| 2001 | | | | | 32 | 102,570 | 20,496 | 317 | 1 | | | | 123,416 |
| 2002 | | | | | 3 | 32,760 | 18,349 | 85 | 3 | | | | 51,200 |
| 2003 | | | | | 2 | 26,432 | 12,714 | 139 | 4 | | | | 39,291 |
| 2004 | | | | | 134 | 100,702 | 22,253 | 194 | 3 | | 5 | | 123,291 |
| 2005 | | | | | 16 | 47,093 | 25,724 | 118 | 20 | | | | 72,971 |
| 2006 | | | | | 9 | 27,398 | 9,518 | 129 | 12 | | | | 37,066 |
| 2007 | | | | | 36 | 18,742 | 5,487 | 107 | 4 | | | | 24,376 |
| TOTAL | | | 76 | 541 | 8,316 | 2,464,933 | 3,127,953 | 44,438 | 2,670 | 137 | 37 | 1 | 5,649,102 |
| 10-Year Average | | | | | 42 | 45,559 | 14,374 | 131 | | | | | 60,107 |

1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16.

1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15. 24 hour counts November 16 through December 31.

1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31. From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.

2003-2007 counts include video counts which took place between 0400-2000 PST January 1 through March 31 and November 1 through December 31.

TABLE 21

**MONTHLY COUNT OF COHO SALMON**

**BONNEVILLE DAM 1938 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | JACKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1938 | 3 | | | | | | | 3,070 | 10,995 | 972 | 141 | 7 | 15,188 | |
| 1939 | 3 | | | | | | | 1,811 | 12,226 | 310 | 15 | 18 | 14,383 | |
| 1940 | 2 | | | | | | | 1,451 | 10,212 | 213 | 33 | 5 | 11,916 | |
| 1941 | | | | | | | | 1,317 | 16,061 | 369 | 160 | 2 | 17,909 | |
| 1942 | | | | | | | | 1,193 | 11,062 | 147 | | | 12,402 | |
| 1943 | | | | | | | | 762 | 1,676 | 89 | 20 | | 2,547 | |
| 1944 | | | | | | | | 1,052 | 3,021 | 103 | 29 | 2 | 4,207 | |
| 1945 | | | | | | | 2 | 239 | 533 | 15 | | 1 | 790 | |
| 1946 | | 10 | 4 | | | | 22 | 228 | 3,609 | 1 | | 24 | 3,898 | |
| 1947 | 12 | 2 | 1 | | | | | 217 | 10,928 | 10 | 3 | 1 | 11,174 | |
| 1948 | 1 | | | | | | 11 | 158 | 3,893 | 10 | 3 | 5 | 4,081 | |
| 1949 | | | | | | | 17 | 270 | 703 | 5 | 8 | 1 | 1,004 | |
| 1950 | | | | | | | | 1,570 | 8,545 | 36 | | | 10,151 | |
| 1951 | | | | | | | | 197 | 4,773 | 225 | 6 | | 5,201 | |
| 1952 | | | | | | | 10 | 2,581 | 5,131 | 22 | 24 | | 7,768 | |
| 1953 | | | | | | | 1 | 7,094 | 5,890 | 22 | 11 | | 13,018 | |
| 1954 | | | | | | | | 668 | 3,319 | 74 | 1 | | 4,062 | |
| 1955 | | | | | | | | 443 | 3,188 | 94 | | | 3,725 | |
| 1956 | | | | | | | 7 | 1,158 | 4,879 | 83 | | | 6,127 | |
| 1957 | | | | | | | | 1,564 | 3,046 | 63 | 2 | | 4,675 | |
| 1958 | | | | | | | | 341 | 3,220 | 99 | 13 | | 3,673 | |
| 1959 | | | | | | | | 122 | 2,551 | 22 | | | 2,695 | |
| 1960 | | | | | | | | 538 | 2,502 | 224 | 4 | | 3,268 | |
| 1961 | | | | | | | | 277 | 2,867 | 306 | 6 | | 3,456 | |
| 1962 | | | | | | | 1 | 1,116 | 13,091 | 543 | 37 | | 14,788 | |
| 1963 | | | | | | | 4 | 1,071 | 8,664 | 2,724 | 195 | | 12,658 | |
| 1964 | | | | | | | 23 | 3,776 | 46,535 | 3,069 | 199 | | 53,602 | |
| 1965 | | | | | | 2 | 21 | 5,911 | 61,335 | 8,566 | 197 | | 76,032 | |
| 1966 | | | | | | 46 | 874 | 4,921 | 59,457 | 6,361 | 232 | | 71,891 | 34,919 |
| 1967 | | | | | | 33 | 715 | 3,814 | 87,254 | 4,560 | 112 | | 96,488 | 47,893 |
| 1968 | | | | | | 48 | 124 | 10,450 | 50,900 | 1,868 | 98 | | 63,488 | 20,435 |
| 1969 | | | | | | 38 | 443 | 4,671 | 41,176 | 2,998 | 52 | | 49,378 | 25,216 |
| 1970 | | | | | | 2 | 128 | 6,604 | 70,631 | 2,631 | 120 | | 80,116 | 25,248 |
| 1971 | | | | | | | 57 | 7,292 | 58,235 | 9,753 | 652 | | 75,989 | 22,172 |
| 1972 | | | | | | | 66 | 9,481 | 52,456 | 3,792 | 137 | | 65,932 | 31,716 |
| 1973 | | | | | | | 636 | 12,656 | 33,736 | 6,715 | 866 | | 54,609 | 28,760 |
| 1974 | | | | | | | 539 | 8,805 | 40,761 | 8,631 | 2,219 | | 60,955 | 29,350 |
| 1975 | | | | | | | 56 | 5,373 | 39,167 | 11,892 | 1,819 | | 58,307 | 25,535 |

TABLE 21

**(Continued)**

**MONTHLY COUNT OF COHO SALMON**

**BONNEVILLE DAM 1938 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | JACKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | | | | | 143 | 5,970 | 40,505 | 5,417 | 1,115 | | 53,150 | 16,484 |
| 1977 | | | | | | | 55 | 1,134 | 15,163 | 2,582 | 474 | | 19,408 | 10,083 |
| 1978 | | | | 1 | | | 2 | 2,643 | 38,308 | 10,531 | 1,105 | | 52,590 | 22,312 |
| 1979 | | | | | | | 68 | 7,324 | 28,732 | 7,583 | 1,621 | | 45,328 | 15,716 |
| 1980 | | | | | | | 10 | 781 | 13,601 | 3,327 | 4,333 | | 22,052 | 9,078 |
| 1981 | | | | | | | 4 | 3,162 | 23,962 | 3,108 | 274 | | 30,510 | 8,575 |
| 1982 | | | | | | | 79 | 3,687 | 55,743 | 13,182 | 1,141 | | 73,832 | 18,016 |
| 1983 | | | | | | | 44 | 319 | 7,237 | 5,020 | 2,553 | | 15,173 | 6,775 |
| 1984 | | | | | | | 41 | 1,394 | 20,174 | 6,229 | 1,649 | | 29,487 | 12,728 |
| 1985 | | | 1 | | | 7 | 92 | 3,977 | 46,749 | 5,670 | 361 | | 56,857 | 18,307 |
| 1986 | | | | | | | 181 | 2,502 | 110,714 | 14,436 | 3,020 | | 130,853 | 22,204 |
| 1987 | | | | | | | 464 | 2,364 | 21,002 | 3,556 | 249 | | 27,635 | 9,713 |
| 1988 | | | | | | | 78 | 3,377 | 26,303 | 8,614 | 1,248 | | 39,620 | 12,566 |
| 1989 | | | | | | | 60 | 2,353 | 24,089 | 9,543 | 3,236 | | 39,281 | 11,863 |
| 1990 | | | | | | | 9 | 587 | 18,202 | 5,230 | 817 | | 24,845 | 13,218 |
| 1991 | | | | | | | 5 | 941 | 46,331 | 13,713 | 3,067 | | 64,057 | 5,189 |
| 1992 | | | | | | | 19 | 222 | 10,304 | 5,953 | 1,628 | | 18,126 | 3,757 |
| 1993 | | | | | | | 15 | 448 | 8,191 | 2,786 | 292 | | 11,732 | 1,090 |
| 1994 | | | | | | | 5 | 1,608 | 12,521 | 8,239 | 421 | | 22,794 | 2,503 |
| 1995 | | | | | | | 118 | 978 | 7,049 | 3,969 | 458 | | 12,572 | 1,639 |
| 1996 | | | | | | | 66 | 431 | 10,413 | 7,775 | 392 | | 19,077 | 3,010 |
| 1997 | | | | | | | 22 | 1,441 | 19,412 | 6,755 | 289 | | 27,919 | 3,206 |
| 1998 | | | | | | | 13 | 896 | 35,245 | 13,047 | 282 | 5 | 49,488 | 3,630 |
| 1999 | | 19 | | | | 1 | 3 | 951 | 34,901 | 9,673 | 252 | 5 | 45,805 | 4,468 |
| 2000 | | | | | | | 3 | 13,348 | 55,550 | 29,698 | 949 | 112 | 99,660 | 11,383 |
| 2001 | 15 | | | | | 2 | 145 | 34,112 | 205,352 | 34,401 | 3,907 | | 277,934 | 6,781 |
| 2002 | | | | | | | 6 | 4,742 | 54,917 | 38,184 | 2,803 | 183 | 100,835 | 6,817 |
| 2003 | | | | | | | 10 | 11,389 | 86,621 | 35,516 | 334 | 4 | 133,874 | 8,127 |
| 2004 | 1 | | | | | | | 11,171 | 78,512 | 29,544 | 622 | 1 | 119,851 | 4,809 |
| 2005 | | | | | | | | 3,487 | 64,253 | 20,414 | 637 | | 88,791 | 5,486 |
| 2006 | | | | | | | | 12,771 | 58,048 | 35,014 | 4,192 | 28 | 110,053 | 7,943 |
| 2007 | -2 | | | | | | 6 | 8,888 | 55,968 | 28,712 | 2,947 | 57 | 96,576 | 12,125 |
| TOTAL | 35 | 31 | 6 | 1 | 0 | 179 | 5,523 | 263,660 | 2,132,300 | 505,038 | 54,082 | 461 | 2,961,316 | 590,845 |
| 10 Year Average | | | | | | | 27 | 10,176 | 72,937 | 27,420 | 1,693 | | 112,287 | 7,157 |

***Jacks included**

**1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15.**
**24 hour counts November 16 through December 31.**
**1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.**
**From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.**
**2003-07 counts include 16 hour video counts between 0400-2000 PST January 1 through March 31**
**and November 1 through December 31.**

TABLE 22

**MONTHLY COUNT OF STEELHEAD**
**BONNEVILLE DAM 1938 -2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | A-Run Jan 1- Aug 25 | B-Run Aug 26- Dec 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1938 | | | | | 6,622 | 2,382 | 19,455 | 29,231 | 46,618 | 2,264 | 339 | 92 | 107,003 | 49,306 | 57,697 |
| 1939 | 23 | 19 | 570 | 8,110 | 1,587 | 1,490 | 36,681 | 38,062 | 33,891 | 1,264 | 216 | 119 | 122,032 | 80,096 | 41,936 |
| 1940 | 5 | 96 | 1,688 | 4,125 | 998 | 4,489 | 61,188 | 46,071 | 64,377 | 1,786 | 292 | 59 | 185,174 | 106,724 | 78,450 |
| 1941 | 37 | 76 | 1,641 | 6,392 | 1,518 | 996 | 21,940 | 29,600 | 50,542 | 3,980 | 1,063 | 304 | 118,089 | 58,109 | 59,980 |
| 1942 | 4 | 37 | 256 | 3,642 | 4,159 | 1,588 | 19,905 | 41,973 | 77,076 | 2,412 | 566 | 182 | 151,800 | 65,219 | 86,581 |
| 1943 | 14 | 18 | 654 | 3,374 | 4,698 | 1,564 | 7,755 | 29,894 | 41,051 | 2,444 | 573 | 94 | 92,133 | 41,219 | 50,914 |
| 1944 | 50 | 157 | 1,019 | 6,142 | 2,224 | 1,169 | 21,868 | 24,508 | 35,907 | 6,129 | 1,119 | 226 | 100,518 | 51,585 | 48,933 |
| 1945 | 1,003 | 1,078 | 3,008 | 4,685 | 1,557 | 1,109 | 24,537 | 40,593 | 40,194 | 1,925 | 302 | 142 | 120,133 | 72,685 | 47,448 |
| 1946 | 64 | 551 | 3,040 | 9,839 | 5,482 | 3,265 | 20,600 | 58,466 | 38,399 | 2,070 | 262 | 769 | 142,807 | 93,422 | 49,385 |
| 1947 | 197 | 321 | 1,968 | 6,889 | 2,025 | 1,595 | 28,134 | 40,819 | 50,025 | 2,905 | 443 | 123 | 135,444 | 75,035 | 60,409 |
| 1948 | 154 | 119 | 1,631 | 4,473 | 1,170 | 1,895 | 33,191 | 53,621 | 40,609 | 1,742 | 381 | 76 | 139,062 | 87,453 | 51,609 |
| 1949 | 1 | | 1,689 | 3,293 | 1,712 | 1,264 | 34,314 | 54,281 | 20,786 | 1,161 | 686 | 98 | 119,285 | 90,762 | 28,523 |
| 1950 | 13 | 8 | 1,156 | 4,537 | 1,667 | 691 | 25,142 | 53,904 | 24,226 | 1,932 | 811 | | 114,087 | 80,191 | 33,896 |
| 1951 | | | 375 | 2,338 | 1,568 | 5,187 | 74,980 | 39,712 | 15,357 | 947 | 225 | | 140,689 | 121,100 | 19,589 |
| 1952 | | | 278 | 1,248 | 1,751 | 8,202 | 118,110 | 79,735 | 48,293 | 2,735 | 638 | | 260,990 | 190,012 | 70,978 |
| 1953 | | | 1,310 | 5,308 | 1,456 | 5,313 | 106,712 | 64,006 | 36,107 | 2,797 | 905 | | 223,914 | 173,135 | 50,779 |
| 1954 | | 6 | 679 | 5,511 | 1,571 | 6,115 | 59,443 | 65,234 | 34,941 | 2,209 | 551 | | 176,260 | 126,085 | 50,175 |
| 1955 | | | 1,006 | 2,100 | 1,149 | 2,418 | 79,124 | 84,746 | 24,239 | 3,361 | 268 | | 198,411 | 161,614 | 36,797 |
| 1956 | | | 1,409 | 2,718 | 1,582 | 3,122 | 48,306 | 47,148 | 23,343 | 2,846 | 635 | 7 | 131,116 | 99,692 | 31,424 |
| 1957 | | | 926 | 2,081 | 760 | 8,434 | 66,738 | 34,915 | 24,029 | 1,069 | 231 | | 139,183 | 105,179 | 34,004 |
| 1958 | | | 495 | 651 | 1,457 | 5,645 | 53,734 | 22,827 | 44,478 | 1,859 | 291 | | 131,437 | 79,533 | 51,904 |
| 1959 | | | 219 | 746 | 1,236 | 2,562 | 60,549 | 38,417 | 23,579 | 1,540 | 178 | | 129,026 | 98,198 | 30,828 |
| 1960 | | | 412 | 904 | 1,090 | 4,314 | 44,026 | 33,571 | 28,058 | 1,090 | 211 | | 113,676 | 77,141 | 36,535 |
| 1961 | | | 374 | 1,161 | 692 | 2,246 | 44,379 | 41,237 | 47,409 | 1,561 | 660 | | 139,719 | 79,269 | 60,450 |
| 1962 | | | 381 | 1,957 | 1,491 | 3,737 | 49,789 | 40,177 | 64,084 | 1,798 | 611 | | 164,025 | 86,990 | 77,035 |
| 1963 | | | 503 | 1,035 | 1,385 | 4,192 | 51,951 | 31,441 | 35,446 | 2,920 | 545 | | 129,418 | 83,858 | 45,560 |
| 1964 | | | 490 | 1,609 | 769 | 1,940 | 50,640 | 26,892 | 32,406 | 1,954 | 552 | | 117,252 | 76,135 | 41,117 |
| 1965 | | | 211 | 1,516 | 1,419 | 4,265 | 89,405 | 29,506 | 37,529 | 1,971 | 631 | | 166,453 | 120,560 | 45,893 |
| 1966 | | | 658 | 2,682 | 2,389 | 13,051 | 57,975 | 25,779 | 37,733 | 2,657 | 737 | | 143,661 | 97,545 | 46,116 |
| 1967 | | | 416 | 1,182 | 899 | 3,062 | 40,881 | 36,787 | 35,472 | 2,701 | 472 | | 121,872 | 78,794 | 43,078 |
| 1968 | | | 340 | 861 | 1,315 | 3,664 | 29,773 | 41,006 | 27,865 | 1,645 | 505 | | 106,974 | 68,423 | 38,551 |
| 1969 | | | 911 | 2,164 | 2,897 | 6,889 | 63,222 | 36,077 | 26,565 | 1,484 | 573 | | 140,782 | 104,051 | 36,731 |
| 1970 | | | 244 | 1,267 | 1,331 | 4,208 | 30,866 | 46,307 | 27,073 | 1,909 | 305 | | 113,510 | 78,106 | 35,404 |
| 1971 | | | 463 | 1,377 | 1,810 | 4,469 | 84,877 | 58,249 | 38,619 | 3,739 | 363 | | 193,966 | 141,054 | 52,912 |
| 1972 | | | 492 | 2,562 | 2,137 | 3,444 | 59,933 | 48,223 | 65,523 | 3,432 | 140 | | 185,886 | 107,227 | 78,659 |
| 1973 | | | 830 | 2,534 | 1,367 | 5,360 | 53,820 | 46,399 | 43,275 | 3,918 | 320 | | 157,823 | 100,011 | 57,812 |
| 1974 | | | 1,292 | 4,127 | 5,547 | 6,349 | 57,212 | 44,266 | 14,654 | 3,080 | 527 | | 137,054 | 84,402 | 52,652 |
| 1975 | | | 1,080 | 4,284 | 4,324 | 6,058 | 30,823 | 28,623 | 9,106 | 904 | 338 | | 85,540 | 71,586 | 13,954 |

TABLE 22

**(Continued)**

**MONTHLY COUNT OF STEELHEAD**
**BONNEVILLE DAM 1938 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | Jan 1-Aug 25 | Aug 26-Dec 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | 1,285 | 3,459 | 3,677 | 9,130 | 38,907 | 44,204 | 21,084 | 1,953 | 478 | | 124,177 | 92,370 | 31,807 |
| 1977 | | | 1,159 | 4,121 | 4,115 | 11,395 | 67,554 | 35,161 | 66,084 | 3,298 | 550 | | 193,437 | 113,682 | 79,755 |
| 1978 | | | 1,750 | 3,327 | 4,587 | 10,883 | 25,284 | 25,637 | 30,461 | 2,168 | 334 | | 104,431 | 64,188 | 40,243 |
| 1979 | | | 1,333 | 1,905 | 1,785 | 7,585 | 33,379 | 39,399 | 23,592 | 4,710 | 291 | | 113,979 | 79,472 | 34,507 |
| 1980 | | | 1,139 | 3,378 | 1,409 | 7,790 | 28,448 | 51,073 | 32,277 | 3,233 | 507 | | 129,254 | 85,010 | 44,244 |
| 1981 | | | 1,031 | 3,812 | 3,887 | 12,628 | 56,787 | 52,435 | 25,737 | 2,650 | 303 | | 159,270 | 121,785 | 37,485 |
| 1982 | | | 1,239 | 4,188 | 5,335 | 8,636 | 39,159 | 51,329 | 44,456 | 3,146 | 152 | | 157,640 | 103,159 | 54,481 |
| 1983 | | | 458 | 1,253 | 1,638 | 6,017 | 69,036 | 86,066 | 48,920 | 4,636 | 415 | | 218,439 | 148,853 | 69,586 |
| 1984 | | | 579 | 2,106 | 4,216 | 14,454 | 92,546 | 93,866 | 102,877 | 4,463 | 453 | | 315,560 | 189,365 | 126,195 |
| 1985 | | | 977 | 2,956 | 3,997 | 13,036 | 102,256 | 152,455 | 63,575 | 4,088 | 647 | | 343,987 | 251,723 | 92,264 |
| 1986 | | | 2,712 | 3,674 | 4,500 | 16,655 | 136,622 | 129,089 | 76,532 | 9,280 | 827 | | 379,891 | 279,154 | 100,737 |
| 1987 | | | 1,189 | 2,112 | 3,233 | 12,443 | 104,615 | 115,481 | 58,815 | 4,331 | 862 | | 303,081 | 227,013 | 79,120 |
| 1988 | | | 1,158 | 3,728 | 5,016 | 13,615 | 72,718 | 113,791 | 63,864 | 4,421 | 761 | | 279,072 | 190,030 | 89,042 |
| 1989 | | | 630 | 2,213 | 3,343 | 10,176 | 62,913 | 117,686 | 84,665 | 5,419 | 753 | | 287,798 | 176,965 | 110,833 |
| 1990 | | | 966 | 2,563 | 4,501 | 11,643 | 37,140 | 52,327 | 65,813 | 7,522 | 552 | | 183,027 | 89,144 | 93,883 |
| 1991 | | | 640 | 2,082 | 2,196 | 6,601 | 52,187 | 110,027 | 93,152 | 6,947 | 713 | | 274,545 | 150,542 | 124,003 |
| 1992 | | | 646 | 1,964 | 3,239 | 9,708 | 55,090 | 135,162 | 103,792 | 4,918 | 456 | | 314,975 | 175,218 | 139,757 |
| 1993 | | | 771 | 1,744 | 2,691 | 9,923 | 34,148 | 64,062 | 69,129 | 5,531 | 387 | | 188,386 | 99,941 | 88,445 |
| 1994 | | | 422 | 1,976 | 3,132 | 7,511 | 27,202 | 59,157 | 54,856 | 8,079 | 789 | | 163,124 | 83,968 | 79,156 |
| 1995 | | | 333 | 863 | 1,257 | 6,419 | 29,305 | 112,812 | 48,781 | 6,691 | 1,104 | 1,506 | 209,071 | 126,537 | 82,534 |
| 1996 | 793 | 57 | 1,862 | 1,776 | 2,424 | 6,912 | 40,813 | 102,200 | 48,397 | 6,143 | 761 | 337 | 212,475 | 141,999 | 70,476 |
| 1997 | 342 | 426 | 1,966 | 1,950 | 2,485 | '530+166 | 57,472 | 127,882 | 53,571 | 18,428 | 2,234 | 84 | 266,840 | 177,685 | 89,155 |
| 1998 | 161 | 239 | 984 | 883 | 1,655 | 7,236 | 36,437 | 60,403 | 76,293 | 12,136 | 489 | 585 | 197,501 | 87,422 | 97,672 |
| 1999 | 15 | 287 | 699 | 833 | 1,308 | 5,157 | 48,278 | 101,610 | 46,200 | 6,509 | 637 | 585 | 212,118 | 138,258 | 68,230 |
| 2000 | 340 | 420 | 1,495 | 1,235 | 2,006 | 13,594 | 80,259 | 106,918 | 68,407 | 7,306 | 510 | 175 | 282,665 | 185,066 | 90,112 |
| 2001 | 333 | 239 | 2,196 | 2,043 | 3,331 | 24,076 | 199,969 | 263,518 | 152,434 | 21,542 | 4,343 | 2,769 | 676,793 | 435,035 | 198,038 |
| 2002 | 1,311 | 833 | 1,770 | 2,918 | 2,752 | 19,918 | 119,923 | 180,381 | 151,807 | 24,004 | 4,140 | 923 | 510,680 | 285,229 | 195,080 |
| 2003 | 724 | 1,728 | 2,264 | 1,474 | 1,714 | 10,966 | 95,185 | 139,612 | 95,759 | 12,467 | 3,115 | 813 | 365,821 | 231,717 | 134,104 |
| 2004 | 236 | 646 | 1,799 | 1,815 | 2,947 | 16,183 | 66,621 | 111,886 | 94,482 | 15,024 | 972 | 767 | 313,378 | 178,653 | 134,725 |
| 2005 | 149 | 62 | 103 | 1,064 | 1,517 | 9,286 | 84,968 | 110,487 | 83,450 | 21,694 | 2,598 | 272 | 315,650 | 191,275 | 124,375 |
| 2006 | 1,587 | 446 | 944 | 1,174 | 1,537 | 7,172 | 46,912 | 154,325 | 104,659 | 13,400 | 5,750 | 1,235 | 339,141 | 180,418 | 158,723 |
| 2007 | 601 | 387 | 1,514 | 1,020 | 1,666 | 6,789 | 58,362 | 185,281 | 54,543 | 11,734 | 1,332 | 688 | 323,917 | 232,586 | 91,331 |
| TOTAL | 8,157 | 8,256 | 72,127 | 191,033 | 171,907 | 481,280 | 3,962,473 | 4,918,025 | 3,617,348 | 356,011 | 56,680 | 13,030 | 13,856,327 | 8,874,968 | 4,884,796 |
| 10-Year Average | | | 1,377 | 1,446 | 2,043 | 12,038 | 83,691 | 141,442 | 92,803 | 14,582 | 2,389 | | 353,766 | 214,566 | 129,239 |

**1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16.**
**1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15. 24 hour counts November 16 through December 31.**
**1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31. From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.**
**2003 - 2007 counts include 16 hour video counts between 0400-2000 PST January 1 through March 31 and November 1 through December 31.**

TABLE 23

## MONTHLY COUNT OF SHAD at BONNEVILLE DAM 1938 - 2007

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1938 | | | | | | 39 | 3,184 | 1,502 | 527 | 21 | | | 5,273 |
| 1939 | | | | | 14 | 1,539 | 3,065 | 157 | 28 | | | | 4,803 |
| 1940 | | | | | 48 | 12,931 | 9,178 | 72 | 1 | | | | 22,230 |
| 1941 | | | | | 5 | 2,417 | 16,010 | 197 | 12 | 16 | | | 18,657 |
| 1942 | | | | | 2 | 38 | 11,341 | 1,473 | 5 | | | | 12,859 |
| 1943 | | | | | | 18 | 2,545 | 265 | 20 | | | | 2,848 |
| 1944 | | | | | | 287 | 16,568 | 248 | | | | | 17,103 |
| 1945 | | | | | | 2,801 | 90,773 | 948 | 4 | | | | 94,526 |
| 1946 | | | | | | 3,895 | 16,073 | 415 | | | | | 20,383 |
| 1947 | | | | | 8 | 5,645 | 20,280 | 105 | 3 | | | | 26,041 |
| 1948 | | | | | | 8 | 6,458 | 1,953 | 2 | 1 | | | 8,422 |
| 1949 | | | | | | 2,647 | 19,609 | 322 | 1 | | | | 22,579 |
| 1950 | | | | | | | 7,265 | 548 | 3 | | | | 7,816 |
| 1951 | | | | | | 1,269 | 6,792 | 277 | 15 | | | | 8,353 |
| 1952 | | | | | | 487 | 2,595 | 45 | 4 | | | | 3,131 |
| 1953 | | | | | | 53 | 14,856 | 1,502 | 19 | | | | 16,430 |
| 1954 | | | | | | 34 | 3,848 | 1,136 | 11 | | | | 5,029 |
| 1955 | | | | | | 21 | 4,411 | 1,358 | 18 | | | | 5,808 |
| 1956 | | | | | 1 | 67 | 6,838 | 1,168 | 11 | | | | 8,085 |
| 1957 | | | | | | 1,695 | 11,039 | 422 | 1 | 2 | | | 13,159 |
| 1958 | | | | | | 3,885 | 6,257 | 59 | | | | | 10,201 |
| 1959 | | | | | 3 | 32 | 6,315 | 369 | 1 | | | | 6,720 |
| 1960 | | | | | | 35,259 | 57,443 | 594 | 72 | | | | 93,368 |
| 1961 | | | | | | 18,952 | 245,471 | 1,236 | 33 | 5 | | | 265,697 |
| 1962 | | | | | | 43,689 | 387,554 | 4,657 | 82 | 4 | 2 | | 435,988 |
| 1963 | | | | | 70 | 77,961 | 307,466 | 4,044 | 217 | 14 | | | 389,772 |
| 1964 | | | | | 19 | 3,203 | 236,321 | 13,008 | 121 | 2 | | | 252,674 |
| 1965 | | | | | 1 | 33,815 | 570,432 | 12,844 | 194 | 35 | 2 | | 617,323 |
| 1966 | | | | | 94 | 181,187 | 367,643 | 7,988 | 545 | 51 | 5 | | 557,513 |
| 1967 | | | 1 | 1 | | 6,673 | 212,681 | 2,944 | 152 | 8 | | | 222,460 |
| 1968 | | | | | 800 | 107,881 | 183,878 | 1,387 | 121 | 10 | 1 | | 294,078 |
| 1969 | | | 2 | 5 | 158 | 233,018 | 81,159 | 2,846 | 163 | 7 | | | 317,358 |
| 1970 | | | | 2 | 250 | 228,519 | 99,659 | 566 | 262 | 18 | | | 329,276 |
| 1971 | | | | | 30 | 34,345 | 154,215 | 951 | 55 | 1 | | | 189,597 |
| 1972 | | | | | 38 | 16,689 | 192,608 | 5,301 | 88 | 1 | | | 214,725 |
| 1973 | | | | | 116,057 | 377,830 | 24,701 | 577 | 38 | 4 | | | 519,207 |
| 1974 | | | | | 7 | 6,122 | 91,302 | 1,496 | 17 | 1 | | | 98,945 |
| 1975 | | | | | 11 | 43,712 | 219,133 | 1,349 | 38 | 3 | | | 264,246 |

TABLE 23

(Continued)

MONTHLY COUNT OF SHAD at
BONNEVILLE DAM 1938 - 2007

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | | | 4 | 123,053 | 179,994 | 2,112 | 49 | 7 | | | 305,219 |
| 1977 | | | | | 51,709 | 431,540 | 11,818 | 568 | 76 | 12 | | | 495,723 |
| 1978 | | | | | 30 | 802,110 | 57,997 | 991 | 33 | 5 | | | 861,166 |
| 1979 | | | | | 800 | 994,253 | 43,734 | 658 | 258 | 141 | 13 | | 1,039,857 |
| 1980 | | | | | 1,460 | 766,473 | 170,705 | 685 | 51 | 15 | 1 | | 939,390 |
| 1981 | | | | 2 | 20,976 | 708,295 | 150,730 | 1,080 | 79 | 17 | | | 881,179 |
| 1982 | | | | 1 | 6,888 | 655,037 | 117,325 | 914 | 37 | 9 | 1 | | 780,212 |
| 1983 | | | | | 78,105 | 1,224,342 | 118,975 | 1,103 | 112 | 37 | | | 1,422,674 |
| 1984 | | | | | 553 | 950,406 | 320,526 | 4,097 | 153 | 55 | 1 | | 1,275,791 |
| 1985 | | | | | 101,770 | 816,288 | 55,233 | 1,410 | 206 | 39 | 5 | | 974,951 |
| 1986 | | | | | 104,724 | 722,443 | 29,622 | 1,164 | 166 | 47 | 4 | | 858,170 |
| 1987 | | | | 28 | 254,326 | 678,850 | 10,254 | 379 | 32 | 5 | 1 | | 943,875 |
| 1988 | | | | 20 | 408,822 | 734,635 | 20,146 | 697 | | | | | 1,164,320 |
| 1989 | | | | 1 | 199,327 | 1,651,338 | 24,697 | 2,041 | | | | | 1,877,404 |
| 1990 | | | | 4 | 532,617 | 2,296,098 | 116,799 | 2,347 | | | | | 2,947,865 |
| 1991 | | | | 1 | 37,677 | 1,566,933 | 307,835 | 1,971 | | | | | 1,914,417 |
| 1992 | | | | 256 | 685,939 | 1,767,696 | 93,446 | 4,102 | | | | | 2,551,439 |
| 1993 | | | 11 | 10 | 111,459 | 1,883,831 | 167,900 | 3,463 | | | | | 2,166,674 |
| 1994 | | | | 53 | 136,547 | 1,223,421 | 195,894 | 1,640 | | | | | 1,557,555 |
| 1995 | | | | 1 | 231,973 | 1,289,390 | 193,091 | 1,724 | | | | | 1,716,179 |
| 1996 | | | | | 24,653 | 1,676,695 | 221,795 | 1,514 | | | | | 1,924,657 |
| 1997 | | | | | 97,507 | 1,760,507 | 312,779 | 768 | | | | | 2,171,561 |
| 1998 | | | | 1 | 185,810 | 1,660,405 | 44,656 | 120 | | | | | 1,890,992 |
| 1999 | | | | | 132,782 | 1,374,822 | 129,625 | 1,043 | | | | | 1,638,272 |
| 2000 | | | | 6 | 229,344 | 961,587 | 52,558 | 822 | | | | | 1,244,317 |
| 2001 | | | | 9 | 704,104 | 1,550,639 | 41,596 | 1,611 | | | | | 2,297,959 |
| 2002 | | | | 0 | 382,611 | 2,670,772 | 110,780 | 393 | | | | | 3,164,556 |
| 2003 | | | | | 420,265 | 4,025,864 | 108,226 | 4,195 | | | | | 4,558,550 |
| 2004 | | | | | 662,249 | 4,544,400 | 142,236 | 6,792 | | | | | 5,355,677 |
| 2005 | | | | | 288,233 | 3,768,400 | 182,603 | 2,893 | | | | | 4,242,129 |
| 2006 | | | | | 205,664 | 3,555,887 | 197,303 | 6,400 | | | | | 3,965,254 |
| 2007 | | | | 56 | 695,605 | 1,763,670 | 112,508 | 3,438 | | | | | 2,575,277 |
| TOTAL | | | 14 | 457 | 7,112,149 | 52,088,743 | 7,760,352 | 139,464 | 4,136 | 593 | 36 | | 67,105,944 |
| 10 Year - Average | | | | | 390,667 | 2,587,645 | 112,209 | 2,771 | | | | | 3,093,298 |

TABLE 24

## MONTHLY COUNT OF LAMPREY at BONNEVILLE DAM 1939[1] - 1969, 1997 – 2007

**Information concerning the lamprey count table.**

**The counts in the following table can be considered an approximation of trends, only. Lamprey are difficult animals to count in that they move back and forth in front of the fish count window. They also spend long periods of time resting. Lamprey also are more likely to pass at night than are salmon and for most of the years, fish counting took place only in the daytime. Further, during the 1970s, the count station was changed from a flashboard counting system in which the fish passed over a white board to a vertical slot system in which the fish pass through a lighted window. This change could have made a difference in the counts. In addition, it is known that lamprey do not always use the fish ladder and may pass over a dam through several routes including the navigation lock and the auxiliary water supply.**

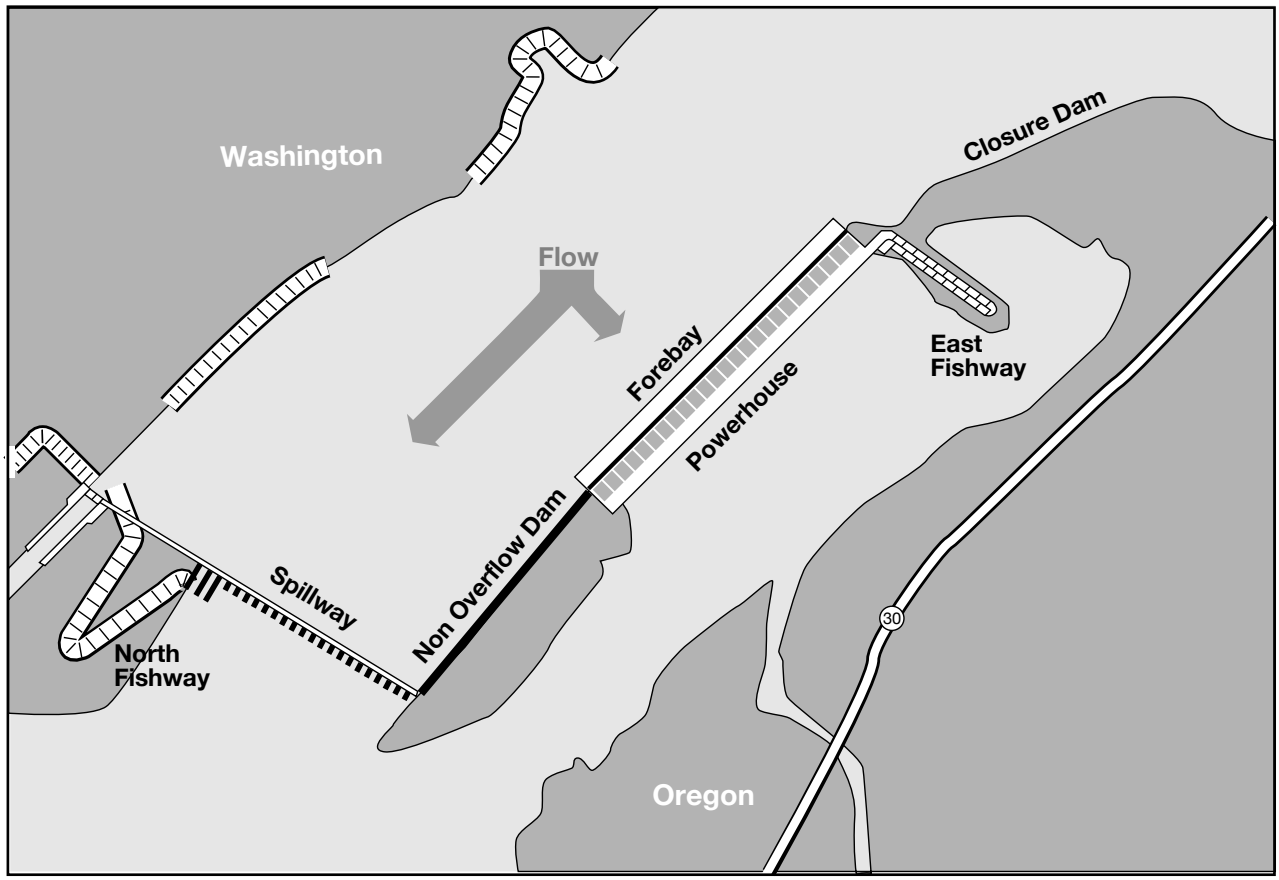
| Year | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1939 | | | | 732 | 9,027 | 95,814 | 103,726 | 14,403 | 3,349 | 71 | 0 | | 227,122 |
| 1940 | | | | 338 | 24,551 | 40,642 | 67,760 | 20,554 | 2,217 | 40 | 0 | | 156,102 |
| 1941 | | | | 1,428 | 7,449 | 6,960 | 34,952 | 12,801 | 1,305 | 57 | 2 | | 64,954 |
| 1942 | | | | 13 | 1,302 | 3,457 | 28,641 | 16,270 | 2,619 | 40 | 19 | | 52,361 |
| 1943 | | | | 0 | 1,684 | 3,539 | 14,332 | 26,508 | 5,017 | 14 | 2 | | 51,096 |
| 1944 | | | | 22 | 2,189 | 1,411 | 19,288 | 11,853 | 1,342 | 86 | 18 | | 36,209 |
| 1945 | | | | 56 | 1,676 | 4,365 | 16,395 | 11,533 | 2,407 | 56 | 0 | | 36,488 |
| 1946 | | | | 57 | 684 | 13,834 | 42,772 | 15,820 | 1,565 | 93 | 0 | | 74,825 |
| 1947 | | | | 158 | 9,183 | 7,563 | 54,032 | 17,680 | 3,566 | 2,141 | 3 | | 94,326 |
| 1948 | | | 1 | 82 | 295 | 13,744 | 79,507 | 44,511 | 4,948 | 725 | 2 | | 143,815 |
| 1949 | | | | 5 | 1,105 | 5,678 | 41,438 | 8,264 | 1,372 | 40 | 7 | 19 | 57,928 |
| [2]1950 | | | | | 207 | 1,073 | 6,702 | 22,128 | 2,436 | 140 | 7 | | 32,693 |
| 1951 | | | | 1 | 4 | 11,001 | 8,554 | 25,078 | 420 | 51 | 1 | | 45,110 |
| 1952 | | | | | 8 | 3,674 | 13,854 | 7,462 | 1,194 | 11 | | | 26,203 |
| 1953 | | | | 79 | 946 | 727 | 17,917 | 26,053 | 1,381 | 25 | 1 | | 47,129 |
| 1954 | | | | 33 | 201 | 1,001 | 10,303 | 26,535 | 2,824 | 89 | | | 40,986 |
| 1955 | | | | | 210 | 764 | 16,368 | 21,765 | 3,341 | 154 | 1 | | 42,603 |
| 1956 | | | | | 24 | 657 | 36,987 | 10,181 | 1,949 | 113 | | | 49,911 |
| 1957 | | | | 19 | 185 | 17,698 | 28,506 | 5,907 | 699 | 17 | | | 53,031 |
| 1958 | | | | 132 | 877 | 8,092 | 79,548 | 7,448 | 1,036 | 171 | 1,115 | | 98,419 |
| 1959 | | | | 23 | 67 | 6,273 | 123,104 | 79,976 | 4,006 | 1,626 | 8 | | 215,083 |
| 1960 | | | | 8 | 1,521 | 12,185 | 125,962 | 30,751 | 7,329 | 142 | | | 177,898 |
| 1961 | | | | 30 | 649 | 16,786 | 200,722 | 126,438 | 20,110 | 70 | | | 364,805 |
| 1962 | | | | 1 | 441 | 13,573 | 49,868 | 30,253 | 7,103 | 166 | 21 | | 101,426 |
| 1963 | | | | 21 | 20,827 | 5,803 | 28,348 | 24,639 | 7,702 | 597 | | | 87,937 |
| 1964 | | | 2 | 8 | 2,575 | 17,796 | 39,223 | 41,214 | 3,167 | 347 | 5 | | 104,337 |
| 1965 | | | | 54 | 6,674 | 8,886 | 71,027 | 16,949 | 4,617 | 772 | 8 | | 108,987 |
| 1966 | | | | 168 | 6,562 | 11,772 | 25,813 | 20,543 | 2,207 | 844 | 5 | | 67,914 |
| 1967 | | | | 211 | 4,416 | 6,348 | 38,591 | 14,792 | 1,570 | 225 | 18 | | 66,171 |
| 1968 | | | | 92 | 14,698 | 18,389 | 57,011 | 17,611 | 949 | 275 | 4 | | 109,029 |
| 1969 | | | | 44 | 24,386 | 230,096 | 87,769 | 32,908 | 4,126 | 170 | 10 | | 379,509 |
| *** Counting lamprey was stopped after 1969. It was resumed again in 1997. *** | | | | | | | | | | | | | |
| 1997 | | | | 4 | 1,691 | [3] ##### | 1,939 | 9,783 | 8,643 | 770 | 0 | | 22,830 |
| 1998 | | | | 103 | 2,213 | 12,851 | 14,548 | 5,304 | 2,211 | 285 | 0 | | 37,515 |
| 1999 | | | | 65 | 4,780 | 8,801 | 12,047 | 7,584 | 3,717 | 302 | 0 | | 37,296 |
| 2000 | | | | 91 | 2,204 | 7,953 | 4,184 | 3,408 | 1,038 | 123 | 1 | | 19,002 |
| 2001 | | | | 1 | 2,075 | 11,143 | 9,895 | 4,141 | 620 | 72 | | | 27,947 |
| 2002 | | | | 0 | 1,280 | 34,070 | 39,405 | 17,380 | 7,977 | 364 | | | 100,476 |
| 2003 | | | | 6 | 2,874 | 50,875 | 45,863 | 13,230 | 3,843 | 336 | | | 117,027 |
| 2004 | | | | | 1,670 | 27,515 | 23,607 | 6,644 | 2,170 | 174 | | | 61,780 |
| 2005 | | | | -1 | 774 | 10,706 | 12,271 | 2,320 | 498 | 96 | | | 26,664 |
| 2006 | | | | 1 | 446 | 8,874 | 18,603 | 6,868 | 4,013 | 122 | 13 | | 38,940 |
| 2007 | | | | 0 | 297 | 2,397 | 12,948 | 2,884 | 818 | -26 | -9 | | 19,309 |
| TOTAL | | | 3 | 4,085 | 164,927 | 764,786 | 1,764,330 | 868,374 | 143,421 | 11,986 | 1,262 | | 3,723,193 |
| 10-Year Average | | | | 30 | 1,861 | 17,519 | 19,337 | 6,976 | 2,691 | 185 | | | 48,596 |

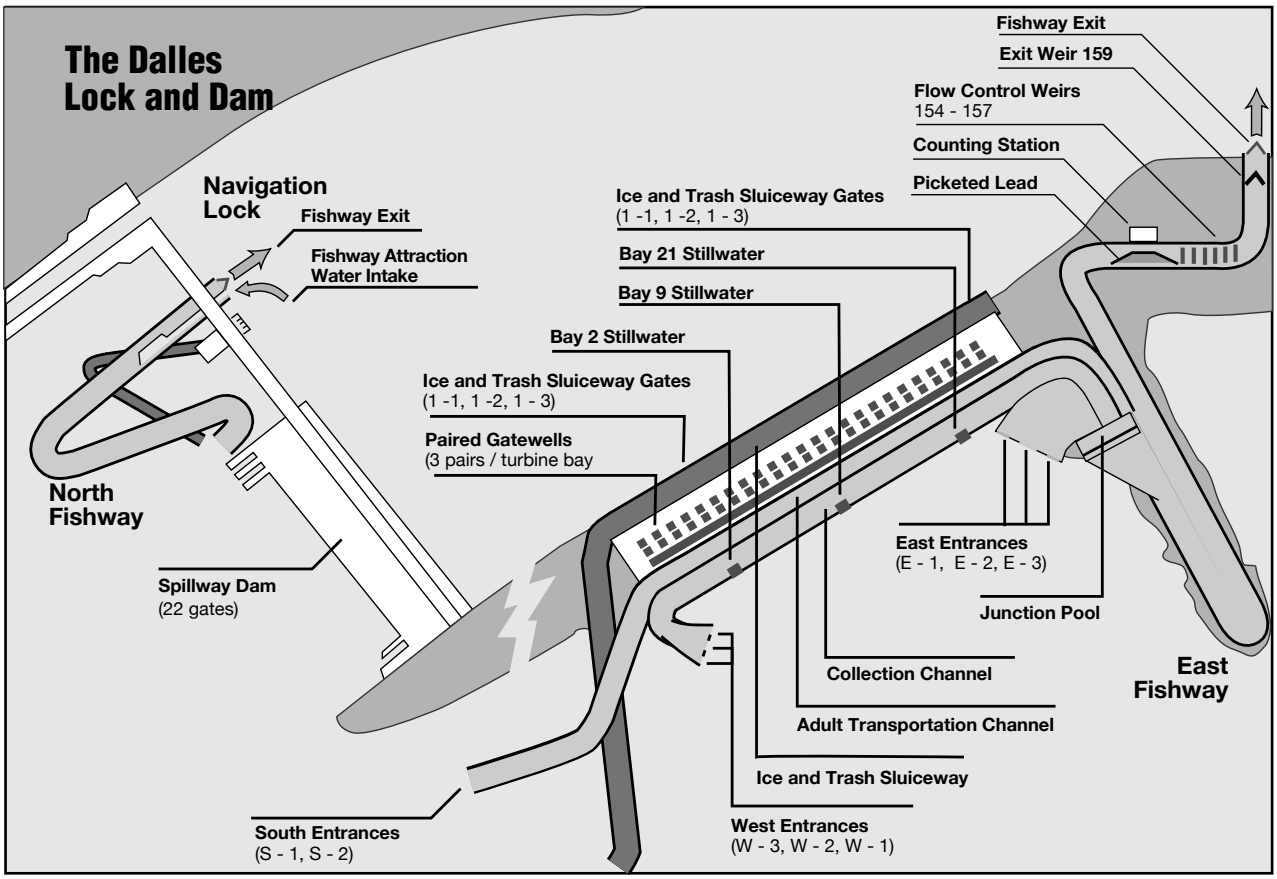
[1]No data are available for 1938.

[2]Because of changes in the Washington shore counting station, lamprey counts from 1939-1949 cannot be compared with counts from 1950 on.

[3]Because of the heavy shad run, fish counters were not asked to count lamprey from June 1 through July 27.

# Plate 3 The Dalles Lock and Dam



# THE DALLES DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| Feb 20 – Mar 31 | Video counting daily 0400-2000 hours Pacific Standard Time. |
| Apr 1 – Oct 31 | Visual counting daily 0400-2000 hours Pacific Standard Time. |
| Nov 1 – Dec 7 | Video counting daily 0400-2000 hours Pacific Standard Time. |

## FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calender year 2007. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports.

**East Adult Fishway**

Jan 1-Jan 2: in full operation with attraction water
Jan 3: ladder flow only
Jan 4 – Feb 22: dewatered for maintenance
Feb 23-Feb28: ladder flow only
Mar 1-Dec 4: in full operation with attraction water
Aug 9: Attraction water off half day for required ROV grating inspection
Dec 5 – Dec 31: dewatered for maintenance

**North Adult Fishway**

Jan 1-Jan 3: ladder flow only
Jan 4 – Dec 31: in full operation with attraction water
Aug 9: attract water off half day for required ROV grating inspection

**Ice/Trash Sluiceway (Juvenile)**

Jan 1-Apr 1: endgate closed
Apr 2-Nov 30: open with sluicegates 1-1, 1-2, 1-3, 5-3, 182, 18-3
Dec 1-Dec 31: endgate closed

**Spillway**

Jan 1-Apr 9: closed
Apr 10-Aug 31: spill 40%, 24 hrs/day
Sept 1-Dec 31: closed

## FISH RELATED DEWATERINGS

### *FISHWAY DEWATERING PROCEDURES*

Bulkheads are installed and drain valves open to dewater various areas of fishways. Fisheries personnel enter these areas to salvage fish that become entrapped. Minimal handling of fish is applied. Fish that are reluctant to vacate an area are captured and transported to the forebay or tailwater, depending on circumstances such as fish species, age class and stress levels. A follow up inspection is made to account for possible missed fish. Efforts are made to provide continual

water supply during the entire operation to reduce fish stranding. Fishway areas not included on this list are inspected by divers.

***Fishway Dewaterings***

East ladder (Jan 6) – Seventeen adult steelhead released to river.

West entrance (Jan 6) – Three adult steelhead released to river.
South entrance (Jan 6) – Two adult steelhead and 2 juvenile steelhead and 25 lamprey released to river.
East entrance, junction pool, collection and transportation channels (Feb 1) – Four adult steelhead, 244 lamprey, 7 small sturgeon and 4 carp released to river.
East ladder (Dec 5) – Annual inspection and maintenance. One adult steelhead, 12 juvenile steelhead and 6 large sturgeon (5'-7') released to river. Three lamprey given to Nez Perce and 1 to Umatilla Tribe restocking efforts.
South entrance (Dec 17) – One adult steelhead released to river. Seventeen lamprey given to Nez Perce tribe for restocking efforts.
Junction pool (Dec 17) – Five adult steelhead released to river.
Transportation channel (Dec 17) – Five adult steelhead, 14 small sturgeon released to river. Two lamprey given to Nez Perce for restocking efforts.
East entrance (Dec 17) – Two adult steelhead released to river.
Collection channel and west entrance (Dec 17) – no fish found.

***Fishway Dives***

North and east fishway ROV(Aug 9) – Annual mid season inspection. No problems found.

***TURBINE DEWATERING PROCEDURES***

Turbine dewatering for routine maintenance usually involves low numbers of fish, due to operational guidelines. If a turbine unit fails, operational guidelines cannot always be followed, which usually results in higher numbers of fish entrapment. Removal of fish from these areas has a greater fish stress risk due to handling. Procedures are continually analyzed to determine the best method for preventing fish stress or loss. Fish are removed from scroll case and draft tubes by fish bags. If numbers of fish are higher than two bags, transport tanks are placed in the draft tube gallery for transport by crane. Fish are released to tailwater either with bag and rope or tank and crane.

***Turbine Dewaterings***

Fish unit 1 scroll case, draft tube (Jan 5) – No fish found
Main turbine unit 17 (May 22) – Routine maintenance. No fish in scroll case or draft tube.
Main turbine unit 18 (Jun 1) – One perch in scroll released to river. Five sturgeon and 4 catfish in draft tube released to river.
Main turbine unit 21 (Sep 13) – Routine maintenance. No fish in scroll case. One hundred twenty sturgeon (largest 5') and 40 catfish in draft tube released to river.
Main turbine unit 18 (Oct 17) – Routine maintenance. No fish in scroll case. One sturgeon and 2 catfish in draft tube released to river.

Main turbine unit 5 (Nov 13) – One sturgeon in scroll case and one catfish in draft tube released to river.

***NAVLOCK DEWATERINGS***

Fill Valve emergency dewatering – Three sturgeon and 1 carp removed and released to river.

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**FISHWAY INSPECTION COMPARISON**

Two adult fishway inspections are conducted per day during the adult fish passage season (March 1 to November 31). One adult fishway inspection is conducted per day during the non-passage season. Items shown in *italics* are inspected once per day. All other items are inspected during every fishway inspection. Guidelines are provided by the COE Fish Passage Plan. Weekly fishway status reports are provided throughout the year. Increased or continual problem areas indicated in red. Values are rounded to the nearest whole percent.

| Criteria Item | 2007 | 2006 | 2005 | 2004 |
|---|---|---|---|---|
| East Fishway | | | | |
| Exit differential | 0 | 0 | 0 | 0 |
| Weir 158 | 1 | 1 | 2 | 3 |
| Weirs 154 – 157 | 2 | 5 | 9 | 2 |
| *Count station differential* | 0 | 1 | 1 | 2 |
| *Weir crest depth* | 1 | 1 | 1 | 7 |
| *JP2 junction pool* | pulled | pulled | 1 | 1 |
| *JP4 junction pool* | pulled | pulled | 0 | 1 |
| *JP6 junction pool* | 0 | 3 | 5 | **21** |
| East entrance differential | 1 | 2 | 1 | **10** |
| E1 entrance depth | 0 | closed | closed | closed |
| E2 entrance depth | 0 | 0 | 2 | **19** |
| E3 entrance depth | 0 | 0 | 1 | 2 |
| *Collection channel velocity* | 2 | **12** | **42** | **32** |
| West entrance differential | 0 | 1 | 7 | 7 |
| W1 entrance depth | 0 | 2 | 1 | 4 |
| W2 entrance depth | 0 | 1 | 8 | 3 |
| W3 entrance depth | 0 | closed | closed | closed |
| South entrance differential | 2 | 1 | 4 | 9 |
| S1 entrance depth | **19** | 1 | 1 | 7 |
| S2 entrance depth | 3 | 1 | 1 | 7 |
| North Fishway | | | | |
| Exit differential | 0 | 0 | 0 | 0 |
| *Count station differential* | 0 | 0 | 1 | 0 |
| *Weir crest depth* | 2 | 3 | 1 | 0 |
| North entrance differential | 5 | 0 | 1 | 1 |
| N1 entrance depth | 0 | 0 | 1 | 2 |

| | | | | |
|---|---|---|---|---|
| N2 entrance depth | closed | closed | closed | closed |
| *PUD intake differential* | 0 | 2 | 1 | 1 |
| *Ice/Trash Sluice gate operation* | 0 | 0 | 2 | 0 |
| *Spill pattern* | 0 | 0 | 0 | 0 |
| Turbine operation priority | 0 | 0 | 0 | 0 |
| *Turbine 1% operation* | 0 | 0 | 2 | 0 |

**Discussion**
Collection channel velocity was similar to previous years. The velocity meter at bay 20 was abandoned due to accuracy problems. Surface measurements of the entire channel were taken with timed float. Overall collection channel velocity was within criteria, with the exception of bay 20-21 which continued to be slow area.

S1 entrance weir was out of service for most of spring due to mechanical problems. A bulkhead was installed and the adjacent entrance S2 was operated at approx 15' depth to maintain criteria differential. S1 was reinstalled after repair. Another weir is being constructed that will provide a spare for south and north spillway entrances.

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**WATER QUALITY**
Temperature was read from station service penstock at The Dalles. Water clarity was read by secchi dish at count stations. This data was provided in '07 per regional request to maintain historical data base. Temperature monitoring by temperature data loggers in each fishway was provided biweekly in the fishway status reports for more representative water temperatures. The data loggers have been proven more accurate and pertinent to fish passage concerns.

## TABLE 25

### MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER THE DALLES DAM

### 2007

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | 1 | 51 | 19,338 | 46,147 | 34,405 | 19,510 | 21,415 | 93,517 | 17,883 | 1,326 | 20 | 253,613 |
| STEELHEAD | | 195 | 1,948 | 1,033 | 255 | 2,155 | 25,008 | 66,310 | 121,058 | 26,079 | 2,776 | 143 | 246,960 |
| SOCKEYE | | | | | 10 | 13,475 | 5,540 | 99 | | | | | 19,124 |
| COHO* | | | | | | | | 596 | 17,545 | 14,608 | 198 | 14 | 32,961 |
| CHUM | | | | | | | | | | 4 | 5 | 2 | 11 |
| PINK | | | | | | | | | 1 | | | | 1 |
| TOTAL | | 196 | 1,999 | 20,371 | 46,412 | 50,035 | 50,058 | 88,420 | 232,121 | 58,574 | 4,305 | 179 | 552,670 |
| SHAD | | | | 8 | 887,302 | 2,538,574 | 164,262 | 1,842 | | | | | 3,591,988 |
| LAMPREY | | | | 1 | 1 | 319 | 4,468 | 1,062 | 227 | 7 | | | 6,085 |
| STURGEON | | | | | 5 | 10 | 22 | 18 | 13 | | | | 68 |
| BULL TROUT | | | | | | | | | | | | | 0 |

*Jacks included
Counting occurred Feb 20 through Dec 4 from 0400-2000 PST. Visual counts occurred Apr 1 - Oct 31.
Video counting occurred during all other times.
Shad are not counted after August 31.

TABLE 26

**DISCHARGE AND WATER QUALITY DATA**

**THE DALLES PROJECT 2007**

**JANUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *DEG F |
|---|---|---|---|---|
| Jan 1 | 118.5 | 0.0 | | |
| Jan 2 | 116.9 | 0.0 | | |
| Jan 3 | 121.0 | 0.0 | | |
| Jan 4 | 146.5 | 0.0 | | |
| Jan 5 | 167.6 | 0.0 | | |
| Jan 6 | 146.9 | 0.0 | | |
| Jan 7 | 160.6 | 0.0 | | |
| Jan 8 | 146.3 | 0.0 | | |
| Jan 9 | 132.0 | 0.0 | | |
| Jan 10 | 161.6 | 0.0 | | |
| Jan 11 | 153.6 | 0.0 | | |
| Jan 12 | 196.2 | 0.0 | | |
| Jan 13 | 173.7 | 0.0 | | |
| Jan 14 | 185.7 | 0.0 | | |
| Jan 15 | 198.7 | 0.0 | | |
| Jan 16 | 188.5 | 0.0 | | |
| Jan 17 | 169.9 | 0.0 | | |
| Jan 18 | 197.3 | 0.0 | | |
| Jan 19 | 170.4 | 0.0 | | |
| Jan 20 | 162.7 | 0.0 | | |
| Jan 21 | 146.2 | 0.0 | | |
| Jan 22 | 174.6 | 0.0 | | |
| Jan 23 | 162.2 | 0.0 | | |
| Jan 24 | 172.2 | 0.0 | | |
| Jan 25 | 175.9 | 0.0 | | |
| Jan 26 | 177.5 | 0.0 | | |
| Jan 27 | 173.3 | 0.0 | | |
| Jan 28 | 141.0 | 0.0 | | |
| Jan 29 | 182.2 | 0.0 | | |
| Jan 30 | 145.3 | 0.0 | | |
| Jan 31 | 159.3 | 0.0 | | |
| AVG. | 162.1 | 0.0 | | |

*Data Unavailable

TABLE 27

**MONTHLY FISH PASSAGE SUMMARY REPORT** **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **FEBRUARY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | * DEG F |
| Feb 1 | | | | | | | | | | | | | 165.5 | 0.0 | | |
| Feb 2 | | | | | | | | | | | | | 147.3 | 0.0 | | |
| Feb 3 | | | | | | | | | | | | | 153.6 | 0.0 | | |
| Feb 4 | | | | | | | | | | | | | 116.9 | 0.0 | | |
| Feb 5 | | | | | | | | | | | | | 140.0 | 0.0 | | |
| Feb 6 | | | | | | | | | | | | | 136.7 | 0.0 | | |
| Feb 7 | | | | | | | | | | | | | 135.9 | 0.0 | | |
| Feb 8 | | | | | | | | | | | | | 138.8 | 0.0 | | |
| Feb 9 | | | | | | | | | | | | | 129.9 | 0.0 | | |
| Feb 10 | | | | | | | | | | | | | 155.5 | 0.0 | | |
| Feb 11 | | | | | | | | | | | | | 132.2 | 0.0 | | |
| Feb 12 | | | | | | | | | | | | | 129.1 | 0.0 | | |
| Feb 13 | | | | | | | | | | | | | 137.0 | 0.0 | | |
| Feb 14 | | | | | | | | | | | | | 164.7 | 0.0 | | |
| Feb 15 | | | | | | | | | | | | | 143.5 | 0.0 | | |
| Feb 16 | | | | | | | | | | | | | 137.2 | 0.0 | | |
| Feb 17 | | | | | | | | | | | | | 136.0 | 0.0 | | |
| Feb 18 | | | | | | | | | | | | | 119.9 | 0.0 | | |
| Feb 19 | | | | | | | | | | | | | 144.5 | 0.0 | | |
| Feb 20 | 0 | | | | | | | 5 | 1 | | | | 140.2 | 0.0 | | |
| Feb 21 | 0 | | | | | | | 9 | 2 | | | | 140.4 | 0.0 | | |
| Feb 22 | 0 | | | | | | | 9 | 2 | | | | 116.7 | 0.0 | | |
| Feb 23 | 0 | | | | | | | 12 | 4 | | | | 113.5 | 0.0 | | |
| Feb 24 | 0 | | | | | | | 16 | 4 | | | | 130.2 | 0.0 | | |
| Feb 25 | 0 | | | | | | | 20 | 5 | | | | 120.8 | 0.0 | | |
| Feb 26 | 0 | | | | | | | 14 | 3 | | | | 121.0 | 0.0 | | |
| Feb 27 | 0 | | | | | | | 33 | 11 | | | | 138.4 | 0.0 | | |
| Feb 28 | 1 | | | | | | | 77 | 25 | | | | 118.3 | 0.0 | | |
| TOTAL | 1 | | | | | | | 195 | 57 | | | | | | | |
| AVG. | 0 | | | | | | | 22 | 6 | | | | 135.8 | 0.0 | | |

*Data unavailable.

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST.

TABLE 28

**MONTHLY FISH PASSAGE SUMMARY REPORT** **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 0 | | | | | | | 29 | 11 | | | | 157.7 | 0.0 | * | * |
| Mar 2 | 0 | | | | | | | 31 | 13 | | | | 161.5 | 0.0 | * | * |
| Mar 3 | 1 | | | | | | | 34 | 10 | | | | 155.1 | 0.0 | * | * |
| Mar 4 | 0 | | | | | | | 38 | 11 | | | | 127.4 | 0.0 | * | * |
| Mar 5 | 1 | | | | | | | 26 | 6 | | | | 125.0 | 0.0 | * | * |
| Mar 6 | 0 | | | | | | | 31 | 10 | | | | 135.0 | 0.0 | * | * |
| Mar 7 | 0 | | | | | | | 28 | 7 | | | | 132.6 | 0.0 | * | * |
| Mar 8 | 0 | | | | | | | 32 | 7 | | | | 149.2 | 0.0 | * | * |
| Mar 9 | 2 | | | | | | | 51 | 15 | | | | 163.2 | 0.0 | * | * |
| Mar 10 | 1 | | | | | | | 32 | 7 | | | | 145.2 | 0.0 | * | * |
| Mar 11 | 0 | | | | | | | 35 | 7 | | | | 116.7 | 0.0 | * | * |
| Mar 12 | 3 | | | | | | | 56 | 14 | | | | 136.7 | 0.0 | * | * |
| Mar 13 | 1 | | | | | | | 57 | 24 | | | | 163.4 | 0.0 | * | * |
| Mar 14 | 1 | | | | | | | 46 | 23 | | | | 195.6 | 2.1 | * | * |
| Mar 15 | 0 | | | | | | | 42 | 19 | | | | 210.5 | 0.0 | * | * |
| Mar 16 | 0 | | | | | | | 30 | 10 | | | | 209.5 | 0.0 | * | * |
| Mar 17 | 1 | | | | | | | 45 | 20 | | | | 202.0 | 0.0 | * | * |
| Mar 18 | 2 | | | | | | | 44 | 9 | | | | 179.9 | 0.0 | 5.5 | 42.0 |
| Mar 19 | 2 | | | | | | | 51 | 27 | | | | 200.2 | 0.8 | 4.5 | 45.0 |
| Mar 20 | 1 | | | | | | | 40 | 20 | | | | 218.9 | 0.0 | 4.0 | 45.0 |
| Mar 21 | 2 | | | | | | | 44 | 20 | | | | 256.1 | 0.0 | 4.5 | 45.0 |
| Mar 22 | -1 | | | | | | | 44 | 20 | | | | 248.2 | 0.0 | 4.0 | 44.0 |
| Mar 23 | 1 | | | | | | | 53 | 22 | | | | 191.1 | 0.0 | 3.0 | 45.0 |
| Mar 24 | 2 | | | | | | | 61 | 26 | | | | 238.2 | 0.0 | 3.0 | 45.0 |
| Mar 25 | 4 | | | | | | | 55 | 23 | | | | 227.5 | 0.0 | 3.0 | 45.0 |
| Mar 26 | 1 | | | | | | | 77 | 29 | | | | 265.3 | 4.1 | 3.0 | 46.0 |
| Mar 27 | 3 | | | | | | | 127 | 42 | | | | 214.9 | 18.3 | 3.5 | 46.0 |
| Mar 28 | 3 | | | | | | | 127 | 30 | | | | 219.7 | 15.6 | 4.0 | 45.0 |
| Mar 29 | 2 | | | | | | | 169 | 33 | | | | 255.3 | 20.7 | 4.0 | 45.0 |
| Mar 30 | 13 | | | | | | | 230 | 70 | | | | 268.9 | 7.2 | 4.0 | 45.0 |
| Mar 31 | 5 | | | | | | | 183 | 44 | | | | 276.2 | 3.3 | 5.5 | 45.0 |
| TOTAL | 51 | | | | | | | 1,948 | 629 | | | | | | | |
| AVG. | 2 | | | | | | | 63 | 20 | | | | 191.8 | 2.3 | 4.0 | 44.9 |

*Data unavailable

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.
Video disruption occurred resulting in a loss of 7 hours at the north ladder.
Official Spring Chinook run started April 1. February and March Chinook counts were not added to spring totals.

TABLE 29

**MONTHLY FISH PASSAGE SUMMARY REPORT** **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 3 | | | 0 | | | | 184 | 69 | 0 | 0 | | 269.0 | 25.5 | 4.5 | 45.0 |
| Apr 2 | 1 | | | 0 | | | | 108 | 33 | 0 | 0 | | 231.3 | 0.0 | 4.0 | 46.0 |
| Apr 3 | 0 | | | 0 | | | | 178 | 65 | 0 | 0 | | 265.8 | 17.2 | * | * |
| Apr 4 | 4 | | | 0 | | | | 69 | 17 | 0 | 0 | | 234.8 | 8.5 | * | * |
| Apr 5 | 2 | | | 0 | | | | 69 | 22 | 0 | 0 | | 243.7 | 0.0 | * | * |
| Apr 6 | 1 | | | 0 | | | | 37 | 9 | 0 | 0 | | 230.6 | 0.0 | 3.5 | 46.0 |
| Apr 7 | 2 | | | 0 | | | | 28 | 16 | 0 | 0 | | 209.3 | 0.0 | 3.5 | 46.9 |
| Apr 8 | 8 | | | 0 | | | | 37 | 12 | 0 | 0 | | 197.3 | 0.0 | 4.0 | 46.9 |
| Apr 9 | 16 | | | 1 | | | | 40 | 19 | 0 | 0 | | 192.8 | 0.0 | 4.0 | 46.0 |
| Apr 10 | 18 | | | 0 | | | | 22 | 8 | 0 | 0 | | 207.3 | 82.0 | 4.5 | 46.9 |
| Apr 11 | 10 | | | 1 | | | | 25 | 7 | 0 | 0 | | 227.6 | 90.9 | 4.0 | 46.9 |
| Apr 12 | 44 | | | 2 | | | | 21 | 5 | 0 | 0 | | 185.0 | 74.2 | 4.0 | 46.9 |
| Apr 13 | 81 | | | 2 | | | | 13 | 6 | 0 | 0 | | 245.1 | 98.1 | 4.0 | 46.9 |
| Apr 14 | 111 | | | 1 | | | | 22 | 10 | 0 | 0 | | 207.7 | 83.3 | 4.0 | 46.9 |
| Apr 15 | 288 | | | 2 | | | | 20 | 10 | 0 | 0 | | 230.4 | 94.5 | 4.0 | 48.0 |
| Apr 16 | 256 | | | 2 | | | | 27 | 13 | 0 | 0 | | 210.2 | 84.1 | 4.0 | 48.0 |
| Apr 17 | 190 | | | 2 | | | | 10 | 5 | 0 | 0 | | 226.2 | 90.8 | 4.5 | 48.0 |
| Apr 18 | 547 | | | 0 | | | | 18 | 8 | 0 | 0 | | 208.7 | 83.6 | 4.5 | 48.9 |
| Apr 19 | 714 | | | 3 | | | | 14 | 3 | 0 | 0 | | 211.8 | 83.8 | 4.5 | 48.9 |
| Apr 20 | 1,136 | | | 8 | | | | 18 | 11 | 0 | 0 | | 214.6 | 86.3 | 5.0 | 48.9 |
| Apr 21 | 1,574 | | | 13 | | | | 11 | 6 | 0 | 0 | | 213.4 | 85.8 | 4.0 | 50.0 |
| Apr 22 | 1,066 | | | 19 | | | | 7 | 2 | 0 | 0 | | 214.9 | 85.9 | 4.5 | 52.0 |
| Apr 23 | 721 | | | 13 | | | | 5 | 4 | 0 | 0 | | 216.4 | 86.3 | 5.0 | 52.0 |
| Apr 24 | 884 | | | 13 | | | | 3 | 2 | 0 | 0 | | 193.7 | 77.2 | 5.0 | 51.1 |
| Apr 25 | 1,430 | | | 40 | | | | 11 | 10 | 0 | 1 | | 207.0 | 81.9 | 5.0 | 51.1 |
| Apr 26 | 1,303 | | | 34 | | | | 5 | 4 | 1 | 0 | | 216.7 | 86.8 | 5.0 | 50.0 |
| Apr 27 | 2,125 | | | 84 | | | | 12 | 2 | 0 | 0 | | 226.3 | 90.6 | 5.0 | 50.0 |
| Apr 28 | 2,078 | | | 119 | | | | 9 | 4 | 1 | 0 | | 216.8 | 86.2 | 5.0 | 50.0 |
| Apr 29 | 2,066 | | | 120 | | | | 8 | 1 | 5 | 0 | | 225.4 | 90.4 | 5.0 | 53.1 |
| Apr 30 | 2,040 | | | 140 | | | | 2 | 1 | 1 | 0 | | 223.1 | 89.6 | 5.0 | 52.0 |
| TOTAL | 18,719 | | | 619 | | | | 1,033 | 384 | 8 | 1 | | | | | |
| AVG. | 624 | | | 21 | | | | 34 | 13 | 0 | 0 | | 220.1 | 62.1 | 4.4 | 48.7 |

*Data unavailable

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

TABLE 30

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 2,662 | | | 266 | | | 0 | 10 | 4 | 0 | 0 | 0 | 247.6 | 98.9 | 5.0 | 51.0 |
| May 2 | 1,859 | | | 269 | | | 0 | 2 | 1 | 2 | 0 | 0 | 255.1 | 101.3 | 5.0 | 52.0 |
| May 3 | 1,553 | | | 263 | | | 0 | 7 | 5 | 0 | 0 | 0 | 262.9 | 104.4 | 4.5 | 51.0 |
| May 4 | 1,913 | | | 342 | | | 0 | 4 | 0 | 1 | 0 | 0 | 274.7 | 108.6 | 5.0 | 51.0 |
| May 5 | 1,302 | | | 385 | | | 0 | 9 | 4 | 1 | 0 | 0 | 273.2 | 109.1 | 5.0 | 51.0 |
| May 6 | 1,181 | | | 434 | | | 0 | 2 | 2 | 4 | 0 | 0 | 269.9 | 108.2 | 3.0 | 54.0 |
| May 7 | 1,127 | | | 468 | | | 0 | 7 | 1 | 1 | 0 | 0 | 235.1 | 93.8 | 5.0 | 53.0 |
| May 8 | 1,059 | | | 353 | | | 0 | 2 | 0 | 4 | 0 | 0 | 247.1 | 95.6 | 4.0 | 54.0 |
| May 9 | 1,723 | | | 936 | | | 0 | 6 | 0 | 18 | 0 | 0 | 273.0 | 108.2 | 4.5 | 53.0 |
| May 10 | 2,769 | | | 1,290 | | | 0 | 6 | 1 | 49 | 0 | 0 | 267.3 | 106.0 | 5.0 | 54.0 |
| May 11 | 1,564 | | | 790 | | | 0 | 7 | -1 | 350 | 0 | 0 | 270.2 | 107.9 | 5.0 | 54.0 |
| May 12 | 946 | | | 611 | | | 0 | 7 | 0 | 175 | 0 | 0 | 263.9 | 105.2 | 4.0 | 54.0 |
| May 13 | 952 | | | 775 | | | 0 | 6 | 1 | 259 | 0 | 0 | 245.8 | 98.5 | 5.0 | 54.0 |
| May 14 | 635 | | | 540 | | | 0 | 7 | 2 | 126 | 0 | 0 | 283.2 | 113.5 | 4.0 | 55.0 |
| May 15 | 543 | | | 455 | | | 0 | 9 | 1 | 498 | 0 | 0 | 269.4 | 107.2 | 4.0 | 55.0 |
| May 16 | 786 | | | 814 | | | 0 | 11 | 0 | 677 | 0 | 0 | 251.4 | 100.4 | 4.0 | 55.0 |
| May 17 | 789 | | | 794 | | | 0 | 12 | 0 | 2,950 | 0 | 0 | 252.1 | 101.1 | 4.0 | 56.0 |
| May 18 | 689 | | | 445 | | | 0 | 16 | 2 | 2,231 | 0 | 0 | 253.9 | 101.6 | 3.0 | 57.0 |
| May 19 | 998 | | | 479 | | | 0 | 5 | 0 | 2,718 | 0 | 0 | 254.8 | 102.4 | 3.5 | 57.0 |
| May 20 | 726 | | | 432 | | | 0 | 2 | 0 | 3,719 | 0 | 0 | 259.1 | 102.9 | 5.0 | 56.0 |
| May 21 | 842 | | | 338 | | | 0 | 5 | 0 | 5,243 | 0 | 1 | 255.6 | 100.5 | 4.5 | 56.0 |
| May 22 | 520 | | | 294 | | | 0 | 6 | 0 | 62,099 | 0 | 0 | 254.3 | 101.6 | 4.5 | 56.0 |
| May 23 | 459 | | | 265 | | | 0 | 5 | -1 | 96,766 | 0 | 1 | 258.1 | 103.9 | 4.0 | 56.0 |
| May 24 | 521 | | | 286 | | | 0 | 10 | 2 | 67,985 | 0 | 1 | 245.6 | 97.6 | 4.5 | 56.0 |
| May 25 | 529 | | | 262 | | | 0 | 9 | 1 | 73,382 | 0 | 0 | 252.0 | 101.0 | 5.0 | 57.0 |
| May 26 | 557 | | | 324 | | | 0 | 7 | 4 | 114,782 | 0 | 0 | 239.3 | 96.3 | 5.0 | 57.0 |
| May 27 | 556 | | | 304 | | | 0 | 15 | 1 | 82,891 | 0 | 1 | 206.7 | 82.4 | 5.0 | 58.0 |
| May 28 | 542 | | | 259 | | | 1 | 24 | 4 | 52,475 | 0 | 0 | 256.3 | 102.0 | 5.0 | 57.0 |
| May 29 | 514 | | | 148 | | | 0 | 8 | 1 | 67,072 | 0 | 0 | 233.6 | 93.6 | 6.0 | 58.0 |
| May 30 | 659 | | | 307 | | | 2 | 20 | 1 | 125,671 | 0 | 0 | 225.7 | 89.4 | 5.5 | 58.0 |
| May 31 | 580 | | | 164 | | | 7 | 9 | 1 | 125,153 | 1 | 1 | 232.1 | 91.7 | 5.0 | 59.0 |
| TOTAL | 32,055 | | | 14,092 | | | 10 | 255 | 37 | 887,302 | 1 | 5 | | | | |
| AVG. | 1,034 | | | 455 | | | 0 | 8 | 1 | 28,623 | 0 | 0 | 253.8 | 101.1 | 4.6 | 55.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|
| SPRING | 50,774 | 14,711 | 10 | 1,288 | 421 | 887,310 | 2 | 5 |

TABLE 31

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 680 | | | 228 | | | 16 | 29 | 1 | 134,023 | 2 | 0 | 221.6 | 82.8 | 5.0 | 59.0 |
| Jun 2 | 486 | | | 185 | | | 25 | 16 | 2 | 165,704 | 1 | 0 | 204.9 | 81.2 | 5.0 | 60.0 |
| Jun 3 | 855 | | | 282 | | | 23 | 13 | 6 | 153,187 | 2 | 0 | 222.0 | 85.8 | 4.0 | 60.0 |
| Jun 4 | | 729 | | 161 | | | 32 | 20 | 5 | 121,651 | 4 | 0 | 226.0 | 84.1 | 5.0 | 61.0 |
| Jun 5 | | 723 | | 208 | | | 21 | 22 | 1 | 114,222 | 12 | 0 | 208.1 | 82.9 | 4.5 | 60.0 |
| Jun 6 | | 490 | | 140 | | | 41 | 20 | 2 | 60,922 | 7 | 0 | 243.9 | 97.5 | 5.5 | 60.0 |
| Jun 7 | | 1,058 | | 243 | | | 46 | 25 | 1 | 62,244 | 7 | 0 | 210.4 | 84.6 | 5.5 | 60.0 |
| Jun 8 | | 1,017 | | 220 | | | 62 | 20 | 1 | 65,998 | 1 | 0 | 252.5 | 100.4 | 5.0 | 61.0 |
| Jun 9 | | 1,162 | | 196 | | | 77 | 28 | 5 | 80,059 | 3 | 0 | 277.0 | 106.9 | 5.5 | 61.0 |
| Jun 10 | | 850 | | 211 | | | 169 | 30 | 6 | 47,016 | 22 | 3 | 222.3 | 89.8 | 6.0 | 60.0 |
| Jun 11 | | 597 | | 102 | | | 106 | 12 | 2 | 89,750 | 9 | 0 | 252.1 | 99.7 | 5.0 | 60.0 |
| Jun 12 | | 792 | | 270 | | | 240 | 49 | 5 | 106,949 | 2 | 1 | 230.1 | 92.0 | 4.0 | 60.0 |
| Jun 13 | | 1,109 | | 355 | | | 307 | 43 | 7 | 153,907 | 12 | 1 | 239.0 | 95.7 | 4.5 | 61.0 |
| Jun 14 | | 1,064 | | 230 | | | 414 | 62 | 4 | 101,106 | 10 | 0 | 235.4 | 94.2 | 4.0 | 60.0 |
| Jun 15 | | 858 | | 281 | | | 238 | 81 | 12 | 57,002 | 6 | 1 | 230.7 | 92.2 | 3.0 | 61.0 |
| Jun 16 | | 1,153 | | 274 | | | 619 | 98 | 11 | 148,758 | 9 | 0 | 201.4 | 80.8 | 3.0 | 61.0 |
| Jun 17 | | 1,187 | | 318 | | | 543 | 74 | 17 | 93,648 | 26 | 0 | 177.7 | 71.2 | 4.5 | 60.0 |
| Jun 18 | | 587 | | 336 | | | 355 | 48 | 16 | 49,786 | 6 | 1 | 223.2 | 89.2 | 4.5 | 61.0 |
| Jun 19 | | 687 | | 210 | | | 471 | 24 | 6 | 79,928 | 15 | 0 | 219.1 | 87.0 | 5.0 | 62.0 |
| Jun 20 | | 714 | | 253 | | | 815 | 102 | 11 | 70,291 | 12 | 0 | 185.8 | 74.6 | 4.5 | 61.0 |
| Jun 21 | | 911 | | 263 | | | 975 | 74 | 8 | 80,706 | 27 | 1 | 169.1 | 67.1 | 5.0 | 61.0 |
| Jun 22 | | 1,176 | | 373 | | | 1,213 | 116 | 21 | 126,210 | 15 | 1 | 194.1 | 77.3 | 5.0 | 61.0 |
| Jun 23 | | 1,297 | | 207 | | | 924 | 75 | 13 | 96,723 | 11 | 0 | 191.5 | 76.5 | 4.0 | 60.0 |
| Jun 24 | | 1,205 | | 282 | | | 1,257 | 139 | 16 | 57,401 | 11 | 0 | 162.0 | 65.4 | 4.0 | 61.0 |
| Jun 25 | | 1,102 | | 192 | | | 905 | 73 | 24 | 59,739 | 6 | 0 | 187.3 | 74.7 | 5.0 | 62.0 |
| Jun 26 | | 1,349 | | 362 | | | 868 | 165 | 40 | 65,311 | 21 | 0 | 187.6 | 75.0 | 5.0 | 63.0 |
| Jun 27 | | 727 | | 288 | | | 731 | 132 | 33 | 26,690 | 16 | 0 | 163.7 | 65.7 | 4.5 | 63.0 |
| Jun 28 | | 704 | | 247 | | | 647 | 161 | 43 | 23,504 | 23 | 1 | 160.9 | 64.5 | 4.5 | 64.0 |
| Jun 29 | | 892 | | 250 | | | 756 | 196 | 46 | 20,437 | 13 | 0 | 163.0 | 65.3 | 3.0 | 64.0 |
| Jun 30 | | 913 | | 164 | | | 579 | 208 | 82 | 25,702 | 8 | 0 | 176.3 | 71.3 | 3.0 | 64.0 |
| TOTAL | 2,021 | 25,053 | | 7,331 | | | 13,475 | 2,155 | 447 | 2,538,574 | 319 | 10 | | | | |
| AVG. | 674 | 928 | | 244 | | | 449 | 72 | 15 | 84,619 | 11 | 0 | 208.0 | 82.5 | 4.5 | 61.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 25,053 | 6,636 |
| TOTAL | 77,848 | 22,042 |

| SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|
| 13,485 | 3,443 | 868 | 3,425,884 | 321 | 15 |

TABLE 32

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 920 | | 270 | | | 882 | 359 | 87 | 22,758 | 5 | 1 | 143.1 | 57.5 | 4.5 | 65.0 |
| Jul 2 | | 600 | | 168 | | | 645 | 331 | 128 | 35,670 | 22 | 0 | 131.1 | 52.4 | 5.0 | 64.0 |
| Jul 3 | | 806 | | 207 | | | 547 | 453 | 129 | 15,680 | 1 | 2 | 171.2 | 68.4 | 5.0 | 65.0 |
| Jul 4 | | 620 | | 144 | | | 403 | 293 | 105 | 21,126 | 29 | 0 | 144.3 | 57.8 | 4.5 | 66.0 |
| Jul 5 | | 699 | | 221 | | | 417 | 404 | 148 | 12,619 | 47 | 0 | 161.9 | 65.2 | 5.0 | 65.0 |
| Jul 6 | | 646 | | 391 | | | 370 | 537 | 171 | 11,738 | 56 | 0 | 176.3 | 70.3 | 3.5 | 64.0 |
| Jul 7 | | 840 | | 287 | | | 326 | 579 | 206 | 8,439 | 67 | 0 | 145.4 | 58.3 | 3.5 | 65.0 |
| Jul 8 | | 706 | | 224 | | | 205 | 544 | 207 | 5,812 | 82 | 0 | 154.2 | 61.8 | 5.0 | 67.0 |
| Jul 9 | | 570 | | 192 | | | 228 | 621 | 197 | 6,051 | 106 | 0 | 174.1 | 69.8 | 5.0 | 67.0 |
| Jul 10 | | 425 | | 111 | | | 195 | 466 | 203 | 3,503 | 209 | 0 | 165.5 | 66.1 | 5.5 | 69.0 |
| Jul 11 | | 538 | | 147 | | | 219 | 797 | 370 | 2,668 | 274 | 3 | 172.4 | 68.6 | 5.0 | 67.0 |
| Jul 12 | | 510 | | 90 | | | 144 | 524 | 209 | 2,140 | 353 | 2 | 174.4 | 69.8 | 5.5 | 69.0 |
| Jul 13 | | 496 | | 153 | | | 109 | 839 | 353 | 2,634 | 318 | 0 | 199.7 | 80.2 | 3.0 | 69.0 |
| Jul 14 | | 443 | | 163 | | | 127 | 751 | 348 | 1,861 | 451 | 0 | 201.1 | 80.9 | 3.5 | 70.0 |
| Jul 15 | | 491 | | 145 | | | 126 | 1,047 | 419 | 2,382 | 266 | 0 | 183.9 | 73.8 | 4.0 | 70.0 |
| Jul 16 | | 286 | | 111 | | | 82 | 557 | 211 | 1,986 | 215 | 0 | 200.3 | 80.2 | 4.0 | 70.0 |
| Jul 17 | | 551 | | 184 | | | 106 | 1,164 | 560 | 1,420 | 420 | 3 | 158.5 | 63.1 | 4.0 | 69.0 |
| Jul 18 | | 421 | | 108 | | | 58 | 860 | 394 | 1,152 | 298 | 3 | 158.4 | 62.8 | 5.0 | 70.0 |
| Jul 19 | | 352 | | 133 | | | 75 | 695 | 321 | 783 | 233 | 1 | 162.7 | 64.8 | 4.0 | 70.0 |
| Jul 20 | | 533 | | 150 | | | 60 | 1,007 | 402 | 735 | 138 | 0 | 152.7 | 61.0 | 4.0 | 70.0 |
| Jul 21 | | 378 | | 86 | | | 50 | 764 | 319 | 764 | 109 | 1 | 154.8 | 62.2 | 3.5 | 71.0 |
| Jul 22 | | 360 | | 94 | | | 31 | 938 | 389 | 260 | 85 | 0 | 166.4 | 66.7 | 4.0 | 71.0 |
| Jul 23 | | 350 | | 79 | | | 21 | 1,199 | 468 | 295 | 85 | 1 | 154.9 | 62.1 | 4.5 | 71.0 |
| Jul 24 | | 386 | | 107 | | | 20 | 1,280 | 523 | 281 | 51 | 1 | 157.3 | 62.5 | 5.0 | 70.0 |
| Jul 25 | | 293 | | 90 | | | 14 | 842 | 333 | 179 | 51 | 0 | 151.5 | 60.0 | 5.0 | 71.0 |
| Jul 26 | | 350 | | 100 | | | 16 | 1,318 | 574 | 450 | 79 | 0 | 161.1 | 64.6 | 5.0 | 71.0 |
| Jul 27 | | 338 | | 79 | | | 21 | 1,208 | 466 | 198 | 96 | 1 | 171.3 | 68.5 | 4.0 | 72.0 |
| Jul 28 | | 264 | | 123 | | | 15 | 1,365 | 540 | 234 | 48 | 1 | 153.7 | 61.2 | 4.0 | 72.0 |
| Jul 29 | | 265 | | 87 | | | 10 | 1,376 | 535 | 167 | 108 | 0 | 135.3 | 54.1 | 4.5 | 71.0 |
| Jul 30 | | 248 | | 82 | | | 12 | 978 | 345 | 180 | 92 | 2 | 165.0 | 65.8 | 4.5 | 71.0 |
| Jul 31 | | 243 | | 56 | | | 6 | 912 | 336 | 97 | 74 | 0 | 150.3 | 59.8 | 4.5 | 72.0 |
| TOTAL | | 14,928 | | 4,582 | | | 5,540 | 25,008 | 9,996 | 164,262 | 4,468 | 22 | | | | |
| AVG | | 482 | | 148 | | | 179 | 807 | 322 | 5,299 | 144 | 1 | 163.0 | 65.2 | 4.4 | 68.8 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 39,981 | 11,218 |
| TOTAL | 92,776 | 26,624 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 19,025 | 28,451 | 10,864 | 3,590,146 | 4,789 | 37 |

TABLE 33

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 197 | | 49 | 0 | 0 | 8 | 1,205 | 464 | 126 | 44 | 4 | 169.6 | 67.7 | 5.0 | 71.0 |
| Aug 2 | | 207 | | 54 | 0 | 0 | 2 | 835 | 259 | 58 | 57 | 1 | 182.1 | 73.0 | 5.0 | 72.0 |
| Aug 3 | | 268 | | 88 | 0 | 0 | 11 | 1,290 | 531 | 128 | 65 | 0 | 137.9 | 55.1 | 3.5 | 71.0 |
| Aug 4 | | | 199 | 70 | 2 | 0 | 4 | 1,237 | 441 | 54 | 40 | 0 | 136.6 | 54.4 | 3.0 | 71.0 |
| Aug 5 | | | 228 | 59 | 0 | 0 | 2 | 1,873 | 681 | 157 | 82 | 1 | 129.5 | 52.1 | 4.5 | 71.0 |
| Aug 6 | | | 185 | 179 | 0 | 0 | 29 | 1,115 | 375 | 127 | 48 | 0 | 123.6 | 49.7 | 5.0 | 71.0 |
| Aug 7 | | | 152 | 49 | 0 | 0 | 8 | 1,726 | 600 | 134 | 62 | 1 | 129.7 | 52.2 | 4.5 | 70.0 |
| Aug 8 | | | 163 | 118 | 0 | 0 | 6 | 1,203 | 357 | 64 | 54 | 0 | 145.6 | 57.9 | 4.5 | 72.0 |
| Aug 9 | | | 237 | 45 | 0 | 0 | 6 | 1,690 | 538 | 57 | 88 | 1 | 144.3 | 57.8 | 5.0 | 72.0 |
| Aug 10 | | | 235 | 59 | 0 | 0 | 17 | 1,378 | 384 | 69 | 33 | 1 | 154.8 | 61.8 | 5.0 | 71.0 |
| Aug 11 | | | 388 | 53 | 4 | 0 | 2 | 1,751 | 487 | 58 | 23 | 0 | 138.4 | 55.5 | 4.5 | 70.0 |
| Aug 12 | | | 313 | 49 | 0 | 0 | 1 | 2,153 | 665 | 30 | 8 | 0 | 129.5 | 51.6 | 5.0 | 70.0 |
| Aug 13 | | | 261 | 39 | 0 | -1 | 1 | 1,855 | 539 | 24 | 31 | 2 | 149.5 | 59.8 | 5.5 | 70.0 |
| Aug 14 | | | 350 | 46 | 0 | 0 | 0 | 1,597 | 416 | 57 | 27 | 0 | 151.5 | 60.8 | 5.0 | 71.0 |
| Aug 15 | | | 436 | 84 | 0 | 0 | 1 | 1,815 | 482 | 158 | 36 | 0 | 147.6 | 59.1 | 4.5 | 70.0 |
| Aug 16 | | | 472 | 61 | 0 | 0 | 0 | 2,496 | 674 | 84 | 27 | 1 | 150.4 | 60.3 | 5.0 | 71.0 |
| Aug 17 | | | 497 | 55 | 1 | 0 | 0 | 2,945 | 731 | 22 | 29 | 1 | 122.2 | 49.3 | 5.0 | 71.0 |
| Aug 18 | | | 562 | 54 | 5 | 1 | 0 | 2,955 | 789 | 28 | 25 | 0 | 112.9 | 45.3 | 5.0 | 71.0 |
| Aug 19 | | | 539 | 65 | 10 | 0 | 1 | 3,314 | 823 | 23 | 37 | 1 | 108.6 | 43.4 | 6.0 | 71.0 |
| Aug 20 | | | 566 | 81 | 14 | 6 | 0 | 2,651 | 647 | 18 | 19 | 1 | 116.1 | 45.8 | 6.0 | 71.0 |
| Aug 21 | | | 544 | 60 | 6 | 0 | 0 | 2,245 | 507 | 57 | 39 | 0 | 114.2 | 45.7 | 6.0 | 70.0 |
| Aug 22 | | | 729 | 73 | 7 | 2 | 0 | 3,162 | 730 | 83 | 19 | 0 | 140.1 | 55.9 | 6.0 | 70.0 |
| Aug 23 | | | 373 | 69 | 10 | 0 | 0 | 2,384 | 567 | 51 | 34 | 0 | 127.6 | 51.4 | 5.0 | 71.0 |
| Aug 24 | | | 439 | 64 | 20 | 1 | 0 | 2,500 | 545 | 18 | 35 | 1 | 120.2 | 48.7 | 4.0 | 71.0 |
| Aug 25 | | | 961 | 74 | 25 | 8 | 0 | 2,218 | 470 | 32 | 16 | 0 | 101.7 | 41.0 | 4.0 | 71.0 |
| Aug 26 | | | 819 | 106 | 64 | 7 | 0 | 2,638 | 539 | 19 | 16 | -1 | 112.4 | 44.9 | 6.0 | 70.0 |
| Aug 27 | | | 1,332 | 148 | 40 | 13 | 0 | 2,664 | 510 | 8 | 5 | 0 | 112.6 | 45.1 | 6.0 | 70.0 |
| Aug 28 | | | 1,254 | 143 | 72 | 8 | 0 | 3,308 | 752 | 9 | 14 | 0 | 123.8 | 49.7 | 5.0 | 70.0 |
| Aug 29 | | | 1,079 | 177 | 52 | 3 | 0 | 2,698 | 494 | 5 | 27 | 3 | 131.2 | 52.5 | 5.0 | 70.0 |
| Aug 30 | | | 1,414 | 217 | 77 | 1 | 0 | 2,398 | 478 | 49 | 15 | 0 | 136.9 | 54.7 | 6.0 | 70.0 |
| Aug 31 | | | 2,951 | 577 | 128 | 10 | 0 | 3,011 | 559 | 35 | 7 | 0 | 129.5 | 51.9 | 4.0 | 70.0 |
| TOTAL | | 672 | 17,678 | 3,065 | 537 | 59 | 99 | 66,310 | 17,034 | 1,842 | 1,062 | 18 | | | | |
| AVG. | | 224 | 631 | 99 | 17 | 2 | 3 | 2139 | 549 | 59 | 34 | 1 | 133.2 | 53.4 | 5.0 | 70.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 40,653 | 11,409 |
| FALL | 17,678 | 2,874 |
| TOTAL | 111,126 | 29,689 |

| COHO ADULTS | COHO JACKS | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 537 | 59 | 19,124 | 94,761 | 27,898 | 3,591,988 | 5,851 | 55 |

TABLE 34

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | PINK | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 2,788 | 701 | 171 | 13 | | 2,429 | 490 | 0 | 11 | 0 | 115.9 | 0.0 | 6.0 | 70.0 |
| Sep 2 | | | 3,351 | 703 | 170 | 9 | | 2,638 | 570 | 0 | 8 | 0 | 91.5 | 0.0 | 6.0 | 70.0 |
| Sep 3 | | | 1,962 | 625 | 186 | 25 | | 2,000 | 411 | 0 | 2 | 1 | 93.9 | 0.0 | 6.0 | 70.0 |
| Sep 4 | | | 1,830 | 563 | 152 | 15 | | 1,144 | 259 | 0 | 13 | 0 | 92.9 | 0.0 | 6.0 | 71.0 |
| Sep 5 | | | 1,126 | 568 | 115 | 35 | | 859 | 181 | 0 | 15 | 1 | 105.3 | 0.0 | 6.0 | 71.0 |
| Sep 6 | | | 2,185 | 728 | 214 | 17 | | 2,562 | 469 | 0 | 13 | 0 | 108.7 | 0.0 | 6.0 | 70.0 |
| Sep 7 | | | 1,456 | 575 | 269 | 18 | | 2,937 | 534 | 0 | 21 | 0 | 81.4 | 0.0 | 6.0 | 70.0 |
| Sep 8 | | | 2,722 | 1,032 | 525 | 133 | | 6,949 | 1,443 | 0 | 10 | 0 | 77.2 | 0.0 | 6.0 | 70.0 |
| Sep 9 | | | 3,144 | 1,028 | 452 | 21 | | 7,341 | 1,427 | 0 | 14 | 3 | 64.4 | 0.0 | 6.0 | 70.0 |
| Sep 10 | | | 2,944 | 1,100 | 259 | 70 | | 4,060 | 782 | 0 | 18 | 1 | 81.7 | 0.0 | 6.0 | 70.0 |
| Sep 11 | | | 3,068 | 1,047 | 235 | 50 | | 3,372 | 665 | 0 | 12 | 0 | 90.2 | 0.0 | 6.0 | 70.0 |
| Sep 12 | | | 2,483 | 1,001 | 403 | 89 | | 3,931 | 876 | 0 | 14 | 1 | 93.2 | 0.0 | 6.0 | 69.0 |
| Sep 13 | | | 1,302 | 930 | 237 | 64 | | 4,246 | 973 | 0 | 11 | 1 | 85.1 | 0.0 | 6.0 | 70.0 |
| Sep 14 | | | 1,894 | 1,357 | 620 | 52 | | 4,317 | 939 | 0 | 6 | 2 | 88.6 | 0.0 | 5.5 | 70.0 |
| Sep 15 | | | 2,045 | 1,144 | 899 | 192 | | 7,059 | 1,603 | 0 | 9 | 0 | 81.3 | 0.0 | 5.5 | 70.0 |
| Sep 16 | | | 2,711 | 1,267 | 1,062 | 120 | | 7,988 | 1,806 | 0 | 6 | 0 | 67.4 | 0.0 | 5.0 | 67.0 |
| Sep 17 | | | 1,725 | 779 | 602 | 65 | | 4,671 | 1,091 | 0 | 2 | 1 | 79.6 | 0.0 | 5.0 | 67.0 |
| Sep 18 | | | 1,323 | 732 | 566 | 34 | | 4,427 | 977 | 0 | 10 | 0 | 77.8 | 0.0 | 6.0 | 67.0 |
| Sep 19 | | | 1,577 | 713 | 332 | 9 | | 3,694 | 764 | 0 | 8 | 0 | 83.9 | 0.0 | 6.0 | 68.0 |
| Sep 20 | | | 1,830 | 714 | 594 | 81 | | 4,738 | 1,001 | 0 | 2 | 0 | 89.1 | 0.0 | 5.5 | 68.0 |
| Sep 21 | | | 3,203 | 1,335 | 490 | 26 | | 5,424 | 1,034 | 0 | 2 | 1 | 86.9 | 0.0 | 5.0 | 68.0 |
| Sep 22 | | | 3,444 | 2,412 | 959 | 92 | | 5,624 | 1,302 | 0 | 2 | 0 | 72.1 | 0.0 | 5.5 | 68.0 |
| Sep 23 | | | 3,853 | 2,548 | 1,088 | 54 | | 5,559 | 1,108 | 0 | 0 | 1 | 58.3 | 0.0 | 5.0 | 67.0 |
| Sep 24 | | | 2,351 | 1,981 | 1,331 | 188 | | 6,512 | 1,483 | 0 | 2 | 0 | 72.7 | 0.0 | 5.0 | 67.0 |
| Sep 25 | | | 2,182 | 1,333 | 1,857 | 64 | | 5,536 | 1,199 | 0 | 2 | 0 | 82.6 | 0.0 | 6.0 | 65.5 |
| Sep 26 | | | 1,093 | 948 | 446 | 31 | | 2,442 | 546 | 0 | 2 | 0 | 88.9 | 0.0 | 6.0 | 67.0 |
| Sep 27 | | | 1,163 | 805 | 444 | 24 | | 2,432 | 566 | 1 | 5 | 0 | 79.8 | 0.0 | 6.0 | 67.0 |
| Sep 28 | | | 884 | 619 | 270 | 12 | | 1,943 | 368 | 0 | 5 | 0 | 65.0 | 0.0 | 6.0 | 66.0 |
| Sep 29 | | | 1,013 | 708 | 462 | 17 | | 2,769 | 609 | 0 | 1 | 0 | 64.7 | 0.0 | 6.0 | 65.0 |
| Sep 30 | | | 528 | 341 | 502 | 13 | | 1,455 | 332 | 0 | 1 | 0 | 63.1 | 0.0 | 6.0 | 65.0 |
| TOTAL | | | 63,180 | 30,337 | 15,912 | 1,633 | | 121,058 | 25,808 | 1 | 227 | 13 | | | | |
| AVG. | | | 2,106 | 1,011 | 530 | 54 | | 4,035 | 860 | 0 | 8 | 0 | 82.8 | 0.0 | 5.8 | 68.5 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 40,653 | 11,409 |
| FALL | 80,858 | 33,211 |
| TOTAL | 174,306 | 60,026 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON | PINK |
|---|---|---|---|---|---|---|---|---|
| 16,449 | 1,692 | 19,124 | 215,819 | 53,706 | 3,591,988 | 6,078 | 68 | 1 |

TABLE 35

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | CHUM | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 693 | 222 | 301 | 32 | | 1,364 | 309 | 0 | 5 | | 74.9 | 0.0 | 6.0 | 63.0 |
| Oct 2 | | | 814 | 345 | 1,396 | 19 | | 3,275 | 680 | 0 | 0 | | 88.2 | 0.0 | 6.0 | 63.5 |
| Oct 3 | | | 917 | 419 | 2,119 | 43 | | 2,648 | 663 | 0 | 0 | | 80.0 | 0.0 | 6.0 | 63.5 |
| Oct 4 | | | 804 | 336 | 1,966 | 21 | | 1,401 | 328 | 0 | 0 | | 99.9 | 0.0 | 6.0 | 63.0 |
| Oct 5 | | | 533 | 235 | 2,241 | 28 | | 2,030 | 585 | 0 | 1 | | 90.9 | 0.0 | 6.0 | 63.0 |
| Oct 6 | | | 434 | 232 | 652 | 74 | | 1,279 | 293 | 0 | 0 | | 87.9 | 0.0 | 5.5 | 62.0 |
| Oct 7 | | | 468 | 261 | 259 | 23 | | 1,010 | 224 | 0 | 1 | | 64.5 | 0.0 | 5.5 | 62.0 |
| Oct 8 | | | 328 | 168 | 186 | 1 | | 708 | 162 | 0 | 0 | | 81.3 | 0.0 | 6.0 | 62.0 |
| Oct 9 | | | 511 | 252 | 99 | 7 | | 743 | 200 | 0 | 0 | | 98.5 | 0.0 | 6.0 | 62.0 |
| Oct 10 | | | 793 | 410 | 130 | 6 | | 932 | 185 | 0 | 0 | | 95.9 | 0.0 | 6.0 | 61.0 |
| Oct 11 | | | 673 | 338 | 182 | 18 | | 1,017 | 231 | 0 | 0 | | 107.1 | 0.0 | 5.5 | 61.0 |
| Oct 12 | | | 825 | 329 | 169 | 16 | | 866 | 179 | 0 | 0 | | 110.8 | 0.0 | 6.0 | 60.0 |
| Oct 13 | | | 639 | 302 | 144 | 6 | | 852 | 186 | 0 | 0 | | 90.9 | 0.0 | 6.0 | 60.0 |
| Oct 14 | | | 359 | 144 | 115 | 7 | | 645 | 114 | 0 | 0 | | 79.3 | 0.0 | 6.0 | 59.0 |
| Oct 15 | | | 482 | 229 | 135 | 4 | | 596 | 120 | 0 | 0 | | 79.7 | 0.0 | 6.0 | 59.0 |
| Oct 16 | | | 458 | 183 | 126 | 5 | | 605 | 157 | 0 | 0 | | 89.7 | 0.0 | 6.0 | 59.0 |
| Oct 17 | | | 349 | 107 | 117 | 0 | | 482 | 137 | 0 | 0 | | 83.0 | 0.0 | 6.0 | 60.0 |
| Oct 18 | | | 420 | 129 | 295 | 1 | | 476 | 120 | 0 | 0 | | 122.5 | 0.0 | 6.0 | 60.0 |
| Oct 19 | | | 231 | 66 | 703 | 8 | | 366 | 88 | 0 | 0 | | 77.6 | 0.0 | 6.0 | 60.0 |
| Oct 20 | | | 306 | 79 | 1,717 | 24 | | 846 | 284 | 0 | 0 | | 82.8 | 0.0 | 6.0 | 60.0 |
| Oct 21 | | | 283 | 57 | 556 | 23 | | 742 | 228 | 0 | 0 | | 94.7 | 0.0 | 6.0 | 59.0 |
| Oct 22 | | | 177 | 61 | 252 | 21 | | 723 | 208 | 0 | 0 | | 87.8 | 0.0 | 6.0 | 57.0 |
| Oct 23 | | | 194 | 69 | 96 | 0 | | 462 | 100 | 0 | 0 | | 100.1 | 0.0 | 6.0 | 59.0 |
| Oct 24 | | | 198 | 46 | 77 | 0 | | 514 | 150 | 0 | 0 | | 93.6 | 0.0 | 6.0 | 59.0 |
| Oct 25 | | | 182 | 17 | 45 | 0 | | 305 | 61 | 0 | 0 | | 100.2 | 0.0 | 6.0 | 58.0 |
| Oct 26 | | | 160 | 36 | 35 | 0 | | 293 | 94 | 0 | 0 | | 94.6 | 0.0 | 6.0 | 58.0 |
| Oct 27 | | | 133 | 29 | 23 | 5 | | 259 | 66 | 0 | 0 | | 95.9 | 0.0 | 6.0 | 58.0 |
| Oct 28 | | | 66 | 19 | 21 | 0 | | 154 | 52 | 0 | 0 | | 69.2 | 0.0 | 6.0 | 58.0 |
| Oct 29 | | | 94 | 14 | 10 | 2 | | 170 | 35 | 2 | 0 | | 99.3 | 0.0 | 6.0 | 57.0 |
| Oct 30 | | | 68 | 31 | 24 | 1 | | 187 | 59 | 0 | 0 | | 91.5 | 0.4 | 6.0 | 57.0 |
| Oct 31 | | | 117 | 9 | 21 | 1 | | 129 | 30 | 2 | 0 | | 94.1 | 0.0 | 6.0 | 57.0 |
| TOTAL | | | 12,709 | 5,174 | 14,212 | 396 | | 26,079 | 6,328 | 4 | 7 | | | | | |
| AVG. | | | 410 | 167 | 458 | 13 | | 841 | 204 | 0 | 0 | | 90.5 | 0.0 | 6.0 | 60.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 40,653 | 11,409 |
| FALL | 93,567 | 38,385 |
| TOTAL | 187,015 | 65,200 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 30,661 | 2,088 | 19,124 | 241,898 | 60,034 | 3,591,988 | 6,085 | 68 |

| PINK | CHUM |
|---|---|
| 1 | 4 |

Note: Visual counts ended October 31.

TABLE 36

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | CHUM | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 131 | 17 | 22 | 1 | | 146 | 41 | 0 | 0 | | 94.8 | 0.0 | 6.0 | 56.0 |
| Nov 2 | | | 118 | 15 | 16 | 0 | | 138 | 33 | 0 | -1 | | 94.4 | 0.0 | 6.0 | 56.0 |
| Nov 3 | | | 78 | 7 | 21 | 0 | | 99 | 21 | 0 | 1 | | 88.6 | 0.0 | 6.0 | 55.0 |
| Nov 4 | | | 41 | 3 | 8 | 0 | | 99 | 17 | 0 | 0 | | 68.4 | 0.0 | 6.0 | 55.0 |
| Nov 5 | | | 47 | 3 | 8 | 0 | | 117 | 17 | 0 | 0 | | 107.4 | 0.0 | 6.0 | 55.0 |
| Nov 6 | | | 77 | 6 | 8 | 1 | | 102 | 24 | 0 | 0 | | 105.8 | 0.0 | 6.0 | 56.0 |
| Nov 7 | | | 75 | 5 | 7 | 0 | | 102 | 24 | 0 | 0 | | 99.4 | 0.0 | 6.0 | 55.0 |
| Nov 8 | | | 51 | 10 | 8 | 1 | | 83 | 23 | 0 | 0 | | 76.7 | 0.0 | 6.0 | 55.0 |
| Nov 9 | | | 59 | 3 | 7 | 0 | | 86 | 26 | 2 | 0 | | 76.6 | 0.0 | 6.0 | 55.0 |
| Nov 10 | | | 52 | 2 | 2 | 1 | | 90 | 30 | 0 | 0 | | 113.8 | 0.0 | 6.0 | 54.0 |
| Nov 11 | | | 47 | 3 | 3 | 0 | | 70 | 17 | 0 | 0 | | 116.9 | 0.0 | 6.0 | 55.0 |
| Nov 12 | | | 55 | 0 | 7 | 0 | | 41 | 5 | 1 | 0 | | 114.6 | 0.0 | 6.0 | 54.0 |
| Nov 13 | | | 49 | 0 | 6 | 0 | | 61 | 13 | 0 | 0 | | 118.7 | 0.0 | 6.0 | 55.0 |
| Nov 14 | | | 41 | 3 | 5 | 0 | | 65 | 12 | 0 | 0 | | 117.6 | 0.0 | 6.0 | 54.0 |
| Nov 15 | | | 49 | 4 | 11 | 1 | | 79 | 18 | 0 | 0 | | 114.5 | 0.0 | 6.0 | 53.0 |
| Nov 16 | | | 23 | 0 | 4 | 0 | | 73 | 21 | 0 | 0 | | 120.9 | 0.0 | 6.0 | 53.0 |
| Nov 17 | | | 22 | 2 | 7 | 0 | | 101 | 27 | 1 | 0 | | 106.7 | 0.0 | 6.0 | 53.0 |
| Nov 18 | | | 25 | 1 | 12 | 1 | | 137 | 38 | 0 | 0 | | 103.1 | 0.0 | 6.0 | 53.0 |
| Nov 19 | | | 25 | 1 | 5 | 0 | | 98 | 26 | 0 | 0 | | 102.2 | 0.0 | 6.0 | 52.0 |
| Nov 20 | | | 19 | 0 | 2 | 0 | | 110 | 30 | 0 | 0 | | 94.4 | 0.0 | 6.0 | 52.0 |
| Nov 21 | | | 19 | 3 | 2 | 0 | | 89 | 25 | 0 | 0 | | 123.9 | 0.0 | 6.0 | 51.0 |
| Nov 22 | | | 16 | 1 | 2 | 0 | | 156 | 41 | 0 | 0 | | 108.2 | 0.0 | 6.0 | 51.0 |
| Nov 23 | | | 14 | 1 | 4 | 0 | | 152 | 32 | 0 | 0 | | 116.4 | 0.0 | 5.5 | 50.0 |
| Nov 24 | | | 17 | 2 | 2 | 0 | | 113 | 35 | 0 | 0 | | 116.8 | 0.0 | 6.0 | 50.0 |
| Nov 25 | | | 12 | 4 | 6 | 1 | | 97 | 34 | 0 | 0 | | 108.7 | 0.0 | 6.0 | 48.0 |
| Nov 26 | | | 17 | 2 | 0 | 0 | | 85 | 30 | 0 | 0 | | 121.4 | 0.0 | 6.0 | 48.0 |
| Nov 27 | | | 9 | 1 | 4 | 0 | | 62 | 25 | 0 | 0 | | 124.5 | 0.0 | 6.0 | 49.0 |
| Nov 28 | | | 9 | 1 | 0 | 0 | | 48 | 21 | 1 | 0 | | 113.1 | 0.0 | 6.0 | 49.0 |
| Nov 29 | | | 13 | 0 | -1 | 0 | | 36 | 14 | 0 | 0 | | 125.1 | 0.0 | 6.0 | 49.0 |
| Nov 30 | | | 14 | 2 | 3 | 0 | | 41 | 14 | 0 | 0 | | 123.3 | 0.0 | 6.0 | 50.0 |
| TOTAL | | | 1,224 | 102 | 191 | 7 | | 2,776 | 734 | 5 | 0 | | | | | |
| AVG. | | | 41 | 3 | 6 | 0 | | 93 | 24 | 0 | 0 | | 107.2 | 0.0 | 6.0 | 52.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 40,653 | 11,409 |
| FALL | 93,567 | 38,385 |
| TOTAL | 187,015 | 65,200 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON | PINK | CHUM |
|---|---|---|---|---|---|---|---|---|---|
| 30,661 | 2,088 | 19,124 | 241,898 | 60,034 | 3,591,988 | 6,085 | 68 | 1 | 9 |

**Note: Video counts occurred from November 1 through December 7. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**
**Video disruption occurred resulting in a 1 hour loss on 11/5 at the east ladder**
**Official Fall chinook run ended October 31st. November and December totals were not added to fall totals. Pink, chum, and sturgeon counts are totals for entire calendar year.**

TABLE 37

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **THE DALLES PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **DECEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | CHUM | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Dec 1 | | | 5 | 0 | 1 | 0 | | 31 | 10 | 0 | 0 | | 120.6 | 0.0 | 6.0 | 48.0 |
| Dec 2 | | | 2 | 1 | 1 | 0 | | 35 | 10 | 1 | 0 | | 105.9 | 0.0 | 6.0 | 46.9 |
| Dec 3 | | | 4 | 2 | 1 | 0 | | 20 | 4 | 0 | 0 | | 99.6 | 0.0 | 6.0 | 46.9 |
| Dec 4 | | | 2 | 1 | 4 | 1 | | 38 | 14 | 1 | -1 | | 102.4 | 0.0 | 6.0 | 46.9 |
| Dec 5 | | | 3 | 0 | 6 | 0 | | 5 | 1 | 0 | -1 | | 134.2 | 0.0 | 5.5 | 48.0 |
| Dec 6 | | | -1 | 0 | 2 | 0 | | -8 | 0 | 0 | 0 | | 115.9 | 0.0 | 5.5 | 46.0 |
| Dec 7 | | | 1 | 0 | -1 | 0 | | 22 | 6 | 0 | 0 | | 103.3 | 0.0 | 5.5 | 46.9 |
| Dec 8 | | | | | | | | | | | | | 113.4 | 0.0 | 6.0 | 45.0 |
| Dec 9 | | | | | | | | | | | | | 134.4 | 0.0 | 6.0 | 45.0 |
| Dec 10 | | | | | | | | | | | | | 136.1 | 0.0 | 6.0 | 45.0 |
| Dec 11 | | | | | | | | | | | | | 156.7 | 0.0 | 5.5 | 45.0 |
| Dec 12 | | | | | | | | | | | | | 130.5 | 0.0 | 5.5 | 45.0 |
| Dec 13 | | | | | | | | | | | | | 108.4 | 0.0 | 5.5 | 45.0 |
| Dec 14 | | | | | | | | | | | | | 145.9 | 0.0 | 6.0 | 45.0 |
| Dec 15 | | | | | | | | | | | | | 125.1 | 0.0 | 6.0 | 45.0 |
| Dec 16 | | | | | | | | | | | | | 105.4 | 0.0 | 6.0 | 45.0 |
| Dec 17 | | | | | | | | | | | | | 109.4 | 0.0 | 6.0 | 44.1 |
| Dec 18 | | | | | | | | | | | | | 118.3 | 0.0 | 5.5 | 45.0 |
| Dec 19 | | | | | | | | | | | | | 104.8 | 0.0 | 5.5 | 45.0 |
| Dec 20 | | | | | | | | | | | | | 109.8 | 0.0 | 6.0 | 46.0 |
| Dec 21 | | | | | | | | | | | | | 132.4 | 0.0 | 6.0 | 45.0 |
| Dec 22 | | | | | | | | | | | | | 127.3 | 0.0 | 5.5 | 43.0 |
| Dec 23 | | | | | | | | | | | | | 142.4 | 0.0 | 5.5 | 42.0 |
| Dec 24 | | | | | | | | | | | | | 112.5 | 0.0 | 6.0 | 42.0 |
| Dec 25 | | | | | | | | | | | | | 126.5 | 0.0 | 6.0 | 42.0 |
| Dec 26 | | | | | | | | | | | | | 104.3 | 0.0 | 5.5 | 42.0 |
| Dec 27 | | | | | | | | | | | | | 163.5 | 0.0 | 5.5 | 43.0 |
| Dec 28 | | | | | | | | | | | | | 159.6 | 0.0 | 6.0 | 43.0 |
| Dec 29 | | | | | | | | | | | | | 137.9 | 0.0 | 6.0 | 42.0 |
| Dec 30 | | | | | | | | | | | | | 108.8 | 0.0 | 6.0 | 42.0 |
| Dec 31 | | | | | | | | | | | | | 109.4 | 0.0 | 6.0 | 42.0 |
| TOTAL | | | 16 | 4 | 14 | | | 143 | 45 | 2 | -2 | | | | | |
| AVG. | | | 2 | 1 | 2 | | | 20 | 6 | 0 | 0 | | 122.7 | 0.0 | 5.8 | 44.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 52,795 | 15,406 |
| SUMMER | 40,653 | 11,409 |
| FALL | 93,567 | 38,385 |
| TOTAL | 187,015 | 65,200 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 30,661 | 2,088 | 19,124 | 241,898 | 60,034 | 3,591,988 | 6,085 | 68 |

| PINK | CHUM |
|---|---|
| 1 | 11 |

Note: Video counts occurred from November 1 through December 7. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

**Official Fall chinook run ended October 31st. November and December totals were not added to fall totals. Pink, chum, and sturgeon counts are totals for entire calendar year.**

TABLE 38

**YEARLY TOTALS OF SALMONIDS COUNTED OVER THE DALLES DAM**
**1957 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | CHUM | PINK | TOTALS |
|---|---|---|---|---|---|---|---|
| 1957 | 312,678 | 129,361 | 90,201 | 6,793 | 75 | 4 | 539,112 |
| 1958 | 301,960 | 121,420 | 111,039 | 2,395 | 31 | 5 | 536,850 |
| 1959 | 207,461 | 156,090 | 86,259 | 2,709 | 25 | 9 | 452,553 |
| 1960 | 196,962 | 111,189 | 59,441 | 3,000 | 35 | 5 | 370,632 |
| 1961 | 201,335 | 134,572 | 16,689 | 2,139 | | 4 | 354,739 |
| 1962 | 187,132 | 163,301 | 27,127 | 3,696 | | 5 | 381,261 |
| 1963 | 180,969 | 118,957 | 56,931 | 3,716 | 23 | 3 | 360,599 |
| 1964 | 183,842 | 110,033 | 79,042 | 5,978 | | 5 | 378,900 |
| 1965 | 195,049 | 141,052 | 44,279 | 17,468 | 1 | 3 | 397,852 |
| 1966 | 240,671 | 146,172 | 147,886 | 32,279 | | 1 | 567,009 |
| 1967 | 280,112 | 121,614 | 120,589 | 32,015 | 1 | 4 | 554,335 |
| 1968 | 262,975 | 147,481 | 116,897 | 42,687 | | 1 | 570,041 |
| 1969 | 314,258 | 112,529 | 37,226 | 17,054 | | 1 | 481,068 |
| 1970 | 261,457 | 99,187 | 77,678 | 23,219 | | 4 | 461,545 |
| 1971 | 250,528 | 151,348 | 76,103 | 29,061 | | 3 | 507,043 |
| 1972 | 268,628 | 135,303 | 44,671 | 16,562 | | | 465,164 |
| 1973 | 280,945 | 100,082 | 52,303 | 11,152 | | 1 | 444,483 |
| 1974 | 217,181 | 70,875 | 28,827 | 14,655 | | | 331,538 |
| 1975 | 217,283 | 57,675 | 43,198 | 13,976 | | | 332,132 |
| 1976 | 216,163 | 82,568 | 27,747 | 19,392 | | | 345,870 |
| 1977 | 224,950 | 133,882 | 86,252 | 10,021 | | | 455,105 |
| 1978 | 199,228 | 60,485 | 11,845 | 18,877 | | | 290,435 |
| 1979 | 150,647 | 83,364 | 32,791 | 8,726 | | 4 | 275,532 |
| 1980 | 113,951 | 93,963 | 42,088 | 6,326 | | | 256,328 |
| 1981 | 135,176 | 113,268 | 35,447 | 6,941 | | 1 | 290,833 |
| 1982 | 172,682 | 117,434 | 33,331 | 7,383 | | | 330,830 |
| 1983 | 156,190 | 171,055 | 84,204 | 3,459 | 1 | | 414,909 |
| 1984 | 203,920 | 219,123 | 101,177 | 3,142 | | 1 | 527,363 |
| 1985 | 370,982 | 276,025 | 117,254 | 4,625 | | 5 | 768,891 |
| 1986 | 443,013 | 281,953 | 48,477 | 4,842 | 3 | 4 | 778,292 |
| 1987 | 421,190 | 217,768 | 87,599 | 3,310 | 1 | 2 | 729,870 |
| 1988 | 378,080 | 198,499 | 55,802 | 9,226 | | | 641,607 |
| 1989 | 282,168 | 235,639 | 39,672 | 12,611 | | | 570,090 |
| 1990 | 207,556 | 129,271 | 40,230 | 4,645 | | | 381,702 |
| 1991 | 153,023 | 199,853 | 63,405 | 9,601 | | 103 | 425,985 |
| 1992 | 168,507 | 232,179 | 66,384 | 3,825 | | 3 | 470,898 |
| 1993 | 184,953 | 124,829 | 62,252 | 4,360 | | | 376,394 |
| 1994 | 161,758 | 112,253 | 9,356 | 4,376 | | | 287,743 |
| 1995 | 141,793 | 145,844 | 7,166 | 3,269 | | | 298,072 |
| 1996 | 167,911 | 162,456 | 25,055 | 4,583 | | | 360,005 |
| 1997 | 223,801 | 164,756 | 32,430 | 4,729 | | | 425,716 |
| 1998 | 154,132 | 116,682 | 8,826 | 8,970 | | | 288,610 |
| 1999 | 199,491 | 156,874 | 13,715 | 15,041 | | 19 | 385,140 |
| 2000 | 316,836 | 205,241 | 73,383 | 29,536 | | 1 | 624,997 |
| 2001 | 629,334 | 503,327 | 102,562 | 64,557 | | | 1,299,780 |
| 2002 | 583,155 | 387,920 | 40,554 | 12,786 | | | 1,024,415 |
| 2003 | 608,153 | 273,172 | 34,176 | 45,374 | 29 | 128 | 961,032 |
| 2004 | 562,737 | 241,123 | 107,466 | 41,645 | 5 | 0 | 952,976 |
| 2005 | 389,905 | 244,213 | 65,273 | 36,129 | 0 | 23 | 735,543 |
| 2006 | 341,371 | 249,223 | 30,026 | 34,339 | 3 | 3 | 654,965 |
| 2007 | 253,613 | 246,960 | 19,124 | 32,961 | 11 | 1 | 552,670 |
| Totals | 13,477,795 | 8,509,443 | 2,921,455 | 760,161 | 244 | 356 | 25,669,454 |
| 10-Year Average | 403,873 | 262,474 | 49,511 | 32,134 | | | 748,013 |

*Jacks included

TABLE 39

**MONTHLY COUNT OF CHINOOK SALMON**
**THE DALLES DAM 1957 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING 1 JAN-3 JUN | SUMMER 4 JUN-3 AUG | FALL 4 AUG-31 DEC | JACKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957 | | | 22 | 42,161 | 59,410 | 86,096 | 35,643 | 28,828 | 56,753 | 3,564 | 201 | | 312,678 | 109,723 | 116,661 | 86,294 | 37,374 |
| 1958 | | | 114 | 8,268 | 47,862 | 59,955 | 24,381 | 17,211 | 141,262 | 2,788 | 119 | | 301,960 | 61,747 | 80,139 | 160,074 | 19,747 |
| 1959 | | | 8 | 16,771 | 32,634 | 27,799 | 42,817 | 20,142 | 65,229 | 2,022 | 39 | | 207,461 | 50,874 | 71,362 | 85,225 | 39,857 |
| 1960 | | | | 17,073 | 40,091 | 52,577 | 22,549 | 15,225 | 46,453 | 2,720 | 274 | | 196,962 | 58,406 | 75,315 | 63,241 | 30,847 |
| 1961 | | | | 43,822 | 35,059 | 24,478 | 24,596 | 16,866 | 53,371 | 3,143 | | | 201,335 | 79,183 | 50,824 | 71,328 | 35,409 |
| 1962 | | | | 33,069 | 35,629 | 34,488 | 21,515 | 13,461 | 46,135 | 2,835 | | | 187,132 | 69,139 | 57,007 | 60,986 | 17,835 |
| 1963 | | | | 19,119 | 33,207 | 25,063 | 20,414 | 21,865 | 57,248 | 4,053 | | | 180,969 | 52,937 | 47,333 | 80,699 | 54,749 |
| 1964 | | | 340 | 35,551 | 24,447 | 16,801 | 37,697 | 17,452 | 49,811 | 1,743 | | | 183,842 | 60,691 | 56,360 | 66,791 | 30,900 |
| 1965 | | | 190 | 17,870 | 24,930 | 17,900 | 31,072 | 25,119 | 74,904 | 3,064 | | | 195,049 | 43,617 | 50,527 | 100,905 | 67,552 |
| 1966 | | | 1,068 | 72,267 | 22,837 | 25,530 | 33,712 | 14,978 | 65,380 | 4,899 | | | 240,671 | 96,628 | 61,062 | 82,981 | 36,482 |
| 1967 | | | | 48,744 | 22,817 | 24,718 | 45,346 | 23,927 | 107,427 | 7,133 | | | 280,112 | 71,976 | 72,582 | 135,554 | 98,817 |
| 1968 | | | 100 | 52,144 | 45,057 | 32,827 | 33,272 | 22,361 | 72,209 | 4,800 | 205 | | 262,975 | 98,742 | 67,391 | 96,842 | 64,644 |
| 1969 | | | 65 | 19,025 | 80,162 | 33,432 | 27,750 | 29,330 | 118,890 | 5,604 | | | 314,258 | 100,482 | 61,978 | 151,798 | 96,244 |
| 1970 | | | | 53,370 | 29,670 | 22,903 | 23,318 | 34,906 | 93,633 | 3,657 | | | 261,457 | 83,549 | 48,115 | 129,793 | 85,471 |
| 1971 | | | | 28,227 | 44,181 | 22,011 | 29,655 | 16,190 | 103,370 | 6,894 | | | 250,528 | 73,655 | 51,847 | 125,026 | 75,329 |
| 1972 | | | | 68,955 | 33,508 | 17,354 | 29,756 | 21,828 | 91,666 | 5,561 | | | 268,628 | 103,107 | 48,660 | 116,861 | 81,668 |
| 1973 | | | | 94,334 | 15,040 | 19,548 | 19,181 | 23,341 | 101,771 | 7,730 | | | 280,945 | 111,088 | 38,774 | 131,083 | 72,088 |
| 1974 | | | | 13,415 | 41,902 | 7,141 | 22,709 | 13,964 | 103,804 | 14,246 | | | 217,181 | 56,397 | 30,273 | 130,511 | 79,840 |
| 1975 | | | | 18,526 | 32,869 | 12,155 | 26,447 | 28,973 | 90,193 | 8,120 | | | 217,283 | 52,483 | 39,062 | 125,738 | 74,418 |
| 1976 | | | | 20,266 | 35,434 | 17,828 | 20,129 | 17,278 | 90,933 | 14,295 | | | 216,163 | 56,570 | 38,733 | 120,860 | 74,275 |
| 1977 | | | | 72,726 | 16,672 | 22,084 | 22,059 | 12,266 | 69,927 | 9,216 | | | 224,950 | 90,373 | 44,378 | 90,199 | 55,067 |
| 1978 | | | | 52,425 | 30,472 | 19,477 | 15,978 | 11,251 | 57,786 | 11,839 | | | 199,228 | 84,924 | 34,396 | 79,908 | 32,503 |
| 1979 | | | | 13,993 | 12,569 | 14,310 | 17,687 | 20,458 | 61,757 | 9,516 | 357 | | 150,647 | 27,297 | 32,298 | 91,052 | 42,886 |
| 1980 | | | | 12,434 | 15,441 | 7,948 | 12,832 | 12,881 | 43,675 | 8,740 | | | 113,951 | 28,237 | 21,133 | 64,581 | 20,016 |
| 1981 | | | | 24,227 | 16,335 | 8,491 | 10,779 | 15,802 | 53,840 | 5,702 | | | 135,176 | 41,160 | 19,676 | 74,340 | 33,919 |
| 1982 | | | | 10,569 | 33,296 | 10,058 | 9,554 | 17,466 | 79,487 | 12,252 | | | 172,682 | 44,750 | 19,342 | 108,590 | 60,165 |
| 1983 | | | | 13,270 | 22,893 | 8,766 | 8,430 | 12,501 | 73,942 | 16,388 | | | 156,190 | 36,856 | 17,051 | 102,283 | 41,335 |
| 1984 | | | | 9,326 | 23,784 | 9,992 | 12,332 | 23,495 | 105,786 | 19,205 | | | 203,920 | 33,848 | 22,472 | 147,600 | 70,798 |
| 1985 | | | | 36,035 | 39,173 | 15,785 | 10,332 | 37,806 | 203,470 | 27,058 | 1,323 | | 370,982 | 76,514 | 25,385 | 269,083 | 145,007 |
| 1986 | | | 175 | 48,892 | 36,928 | 14,175 | 10,452 | 22,684 | 264,091 | 45,616 | | | 443,013 | 87,004 | 24,826 | 331,183 | 176,461 |
| 1987 | | | | 48,812 | 27,586 | 17,923 | 12,145 | 50,680 | 236,216 | 27,828 | | | 421,190 | 77,453 | 30,804 | 312,933 | 65,115 |
| 1988 | | | | 51,680 | 20,756 | 16,644 | 13,494 | 66,509 | 193,490 | 15,507 | | | 378,080 | 73,663 | 29,892 | 274,525 | 69,631 |
| 1989 | | | | 24,474 | 27,477 | 15,539 | 13,899 | 58,674 | 130,931 | 10,438 | 736 | | 282,168 | 53,014 | 30,555 | 198,599 | 28,671 |
| 1990 | | | 115 | 36,062 | 20,749 | 13,390 | 9,099 | 22,152 | 96,538 | 9,451 | | | 207,556 | 57,424 | 22,615 | 127,517 | 32,794 |
| 1991 | | | | 14,513 | 17,313 | 10,949 | 7,638 | 8,384 | 84,861 | 9,365 | | | 153,023 | 32,359 | 18,467 | 102,197 | 36,820 |
| 1992 | | | | 38,141 | 19,414 | 9,595 | 5,797 | 14,589 | 71,281 | 9,690 | | | 168,507 | 58,451 | 14,976 | 95,080 | 27,160 |
| 1993 | | | | 42,391 | 25,824 | 14,165 | 6,481 | 19,297 | 71,395 | 5,400 | | | 184,953 | 69,356 | 20,063 | 95,534 | 12,298 |
| 1994 | | | | 6,573 | 4,938 | 7,376 | 8,360 | 22,910 | 98,997 | 12,604 | | | 161,758 | 11,798 | 15,997 | 133,963 | 25,470 |
| 1995 | | | | 3,008 | 4,244 | 6,176 | 7,111 | 23,094 | 82,723 | 15,437 | | | 141,793 | 7,553 | 13,558 | 120,682 | 32,813 |
| 1996 | | | | 5,631 | 20,896 | 8,018 | 6,718 | 26,505 | 90,762 | 9,381 | | | 167,911 | 27,127 | 14,488 | 126,296 | 5,851 |
| 1997 | | | | 25,639 | 42,467 | 14,718 | 8,011 | 23,666 | 100,652 | 8,648 | | | 223,801 | 69,740 | 21,134 | 132,704 | 16,249 |
| 1998 | | | | 14,927 | 10,488 | 10,289 | 6,702 | 20,129 | 78,191 | 13,406 | | | 154,132 | 25,743 | 16,906 | 111,483 | 20,513 |
| 1999 | | | | 5,396 | 17,579 | 10,972 | 13,864 | 30,830 | 107,411 | 13,439 | | | 199,491 | 23,743 | 24,937 | 150,811 | 28,412 |
| 2000 | | | | 68,618 | 47,131 | 20,878 | 15,442 | 57,600 | 97,042 | 10,125 | | | 316,836 | 117,749 | 35,580 | 163,507 | 63,769 |
| 2001 | | | | 228,568 | 79,627 | 50,030 | 35,889 | 38,452 | 172,871 | 23,897 | | | 629,334 | 313,865 | 80,249 | 233,081 | 72,644 |
| 2002 | | | | 63,869 | 116,008 | 76,400 | 45,761 | 63,943 | 197,956 | 19,218 | | | 583,155 | 185,046 | 118,812 | 279,297 | 42,982 |
| 2003 | | 11 | 7,227 | 84,312 | 54,173 | 70,347 | 43,926 | 42,146 | 280,091 | 33,070 | 3,085 | 84 | 618,472 | 149,967 | 111,931 | 356,574 | 62,007 |
| 2004 | | | 272 | 74,705 | 59,127 | 59,859 | 30,999 | 41,935 | 261,434 | 32,361 | 2,017 | 28 | 562,737 | 138,229 | 87,925 | 336,583 | 48,732 |
| 2005 | | 1 | 44 | 18,797 | 41,560 | 48,505 | 27,685 | 25,764 | 203,518 | 23,064 | 958 | 9 | 389,905 | 64,219 | 73,136 | 252,550 | 24,991 |
| 2006 | | | 9 | 1,006 | 61,711 | 58,394 | 26,404 | 24,419 | 141,212 | 26,060 | 2,140 | 16 | 341,371 | 64,012 | 84,839 | 192,520 | 27,212 |
| 2007 | | 1 | 51 | 19,338 | 46,147 | 34,405 | 19,510 | 21,415 | 93,517 | 17,883 | 1,326 | 20 | 253,613 | 68,253 | 52,062 | 133,298 | 65,306 |
| Total | | | 9,800 | 1,893,334 | 1,749,524 | 1,286,262 | 1,067,329 | 1,312,948 | 5,535,292 | 620,675 | 12,780 | | 13,488,114 | 3,730,721 | 2,343,888 | 7,411,143 | 2,661,143 |
| 10-Year Average | | | | 57,954 | 53,355 | 44,008 | 26,618 | 36,663 | 163,324 | 21,252 | | | 404,905 | 115,083 | 68,638 | 220,970 | 45,657 |

*Jacks included

TABLE 40

**MONTHLY COUNT OF SOCKEYE SALMON**
**THE DALLES DAM**
**1957 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957 | | | | | 125 | 33,476 | 54,294 | 2,081 | 221 | 4 | | | 90,201 |
| 1958 | | | | | 29 | 28,854 | 80,324 | 1,583 | 248 | 1 | | | 111,039 |
| 1959 | | | | | 413 | 7,176 | 76,347 | 2,245 | 77 | 1 | | | 86,259 |
| 1960 | | | | | 2 | 36,907 | 22,228 | 297 | 7 | | | | 59,441 |
| 1961 | | | | | 66 | 5,863 | 10,629 | 116 | 15 | | | | 16,689 |
| 1962 | | | | | 55 | 8,333 | 18,545 | 180 | 14 | | | | 27,127 |
| 1963 | | | | | 199 | 17,914 | 38,633 | 185 | 0 | | | | 56,931 |
| 1964 | | | | | 23 | 9,984 | 68,205 | 758 | 72 | | | | 79,042 |
| 1965 | | | | | 184 | 11,023 | 31,622 | 1,438 | 12 | | | | 44,279 |
| 1966 | | | | | 65 | 36,539 | 109,167 | 2,106 | 9 | | | | 147,886 |
| 1967 | | | | | 114 | 15,713 | 103,862 | 892 | 8 | | | | 120,589 |
| 1968 | | | | | 5 | 77,878 | 38,542 | 462 | 10 | | | | 116,897 |
| 1969 | | | | | 22 | 15,165 | 21,933 | 102 | 3 | 1 | | | 37,226 |
| 1970 | | | | | 1 | 18,309 | 56,903 | 2,387 | 75 | 3 | | | 77,678 |
| 1971 | | | | | 0 | 8,887 | 66,841 | 369 | 6 | | | | 76,103 |
| 1972 | | | | | 0 | 9,276 | 34,924 | 466 | 5 | | | | 44,671 |
| 1973 | | | | | 8 | 19,510 | 32,674 | 105 | 6 | | | | 52,303 |
| 1974 | | | | | 4 | 3,935 | 24,790 | 98 | 0 | | | | 28,827 |
| 1975 | | | | | 0 | 7,679 | 35,291 | 225 | 2 | 1 | | | 43,198 |
| 1976 | | | | | 1 | 10,988 | 16,637 | 121 | 0 | | | | 27,747 |
| 1977 | | | | | 5 | 60,049 | 26,146 | 52 | 0 | | | | 86,252 |
| 1978 | | | | | 24 | 7,158 | 4,559 | 104 | 0 | | | | 11,845 |
| 1979 | | | | | 0 | 14,750 | 17,734 | 307 | 0 | | | | 32,791 |
| 1980 | | | | | 0 | 11,096 | 30,046 | 927 | 19 | | | | 42,088 |
| 1981 | | | | | 0 | 17,692 | 17,686 | 68 | 1 | | | | 35,447 |
| 1982 | | | | | 0 | 11,430 | 21,742 | 144 | 15 | | | | 33,331 |
| 1983 | | | | | 1 | 34,684 | 49,302 | 197 | 19 | 1 | | | 84,204 |
| 1984 | | | | | 0 | 62,500 | 37,926 | 745 | 6 | | | | 101,177 |
| 1985 | | | | 1 | 17 | 75,603 | 41,107 | 521 | 4 | | 1 | | 117,254 |
| 1986 | | | | | 12 | 17,224 | 30,686 | 550 | 4 | 1 | | | 48,477 |
| 1987 | | | | | 1 | 48,798 | 38,443 | 348 | 8 | 1 | | | 87,599 |
| 1988 | | | | | 5 | 30,443 | 25,096 | 208 | 50 | | | | 55,802 |
| 1989 | | | | | 1 | 22,196 | 17,321 | 152 | 2 | | | | 39,672 |
| 1990 | | | | | 0 | 17,603 | 22,406 | 218 | 3 | | | | 40,230 |
| 1991 | | | | | 1 | 14,106 | 48,824 | 443 | 27 | 4 | | | 63,405 |
| 1992 | | | | | 16 | 38,319 | 27,812 | 232 | 4 | 1 | | | 66,384 |
| 1993 | | | | | 2 | 36,517 | 25,584 | 146 | 3 | | | | 62,252 |
| 1994 | | | | | 0 | 6,752 | 2,594 | 8 | 2 | | | | 9,356 |
| 1995 | | | | | 1 | 4,195 | 2,890 | 61 | 15 | 4 | | | 7,166 |
| 1996 | | | | | 0 | 17,013 | 7,983 | 44 | 15 | | | | 25,055 |
| 1997 | | | | | 4 | 11,707 | 20,292 | 395 | 29 | 3 | | | 32,430 |
| 1998 | | | | | 0 | 4,777 | 3,978 | 65 | 6 | | | | 8,826 |
| 1999 | | | | | 0 | 5,210 | 8,445 | 57 | 3 | | | | 13,715 |
| 2000 | | | | | 69 | 61,980 | 11,242 | 88 | 4 | | | | 73,383 |
| 2001 | | | | | 12 | 85,939 | 16,527 | 82 | 2 | | | | 102,562 |
| 2002 | | | | | 1 | 22,714 | 17,746 | 93 | 0 | | | | 40,554 |
| 2003 | | | | | 8 | 21,233 | 12,862 | 70 | 3 | | | 4 | 34,180 |
| 2004 | | | | | 61 | 84,332 | 22,978 | 94 | 1 | | | | 107,466 |
| 2005 | | | | | 4 | 38,474 | 26,688 | 98 | 7 | 2 | | | 65,273 |
| 2006 | | | | | 1 | 20,817 | 9,099 | 105 | 4 | | | | 30,026 |
| 2007 | | | | | 10 | 13,475 | 5,540 | 99 | 0 | | | | 19,124 |
| Total | | | | 1 | 1,572 | 1,302,195 | 1,593,675 | 22,937 | 1,046 | 28 | 1 | | 2,921,459 |
| 10-Year Average | | | | | 17 | 35,895 | 13,511 | 85 | 3 | | | | 49,511 |

TABLE 41

**MONTHLY COUNT OF COHO SALMON**
**THE DALLES DAM: 1957-2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | JACKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957 | | | | | | | 220 | 605 | 5,615 | 342 | 11 | | 6,793 | |
| 1958 | | | | | | | | 96 | 2,132 | 161 | 6 | | 2,395 | |
| 1959 | | | | | | | | 46 | 2,428 | 234 | 1 | | 2,709 | |
| 1960 | | | | | | | | 475 | 2,288 | 227 | 10 | | 3,000 | |
| 1961 | | | | | | | 4 | 5 | 1,898 | 232 | | | 2,139 | |
| 1962 | | | | | | | 5 | 258 | 3,194 | 239 | | | 3,696 | |
| 1963 | | | | | | | 2 | 361 | 2,931 | 422 | | | 3,716 | |
| 1964 | | | | | | | | 506 | 4,723 | 749 | | | 5,978 | |
| 1965 | | | | | | | 7 | 200 | 13,064 | 4,197 | | | 17,468 | |
| 1966 | | | | | | | 225 | 3,850 | 25,476 | 2,728 | | | 32,279 | |
| 1967 | | | | | | | 192 | 494 | 27,860 | 3,469 | | | 32,015 | 20,456 |
| 1968 | | | | | | | 372 | 3,319 | 36,568 | 2,346 | 82 | | 42,687 | 13,035 |
| 1969 | | | | | | | 412 | 970 | 13,179 | 2,493 | | | 17,054 | 11,218 |
| 1970 | | | | | | | 96 | 2,064 | 19,983 | 1,076 | | | 23,219 | 11,327 |
| 1971 | | | | | | | 1 | 1,589 | 26,066 | 1,405 | | | 29,061 | 11,174 |
| 1972 | | | | | | | 3 | 1,090 | 14,564 | 905 | | | 16,562 | 10,272 |
| 1973 | | | | | | | | 793 | 9,443 | 916 | | | 11,152 | 5,256 |
| 1974 | | | | | | | | 522 | 10,715 | 3,418 | | | 14,655 | 9,054 |
| 1975 | | | | | | | | 465 | 10,356 | 3,155 | | | 13,976 | 8,534 |
| 1976 | | | | | | | | 608 | 14,609 | 4,175 | | | 19,392 | 13,083 |
| 1977 | | | | | | | 1 | 91 | 8,131 | 1,798 | | | 10,021 | 6,096 |
| 1978 | | | | | | | | 355 | 13,069 | 5,453 | | | 18,877 | 13,533 |
| 1979 | | | | | | | | 211 | 7,109 | 1,367 | 39 | | 8,726 | 4,836 |
| 1980 | | | | | | | | 287 | 5,064 | 975 | | | 6,326 | 2,970 |
| 1981 | | | | | | | | 295 | 6,061 | 585 | | | 6,941 | 4,405 |
| 1982 | | | | | | | | 336 | 5,792 | 1,255 | | | 7,383 | 3,047 |
| 1983 | | | | | | | | 65 | 2,343 | 1,051 | | | 3,459 | 2,256 |
| 1984 | | | | | | | | 24 | 2,521 | 597 | | | 3,142 | 1,282 |
| 1985 | | | | | | | 4 | 208 | 3,537 | 828 | 48 | | 4,625 | 1,555 |
| 1986 | | | | | | | 2 | 1 | 3,772 | 1,067 | | | 4,842 | 1,458 |
| 1987 | | | | | | | 12 | 91 | 2,409 | 798 | | | 3,310 | 1,953 |
| 1988 | | | | | | | | 232 | 7,082 | 1,912 | | | 9,226 | 2,701 |
| 1989 | | | | | | | | 283 | 9,027 | 3,173 | 128 | | 12,611 | 4,781 |
| 1990 | | | | | | | | 60 | 3,229 | 1,356 | | | 4,645 | 2,340 |
| 1991 | | | | | | | | 30 | 7,714 | 1,857 | | | 9,601 | 1,053 |
| 1992 | | | | | | | | 11 | 3,119 | 695 | | | 3,825 | 1,239 |
| 1993 | | | | | | | | 18 | 3,256 | 1,086 | | | 4,360 | 3,416 |
| 1994 | | | | | | | 1 | 121 | 2,922 | 1,332 | | | 4,376 | 590 |
| 1995 | | | | | | | 6 | 204 | 2,013 | 1,046 | | | 3,269 | 483 |
| 1996 | | | | | | | 3 | 73 | 3,795 | 712 | | | 4,583 | 967 |
| 1997 | | | | | | | | 35 | 3,649 | 1,045 | | | 4,729 | 662 |
| 1998 | | | | | | | | 7 | 3,520 | 5,443 | | | 8,970 | 774 |
| 1999 | | | | | | | | 37 | 11,456 | 3,548 | | | 15,041 | 1,226 |
| 2000 | | | | | | | | 2,248 | 20,526 | 6,762 | | | 29,536 | 4,570 |
| 2001 | | | | | | | | 1,351 | 36,099 | 27,107 | | | 64,557 | 2,179 |
| 2002 | | | | | | | | 275 | 8,286 | 4,225 | | | 12,786 | 3,021 |
| 2003 | | | | | | | | 1,084 | 29,129 | 15,161 | 713 | 14 | 46,101 | 2,853 |
| 2004 | | -1 | | | | | | 565 | 29,591 | 10,408 | 1,072 | 10 | 41,645 | 1,919 |
| 2005 | | | | | | | 1 | 438 | 20,376 | 13,814 | 1,500 | 0 | 36,129 | 2,187 |
| 2006 | | | | | | | 1 | 1,541 | 18,080 | 12,574 | 2,142 | 1 | 34,339 | 2,468 |
| 2007 | | | | | | | | 596 | 17,545 | 14,608 | 198 | 14 | 32,961 | 2,095 |
| Total | | | | | | | 1,570 | 29,489 | 547,314 | 176,527 | 5,950 | 39 | 760,888 | 198,324 |
| 10-Year Average | | | | | | | | 814 | 19,461 | 11,365 | | | 32,207 | 2,329 |

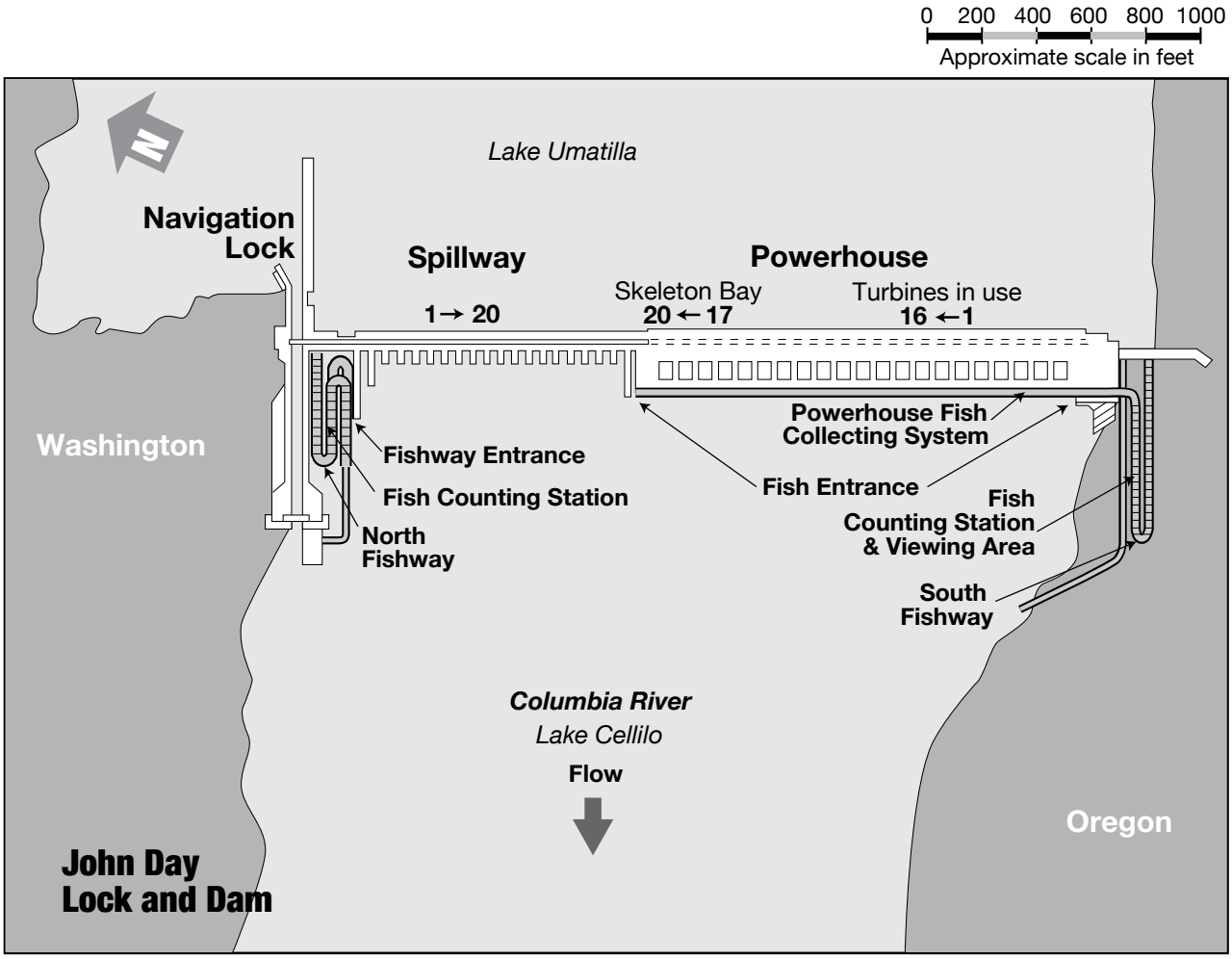
*Includes Jacks

TABLE 42

**MONTHLY COUNT OF STEELHEAD**
**THE DALLES DAM 1957 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957 | | | 1,603 | 951 | 977 | 4,782 | 45,445 | 33,319 | 35,396 | 6,545 | 343 | | 129,361 |
| 1958 | | | 122 | 274 | 1,898 | 4,906 | 20,384 | 11,442 | 75,036 | 6,846 | 512 | | 121,420 |
| 1959 | | | 1 | 541 | 502 | 2,227 | 46,271 | 60,841 | 41,026 | 4,502 | 179 | | 156,090 |
| 1960 | | | | 289 | 557 | 2,591 | 28,218 | 32,667 | 42,447 | 4,021 | 399 | | 111,189 |
| 1961 | | | | 305 | 307 | 1,396 | 21,906 | 17,850 | 87,344 | 5,464 | | | 134,572 |
| 1962 | | | | 528 | 252 | 1,068 | 36,609 | 31,507 | 87,463 | 5,874 | | | 163,301 |
| 1963 | | | | 153 | 451 | 1,361 | 30,485 | 25,360 | 48,066 | 13,081 | | | 118,957 |
| 1964 | | | 50 | 369 | 127 | 493 | 36,773 | 31,742 | 38,197 | 2,282 | | | 110,033 |
| 1965 | | | 36 | 502 | 484 | 896 | 60,522 | 21,132 | 53,389 | 4,091 | | | 141,052 |
| 1966 | | 25 | 788 | 933 | 600 | 3,816 | 52,975 | 26,382 | 53,721 | 6,932 | | | 146,172 |
| 1967 | | | | 258 | 183 | 435 | 27,914 | 22,746 | 56,082 | 13,996 | | | 121,614 |
| 1968 | | | 23 | 691 | 344 | 973 | 20,974 | 58,866 | 57,666 | 7,456 | 488 | | 147,481 |
| 1969 | | | 54 | 953 | 414 | 1,442 | 33,952 | 22,963 | 44,146 | 8,605 | | | 112,529 |
| 1970 | | | | 337 | 172 | 733 | 15,905 | 32,752 | 44,823 | 4,465 | | | 99,187 |
| 1971 | | | | 408 | 233 | 821 | 40,712 | 31,812 | 69,602 | 7,760 | | | 151,348 |
| 1972 | | | | 463 | 159 | 604 | 35,569 | 30,631 | 63,748 | 4,129 | | | 135,303 |
| 1973 | | | | 723 | 326 | 1,981 | 29,067 | 25,437 | 38,017 | 4,531 | | | 100,082 |
| 1974 | | | | 529 | 1,362 | 1,859 | 24,779 | 21,835 | 15,059 | 5,452 | | | 70,875 |
| 1975 | | | | 1,018 | 1,334 | 1,973 | 18,046 | 20,531 | 11,519 | 3,254 | | | 57,675 |
| 1976 | | | | 768 | 1,604 | 3,357 | 22,021 | 30,386 | 21,586 | 2,846 | | | 82,568 |
| 1977 | | | | 1,666 | 1,332 | 5,038 | 42,859 | 13,022 | 61,678 | 8,287 | | | 133,882 |
| 1978 | | | | 834 | 1,378 | 3,459 | 13,493 | 11,457 | 26,189 | 3,675 | | | 60,485 |
| 1979 | | | | 478 | 244 | 1,942 | 23,054 | 21,974 | 20,961 | 14,079 | 632 | | 83,364 |
| 1980 | | | | 2,885 | 790 | 2,134 | 15,114 | 30,755 | 34,447 | 7,838 | | | 93,963 |
| 1981 | | | | 1,389 | 1,632 | 3,768 | 34,242 | 36,537 | 26,837 | 8,863 | | | 113,268 |
| 1982 | | | | 729 | 1,289 | 2,710 | 22,607 | 31,410 | 49,050 | 9,639 | | | 117,434 |
| 1983 | | | | 438 | 324 | 1,492 | 37,029 | 47,521 | 75,210 | 9,041 | | | 171,055 |
| 1984 | | | | 846 | 894 | 3,715 | 52,825 | 36,859 | 107,377 | 16,607 | | | 219,123 |
| 1985 | | | | 2,405 | 1,511 | 5,679 | 41,534 | 102,866 | 107,574 | 13,337 | 1,119 | | 276,025 |
| 1986 | | | 1,395 | 610 | 712 | 4,492 | 78,494 | 60,458 | 111,066 | 24,726 | | | 281,953 |
| 1987 | | | | 1,069 | 366 | 3,280 | 55,395 | 58,850 | 76,461 | 22,347 | | | 217,768 |
| 1988 | | | | 2,520 | 969 | 3,984 | 34,612 | 54,986 | 85,061 | 16,367 | | | 198,499 |
| 1989 | | | | 1,810 | 849 | 3,950 | 35,167 | 45,694 | 119,322 | 25,880 | 2,967 | | 235,639 |
| 1990 | | | 1,169 | 1,515 | 920 | 3,078 | 17,942 | 17,772 | 58,805 | 28,070 | | | 129,271 |
| 1991 | | | | 1,826 | 630 | 1,755 | 25,686 | 37,560 | 104,833 | 27,563 | | | 199,853 |
| 1992 | | | | 1,104 | 743 | 3,494 | 18,753 | 37,269 | 157,216 | 13,600 | | | 232,179 |
| 1993 | | | | 2,367 | 731 | 3,847 | 17,962 | 20,194 | 61,600 | 18,128 | | | 124,829 |
| 1994 | | | | 1,327 | 391 | 2,263 | 11,434 | 11,703 | 55,247 | 29,889 | | | 112,254 |
| 1995 | | | | 435 | 407 | 2,329 | 11,953 | 46,428 | 59,604 | 24,688 | | | 145,844 |
| 1996 | | | | 669 | 481 | 1,981 | 20,317 | 61,136 | 65,400 | 12,472 | | | 162,456 |
| 1997 | | | | 658 | 483 | 2,187 | 18,916 | 34,055 | 84,006 | 24,451 | | | 164,756 |
| 1998 | | | | 609 | 433 | 2,433 | 9,911 | 12,180 | 62,331 | 28,785 | | | 116,682 |
| 1999 | | | | 279 | 343 | 1,625 | 25,277 | 56,665 | 60,762 | 11,923 | | | 156,874 |
| 2000 | | | | 491 | 319 | 6,467 | 37,760 | 48,697 | 96,040 | 15,467 | | | 205,241 |
| 2001 | | | | 788 | 582 | 13,063 | 100,501 | 95,859 | 226,711 | 65,823 | | | 503,327 |
| 2002 | | | | 2,308 | 439 | 7,027 | 67,132 | 84,140 | 170,382 | 56,492 | | | 387,920 |
| 2003 | | 485 | 2,389 | 801 | 271 | 4,882 | 36,960 | 35,275 | 158,525 | 36,458 | 6,004 | 524 | 282,574 |
| 2004 | | 140 | 1,072 | 1,066 | 680 | 7,116 | 23,581 | 30,398 | 152,302 | 23,099 | 1,647 | 22 | 241,123 |
| 2005 | | 107 | 688 | 558 | 616 | 4,483 | 33,476 | 33,332 | 126,710 | 41,174 | 3,020 | 49 | 244,213 |
| 2006 | | 16 | 811 | 972 | 252 | 2,241 | 15,892 | 43,884 | 138,845 | 33,537 | 12,641 | 132 | 249,223 |
| 2007 | | 195 | 1,948 | 1,033 | 255 | 2,155 | 25,008 | 66,310 | 121,058 | 26,079 | 2,776 | 143 | 246,960 |
| Total | | | 12,149 | 47,478 | 33,552 | 155,783 | 1,653,413 | 1,915,447 | 3,845,943 | 820,516 | 32,727 | | 8,518,846 |
| 10-Year Average | | | | 891 | 419 | 5,149 | 37,550 | 50,674 | 131,367 | 33,884 | | | 263,414 |

# Plate 4 John Day Lock and Dam



# JOHN DAY DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| Feb 21 – Mar 31 | Video counting daily 0400-2000 hours Pacific Standard Time. |
| Apr 1 – Oct 31 | Visual counting daily 0400-2000 hours Pacific Standard Time. |
| Nov 1 – Dec 7 | Video counting daily 0400-2000 hours Pacific Standard Time. |

## FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calender year 2007. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports.

**North Adult Fishway**

Jan 1-Dec 31: in full operation with attraction water

**South Adult Fishway**

Jan 1-Jan 2: ladder flow only
Jan 3-Feb 28: dewatered for maintenance
Mar 1-Dec 1: in full operation with attraction water
Dec 2- Dec 3: ladder flow only
Dec 4 – Dec 31: dewatered for maintenance

**Smolt Monitoring Facility**

Jan 1-Apr 2: dewatered
Apr 3-Sept 15: in full operation with juvenile sampling
Sept 16-Dec 31: dewatered

**Juvenile Bypass System**

Jan 1-Apr 1: 1/3 gatewell orifice open, rotated twice weekly
Apr 1-Dec 31: full operation (submersible travelling screens removed 2 weeks late)

**Spillway**

Jan 1-Apr 9: closed (except for a few tests):
Apr 10-Aug31: 0%day, 60% night spring - 30% 24hr/day summer.
Sept 1-Nov 31: Bay 2 only, 1.5 KCFS daylight hours only (attraction water for north fishway)
Dec 1-Dec 31: closed

## FISH RELATED DEWATERINGS

### *FISHWAY DEWATERING PROCEDURES*

Bulkheads are installed and drain valves open to dewater various areas of fishways. Fisheries personnel enter these areas to salvage fish that become entrapped. Minimal

handling of fish is applied. Fish that are reluctant to vacate an area are captured and transported to the forebay or tailwater, depending on circumstances such as fish species, age class and stress levels. A follow up inspection is made to account for possible missed fish. Efforts are made to provide continual water supply during the entire operation to reduce fish stranding. Fishway areas not included on this list are inspected by divers.

### *Fishway Dewaterings*

South ladder (Dec 4) – Annual inspection and maintenance. Twenty-nine juvenile steelhead released to tailwater. One lamprey given to Nez Perce tribe for restocking efforts.
Collection channel (Dec 6) – Annual inspection and maintenance dewatering. Forty-seven juvenile steelhead, 20 catfish, 2 walleye and 5 suckers released to tailwater. Two lamprey given to Nez Perce tribe for restocking efforts.
South entrance (SE1) pool - Three adult steelhead, 102 juvenile steelhead and 28 catfish released to tailwater. Eight previously dead juvenile steelhead removed.
Smolt Monitor Facility (9/15 ) – Dewatered for winter. Fifty adult Chinook, 12 adult steelhead, 2 sturgeon 12 catfish, 12 lamprey and about 300 shad pushed to tailwater via fish evacuation pipe. Twelve lamprey were given to Umatilla tribe for restocking efforts.

### *Fishway Dives*

South collection channel ROV (Aug 10) – Annual mid season inspection. No problems found.

## *TURBINE DEWATERING PROCEDURES*

Turbine dewatering for routine maintenance usually involves low numbers of fish, due to operational guidelines. If a turbine unit fails, operational guidelines cannot always be followed, which usually results in higher numbers of fish entrapment. Removal of fish from these areas has a greater fish stress risk due to handling. Procedures are continually analyzed to determine the best method for preventing fish stress or loss. Fish are removed from scroll case and draft tubes by fish bags. If numbers of fish are higher than two bags, transport tanks are placed in the draft tube gallery for transport by crane. Fish are released to tailwater either with bag and rope or tank and crane.

### *Turbine Dewaterings*

Main turbine unit 6 (Feb 23) – Routine maintenance. No fish in scroll case or draft tube.
Main turbine unit 7 (Apr 3) – Routine maintenance. No fish in scroll case. One sturgeon in draft tube released to river.

## FISHWAY INSPECTION COMPARISON

Two adult fishway inspections are conducted per day during the adult fish passage season (March 1 to November 31). One adult fishway inspection is conducted per day during the non- passage season. Items shown in *italics* are inspected once per day. All other items are inspected during every fishway inspection. Guidelines are provided by the COE Fish Passage Plan. Weekly fishway status reports are provided throughout the year. Inspections of the John Day Smolt Monitor Facility are made once per two hours, 24 hours per day during the juvenile sampling season (April 1 to Sept 15.) SMF status reports are included in the weekly fishway status report. Increased or continual problem areas indicated in red. Values are rounded to the nearest whole percent.

### *FISHWAY INSPECTION RESULTS*

| Criteria Item | 2007 | 2006 | 2005 | 2004 |
|---|---|---|---|---|
| South Fishway | | | | |
| Exit differential | 0 | 0 | 0 | |
| *Count station differential* | 0 | 0 | 0 | |
| *Weir crest depth* | 0 | 1 | 0 | |
| SE1 differential | 0 | 1 | 1 | 0 |
| SE1 entrance depth | 4 | 1 | 4 | 4 |
| *Collection channel velocity* | 30 | 14 | 23 | 26 |
| NE1/NE2 differential | 1 | 1 | 3 | 0 |
| NE1 entrance depth | 2 | 4 | 3 | 0 |
| NE2 entrance depth | 1 | 3 | 5 | 2 |
| North Fishway | | | | |
| Exit differential | 1 | 1 | 0 | 0 |
| *Count station differential* | 0 | 0 | 0 | 1 |
| *Weir crest depth* | 0 | 0 | 0 | 6 |
| EW1/EW2 differential | 3 | 4 | 6 | 0 |
| EW1 entrance depth | 8 | 2 | 7 | 4 |
| EW2 entrance depth | 0 | 2 | 1 | closed |
| *JBS Conduit differential* | 2 | 1 | 1 | 1 |
| *Spill Pattern* | 1 | 0 | 0 | 0 |
| Turbine operation priority | 3 | 37 | 0 | 6 |
| *Turbine 1% operation* | 0 | 0 | 0 | 0 |

**Discussion**

Poor collection channel velocity continues. Correction cannot be obtained by adjustment. Surface float measurements were used more towards the end of the season.
EW1 weir had periodic automation problems throughout the year. Automation updgrades may improve criteria operation.

TABLE 43

**MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER JOHN DAY DAM**

**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | 3 | 13,080 | 40,896 | 30,282 | 19,378 | 12,140 | 81,091 | 17,462 | 1,256 | 288 | 215,876 |
| STEELHEAD | | 400 | 3,584 | 1,592 | 641 | 2,450 | 16,497 | 43,710 | 119,499 | 42,809 | 5,509 | 826 | 237,517 |
| SOCKEYE | | | | | 6 | 16,083 | 7,994 | 141 | 53 | | | | 24,277 |
| COHO* | | | | | | 1 | 1 | 248 | 21,179 | 17,799 | 193 | | 39,421 |
| CHUM | | | | | | | | | | | | | 0 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | 3,587 | 14,672 | 41,543 | 48,816 | 43,870 | 56,239 | 221,822 | 78,070 | 6,958 | 1,114 | 517,091 |
| LAMPREY | | | | 4 | 64 | 112 | 3,604 | 1,563 | 377 | 20 | | | 5,744 |
| STURGEON | | | | | | | 25 | 28 | 13 | 4 | | | 70 |
| BULL TROUT | | | | | | | | | | | | | 0 |

***Jacks Included**
**Counts are from Feruary 20 to December 4. Visual counts occured from April 1 to October 31. All other counts were from video.**

TABLE 44

**DISCHARGE AND WATER QUALITY DATA**

**JOHN DAY PROJECT 2007**

**JANUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *DEG F |
|---|---|---|---|---|
| Jan 1 | 115.5 | 0.0 | | |
| Jan 2 | 114.8 | 0.0 | | |
| Jan 3 | 115.9 | 0.0 | | |
| Jan 4 | 142.2 | 0.0 | | |
| Jan 5 | 162.6 | 0.0 | | |
| Jan 6 | 141.9 | 0.0 | | |
| Jan 7 | 150.9 | 0.0 | | |
| Jan 8 | 143.9 | 0.0 | | |
| Jan 9 | 128.6 | 0.0 | | |
| Jan 10 | 160.1 | 0.0 | | |
| Jan 11 | 151.1 | 0.0 | | |
| Jan 12 | 199.7 | 0.0 | | |
| Jan 13 | 172.9 | 0.0 | | |
| Jan 14 | 185.6 | 0.0 | | |
| Jan 15 | 198.7 | 0.0 | | |
| Jan 16 | 184.3 | 0.0 | | |
| Jan 17 | 169.3 | 0.0 | | |
| Jan 18 | 197.7 | 0.0 | | |
| Jan 19 | 171.1 | 0.0 | | |
| Jan 20 | 162.2 | 0.0 | | |
| Jan 21 | 144.6 | 0.0 | | |
| Jan 22 | 170.0 | 0.0 | | |
| Jan 23 | 168.7 | 0.0 | | |
| Jan 24 | 171.4 | 0.0 | | |
| Jan 25 | 174.7 | 0.0 | | |
| Jan 26 | 184.1 | 0.0 | | |
| Jan 27 | 170.8 | 0.0 | | |
| Jan 28 | 144.8 | 0.0 | | |
| Jan 29 | 180.7 | 0.0 | | |
| Jan 30 | 150.3 | 0.0 | | |
| Jan 31 | 160.5 | 0.0 | | |
| AVG. | 161.0 | 0.0 | | |

*Data unavailable

TABLE 45

**MONTHLY FISH PASSAGE SUMMARY REPORT** **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **FEBRUARY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | *DEG F |
| Feb 1 | | | | | | | | | | | | 163.1 | 0.0 | | |
| Feb 2 | | | | | | | | | | | | 146.5 | 0.0 | | |
| Feb 3 | | | | | | | | | | | | 154.2 | 0.0 | | |
| Feb 4 | | | | | | | | | | | | 112.6 | 0.0 | | |
| Feb 5 | | | | | | | | | | | | 137.0 | 0.0 | | |
| Feb 6 | | | | | | | | | | | | 136.4 | 0.0 | | |
| Feb 7 | | | | | | | | | | | | 138.3 | 0.0 | | |
| Feb 8 | | | | | | | | | | | | 138.9 | 0.0 | | |
| Feb 9 | | | | | | | | | | | | 128.0 | 0.0 | | |
| Feb 10 | | | | | | | | | | | | 149.6 | 0.0 | | |
| Feb 11 | | | | | | | | | | | | 134.6 | 0.0 | | |
| Feb 12 | | | | | | | | | | | | 132.0 | 0.0 | | |
| Feb 13 | | | | | | | | | | | | 137.2 | 0.0 | | |
| Feb 14 | | | | | | | | | | | | 166.9 | 0.0 | | |
| Feb 15 | | | | | | | | | | | | 142.2 | 0.0 | | |
| Feb 16 | | | | | | | | | | | | 134.2 | 0.0 | | |
| Feb 17 | | | | | | | | | | | | 131.6 | 0.0 | | |
| Feb 18 | | | | | | | | | | | | 118.2 | 0.0 | | |
| Feb 19 | | | | | | | | | | | | 141.5 | 0.0 | | |
| Feb 20 | | | | | | | | | | | | 140.1 | 0.0 | | |
| Feb 21 | | | | | | | | 47 | 9 | | | 136.9 | 0.0 | | |
| Feb 22 | | | | | | | | 54 | 10 | | | 113.0 | 0.0 | | |
| Feb 23 | | | | | | | | 57 | 6 | | | 112.9 | 0.0 | | |
| Feb 24 | | | | | | | | 48 | 3 | | | 125.2 | 0.0 | | |
| Feb 25 | | | | | | | | 46 | 8 | | | 118.1 | 0.0 | | |
| Feb 26 | | | | | | | | 26 | 6 | | | 116.8 | 0.0 | | |
| Feb 27 | | | | | | | | 40 | 5 | | | 134.9 | 0.0 | | |
| Feb 28 | | | | | | | | 82 | 7 | | | 116.7 | 0.0 | | |
| TOTAL | | | | | | | | 400 | 54 | | | | | | |
| AVG. | | | | | | | | 50 | 7 | | | 134.2 | 0.0 | | |

*Data unavailable

Note: From February 21 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

TABLE 46

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 0 | | | 0 | | | | 67 | 11 | | | 155.6 | 0.0 | * | * |
| Mar 2 | 0 | | | 0 | | | | 60 | 20 | | | 160.1 | 0.0 | * | * |
| Mar 3 | 0 | | | 0 | | | | 138 | 40 | | | 154.9 | 0.0 | * | * |
| Mar 4 | 0 | | | 0 | | | | 173 | 69 | | | 124.0 | 0.0 | * | * |
| Mar 5 | 0 | | | 0 | | | | 93 | 28 | | | 129.0 | 0.0 | * | * |
| Mar 6 | 0 | | | 0 | | | | 105 | 36 | | | 130.1 | 0.0 | * | * |
| Mar 7 | 0 | | | 0 | | | | 70 | 27 | | | 132.0 | 0.0 | * | * |
| Mar 8 | 0 | | | 0 | | | | 82 | 25 | | | 146.5 | 0.0 | * | * |
| Mar 9 | 0 | | | 0 | | | | 103 | 42 | | | 163.3 | 0.0 | * | * |
| Mar 10 | 0 | | | 0 | | | | 98 | 33 | | | 148.8 | 0.0 | * | * |
| Mar 11 | 0 | | | 0 | | | | 133 | 48 | | | 105.6 | 0.0 | * | * |
| Mar 12 | 0 | | | 0 | | | | 85 | 23 | | | 142.4 | 0.0 | * | * |
| Mar 13 | 0 | | | 1 | | | | 124 | 41 | | | 163.1 | 0.0 | * | * |
| Mar 14 | 0 | | | 0 | | | | 63 | 22 | | | 192.1 | 0.0 | * | * |
| Mar 15 | 0 | | | 0 | | | | 66 | 22 | | | 209.3 | 0.0 | * | * |
| Mar 16 | 0 | | | 0 | | | | 121 | 50 | | | 205.2 | 0.0 | * | * |
| Mar 17 | 0 | | | 0 | | | | 114 | 39 | | | 207.9 | 0.0 | * | * |
| Mar 18 | 0 | | | 0 | | | | 180 | 63 | | | 181.3 | 0.0 | 6.0 | 43.0 |
| Mar 19 | 0 | | | 0 | | | | 137 | 25 | | | 193.5 | 3.1 | 6.0 | 45.0 |
| Mar 20 | 0 | | | 0 | | | | 146 | 38 | | | 225.9 | 31.7 | 6.0 | 45.0 |
| Mar 21 | 0 | | | 0 | | | | 160 | 36 | | | 263.3 | 61.2 | 4.5 | 46.0 |
| Mar 22 | 0 | | | 0 | | | | 107 | 31 | | | 237.3 | 28.6 | 6.0 | 45.0 |
| Mar 23 | 0 | | | 0 | | | | 85 | 28 | | | 200.3 | 2.7 | 4.0 | 45.0 |
| Mar 24 | 0 | | | 0 | | | | 123 | 39 | | | 236.1 | 11.6 | 3.0 | 46.0 |
| Mar 25 | 0 | | | 0 | | | | 105 | 41 | | | 225.4 | 2.7 | 3.5 | 46.0 |
| Mar 26 | 0 | | | 0 | | | | 171 | 65 | | | 272.3 | 61.0 | 5.0 | 46.0 |
| Mar 27 | 0 | | | 0 | | | | 178 | 47 | | | 215.1 | 17.1 | 5.0 | 46.0 |
| Mar 28 | 0 | | | 0 | | | | 129 | 48 | | | 218.4 | 15.4 | 5.5 | 46.0 |
| Mar 29 | 0 | | | 0 | | | | 107 | 36 | | | 256.6 | 48.5 | 6.0 | 45.0 |
| Mar 30 | 1 | | | 0 | | | | 115 | 41 | | | 273.4 | 55.1 | 6.0 | 45.0 |
| Mar 31 | 1 | | | 0 | | | | 146 | 58 | | | 281.9 | 62.0 | 5.5 | 45.0 |
| TOTAL | 2 | | | 1 | | | | 3,584 | 1,172 | | | | | | |
| AVG. | 0 | | | 0 | | | | 116 | 38 | | | 192.0 | 12.9 | 5.1 | 45.3 |

*Data unavailable

Note: From February 21 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 47

**MONTHLY FISH PASSAGE SUMMARY REPORT** **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 1 | | | 0 | | | | 165 | 48 | 0 | | 274.1 | 53.2 | 5.5 | 45.0 |
| Apr 2 | 0 | | | 0 | | | | 123 | 44 | 1 | | 225.1 | 4.7 | 4.0 | 45.0 |
| Apr 3 | 5 | | | 0 | | | | 172 | 48 | 0 | | 277.0 | 61.1 | 4.0 | 45.0 |
| Apr 4 | 8 | | | 0 | | | | 90 | 42 | 0 | | 238.8 | 31.4 | 4.5 | 46.0 |
| Apr 5 | 2 | | | 0 | | | | 122 | 32 | 0 | | 250.5 | 35.0 | 5.0 | 46.0 |
| Apr 6 | 6 | | | 0 | | | | 55 | 7 | 0 | | 227.4 | 11.7 | 6.0 | 45.0 |
| Apr 7 | 3 | | | 0 | | | | 75 | 31 | 0 | | 211.4 | 0.0 | 4.5 | 47.0 |
| Apr 8 | 1 | | | 0 | | | | 69 | 27 | 0 | | 198.9 | 0.0 | 4.0 | 46.0 |
| Apr 9 | 1 | | | 0 | | | | 102 | 53 | 0 | | 190.8 | 0.0 | 4.0 | 47.0 |
| Apr 10 | 8 | | | 0 | | | | 57 | 33 | 0 | | 212.9 | 47.3 | 5.0 | 47.0 |
| Apr 11 | 12 | | | 0 | | | | 112 | 68 | 0 | | 233.8 | 47.0 | 5.0 | 47.0 |
| Apr 12 | 22 | | | 0 | | | | 60 | 25 | 0 | | 193.9 | 46.8 | 6.0 | 48.0 |
| Apr 13 | 12 | | | 0 | | | | 81 | 48 | 0 | | 246.2 | 50.7 | 6.0 | 49.0 |
| Apr 14 | 50 | | | 5 | | | | 39 | 13 | 1 | | 214.7 | 49.8 | 5.5 | 49.0 |
| Apr 15 | 81 | | | 1 | | | | 49 | 24 | 0 | | 229.6 | 54.5 | 5.5 | 48.0 |
| Apr 16 | 138 | | | 4 | | | | 26 | 20 | 0 | | 219.9 | 60.4 | 5.5 | 48.0 |
| Apr 17 | 230 | | | 0 | | | | 26 | 10 | 0 | | 224.0 | 71.0 | 5.0 | 49.0 |
| Apr 18 | 172 | | | 1 | | | | 26 | 11 | 0 | | 215.8 | 63.3 | 5.5 | 49.0 |
| Apr 19 | 332 | | | 4 | | | | 17 | 19 | 0 | | 217.0 | 63.3 | 6.0 | 49.0 |
| Apr 20 | 593 | | | 2 | | | | 8 | 3 | 0 | | 220.6 | 71.1 | 4.0 | 49.0 |
| Apr 21 | 831 | | | 3 | | | | 3 | -11 | 0 | | 217.3 | 65.3 | 4.5 | 50.0 |
| Apr 22 | 1,054 | | | 8 | | | | 29 | 18 | 0 | | 215.8 | 63.9 | 5.0 | 52.0 |
| Apr 23 | 694 | | | 4 | | | | 12 | 12 | 0 | | 219.8 | 63.9 | 5.0 | 51.0 |
| Apr 24 | 728 | | | 21 | | | | 22 | 12 | 0 | | 198.2 | 55.2 | 5.0 | 51.0 |
| Apr 25 | 700 | | | 19 | | | | 13 | 14 | 0 | | 206.1 | 59.9 | 5.0 | 50.0 |
| Apr 26 | 1,413 | | | 66 | | | | 10 | 8 | 0 | | 222.5 | 60.9 | 5.0 | 49.0 |
| Apr 27 | 1,000 | | | 62 | | | | 10 | 2 | 0 | | 229.2 | 60.4 | 4.5 | 50.0 |
| Apr 28 | 1,451 | | | 65 | | | | -1 | -1 | 0 | | 222.8 | 60.5 | 4.5 | 50.0 |
| Apr 29 | 1,656 | | | 131 | | | | 6 | 0 | 1 | | 227.4 | 59.5 | 5.0 | 53.0 |
| Apr 30 | 1,373 | | | 107 | | | | 14 | 5 | 1 | | 227.3 | 62.6 | 5.0 | 53.0 |
| TOTAL | 12,577 | | | 503 | | | | 1,592 | 665 | 4 | | | | | |
| AVG. | 419 | | | 17 | | | | 53 | 22 | 0 | | 223.6 | 47.8 | 5.0 | 48.4 |

**Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**
**Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.**

TABLE 48

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 1,354 | | | 124 | | | 0 | 18 | 2 | 0 | | 247.9 | 64.5 | 4.5 | 52.0 |
| May 2 | 2,200 | | | 186 | | | 0 | 18 | 9 | 0 | | 256.0 | 64.6 | 5.0 | 53.0 |
| May 3 | 1,468 | | | 225 | | | 0 | 2 | -4 | 0 | | 269.4 | 67.4 | 5.0 | 54.0 |
| May 4 | 1,493 | | | 258 | | | 0 | 52 | 37 | 0 | | 278.9 | 71.1 | 4.5 | 54.0 |
| May 5 | 1,795 | | | 421 | | | 0 | 6 | 2 | 0 | | 276.7 | 70.6 | 5.0 | 53.0 |
| May 6 | 1,211 | | | 436 | | | 0 | 2 | 0 | -1 | | 276.8 | 70.6 | 4.0 | 53.0 |
| May 7 | 1,087 | | | 436 | | | 0 | 1 | 1 | 2 | | 243.7 | 63.3 | 5.0 | 54.0 |
| May 8 | 993 | | | 424 | | | 0 | 3 | 5 | 0 | | 250.6 | 67.2 | 5.5 | 53.0 |
| May 9 | 971 | | | 564 | | | 0 | 3 | -2 | 6 | | 278.1 | 69.4 | 5.0 | 54.0 |
| May 10 | 1,385 | | | 661 | | | 0 | 55 | 18 | 0 | | 273.1 | 71.4 | 5.5 | 55.0 |
| May 11 | 2,257 | | | 926 | | | 0 | 1 | -4 | 2 | | 278.0 | 72.9 | 5.0 | 55.0 |
| May 12 | 1,352 | | | 649 | | | 0 | 1 | 0 | 4 | | 259.6 | 72.1 | 5.0 | 55.0 |
| May 13 | 1,095 | | | 540 | | | 0 | 5 | 1 | 0 | | 259.0 | 68.8 | 5.0 | 55.0 |
| May 14 | 900 | | | 595 | | | 0 | -3 | -2 | 4 | | 283.3 | 73.8 | 5.0 | 55.0 |
| May 15 | 788 | | | 731 | | | 0 | 11 | 2 | 7 | | 278.7 | 67.0 | 5.0 | 55.0 |
| May 16 | 524 | | | 463 | | | 0 | 14 | 7 | 1 | | 244.6 | 65.5 | 5.0 | 56.0 |
| May 17 | 662 | | | 665 | | | 0 | 24 | 4 | 14 | | 265.1 | 67.2 | 5.0 | 56.0 |
| May 18 | 694 | | | 630 | | | 0 | 21 | 16 | 12 | | 252.8 | 59.9 | 4.0 | 56.0 |
| May 19 | 633 | | | 559 | | | 0 | 211 | 41 | 1 | | 258.3 | 63.9 | 4.0 | 57.0 |
| May 20 | 572 | | | 316 | | | 0 | 13 | 5 | 4 | | 264.9 | 66.7 | 5.0 | 56.0 |
| May 21 | 509 | | | 307 | | | 0 | 30 | 6 | 1 | | 262.1 | 61.1 | 5.5 | 56.0 |
| May 22 | 474 | | | 262 | | | 0 | -3 | -2 | 2 | | 261.0 | 66.9 | 5.5 | 56.0 |
| May 23 | 579 | | | 233 | | | 0 | -5 | -5 | 6 | | 255.9 | 63.8 | 5.0 | 57.0 |
| May 24 | 350 | | | 190 | | | 0 | 36 | 8 | 0 | | 254.1 | 58.8 | 5.0 | 57.0 |
| May 25 | 599 | | | 336 | | | 2 | 10 | 0 | -1 | | 251.9 | 70.4 | 5.0 | 57.0 |
| May 26 | 278 | | | 203 | | | 0 | 2 | 1 | 0 | | 244.0 | 64.0 | 5.0 | 58.0 |
| May 27 | 456 | | | 268 | | | 2 | 5 | -1 | 2 | | 218.5 | 61.1 | 5.0 | 57.0 |
| May 28 | 410 | | | 273 | | | 0 | 7 | -1 | 2 | | 254.7 | 67.4 | 5.0 | 57.0 |
| May 29 | 551 | | | 240 | | | 1 | 8 | -2 | 0 | | 227.3 | 62.5 | 6.0 | 59.0 |
| May 30 | 433 | | | 144 | | | 1 | 42 | 11 | -4 | | 233.1 | 60.9 | 6.0 | 58.0 |
| May 31 | 416 | | | 142 | | | 0 | 51 | 7 | 0 | | 238.7 | 61.9 | 4.0 | 60.0 |
| TOTAL | 28,489 | | | 12,407 | | | 6 | 641 | 160 | 64 | | | | | |
| AVG. | 919 | | | 400 | | | 0 | 21 | 5 | 2 | | 258.0 | 66.3 | 5.0 | 55.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | LAMPREY |
|---|---|---|---|---|---|
| SPRING | 41,066 | 12,910 | 2,233 | 825 | 68 |

**Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**

TABLE 49

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 404 | | | 140 | 0 | | 1 | 41 | 2 | 2 | | 228.0 | 51.3 | 5.0 | 60.0 |
| Jun 2 | 422 | | | 95 | 0 | | 16 | 9 | 2 | 4 | | 209.0 | 56.9 | 5.0 | 62.0 |
| Jun 3 | 349 | | | 125 | 0 | | 24 | 15 | -1 | 4 | | 221.6 | 55.1 | 5.0 | 62.0 |
| Jun 4 | 565 | | | 196 | 0 | | 13 | 15 | 1 | 4 | | 222.8 | 48.2 | 5.5 | 61.0 |
| Jun 5 | 573 | | | 197 | 1 | | 32 | 31 | 6 | 7 | | 219.2 | 51.7 | 6.0 | 60.0 |
| Jun 6 | | 626 | | 201 | 0 | | 25 | 19 | 3 | 0 | | 246.3 | 61.2 | 5.5 | 61.0 |
| Jun 7 | | 701 | | 140 | 0 | | 35 | 29 | 0 | 1 | | 218.4 | 59.8 | 6.0 | 60.0 |
| Jun 8 | | 566 | | 115 | 0 | | 39 | 42 | 7 | 2 | | 257.1 | 67.0 | 6.0 | 61.0 |
| Jun 9 | | 575 | | 100 | 0 | | 44 | 20 | 1 | 5 | | 275.2 | 70.5 | 5.5 | 61.0 |
| Jun 10 | | 942 | | 192 | 0 | | 115 | 31 | 0 | 3 | | 229.7 | 59.5 | 6.0 | 60.0 |
| Jun 11 | | 564 | | 158 | 0 | | 118 | 15 | 2 | 2 | | 245.2 | 58.4 | 5.5 | 60.0 |
| Jun 12 | | 666 | | 108 | 0 | | 160 | 44 | 19 | -1 | | 233.4 | 56.6 | 5.0 | 60.0 |
| Jun 13 | | 756 | | 132 | 0 | | 210 | 28 | 1 | 2 | | 243.3 | 64.1 | 5.0 | 61.0 |
| Jun 14 | | 635 | | 177 | 0 | | 322 | 69 | 1 | 2 | | 238.1 | 66.4 | 4.5 | 60.0 |
| Jun 15 | | 923 | | 216 | 0 | | 367 | 93 | 4 | 2 | | 224.2 | 53.1 | 4.0 | 61.0 |
| Jun 16 | | 907 | | 256 | 0 | | 472 | 72 | 12 | 1 | | 214.2 | 49.8 | 4.0 | 61.0 |
| Jun 17 | | 1,252 | | 313 | 0 | | 679 | 135 | 22 | 6 | | 180.0 | 51.8 | 4.5 | 60.0 |
| Jun 18 | | 768 | | 293 | 0 | | 579 | 66 | 4 | 3 | | 222.3 | 57.1 | 4.5 | 61.0 |
| Jun 19 | | 768 | | 161 | 0 | | 635 | 64 | 8 | 2 | | 219.5 | 55.9 | 4.5 | 62.0 |
| Jun 20 | | 847 | | 200 | 0 | | 871 | 128 | 26 | 8 | | 188.6 | 48.9 | 5.0 | 62.0 |
| Jun 21 | | 758 | | 289 | 0 | | 808 | 107 | 19 | 2 | | 177.7 | 45.5 | 5.0 | 61.0 |
| Jun 22 | | 1,339 | | 203 | 0 | | 1,483 | 109 | 18 | 2 | | 192.2 | 44.6 | 4.0 | 61.0 |
| Jun 23 | | 1,141 | | 286 | 0 | | 1,243 | 114 | 11 | 3 | | 196.5 | 48.5 | 3.5 | 60.0 |
| Jun 24 | | 1,500 | | 208 | 0 | | 1,479 | 129 | 14 | 3 | | 161.2 | 41.6 | 5.0 | 61.0 |
| Jun 25 | | 987 | | 206 | 0 | | 1,305 | 82 | 12 | 1 | | 192.7 | 48.2 | 4.5 | 62.0 |
| Jun 26 | | 1,345 | | 378 | 0 | | 1,438 | 136 | 33 | 5 | | 189.4 | 48.4 | 5.5 | 64.0 |
| Jun 27 | | 839 | | 274 | 0 | | 993 | 175 | 39 | 11 | | 165.3 | 43.9 | 4.5 | 64.0 |
| Jun 28 | | 509 | | 400 | 0 | | 875 | 216 | 82 | 13 | | 163.9 | 42.9 | 4.5 | 64.0 |
| Jun 29 | | 851 | | 201 | 0 | | 976 | 206 | 64 | 13 | | 169.9 | 40.0 | 3.5 | 64.0 |
| Jun 30 | | 915 | | 329 | 0 | | 726 | 210 | 64 | 0 | | 182.0 | 42.7 | 3.0 | 64.0 |
| TOTAL | 2,313 | 21,680 | | 6,289 | 1 | | 16,083 | 2,450 | 476 | 112 | | | | | |
| AVG. | 463 | 867 | | 210 | 0 | | 536 | 82 | 16 | 4 | | 210.9 | 53.0 | 4.8 | 61.4 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 21,680 | 5,536 |
| TOTAL | 65,059 | 19,199 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY |
|---|---|---|---|
| 16,089 | 4,683 | 1,301 | 180 |

TABLE 50

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 307 | | 211 | 0 | | 644 | 169 | 66 | 6 | 0 | 143.8 | 43.8 | 5.0 | 66.0 |
| Jul 2 | | 576 | | 267 | 0 | | 912 | 372 | 90 | 12 | 0 | 135.7 | 41.2 | 5.5 | 65.0 |
| Jul 3 | | 1,017 | | 180 | 0 | | 936 | 332 | 91 | 16 | 0 | 168.9 | 50.4 | 5.0 | 68.0 |
| Jul 4 | | 411 | | 133 | 0 | | 576 | 332 | 70 | 15 | 0 | 148.9 | 44.3 | 5.0 | 68.0 |
| Jul 5 | | 517 | | 163 | 0 | | 638 | 308 | 69 | 29 | 0 | 162.3 | 48.7 | 5.0 | 65.0 |
| Jul 6 | | 1,264 | | 394 | 0 | | 630 | 499 | 209 | 40 | 0 | 184.1 | 55.3 | 4.5 | 67.0 |
| Jul 7 | | 452 | | 346 | 0 | | 445 | 470 | 140 | 26 | 0 | 147.4 | 44.2 | 3.5 | 65.0 |
| Jul 8 | | 975 | | 366 | 0 | | 417 | 551 | 211 | 84 | 0 | 157.7 | 47.1 | 5.0 | 67.0 |
| Jul 9 | | 590 | | 283 | 0 | | 326 | 585 | 216 | 123 | 0 | 181.7 | 54.5 | 5.0 | 67.0 |
| Jul 10 | | 254 | | 107 | 0 | | 268 | 251 | 116 | 91 | 1 | 166.0 | 49.7 | 5.5 | 69.0 |
| Jul 11 | | 694 | | 299 | 0 | | 323 | 580 | 205 | 95 | 2 | 178.1 | 54.0 | 5.5 | 69.0 |
| Jul 12 | | 406 | | 192 | 0 | | 276 | 561 | 218 | 105 | 1 | 177.9 | 52.9 | 5.0 | 70.0 |
| Jul 13 | | 539 | | 195 | 0 | | 243 | 490 | 168 | 144 | 1 | 203.3 | 61.0 | 3.5 | 71.0 |
| Jul 14 | | 393 | | 118 | 0 | | 152 | 445 | 209 | 230 | 0 | 204.3 | 61.4 | 3.5 | 69.0 |
| Jul 15 | | 421 | | 205 | 0 | | 168 | 738 | 286 | 166 | 1 | 189.8 | 57.1 | 3.5 | 70.0 |
| Jul 16 | | 473 | | 174 | 0 | | 137 | 540 | 197 | 181 | 1 | 206.1 | 61.8 | 4.5 | 71.0 |
| Jul 17 | | 363 | | 175 | 0 | | 153 | 771 | 346 | 165 | 4 | 160.5 | 48.4 | 5.0 | 70.0 |
| Jul 18 | | 158 | | 102 | 0 | | 120 | 399 | 172 | 170 | 2 | 169.2 | 50.1 | 5.0 | 70.0 |
| Jul 19 | | 243 | | 162 | 0 | | 86 | 444 | 168 | 217 | 1 | 164.7 | 49.4 | 5.0 | 70.0 |
| Jul 20 | | 442 | | 139 | 0 | | 109 | 573 | 235 | 145 | 0 | 153.6 | 46.2 | 5.0 | 70.0 |
| Jul 21 | | 262 | | 118 | 0 | | 51 | 369 | 125 | 132 | 1 | 166.3 | 49.9 | 5.0 | 71.0 |
| Jul 22 | | 290 | | 92 | 0 | | 64 | 593 | 265 | 117 | 2 | 173.8 | 51.8 | 5.0 | 71.0 |
| Jul 23 | | 484 | | 158 | 0 | | 36 | 561 | 216 | 208 | 0 | 160.3 | 48.1 | 5.0 | 70.0 |
| Jul 24 | | 219 | | 178 | 0 | | 46 | 511 | 181 | 125 | 1 | 163.8 | 49.2 | 4.5 | 70.0 |
| Jul 25 | | 331 | | 118 | 1 | | 17 | 980 | 386 | 130 | 1 | 151.1 | 45.3 | 5.5 | 70.0 |
| Jul 26 | | 282 | | 167 | 0 | | 50 | 656 | 228 | 80 | 1 | 168.2 | 50.9 | 4.5 | 71.0 |
| Jul 27 | | 492 | | 122 | 0 | | 40 | 821 | 397 | 130 | 1 | 179.8 | 54.1 | 5.0 | 71.0 |
| Jul 28 | | 244 | | 210 | 0 | | 21 | 600 | 220 | 126 | 0 | 162.5 | 48.6 | 4.0 | 70.0 |
| Jul 29 | | 227 | | 113 | 0 | | 23 | 718 | 249 | 144 | 0 | 140.0 | 42.4 | 4.5 | 71.0 |
| Jul 30 | | 176 | | 173 | 0 | | 42 | 695 | 275 | 106 | 2 | 174.5 | 51.9 | 4.5 | 71.0 |
| Jul 31 | | 121 | | 95 | 0 | | 45 | 583 | 245 | 246 | 2 | 154.1 | 47.2 | 5.5 | 72.0 |
| TOTAL | | 13,623 | | 5,755 | 1 | | 7,994 | 16,497 | 6,269 | 3,604 | 25 | | | | |
| AVG | | 439 | | 186 | 0 | | 258 | 532 | 202 | 116 | 1 | 167.7 | 50.4 | 4.8 | 69.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 35,303 | 11,291 |
| TOTAL | 78,682 | 24,954 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|
| 24,083 | 21,180 | 7,570 | 3,784 | 25 |

TABLE 51

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 360 | | 134 | 0 | 0 | 20 | 734 | 260 | 62 | 1 | 174.8 | 52.1 | 6.0 | 73.0 |
| Aug 2 | | 162 | | 52 | 0 | 0 | 2 | 469 | 182 | 68 | 1 | 187.5 | 56.2 | 5.5 | 71.0 |
| Aug 3 | | 179 | | 66 | 0 | 1 | 9 | 770 | 259 | 54 | 1 | 144.1 | 43.4 | 5.5 | 70.0 |
| Aug 4 | | 102 | | 57 | 0 | 0 | 1 | 523 | 166 | 54 | 1 | 136.8 | 41.1 | 6.0 | 70.0 |
| Aug 5 | | 85 | | 117 | -1 | 0 | 14 | 615 | 208 | 54 | 0 | 136.9 | 41.2 | 4.5 | 71.0 |
| Aug 6 | | | 208 | 66 | 1 | 0 | 12 | 815 | 264 | 72 | 0 | 125.1 | 37.6 | 5.0 | 70.0 |
| Aug 7 | | | 146 | 132 | 1 | 0 | 12 | 986 | 344 | 82 | 0 | 135.9 | 40.6 | 4.5 | 71.0 |
| Aug 8 | | | 130 | 45 | -1 | 0 | 8 | 824 | 325 | 58 | 3 | 145.4 | 43.6 | 4.5 | 70.0 |
| Aug 9 | | | 95 | 53 | 0 | 0 | 15 | 1,351 | 497 | 84 | 3 | 147.4 | 44.5 | 6.0 | 70.0 |
| Aug 10 | | | 225 | 74 | 0 | 0 | 9 | 1,087 | 306 | 59 | 0 | 167.2 | 49.9 | 4.5 | 70.0 |
| Aug 11 | | | 92 | 70 | 0 | 0 | 3 | 796 | 266 | 83 | 1 | 140.7 | 42.2 | 4.5 | 69.0 |
| Aug 12 | | | 108 | 49 | 0 | 0 | 5 | 1,017 | 362 | 39 | 1 | 132.4 | 39.5 | 5.0 | 70.0 |
| Aug 13 | | | 68 | 36 | 0 | 0 | 2 | 759 | 249 | 49 | 0 | 158.2 | 47.1 | 5.0 | 70.0 |
| Aug 14 | | | 136 | 23 | 0 | 0 | 1 | 1,207 | 337 | 75 | 2 | 158.3 | 47.7 | 5.5 | 71.0 |
| Aug 15 | | | 131 | 42 | 0 | 0 | 0 | 1,040 | 333 | 80 | 1 | 150.8 | 45.1 | 5.5 | 70.0 |
| Aug 16 | | | 524 | 122 | 1 | 0 | 5 | 1,784 | 534 | 57 | 1 | 152.1 | 45.5 | 5.0 | 70.0 |
| Aug 17 | | | 123 | 62 | 1 | 1 | 0 | 1,865 | 623 | 64 | 1 | 124.3 | 37.2 | 4.5 | 70.0 |
| Aug 18 | | | 463 | 59 | 7 | 0 | -1 | 2,029 | 587 | 38 | 2 | 119.2 | 36.1 | 4.5 | 71.0 |
| Aug 19 | | | 370 | 54 | 2 | 0 | 1 | 1,728 | 498 | 45 | 0 | 113.7 | 34.2 | 5.5 | 71.0 |
| Aug 20 | | | 322 | 46 | 1 | 0 | 1 | 1,781 | 500 | 4 | 1 | 121.0 | 36.1 | 6.0 | 70.0 |
| Aug 21 | | | 174 | 26 | 0 | 0 | 0 | 1,267 | 412 | 26 | 0 | 114.0 | 34.3 | 6.0 | 70.0 |
| Aug 22 | | | 177 | 74 | 1 | 0 | 3 | 1,500 | 367 | 54 | 1 | 146.8 | 44.1 | 6.0 | 70.0 |
| Aug 23 | | | 225 | 51 | 0 | -1 | 0 | 1,437 | 378 | 42 | 2 | 137.4 | 41.0 | 5.0 | 70.0 |
| Aug 24 | | | 281 | 67 | 1 | 0 | 1 | 2,472 | 570 | 33 | 0 | 124.8 | 37.7 | 5.0 | 70.0 |
| Aug 25 | | | 780 | 105 | 18 | 0 | 0 | 2,203 | 505 | 58 | 0 | 107.6 | 32.3 | 5.0 | 70.0 |
| Aug 26 | | | 774 | 110 | 21 | 7 | -1 | 3,096 | 810 | 44 | 0 | 112.5 | 33.9 | 5.5 | 71.0 |
| Aug 27 | | | 184 | 30 | 17 | 1 | 2 | 1,523 | 293 | 14 | 1 | 115.1 | 34.5 | 5.0 | 71.0 |
| Aug 28 | | | 547 | 109 | 31 | 14 | 0 | 2,016 | 426 | 24 | 1 | 126.8 | 38.7 | 5.0 | 71.0 |
| Aug 29 | | | 744 | 157 | 19 | 5 | 2 | 1,696 | 465 | 25 | 0 | 139.0 | 41.8 | 5.0 | 71.0 |
| Aug 30 | | | 650 | 115 | 57 | 13 | 5 | 1,538 | 440 | 31 | 2 | 142.7 | 42.8 | 5.0 | 72.0 |
| Aug 31 | | | 1,141 | 231 | 23 | 7 | 10 | 2,782 | 680 | 31 | 1 | 141.0 | 42.5 | 5.5 | 70.0 |
| TOTAL | | 888 | 8,818 | 2,434 | 200 | 48 | 141 | 43,710 | 12,446 | 1,563 | 28 | | | | |
| AVG. | | 178 | 339 | 79 | 6 | 2 | 5 | 1,410 | 401 | 50 | 1 | 138.0 | 41.4 | 5.2 | 70.5 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 36,191 | 11,717 |
| FALL | 8,818 | 2,008 |
| TOTAL | 88,388 | 27,388 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|
| 200 | 48 | 24,224 | 64,890 | 20,016 | 5,347 | 53 |

TABLE 52

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 1,972 | 340 | 106 | 45 | 3 | 3,703 | 853 | 24 | 0 | 114.0 | 0.9 | 5.0 | 71.0 |
| Sep 2 | | | 1,871 | 660 | 209 | 117 | 2 | 3,371 | 829 | 12 | 1 | 91.0 | 0.9 | 5.0 | 71.0 |
| Sep 3 | | | 1,470 | 310 | 111 | 53 | 1 | 1,797 | 378 | 12 | -1 | 93.1 | 0.9 | 5.5 | 70.0 |
| Sep 4 | | | 1,451 | 567 | 207 | 54 | 1 | 1,933 | 436 | 17 | 4 | 90.7 | 1.0 | 6.0 | 71.0 |
| Sep 5 | | | 425 | 272 | 78 | 29 | 0 | 794 | 154 | 19 | 0 | 106.2 | 0.9 | 6.5 | 71.0 |
| Sep 6 | | | 1,075 | 677 | 140 | 62 | 0 | 882 | 222 | 15 | 0 | 108.5 | 1.1 | 6.0 | 71.0 |
| Sep 7 | | | 1,351 | 705 | 117 | 44 | 4 | 866 | 217 | 24 | 2 | 79.8 | 0.9 | 6.0 | 70.0 |
| Sep 8 | | | 1,032 | 645 | 212 | 75 | 7 | 1,258 | 282 | 3 | 0 | 75.5 | 0.9 | 6.0 | 70.0 |
| Sep 9 | | | 1,277 | 733 | 142 | 47 | 6 | 2,619 | 679 | 12 | 0 | 63.2 | 0.8 | 6.0 | 70.0 |
| Sep 10 | | | 1,842 | 1129 | 322 | 122 | 4 | 3,986 | 912 | 48 | 0 | 79.1 | 0.9 | 5.5 | 70.0 |
| Sep 11 | | | 3,084 | 1247 | 566 | 107 | 5 | 2,857 | 757 | 8 | 0 | 90.8 | 0.8 | 6.0 | 70.0 |
| Sep 12 | | | 2,026 | 1440 | 286 | 152 | 0 | 3,930 | 844 | 28 | 0 | 88.5 | 0.8 | 6.0 | 70.0 |
| Sep 13 | | | 2,014 | 1046 | 530 | 118 | 0 | 2,932 | 834 | 12 | 2 | 85.0 | 0.8 | 4.5 | 71.0 |
| Sep 14 | | | 841 | 689 | 347 | 114 | 1 | 4,928 | 1,099 | 17 | 0 | 88.8 | 0.8 | 6.0 | 70.0 |
| Sep 15 | | | 2,859 | 1448 | 874 | 278 | 2 | 7,273 | 1,694 | 5 | 0 | 80.4 | 0.8 | 5.5 | 70.0 |
| Sep 16 | | | 1,833 | 679 | 857 | 132 | 1 | 6,303 | 1,612 | 11 | 0 | 65.3 | 0.7 | 5.0 | 68.0 |
| Sep 17 | | | 2,132 | 981 | 1,006 | 168 | -1 | 7,898 | 1,733 | 28 | 2 | 77.4 | 0.8 | 5.5 | 70.0 |
| Sep 18 | | | 1,233 | 545 | 619 | 118 | 2 | 5,149 | 1,147 | 30 | 1 | 78.0 | 0.7 | 6.0 | 69.0 |
| Sep 19 | | | 1,265 | 659 | 494 | 69 | 8 | 4,464 | 1,148 | 6 | 0 | 82.1 | 0.9 | 6.0 | 69.0 |
| Sep 20 | | | 1,249 | 409 | 432 | 52 | 2 | 3,167 | 630 | 13 | 0 | 89.2 | 0.9 | 6.0 | 69.0 |
| Sep 21 | | | 1,521 | 749 | 519 | 122 | 0 | 4,332 | 1,063 | 16 | 0 | 85.1 | 0.8 | 6.0 | 69.0 |
| Sep 22 | | | 2,710 | 1110 | 586 | 166 | 0 | 6,085 | 1,231 | 9 | 0 | 69.1 | 0.8 | 6.0 | 69.0 |
| Sep 23 | | | 4,254 | 2162 | 1,369 | 385 | 0 | 7,164 | 1,652 | 3 | 0 | 56.2 | 0.9 | 4.5 | 67.0 |
| Sep 24 | | | 2,840 | 2442 | 931 | 400 | 0 | 5,780 | 1,269 | 6 | 0 | 66.5 | 0.8 | 6.0 | 67.0 |
| Sep 25 | | | 3,103 | 2618 | 1,793 | 583 | 0 | 7,021 | 1,609 | 0 | 0 | 84.0 | 0.7 | 6.0 | 68.0 |
| Sep 26 | | | 2,028 | 1079 | 1,462 | 372 | 0 | 5,548 | 1,267 | -5 | 0 | 88.4 | 0.7 | 5.5 | 67.0 |
| Sep 27 | | | 1,436 | 858 | 939 | 263 | 0 | 3,761 | 875 | 5 | 0 | 77.0 | 0.7 | 5.5 | 68.0 |
| Sep 28 | | | 1,410 | 882 | 709 | 115 | 6 | 3,796 | 1,024 | -5 | 2 | 62.8 | 0.8 | 6.0 | 66.0 |
| Sep 29 | | | 901 | 936 | 609 | 93 | -1 | 3,918 | 965 | 3 | 0 | 63.9 | 0.7 | 5.5 | 65.0 |
| Sep 30 | | | 305 | 264 | 139 | 13 | 0 | 1,984 | 485 | 1 | 0 | 60.2 | 0.8 | 6.0 | 63.0 |
| TOTAL | | | 52,810 | 28,281 | 16,711 | 4,468 | 53 | 119,499 | 27,900 | 377 | 13 | | | | |
| AVG. | | | 1,760 | 943 | 557 | 149 | 2 | 3,983 | 930 | 13 | 0 | 81.3 | 0.8 | 5.7 | 69.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 36,191 | 11,717 |
| FALL | 61,628 | 30,289 |
| TOTAL | 141,198 | 55,669 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|
| 16,911 | 4,516 | 24,277 | 184,389 | 47,916 | 5,724 | 66 |

TABLE 53

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 931 | 581 | 539 | 62 | | 3,134 | 799 | 9 | 1 | 70.6 | 0.7 | 5.5 | 64.0 |
| Oct 2 | | | 828 | 602 | 844 | 118 | | 2,501 | 663 | 1 | 0 | 89.4 | 0.7 | 6.0 | 64.0 |
| Oct 3 | | | 1,113 | 528 | 1,465 | 209 | | 4,554 | 1,157 | 2 | 0 | 77.5 | 0.7 | 6.0 | 64.0 |
| Oct 4 | | | 487 | 268 | 1,612 | 215 | | 2,550 | 767 | 2 | 0 | 98.9 | 0.7 | 6.0 | 64.0 |
| Oct 5 | | | 593 | 272 | 1,692 | 125 | | 2,219 | 534 | 1 | 0 | 89.0 | 0.7 | 5.5 | 64.0 |
| Oct 6 | | | 519 | 222 | 2,015 | 180 | | 2,775 | 712 | -6 | 0 | 85.9 | 0.7 | 6.0 | 63.0 |
| Oct 7 | | | 304 | 178 | 942 | 121 | | 1,870 | 550 | -2 | 0 | 63.5 | 0.8 | 5.5 | 63.0 |
| Oct 8 | | | 540 | 285 | 638 | 76 | | 1,549 | 371 | 1 | 0 | 79.5 | 0.9 | 6.0 | 62.0 |
| Oct 9 | | | 287 | 250 | 328 | 58 | | 1,329 | 421 | 2 | 0 | 96.9 | 0.8 | 6.0 | 62.0 |
| Oct 10 | | | 364 | 129 | 184 | 41 | | 922 | 213 | -3 | 0 | 95.5 | 0.8 | 5.5 | 62.0 |
| Oct 11 | | | 443 | 306 | 247 | 52 | | 1,076 | 302 | 2 | 0 | 104.6 | 0.7 | 6.0 | 61.0 |
| Oct 12 | | | 407 | 149 | 287 | 66 | | 979 | 258 | 1 | 0 | 108.2 | 0.7 | 6.0 | 61.0 |
| Oct 13 | | | 516 | 331 | 179 | 38 | | 1,138 | 256 | -1 | 0 | 89.7 | 0.8 | 6.0 | 61.0 |
| Oct 14 | | | 623 | 214 | 293 | 9 | | 914 | 268 | 1 | 1 | 78.2 | 0.8 | 6.0 | 59.0 |
| Oct 15 | | | 483 | 227 | 189 | 25 | | 1,173 | 289 | 4 | 0 | 78.8 | 0.7 | 5.5 | 59.0 |
| Oct 16 | | | 359 | 95 | 166 | 15 | | 845 | 211 | 2 | 0 | 87.3 | 0.7 | 6.0 | 60.0 |
| Oct 17 | | | 227 | 159 | 79 | 6 | | 863 | 232 | 2 | 0 | 81.7 | 0.8 | 6.0 | 60.0 |
| Oct 18 | | | 275 | 109 | 136 | 14 | | 699 | 215 | 1 | 0 | 120.1 | 0.8 | 6.0 | 61.0 |
| Oct 19 | | | 370 | 114 | 251 | 12 | | 881 | 294 | 1 | 2 | 76.1 | 0.7 | 6.0 | 61.0 |
| Oct 20 | | | 413 | 136 | 648 | 33 | | 1,236 | 418 | 1 | 0 | 80.7 | 0.7 | 6.0 | 61.0 |
| Oct 21 | | | 391 | 111 | 1,563 | 67 | | 2,236 | 824 | 0 | 0 | 92.9 | 0.6 | 6.0 | 59.0 |
| Oct 22 | | | 215 | 70 | 927 | 95 | | 2,286 | 885 | -1 | 0 | 84.0 | 0.7 | 6.0 | 59.0 |
| Oct 23 | | | 159 | 61 | 423 | 18 | | 1,368 | 456 | 0 | 0 | 97.2 | 0.6 | 6.0 | 59.0 |
| Oct 24 | | | 122 | 53 | 142 | 14 | | 1,125 | 399 | 1 | 0 | 92.1 | 0.7 | 6.0 | 59.0 |
| Oct 25 | | | 184 | 62 | 141 | 7 | | 865 | 282 | 0 | 0 | 96.9 | 0.8 | 6.0 | 59.0 |
| Oct 26 | | | 54 | 26 | 37 | 2 | | 335 | 124 | 0 | 0 | 91.4 | 0.8 | 6.0 | 58.0 |
| Oct 27 | | | 207 | 35 | 40 | 4 | | 469 | 134 | 0 | 0 | 94.9 | 0.8 | 6.0 | 58.0 |
| Oct 28 | | | 41 | 19 | 26 | 1 | | 231 | 54 | 1 | 0 | 66.9 | 0.0 | 6.0 | 57.0 |
| Oct 29 | | | 237 | 21 | 45 | 5 | | 240 | 45 | 0 | 0 | 96.4 | 0.7 | 6.0 | 57.0 |
| Oct 30 | | | 54 | 16 | 3 | 3 | | 241 | 72 | -1 | 0 | 90.0 | 0.8 | 6.0 | 57.0 |
| Oct 31 | | | 69 | 18 | 25 | 2 | | 206 | 54 | -1 | 0 | 91.5 | 0.7 | 6.0 | 57.0 |
| TOTAL | | | 11,815 | 5,647 | 16,106 | 1,693 | | 42,809 | 12,259 | 20 | 4 | | | | |
| AVG. | | | 381 | 182 | 520 | 55 | | 1,381 | 395 | 1 | 0 | 88.6 | 0.7 | 5.9 | 60.5 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 36,191 | 11,717 |
| FALL | 73,443 | 35,936 |
| TOTAL | 153,013 | 61,316 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|
| 33,017 | 6,209 | 24,277 | 227,198 | 60,175 | 5,744 | 70 |

**Note: Visual counts ended October 31.**

TABLE 54

**MONTHLY FISH PASSAGE SUMMARY REPORT** **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 61 | 17 | 20 | 0 | | 166 | 55 | 15 | | 92.5 | 0.0 | 6.0 | 57.0 |
| Nov 2 | | | 73 | 27 | 15 | 0 | | 164 | 26 | 2 | | 91.6 | 0.6 | 6.0 | 57.0 |
| Nov 3 | | | 36 | 17 | 11 | 0 | | 155 | 38 | 0 | | 89.5 | 0.7 | 6.0 | 56.0 |
| Nov 4 | | | 50 | 26 | 16 | 1 | | 145 | 43 | 0 | | 68.6 | 0.6 | 5.0 | 56.0 |
| Nov 5 | | | 37 | 13 | 21 | 0 | | 106 | 45 | -12 | | 103.0 | 0.6 | 6.0 | 56.0 |
| Nov 6 | | | 34 | 6 | 15 | 0 | | 108 | 24 | -1 | | 105.7 | 0.6 | 5.5 | 55.0 |
| Nov 7 | | | 33 | 21 | 10 | 0 | | 165 | 46 | 3 | | 96.6 | 0.8 | 6.0 | 55.0 |
| Nov 8 | | | 42 | 16 | 1 | 0 | | 193 | 29 | 0 | | 75.5 | 0.6 | 5.5 | 54.0 |
| Nov 9 | | | 41 | 12 | 2 | 0 | | 182 | 17 | 0 | | 75.6 | 0.8 | 6.0 | 55.0 |
| Nov 10 | | | 28 | 12 | 7 | 1 | | 81 | 19 | -1 | | 112.5 | 0.6 | 6.0 | 55.0 |
| Nov 11 | | | 43 | 17 | 5 | 0 | | 171 | 36 | -1 | | 114.2 | 0.6 | 6.0 | 55.0 |
| Nov 12 | | | 31 | 10 | 10 | 0 | | 130 | 24 | 0 | | 117.4 | 0.7 | 6.0 | 55.0 |
| Nov 13 | | | 32 | 6 | 8 | 0 | | 123 | 37 | 0 | | 117.2 | 0.7 | 5.5 | 54.0 |
| Nov 14 | | | 29 | 6 | 3 | 0 | | 91 | 13 | 0 | | 115.1 | 0.6 | 5.5 | 54.0 |
| Nov 15 | | | 25 | 6 | 10 | 0 | | 177 | 29 | 0 | | 115.2 | 0.7 | 6.0 | 53.0 |
| Nov 16 | | | 47 | 17 | 3 | 0 | | 202 | 28 | 0 | | 121.8 | 0.6 | 6.0 | 53.0 |
| Nov 17 | | | 38 | 11 | 4 | 2 | | 134 | 21 | -1 | | 103.6 | 0.7 | 6.0 | 53.0 |
| Nov 18 | | | 49 | 13 | 1 | 0 | | 145 | 26 | 0 | | 100.5 | 0.5 | 6.0 | 53.0 |
| Nov 19 | | | 25 | 11 | -1 | 0 | | 441 | 149 | 0 | | 97.4 | 0.6 | 6.0 | 52.0 |
| Nov 20 | | | 22 | 0 | 5 | 0 | | 698 | 254 | 0 | | 92.4 | 0.6 | 6.0 | 52.0 |
| Nov 21 | | | 16 | 1 | 5 | 0 | | 516 | 156 | 0 | | 122.8 | 0.7 | 6.0 | 52.0 |
| Nov 22 | | | 3 | 1 | 3 | 0 | | 321 | 93 | 0 | | 102.3 | 0.6 | 6.0 | 51.0 |
| Nov 23 | | | 8 | 3 | 4 | 0 | | 144 | 55 | 0 | | 115.1 | 0.6 | 6.0 | 51.0 |
| Nov 24 | | | 34 | 9 | 7 | 0 | | 224 | 37 | 0 | | 116.6 | 0.6 | 6.0 | 51.0 |
| Nov 25 | | | 17 | 4 | 1 | 1 | | 99 | 15 | 4 | | 108.0 | 0.6 | 6.0 | 48.0 |
| Nov 26 | | | 33 | 4 | 1 | 0 | | 103 | 35 | 0 | | 122.5 | 0.7 | 6.0 | 49.0 |
| Nov 27 | | | 32 | 5 | 0 | 1 | | 98 | 21 | 0 | | 121.1 | 0.6 | 6.0 | 49.0 |
| Nov 28 | | | 20 | 2 | 0 | 0 | | 104 | 17 | 0 | | 113.9 | 0.6 | 6.0 | 49.0 |
| Nov 29 | | | 15 | 4 | 0 | 0 | | 59 | 10 | 0 | | 123.2 | 0.0 | 6.0 | 49.0 |
| Nov 30 | | | 3 | 2 | 0 | 0 | | 64 | 16 | 1 | | 128.4 | 0.6 | 6.0 | 49.0 |
| TOTAL | | | 957 | 299 | 187 | 6 | | 5,509 | 1,414 | 9 | | | | | |
| AVG. | | | 32 | 10 | 6 | 0 | | 184 | 47 | 0 | | 106.0 | 0.6 | 5.9 | 52.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 36,191 | 11,717 |
| FALL | 73,443 | 35,936 |
| TOTAL | 153,013 | 61,316 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|
| 33,017 | 6,209 | 24,277 | 227,198 | 60,175 | 5,744 | 70 |

**Note: From November 1 to December 7, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.**
**Video disruption occurred resulting in 2 hours of loss on 11/25, 3 hours of loss on 11/26, and 1 hour of loss on 11/27.**
**Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals.**

TABLE 55

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **JOHN DAY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **DECEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Dec 1 | | | 15 | 1 | | | | 29 | 10 | | | 119.2 | 0.0 | 6.0 | 48.0 |
| Dec 2 | | | 2 | 2 | | | | 17 | 1 | | | 102.6 | 0.0 | 6.0 | 46.9 |
| Dec 3 | | | 1 | 1 | | | | 9 | 0 | | | 98.1 | 0.0 | 6.0 | 46.9 |
| Dec 4 | | | -1 | -1 | | | | -1 | 0 | | | 99.5 | 0.0 | 6.0 | 46.9 |
| Dec 5 | | | 29 | 0 | | | | 137 | 41 | | | 126.5 | 0.0 | 5.5 | 46.9 |
| Dec 6 | | | 21 | 2 | | | | 88 | 25 | | | 116.1 | 0.0 | 5.5 | 46.9 |
| Dec 7 | | | 183 | 33 | | | | 547 | 161 | | | 99.4 | 0.0 | 5.5 | 46.0 |
| Dec 8 | | | | | | | | | | | | 112.3 | 0.0 | 5.5 | 46.0 |
| Dec 9 | | | | | | | | | | | | 131.2 | 0.0 | 5.5 | 46.0 |
| Dec 10 | | | | | | | | | | | | 135.3 | 0.0 | 6.0 | 46.0 |
| Dec 11 | | | | | | | | | | | | 159.7 | 0.0 | 6.0 | 46.0 |
| Dec 12 | | | | | | | | | | | | 122.3 | 0.0 | 6.0 | 45.0 |
| Dec 13 | | | | | | | | | | | | 110.5 | 0.0 | 6.0 | 45.0 |
| Dec 14 | | | | | | | | | | | | 146.3 | 0.0 | 5.0 | 45.0 |
| Dec 15 | | | | | | | | | | | | 122.4 | 0.0 | 6.0 | 45.0 |
| Dec 16 | | | | | | | | | | | | 99.9 | 0.0 | 6.0 | 44.1 |
| Dec 17 | | | | | | | | | | | | 105.5 | 0.0 | 6.0 | 44.1 |
| Dec 18 | | | | | | | | | | | | 116.8 | 0.0 | 6.0 | 44.1 |
| Dec 19 | | | | | | | | | | | | 103.5 | 0.0 | 6.0 | 44.1 |
| Dec 20 | | | | | | | | | | | | 113.8 | 0.0 | 6.0 | 44.1 |
| Dec 21 | | | | | | | | | | | | 135.1 | 0.0 | 6.0 | 44.1 |
| Dec 22 | | | | | | | | | | | | 125.5 | 0.0 | 6.0 | 44.1 |
| Dec 23 | | | | | | | | | | | | 139.6 | 0.0 | 5.5 | 42.0 |
| Dec 24 | | | | | | | | | | | | 110.7 | 0.0 | 6.0 | 42.0 |
| Dec 25 | | | | | | | | | | | | 123.2 | 0.0 | 5.0 | 42.0 |
| Dec 26 | | | | | | | | | | | | 102.2 | 0.0 | 6.0 | 43.0 |
| Dec 27 | | | | | | | | | | | | 161.7 | 0.0 | 6.0 | 43.0 |
| Dec 28 | | | | | | | | | | | | 161.4 | 0.0 | 6.0 | 43.0 |
| Dec 29 | | | | | | | | | | | | 136.2 | 0.0 | 6.0 | 42.0 |
| Dec 30 | | | | | | | | | | | | 104.7 | 0.0 | 6.0 | 42.0 |
| Dec 31 | | | | | | | | | | | | 108.0 | 0.0 | 6.0 | 41.0 |
| TOTAL | | | 250 | 38 | | | | 826 | 238 | | | | | | |
| AVG. | | | 36 | 5 | | | | 118 | 34 | | | 120.9 | 0.0 | 5.8 | 44.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 43,379 | 13,663 |
| SUMMER | 36,191 | 11,717 |
| FALL | 73,443 | 35,936 |
| TOTAL | 153,013 | 61,316 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|
| 33,017 | 6,209 | 24,277 | 227,198 | 60,175 | 5,744 | 70 |

Note: From November 1 to December 7, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals.

TABLE 56

**YEARLY TOTALS OF SALMONIDS COUNTED OVER JOHN DAY DAM 1968 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTAL |
|---|---|---|---|---|---|
| 1968 | 233,654 | 121,256 | 87,847 | 38,233 | 480,990 |
| 1969 | 276,051 | 86,348 | 39,847 | 13,589 | 415,835 |
| 1970 | 222,506 | 82,440 | 78,133 | 19,543 | 402,622 |
| 1971 | 193,881 | 115,977 | 72,232 | 40,830 | 422,920 |
| 1972 | 225,631 | 141,628 | 51,793 | 17,533 | 436,585 |
| 1973 | 249,492 | 101,440 | 64,744 | 13,359 | 429,035 |
| 1974 | 167,888 | 43,756 | 33,121 | 14,651 | 259,416 |
| 1975 | 159,079 | 32,651 | 50,774 | 6,305 | 248,809 |
| 1976 | 175,911 | 59,808 | 30,446 | 5,806 | 271,971 |
| 1977 | 194,931 | 102,558 | 85,701 | 1,123 | 384,313 |
| 1978 | 174,852 | 44,188 | 13,778 | 8,355 | 241,173 |
| 1979 | 118,154 | 55,877 | 43,630 | 5,061 | 222,722 |
| 1980 | 100,664 | 78,199 | 50,675 | 1,924 | 231,462 |
| 1981 | 114,359 | 95,172 | 46,146 | 2,562 | 258,239 |
| 1982 | 144,082 | 108,603 | 37,970 | 4,063 | 294,718 |
| 1983 | 139,866 | 154,425 | 91,917 | 1,640 | 387,848 |
| 1984 | 188,373 | 201,154 | 107,951 | 2,080 | 499,558 |
| 1985 | 337,624 | 247,093 | 124,941 | 1,652 | 711,310 |
| 1986 | 346,700 | 238,010 | 46,327 | 1,933 | 632,970 |
| 1987 | 327,752 | 170,654 | 75,529 | 3,355 | 577,290 |
| 1988 | 277,251 | 164,650 | 48,095 | 6,813 | 496,809 |
| 1989 | 208,254 | 193,460 | 39,374 | 9,663 | 450,751 |
| 1990 | 156,313 | 107,849 | 42,077 | 3,023 | 309,262 |
| 1991 | 118,921 | 160,257 | 63,760 | 8,021 | 350,959 |
| 1992 | 132,025 | 195,194 | 69,731 | 2,633 | 399,583 |
| 1993 | 141,705 | 95,642 | 61,218 | 2,995 | 301,560 |
| 1994 | 126,645 | 93,075 | 11,170 | 2,842 | 233,732 |
| 1995 | 107,277 | 123,246 | 8,667 | 2,117 | 241,307 |
| 1996 | 130,602 | 156,002 | 25,698 | 4,279 | 316,581 |
| 1997 | 185,240 | 157,038 | 35,830 | 4,229 | 382,337 |
| 1998 | 130,028 | 158,547 | 9,837 | 8,497 | 306,909 |
| 1999 | 163,282 | 165,314 | 14,809 | 13,232 | 356,638 |
| 2000 | 269,371 | 220,328 | 88,372 | 23,969 | 602,040 |
| 2001 | 510,987 | 483,409 | 107,869 | 51,181 | 1,153,446 |
| 2002 | 447,729 | 390,300 | 41,915 | 9,272 | 889,216 |
| 2003 | 467,116 | 286,176 | 35,417 | 38,577 | 827,286 |
| 2004 | 447,891 | 233,431 | 113,497 | 35,522 | 830,341 |
| 2005 | 322,991 | 232,103 | 69,770 | 36,205 | 661,081 |
| 2006 | 290,161 | 231,355 | 35,387 | 38,374 | 595,281 |
| 2007 | 215,876 | 237,517 | 24,277 | 39,421 | 517,091 |
| TOTALS | 8,941,115 | 6,366,130 | 2,180,272 | 544,462 | 18,031,996 |
| 10-Year Average | 326,543 | 263,848 | 54,115 | 29,425 | 673,933 |

*Jacks included
1999 - Total includes 1 pink
2005 - Total includes 12 pinks
2006 - Total includes 1 chum and 3 pinks

**MONTHLY COUNT OF CHINOOK SALMON**
**JOHN DAY DAM 1968 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING Apr 1-Jun 5 | SUMMER Jun 6-Aug 5 | FALL Aug 6-Oct 31 | JACKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | | | | 29,973 | 46,272 | 30,702 | 42,212 | 16,726 | 62,709 | 4,851 | 209 | | 233,654 | 77,482 | 75,494 | 80,678 | 67,284 |
| 1969 | | | 6 | 4,266 | 72,966 | 35,899 | 31,071 | 18,523 | 103,778 | 9,542 | | | 276,051 | 81,724 | 64,732 | 129,595 | 93,928 |
| 1970 | | | | 35,750 | 35,248 | 20,439 | 21,542 | 24,784 | 80,969 | 3,774 | | | 222,506 | 72,555 | 43,093 | 106,858 | 74,090 |
| 1971 | | | | 13,995 | 40,620 | 24,364 | 25,692 | 10,403 | 73,157 | 5,650 | | | 193,881 | 56,625 | 50,030 | 87,226 | 61,380 |
| 1972 | | | | 28,535 | 41,882 | 15,833 | 27,484 | 14,208 | 90,181 | 7,508 | | | 225,631 | 71,569 | 44,542 | 109,520 | 82,646 |
| 1973 | | | | 67,467 | 27,091 | 18,972 | 15,067 | 16,995 | 89,913 | 13,987 | | | 249,492 | 96,710 | 34,206 | 118,576 | 73,687 |
| 1974 | | | | 5,174 | 38,058 | 8,115 | 18,985 | 8,112 | 77,296 | 12,148 | | | 167,888 | 46,191 | 25,865 | 95,832 | 61,669 |
| 1975 | | | | 7,727 | 27,989 | 11,058 | 21,359 | 18,250 | 65,367 | 7,329 | | | 159,079 | 37,716 | 32,179 | 89,184 | 62,403 |
| 1976 | | | | 10,428 | 32,985 | 17,836 | 18,506 | 10,114 | 72,467 | 13,575 | | | 175,911 | 45,419 | 36,037 | 94,455 | 62,793 |
| 1977 | | | | 55,061 | 19,422 | 15,674 | 13,764 | 7,853 | 71,302 | 11,855 | | | 194,931 | 75,782 | 29,194 | 89,955 | 60,386 |
| 1978 | | | | 34,735 | 35,206 | 15,104 | 16,764 | 8,149 | 52,975 | 11,919 | | | 174,852 | 72,723 | 30,371 | 71,758 | 36,289 |
| 1979 | | | | 8,224 | 12,568 | 9,537 | 13,580 | 14,128 | 50,977 | 8,566 | 574 | | 118,154 | 21,981 | 23,572 | 72,601 | 41,364 |
| 1980 | | | | 7,995 | 18,311 | 7,125 | 12,522 | 9,063 | 37,023 | 8,625 | | | 100,664 | 27,202 | 19,664 | 53,798 | 25,877 |
| 1981 | | | | 18,178 | 18,325 | 7,292 | 8,992 | 8,524 | 44,626 | 8,422 | | | 114,359 | 37,677 | 15,813 | 60,869 | 34,547 |
| 1982 | | | | 3,396 | 30,444 | 11,031 | 7,359 | 10,881 | 67,271 | 13,700 | | | 144,082 | 36,530 | 16,360 | 91,192 | 56,966 |
| 1983 | | | | 7,123 | 25,391 | 7,990 | 7,064 | 8,195 | 66,078 | 18,025 | | | 139,866 | 33,480 | 14,834 | 91,552 | 43,440 |
| 1984 | | | | 4,329 | 26,561 | 9,706 | 12,892 | 15,422 | 96,399 | 22,255 | 809 | | 188,373 | 32,035 | 22,795 | 133,543 | 69,874 |
| 1985 | | | | 27,539 | 42,487 | 15,585 | 9,663 | 27,387 | 178,322 | 34,192 | 2,449 | | 337,624 | 72,389 | 23,489 | 241,746 | 149,281 |
| 1986 | | | 21 | 38,075 | 37,959 | 13,227 | 9,703 | 10,797 | 194,928 | 41,990 | | | 346,700 | 77,884 | 22,051 | 246,765 | 133,827 |
| 1987 | | | | 33,985 | 26,852 | 13,641 | 8,948 | 24,363 | 196,596 | 23,367 | | | 327,752 | 62,313 | 22,244 | 243,195 | 53,794 |
| 1988 | | | | 33,323 | 20,170 | 14,731 | 9,648 | 37,002 | 147,553 | 14,824 | | | 277,251 | 55,195 | 23,569 | 198,487 | 51,330 |
| 1989 | | | | 12,510 | 23,983 | 12,793 | 10,124 | 35,985 | 101,794 | 11,065 | | | 208,254 | 37,773 | 23,868 | 146,613 | 25,092 |
| 1990 | | | | 23,689 | 18,854 | 11,209 | 9,199 | 13,542 | 71,508 | 8,312 | | | 156,313 | 43,127 | 20,532 | 92,654 | 22,195 |
| 1991 | | | | 7,419 | 13,668 | 8,868 | 8,390 | 4,879 | 64,950 | 10,747 | | | 118,921 | 21,847 | 16,872 | 80,202 | 28,646 |
| 1992 | | | | 27,538 | 16,623 | 9,452 | 5,263 | 7,677 | 58,140 | 7,332 | | | 132,025 | 45,457 | 13,910 | 72,658 | 22,084 |
| 1993 | | | | 26,309 | 28,204 | 13,295 | 6,311 | 10,703 | 51,667 | 5,216 | | | 141,705 | 56,144 | 18,364 | 67,197 | 9,621 |
| 1994 | | | | 4,436 | 4,937 | 6,305 | 6,397 | 13,345 | 79,538 | 11,687 | | | 126,645 | 9,745 | 12,935 | 103,965 | 18,867 |
| 1995 | | | | 2,034 | 3,378 | 4,977 | 6,273 | 14,694 | 61,273 | 14,648 | | | 107,277 | 5,776 | 11,476 | 90,025 | 24,192 |
| 1996 | | | | 1,860 | 18,616 | 7,419 | 6,356 | 18,550 | 68,198 | 9,603 | | | 130,602 | 21,599 | 13,148 | 95,855 | 12,071 |
| 1997 | | | | 13,579 | 45,408 | 16,551 | 8,328 | 10,355 | 81,039 | 9,980 | | | 185,240 | 62,580 | 21,769 | 100,891 | 1,588 |
| 1998 | | | | 9,279 | 12,439 | 10,076 | 7,535 | 11,073 | 62,107 | 17,519 | | | 130,028 | 22,177 | 17,780 | 90,071 | 13,745 |
| 1999 | | | | 3,008 | 16,517 | 10,206 | 14,226 | 20,201 | 86,380 | 12,744 | | | 163,282 | 20,498 | 24,714 | 118,070 | 19,611 |
| 2000 | | | | 48,176 | 47,705 | 19,201 | 13,579 | 44,377 | 86,737 | 9,596 | | | 269,371 | 98,710 | 31,056 | 139,605 | 56,892 |
| 2001 | | | | 187,104 | 74,233 | 46,449 | 33,904 | 20,506 | 128,230 | 20,561 | | | 510,987 | 270,385 | 74,235 | 166,367 | 57,877 |
| 2002 | | | | 36,677 | 99,270 | 69,941 | 44,890 | 37,086 | 143,126 | 16,739 | | | 447,729 | 142,290 | 110,969 | 194,470 | 37,568 |
| 2003 | | | 3,951 | 61,184 | 45,880 | 62,159 | 45,782 | 22,222 | 201,192 | 28,666 | 1,238 | 66 | 472,340 | 111,642 | 105,615 | 249,828 | 54,680 |
| 2004 | | | 127 | 62,999 | 50,288 | 55,728 | 30,998 | 24,383 | 192,606 | 29,301 | 1,410 | 51 | 447,891 | 118,520 | 83,060 | 244,723 | 47,708 |
| 2005 | | | 15 | 13,680 | 39,563 | 45,107 | 28,340 | 15,637 | 158,917 | 21,319 | 411 | 2 | 322,991 | 58,742 | 69,439 | 194,382 | 37,622 |
| 2006 | | | | 420 | 49,051 | 50,206 | 28,688 | 14,821 | 118,233 | 27,015 | 1,710 | 17 | 290,161 | 52,406 | 77,964 | 158,064 | 28,507 |
| 2007 | | | 3 | 13,080 | 40,896 | 30,282 | 19,378 | 12,140 | 81,091 | 17,462 | 1,256 | 288 | 215,876 | 57,042 | 47,908 | 109,379 | 61,316 |
| TOTAL | | | 4,123 | 1,030,259 | 1,326,320 | 814,085 | 686,778 | 672,055 | 3,816,613 | 585,616 | 10,066 | | 8,946,339 | 2,447,642 | 1,465,748 | 5,022,404 | 1,976,737 |
| 10-Year Average | | | | 43,561 | 47,584 | 39,936 | 26,732 | 22,245 | 125,862 | 20,092 | | | 327,066 | 95,241 | 64,274 | 166,496 | 41,553 |

*Jacks included

TABLE 58

**MONTHLY COUNT OF SOCKEYE SALMON**
**JOHN DAY DAM**
**1968 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | | | | | | 42,175 | 44,942 | 690 | 32 | 7 | 1 | | 87,847 |
| 1969 | | | | | | 13,383 | 26,174 | 245 | 37 | 8 | | | 39,847 |
| 1970 | | | | | | 18,029 | 58,176 | 1,909 | 19 | | | | 78,133 |
| 1971 | | | | | | 5,219 | 66,183 | 787 | 38 | 5 | | | 72,232 |
| 1972 | | | | | | 6,762 | 43,704 | 1,257 | 68 | 2 | | | 51,793 |
| 1973 | | | | | 2 | 21,283 | 42,588 | 864 | 6 | 1 | | | 64,744 |
| 1974 | | | | | | 2,024 | 30,687 | 403 | 6 | 1 | | | 33,121 |
| 1975 | | | | | | 6,154 | 44,454 | 163 | 2 | 1 | | | 50,774 |
| 1976 | | | | | | 8,907 | 21,278 | 258 | 1 | 2 | | | 30,446 |
| 1977 | | | | | 6 | 52,852 | 32,269 | 537 | 34 | 3 | | | 85,701 |
| 1978 | | | | | | 5,633 | 8,006 | 119 | 20 | | | | 13,778 |
| 1979 | | | | | | 13,466 | 29,603 | 560 | 1 | | | | 43,630 |
| 1980 | | | | | | 9,596 | 40,536 | 530 | 13 | | | | 50,675 |
| 1981 | | | | | | 17,064 | 28,975 | 94 | 13 | | | | 46,146 |
| 1982 | | | | | | 8,708 | 28,974 | 286 | 2 | | | | 37,970 |
| 1983 | | | | | | 27,372 | 63,995 | 506 | 37 | 7 | | | 91,917 |
| 1984 | | | | | | 54,975 | 51,728 | 1,230 | 16 | 2 | | | 107,951 |
| 1985 | | | | | | 78,326 | 46,184 | 421 | 10 | | | | 124,941 |
| 1986 | | | | | | 13,472 | 32,116 | 738 | 0 | 1 | | | 46,327 |
| 1987 | | | | | | 35,022 | 39,983 | 513 | 11 | | | | 75,529 |
| 1988 | | | | | | 25,001 | 22,855 | 225 | 12 | 2 | | | 48,095 |
| 1989 | | | | | | 18,883 | 20,330 | 148 | 12 | 1 | | | 39,374 |
| 1990 | | | | | 1 | 15,247 | 26,580 | 245 | 4 | | | | 42,077 |
| 1991 | | | | | | 10,917 | 52,130 | 699 | 9 | 5 | | | 63,760 |
| 1992 | | | | | 1 | 38,618 | 30,788 | 303 | 20 | 1 | | | 69,731 |
| 1993 | | | | | 1 | 30,668 | 30,348 | 198 | 2 | 1 | | | 61,218 |
| 1994 | | | | | | 7,004 | 4,141 | 22 | 2 | 1 | | | 11,170 |
| 1995 | | | | | 1 | 4,242 | 4,352 | 71 | 1 | | | | 8,667 |
| 1996 | | | | | | 15,316 | 10,323 | 59 | 0 | | | | 25,698 |
| 1997 | | | | | 10 | 11,605 | 23,604 | 603 | 4 | 4 | | | 35,830 |
| 1998 | | | | | | 4,371 | 5,314 | 131 | 19 | 2 | | | 9,837 |
| 1999 | | | | | 1 | 4,803 | 9,910 | 88 | 2 | 5 | | | 14,809 |
| 2000 | | | | | 15 | 73,119 | 15,122 | 108 | 7 | 1 | | | 88,372 |
| 2001 | | | | | 7 | 86,624 | 21,062 | 100 | 75 | 1 | | | 107,869 |
| 2002 | | | | | 1 | 20,044 | 21,772 | 96 | 1 | 1 | | | 41,915 |
| 2003 | | | | | | 19,260 | 16,004 | 151 | 2 | | | | 35,417 |
| 2004 | | | | | 34 | 84,659 | 28,663 | 133 | 5 | 3 | | | 113,497 |
| 2005 | | | | | -3 | 35,616 | 33,988 | 162 | 6 | 1 | | | 69,770 |
| 2006 | | | | | | 20,279 | 14,949 | 154 | 5 | | | | 35,387 |
| 2007 | | | | | 6 | 16,083 | 7,994 | 141 | 53 | 0 | | | 24,277 |
| TOTAL | | | | | 83 | 982,781 | 1,180,784 | 15,947 | 607 | 69 | 1 | | 2,180,272 |
| 10-Year Average | | | | | | 36,486 | 17,478 | 126 | 18 | | | | 54,115 |

TABLE 59

**MONTHLY COUNT OF COHO SALMON**
**JOHN DAY DAM 1968 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | | | | | | | 4 | 1,311 | 32,882 | 3,848 | 188 | | 38,233 |
| 1969 | | | | | | | 25 | 308 | 9,879 | 3,377 | | | 13,589 |
| 1970 | | | | | | | 14 | 1,026 | 17,272 | 1,231 | | | 19,543 |
| 1971 | | | | | | | | 944 | 36,401 | 3,485 | | | 40,830 |
| 1972 | | | | | | | | 1,253 | 14,965 | 1,315 | | | 17,533 |
| 1973 | | | | | | | | 788 | 11,350 | 1,221 | | | 13,359 |
| 1974 | | | | | | | | 730 | 11,253 | 2,668 | | | 14,651 |
| 1975 | | | | | | | | 85 | 4,266 | 1,954 | | | 6,305 |
| 1976 | | | | | | | | 57 | 3,739 | 2,010 | | | 5,806 |
| 1977 | | | | | | | | 8 | 534 | 581 | | | 1,123 |
| 1978 | | | | | | | | 6 | 2,676 | 5,673 | | | 8,355 |
| 1979 | | | | | | | 1 | 132 | 2,853 | 1,753 | 322 | | 5,061 |
| 1980 | | | | | | | | 27 | 1,431 | 466 | | | 1,924 |
| 1981 | | | | | | | | 90 | 2,030 | 442 | | | 2,562 |
| 1982 | | | | | | | | 145 | 3,032 | 886 | | | 4,063 |
| 1983 | | | | | | | | 99 | 1,353 | 188 | | | 1,640 |
| 1984 | | | | | | | | 4 | 1,736 | 331 | 9 | | 2,080 |
| 1985 | | | | | | | | 95 | 1,140 | 395 | 22 | | 1,652 |
| 1986 | | | | | | | | | 1,527 | 406 | | | 1,933 |
| 1987 | | | | | | | 1 | 16 | 3,205 | 133 | | | 3,355 |
| 1988 | | | | | | | 3 | 241 | 5,170 | 1,399 | | | 6,813 |
| 1989 | | | | | | | | 264 | 6,832 | 2,567 | | | 9,663 |
| 1990 | | | | | | | | 1 | 1,890 | 1,132 | | | 3,023 |
| 1991 | | | | | | | | 5 | 6,140 | 1,876 | | | 8,021 |
| 1992 | | | | | | | | | 2,153 | 480 | | | 2,633 |
| 1993 | | | | | | | | 11 | 2,233 | 751 | | | 2,995 |
| 1994 | | | | | | | | 164 | 1,892 | 786 | | | 2,842 |
| 1995 | | | | | | | | 63 | 1,199 | 855 | | | 2,117 |
| 1996 | | | | | | | | 11 | 3,432 | 836 | | | 4,279 |
| 1997 | | | | | | | | 1 | 2,860 | 1,368 | | | 4,229 |
| 1998 | | | | | | | | 18 | 2,806 | 5,673 | | | 8,497 |
| 1999 | | | | | | | | 8 | 9,471 | 3,753 | | | 13,232 |
| 2000 | | | | | 2 | | | 921 | 15,355 | 7,691 | | | 23,969 |
| 2001 | | | | | | | 49 | 480 | 23,204 | 27,448 | | | 51,181 |
| 2002 | | | | | | | | 66 | 5,101 | 4,105 | | | 9,272 |
| 2003 | | | | | | | | 282 | 24,786 | 13,509 | 183 | 5 | 38,765 |
| 2004 | | | | | | | | 161 | 24,884 | 9,710 | 766 | 1 | 35,522 |
| 2005 | | | | | | | | 334 | 20,981 | 12,882 | 2,005 | 3 | 36,205 |
| 2006 | | | | | | | | 613 | 20,825 | 12,340 | 4,543 | 53 | 38,374 |
| 2007 | | | | | | 1 | 1 | 248 | 21,179 | 17,799 | 193 | | 39,421 |
| TOTAL | | | | | 2 | 1 | 98 | 11,016 | 365,917 | 159,323 | 8,231 | | 544,650 |
| 10-Year Average | | | | | | | | 313 | 16,859 | 11,491 | | | 29,444 |

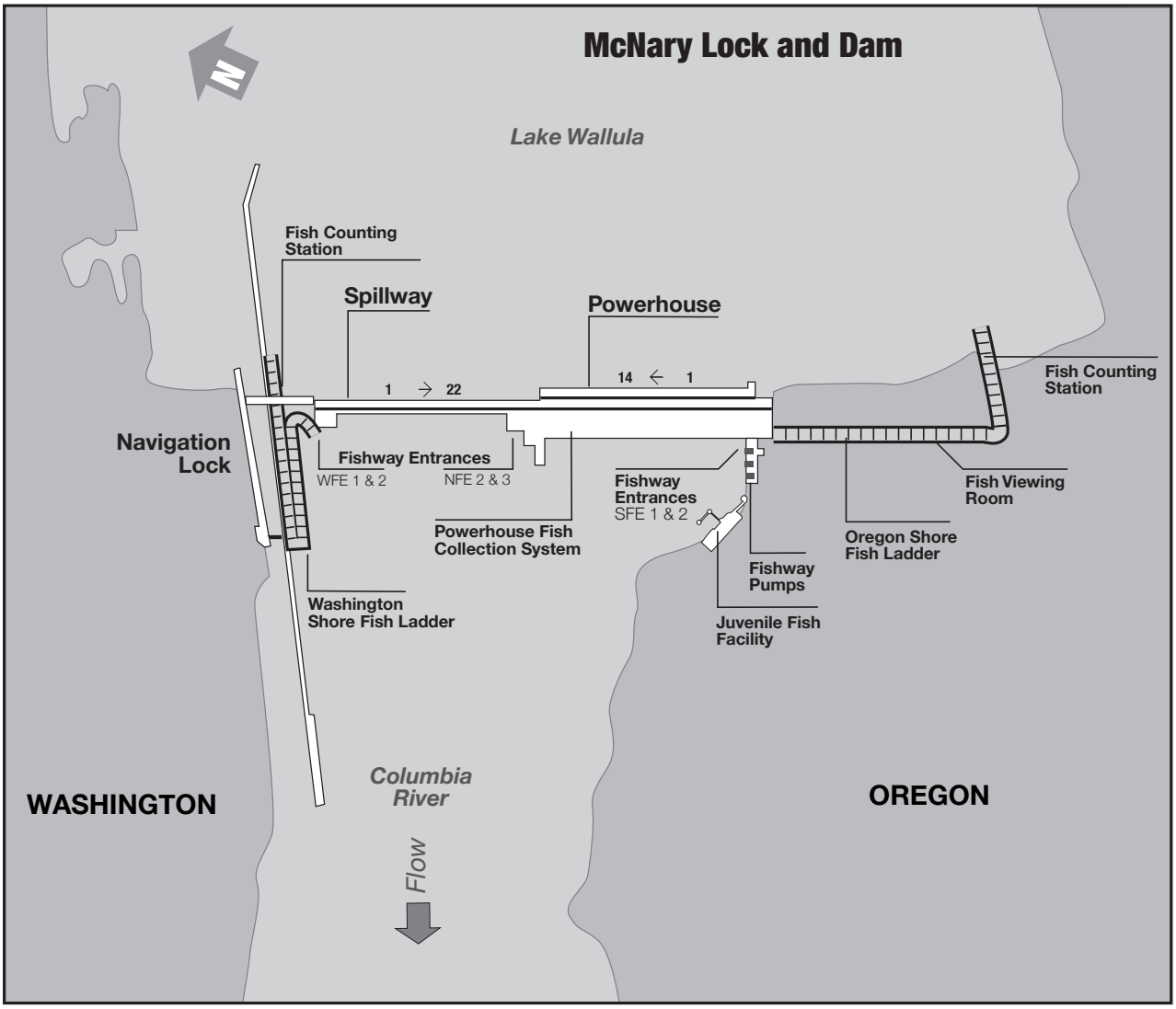
*Jacks included

TABLE 60

**MONTHLY COUNT OF STEELHEAD**
**JOHN DAY DAM 1968 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | | | | 3,939 | 2,659 | 151 | 6,094 | 26,824 | 68,791 | 11,405 | 1,393 | | 121,256 |
| 1969 | | | 314 | 3,986 | 3,691 | 714 | 12,004 | 13,267 | 40,082 | 12,290 | | | 86,348 |
| 1970 | | | | 1,987 | 1,279 | 253 | 7,373 | 19,412 | 46,036 | 6,100 | | | 82,440 |
| 1971 | | | | 1,472 | 592 | 263 | 17,459 | 19,693 | 63,868 | 12,630 | | | 115,977 |
| 1972 | | | | 1,523 | 1,966 | 356 | 17,656 | 20,502 | 78,138 | 21,487 | | | 141,628 |
| 1973 | | | | 8,019 | 3,546 | 785 | 12,134 | 15,608 | 46,566 | 14,782 | | | 101,440 |
| 1974 | | | | 1,713 | 2,363 | 1,361 | 9,713 | 8,419 | 12,479 | 7,708 | | | 43,756 |
| 1975 | | | | 760 | 428 | 648 | 6,251 | 8,583 | 9,977 | 6,004 | | | 32,651 |
| 1976 | | | | 929 | 1,248 | 1,868 | 9,254 | 17,964 | 22,754 | 5,791 | | | 59,808 |
| 1977 | | | | 1,319 | 418 | 2,341 | 18,366 | 7,088 | 56,134 | 16,892 | | | 102,558 |
| 1978 | | | | 741 | 631 | 1,601 | 5,573 | 6,911 | 22,896 | 5,835 | | | 44,188 |
| 1979 | | | | 602 | 136 | 253 | 8,012 | 10,717 | 16,202 | 18,072 | 1,883 | | 55,877 |
| 1980 | | | | 4,131 | 555 | 577 | 5,850 | 18,114 | 34,700 | 14,272 | | | 78,199 |
| 1981 | | | | 2,061 | 1,539 | 2,515 | 15,999 | 18,283 | 34,098 | 20,677 | | | 95,172 |
| 1982 | | | | 3,393 | 1,698 | 1,167 | 10,168 | 19,693 | 50,725 | 21,759 | | | 108,603 |
| 1983 | | | | 1,492 | 434 | 560 | 15,088 | 31,453 | 83,215 | 22,183 | | | 154,425 |
| 1984 | | | | 3,316 | 1,787 | 2,101 | 21,442 | 19,743 | 100,437 | 46,506 | 5,822 | | 201,154 |
| 1985 | | | | 6,821 | 1,723 | 3,583 | 19,631 | 64,456 | 109,488 | 37,227 | 4,164 | | 247,093 |
| 1986 | | | 3,611 | 2,040 | 887 | 2,362 | 37,732 | 31,576 | 107,002 | 52,800 | | | 238,010 |
| 1987 | | | | 3,926 | -747 | 942 | 23,614 | 34,203 | 69,585 | 39,131 | | | 170,654 |
| 1988 | | | | 4,290 | 525 | 2,188 | 17,649 | 25,741 | 81,859 | 32,398 | | | 164,650 |
| 1989 | | | | 2,940 | 508 | 2,445 | 18,254 | 22,548 | 104,521 | 42,244 | | | 193,460 |
| 1990 | | | | 3,339 | 600 | 1,902 | 10,544 | 9,445 | 42,888 | 39,131 | | | 107,849 |
| 1991 | | | | 2,547 | 660 | 1,256 | 12,827 | 18,310 | 87,277 | 37,380 | | | 160,257 |
| 1992 | | | | 1,334 | 406 | 2,337 | 10,732 | 17,326 | 143,823 | 19,236 | | | 195,194 |
| 1993 | | | | 3,453 | 808 | 2,845 | 9,434 | 11,018 | 46,447 | 21,637 | | | 95,642 |
| 1994 | | | | 2,286 | 413 | 1,647 | 6,961 | 7,140 | 44,175 | 30,453 | | | 93,075 |
| 1995 | | | | 1,498 | 488 | 1,757 | 7,755 | 26,450 | 45,087 | 40,211 | | | 123,246 |
| 1996 | | | | 1,597 | 462 | 1,576 | 11,885 | 42,853 | 67,171 | 30,458 | | | 156,002 |
| 1997 | | | | 2,171 | 810 | 2,021 | 12,847 | 22,179 | 75,119 | 41,891 | | | 157,038 |
| 1998 | | | | 4,367 | 1,018 | 2,460 | 9,827 | 9,053 | 67,322 | 64,500 | | | 158,547 |
| 1999 | | | | 2,702 | 764 | 1,975 | 17,083 | 42,160 | 72,719 | 27,911 | | | 165,314 |
| 2000 | | | | 2,607 | 784 | 4,500 | 23,496 | 37,827 | 113,619 | 37,495 | | | 220,328 |
| 2001 | | | | 1,946 | 550 | 11,031 | 52,946 | 50,723 | 230,803 | 135,410 | | | 483,409 |
| 2002 | | | | 7,330 | 972 | 5,875 | 42,167 | 59,430 | 170,893 | 103,633 | | | 390,300 |
| 2003 | | | 9,792 | 1,327 | 222 | 4,888 | 28,019 | 23,687 | 177,058 | 50,975 | 7,666 | 1,408 | 305,042 |
| 2004 | | 186 | 2,591 | 1,437 | 537 | 6,840 | 20,250 | 24,594 | 145,241 | 28,300 | 3,401 | 54 | 233,431 |
| 2005 | | 106 | 2,571 | 843 | 456 | 3,424 | 24,705 | 27,445 | 116,336 | 49,965 | 6,158 | 94 | 232,103 |
| 2006 | | 32 | 1,252 | 2,104 | 343 | 2,575 | 15,719 | 25,008 | 125,323 | 46,050 | 12,909 | 40 | 231,355 |
| 2007 | | 400 | 3,584 | 1,592 | 641 | 2,450 | 16,497 | 43,710 | 119,499 | 42,809 | 5,509 | 826 | 237,517 |
| TOTAL | | | 23,715 | 105,880 | 38,800 | 90,393 | 649,010 | 959,156 | 3,150,353 | 1,315,638 | 48,905 | | 6,384,996 |
| 10-YR Average | | | | 2,626 | 629 | 4,602 | 25,071 | 34,364 | 133,881 | 58,705 | | | 265,735 |

# Plate 5 McNary Lock and Dam



# McNARY DAM

## FISH COUNTING SCHEDULE

1 Jan – 28 Feb No Counting.

***Washington Ladder Schedule***

| | |
|---|---|
| 5 Mar – 31 Mar | Video counting daily 0400-2000 hours PST |
| 1 Apr – 31 Oct | Visual counting daily 0400-2000 hours PST. |
| 1 Nov – 31 Dec | Video counting daily 0400-2000 hours PST |

***Oregon Ladder Schedule***

| | |
|---|---|
| 5 Mar – 31 Mar | Video counting daily 0400-2000 hours PST. |
| 1 Apr – 31 Oct | Visual counting daily 0400-2000 hours PST. |
| 1 Nov – 31 Dec | Video counting daily 0400-2000 hours PST |

## FISH LADDER OPERATING SCHEDULE

***Washington Ladder***

1 Jan – 31 Dec Ladder in service.

***Oregon Ladder***

| | |
|---|---|
| 1 Jan – 4 Mar | Ladder dewatered for annual maintenance |
| 5 Mar - 31 Dec | Ladder in service. |

## FISHWAY ACTIVITIES

Delay of the Oregon ladder waterup was due to a broken fish viewing window in the vistor building. Washington ladder was not serviced this year.

Pump #3 of the AWS system for the Oregon shore fishway, continued out of service all year, due to bearing failure. This caused significant damage to the guide bearings and pump shaft. Pump #1 and #2 operated from 5 March to 31 December 2007

The Juvenile bypass channel was operated for both juvenile and adult fallback passage, from 20 March to 27 December.

TABLE 61

**MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER McNARY DAM**

**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | 3 | 7,073 | 38,622 | 27,760 | 18,036 | 8,565 | 60,291 | 18,455 | 1,538 | 92 | 180,435 |
| STEELHEAD | | | 6,155 | 1,693 | 241 | 1,616 | 13,232 | 32,652 | 109,015 | 50,339 | 4,805 | 1,786 | 221,534 |
| SOCKEYE | | | | | 1 | 11,087 | 6,974 | 105 | 6 | 2 | | | 18,175 |
| COHO* | | | | | | | | 9 | 11,263 | 11,315 | 238 | | 22,825 |
| CHUM | | | | | | | | | | | | | 0 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | | 8,766 | 38,864 | 40,463 | 38,242 | 41,331 | 180,575 | 80,111 | 6,581 | 1,878 | 442,969 |
| SHAD | | | | | 51,541 | 686,903 | 238,661 | 8,361 | 269 | 41 | | | 985,776 |
| LAMPREY | | | | 1 | 3 | 40 | 1,195 | 1,735 | 471 | 9 | | | 3,454 |
| STURGEON | | | | | | | 1 | | | | | | 1 |
| BULL TROUT | | | | | | 1 | | | | | | | 1 |

***Jacks Included**

TABLE 62

**DISCHARGE AND WATER QUALITY DATA**

**MCNARY PROJECT 2007**

**JANUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *DEG F |
|---|---|---|---|---|
| Jan 1 | 107.6 | 0.0 | | |
| Jan 2 | 117.9 | 0.0 | | |
| Jan 3 | 108.3 | 0.0 | | |
| Jan 4 | 142.6 | 0.0 | | |
| Jan 5 | 162.5 | 0.0 | | |
| Jan 6 | 142.2 | 0.0 | | |
| Jan 7 | 137.8 | 0.0 | | |
| Jan 8 | 143.3 | 0.0 | | |
| Jan 9 | 133.5 | 0.0 | | |
| Jan 10 | 146.2 | 0.0 | | |
| Jan 11 | 155.1 | 0.0 | | |
| Jan 12 | 201.7 | 0.0 | | |
| Jan 13 | 170.8 | 0.0 | | |
| Jan 14 | 184.1 | 0.0 | | |
| Jan 15 | 193.4 | 0.0 | | |
| Jan 16 | 175.0 | 0.0 | | |
| Jan 17 | 179.0 | 0.0 | | |
| Jan 18 | 181.3 | 0.0 | | |
| Jan 19 | 179.0 | 0.0 | | |
| Jan 20 | 157.8 | 0.0 | | |
| Jan 21 | 136.2 | 0.0 | | |
| Jan 22 | 168.2 | 0.0 | | |
| Jan 23 | 169.6 | 0.0 | | |
| Jan 24 | 167.8 | 0.0 | | |
| Jan 25 | 165.0 | 0.0 | | |
| Jan 26 | 173.3 | 0.0 | | |
| Jan 27 | 164.7 | 0.0 | | |
| Jan 28 | 138.4 | 0.0 | | |
| Jan 29 | 166.1 | 0.0 | | |
| Jan 30 | 165.2 | 0.0 | | |
| Jan 31 | 164.9 | 0.0 | | |
| AVG. | 158.0 | 0.0 | | |

**FEBRUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *DEG F |
|---|---|---|---|---|
| Feb 1 | 150.6 | 0.0 | | |
| Feb 2 | 142.8 | 0.0 | | |
| Feb 3 | 151.5 | 0.0 | | |
| Feb 4 | 105.2 | 0.0 | | |
| Feb 5 | 123.5 | 0.0 | | |
| Feb 6 | 125.2 | 0.0 | | |
| Feb 7 | 120.8 | 0.0 | | |
| Feb 8 | 146.3 | 0.0 | | |
| Feb 9 | 123.3 | 0.0 | | |
| Feb 10 | 142.3 | 0.0 | | |
| Feb 11 | 133.3 | 0.0 | | |
| Feb 12 | 131.6 | 0.0 | | |
| Feb 13 | 145.6 | 0.0 | | |
| Feb 14 | 158.7 | 0.0 | | |
| Feb 15 | 140.4 | 0.0 | | |
| Feb 16 | 125.3 | 0.0 | | |
| Feb 17 | 124.2 | 0.0 | | |
| Feb 18 | 115.8 | 0.0 | | |
| Feb 19 | 124.5 | 0.0 | | |
| Feb 20 | 129.4 | 0.0 | | |
| Feb 21 | 124.4 | 0.0 | | |
| Feb 22 | 107.4 | 0.0 | | |
| Feb 23 | 110.7 | 0.0 | | |
| Feb 24 | 119.9 | 0.0 | | |
| Feb 25 | 107.0 | 0.0 | | |
| Feb 26 | 112.5 | 0.0 | | |
| Feb 27 | 127.8 | 0.0 | | |
| Feb 28 | 117.1 | 0.0 | | |
| AVG. | 128.1 | 0.0 | | |

*Data unavailable.

TABLE 63

**MONTHLY FISH PASSAGE SUMMARY REPORT** **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 0 | | | | | | | 0 | 0 | | | | 142.3 | 0.0 | 4.5 | 40.0 |
| Mar 2 | 0 | | | | | | | 14 | 2 | | | | 156.7 | 0.0 | 5.8 | 40.0 |
| Mar 3 | 0 | | | | | | | 16 | 6 | | | | 146.9 | 0.0 | 6.0 | 40.0 |
| Mar 4 | 0 | | | | | | | 20 | 2 | | | | 113.1 | 0.0 | 6.0 | 40.0 |
| Mar 5 | 0 | | | | | | | 399 | 80 | | | | 127.0 | 0.0 | 6.0 | 40.0 |
| Mar 6 | 0 | | | | | | | 197 | 42 | | | | 125.9 | 0.0 | 5.5 | 40.0 |
| Mar 7 | 0 | | | | | | | 66 | 15 | | | | 124.1 | 0.0 | 6.0 | 39.0 |
| Mar 8 | 0 | | | | | | | 109 | 18 | | | | 132.1 | 0.4 | 6.0 | 40.0 |
| Mar 9 | 0 | | | | | | | 134 | 26 | | | | 156.4 | 0.0 | 6.0 | 40.0 |
| Mar 10 | 0 | | | | | | | 124 | 31 | | | | 136.9 | 0.0 | 6.0 | 40.0 |
| Mar 11 | 0 | | | | | | | 98 | 17 | | | | 105.0 | 0.0 | 6.0 | 41.0 |
| Mar 12 | 0 | | | | | | | 186 | 37 | | | | 132.1 | 0.0 | 5.0 | 41.0 |
| Mar 13 | 0 | | | | | | | 203 | 26 | | | | 161.6 | 0.0 | 4.0 | 41.0 |
| Mar 14 | 0 | | | | | | | 214 | 36 | | | | 185.3 | 0.3 | 3.9 | 41.0 |
| Mar 15 | 0 | | | | | | | 238 | 37 | | | | 197.1 | 5.8 | 3.8 | 42.0 |
| Mar 16 | 0 | | | | | | | 378 | 89 | | | | 188.4 | 6.7 | 3.9 | 42.0 |
| Mar 17 | 0 | | | | | | | 399 | 73 | | | | 201.0 | 7.1 | 3.4 | 43.0 |
| Mar 18 | 0 | | | | | | | 324 | 68 | | | | 167.6 | 6.9 | 3.3 | 44.0 |
| Mar 19 | 0 | | | | | | | 267 | 51 | | | | 200.7 | 7.1 | 3.4 | 44.0 |
| Mar 20 | 1 | | | | | | | 330 | 70 | | | | 186.1 | 5.7 | 3.4 | 45.0 |
| Mar 21 | 0 | | | | | | | 373 | 63 | | | | 235.7 | 22.5 | 4.0 | 45.0 |
| Mar 22 | 0 | | | | | | | 320 | 65 | | | | 228.6 | 12.3 | 3.6 | 44.0 |
| Mar 23 | 0 | | | | | | | 224 | 58 | | | | 224.6 | 12.8 | 4.0 | 44.0 |
| Mar 24 | 1 | | | | | | | 226 | 47 | | | | 235.0 | 12.2 | 3.5 | 43.0 |
| Mar 25 | 0 | | | | | | | 265 | 59 | | | | 216.3 | 5.9 | 3.4 | 43.0 |
| Mar 26 | 0 | | | | | | | 307 | 57 | | | | 238.9 | 13.5 | 3.8 | 43.0 |
| Mar 27 | 0 | | | | | | | 131 | 33 | | | | 224.0 | 36.2 | 3.8 | 45.0 |
| Mar 28 | 0 | | | | | | | 159 | 40 | | | | 231.9 | 39.8 | 3.5 | 45.0 |
| Mar 29 | 0 | | | | | | | 179 | 42 | | | | 256.2 | 52.3 | 4.2 | 45.0 |
| Mar 30 | 0 | | | | | | | 116 | 28 | | | | 270.4 | 59.6 | 4.2 | 45.0 |
| Mar 31 | 1 | | | | | | | 139 | 35 | | | | 282.4 | 71.1 | * | 45.0 |
| TOTAL | 3 | | | | | | | 6,155 | 1,253 | | | | | | | |
| AVG. | 0 | | | | | | | 199 | 40 | | | | 184.8 | 12.2 | 4.5 | 42.3 |

*Data unavailable.

Note: March counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

**Official Spring Chinook run started April 1. March chinook counts were not added to spring totals.**

TABLE 64

**MONTHLY FISH PASSAGE SUMMARY REPORT** **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 0 | | | 0 | | | | 152 | 31 | | 0 | | 254.9 | 84.1 | 4.0 | 45.0 |
| Apr 2 | 0 | | | 0 | | | | 206 | 36 | | 0 | | 231.4 | 59.5 | * | 45.0 |
| Apr 3 | 0 | | | 0 | | | | 119 | 35 | | 0 | | 274.7 | 98.4 | * | 45.0 |
| Apr 4 | 0 | | | 0 | | | | 128 | 31 | | 0 | | 236.1 | 68.2 | 4.0 | 45.0 |
| Apr 5 | -1 | | | 0 | | | | 82 | 26 | | 0 | | 245.9 | 75.8 | 5.0 | 45.0 |
| Apr 6 | 0 | | | 0 | | | | 101 | 27 | | 0 | | 235.9 | 60.5 | 5.0 | 45.0 |
| Apr 7 | 4 | | | 1 | | | | 85 | 24 | | 0 | | 193.0 | 25.8 | 5.6 | 45.0 |
| Apr 8 | 0 | | | 0 | | | | 80 | 24 | | 0 | | 194.3 | 26.7 | 5.2 | 46.0 |
| Apr 9 | 0 | | | 0 | | | | 83 | 21 | | 0 | | 189.7 | 33.1 | 5.0 | 46.0 |
| Apr 10 | 2 | | | 0 | | | | 111 | 36 | | 0 | | 221.5 | 89.1 | 5.0 | 46.0 |
| Apr 11 | 2 | | | 0 | | | | 47 | 24 | | 0 | | 219.5 | 88.3 | 5.1 | 46.0 |
| Apr 12 | 1 | | | 0 | | | | 33 | 15 | | 0 | | 216.1 | 86.1 | 5.2 | 46.0 |
| Apr 13 | 1 | | | 0 | | | | 55 | 22 | | 1 | | 223.5 | 89.1 | 4.4 | 47.0 |
| Apr 14 | 6 | | | 1 | | | | 48 | 20 | | 0 | | 234.7 | 93.8 | 5.2 | 47.0 |
| Apr 15 | -7 | | | 0 | | | | 33 | 12 | | 0 | | 223.9 | 90.1 | 5.8 | 48.0 |
| Apr 16 | 4 | | | 0 | | | | 42 | 10 | | 0 | | 231.3 | 92.8 | 5.4 | 48.0 |
| Apr 17 | 16 | | | 1 | | | | 30 | 12 | | 0 | | 229.6 | 92.4 | 5.3 | 48.0 |
| Apr 18 | 65 | | | 4 | | | | 27 | 12 | | 0 | | 222.4 | 89.8 | 5.6 | 48.0 |
| Apr 19 | 100 | | | 2 | | | | 30 | 13 | | 0 | | 231.2 | 92.5 | 5.6 | 48.0 |
| Apr 20 | 148 | | | 0 | | | | 19 | 7 | | 0 | | 218.5 | 87.9 | 5.6 | 48.0 |
| Apr 21 | 186 | | | 2 | | | | 26 | 13 | | 0 | | 216.8 | 87.4 | 5.5 | 48.0 |
| Apr 22 | 275 | | | 2 | | | | 14 | 5 | | 0 | | 221.7 | 88.9 | 5.0 | 49.0 |
| Apr 23 | 365 | | | 2 | | | | 19 | 6 | | 0 | | 217.8 | 87.7 | 5.0 | 49.0 |
| Apr 24 | 687 | | | 7 | | | | 19 | 7 | | 0 | | 208.7 | 83.4 | 6.0 | 49.0 |
| Apr 25 | 566 | | | 20 | | | | 18 | 12 | | 0 | | 216.0 | 87.0 | 5.2 | 49.0 |
| Apr 26 | 561 | | | 12 | | | | 17 | 13 | | 0 | | 230.5 | 92.7 | 6.0 | 50.0 |
| Apr 27 | 670 | | | 12 | | | | 17 | 12 | | 0 | | 235.3 | 94.5 | 6.0 | 50.0 |
| Apr 28 | 821 | | | 31 | | | | 17 | 10 | | 0 | | 233.6 | 93.8 | 6.0 | 50.0 |
| Apr 29 | 975 | | | 35 | | | | 23 | 12 | | 0 | | 228.5 | 91.9 | 6.0 | 50.0 |
| Apr 30 | 1,429 | | | 65 | | | | 12 | 8 | | 0 | | 235.4 | 94.5 | 6.0 | 51.0 |
| TOTAL | 6,876 | | | 197 | | | | 1,693 | 536 | | 1 | | | | | |
| AVG. | 229 | | | 7 | | | | 56 | 18 | | 0 | | 225.7 | 80.9 | 5.3 | 47.4 |

*Data unavailable.

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

**Official Spring Chinook run started April 1. March chinook counts were not added to spring totals.**

TABLE 65

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 1,204 | | | 57 | | | 0 | 1 | 1 | 0 | 2 | | 259.2 | 104.1 | 5.8 | 52.0 |
| May 2 | 1,485 | | | 92 | | | 0 | 6 | 2 | 0 | 0 | | 266.1 | 106.8 | 5.6 | 52.0 |
| May 3 | 1,160 | | | 113 | | | 0 | 14 | 7 | 0 | 0 | | 270.6 | 108.0 | 6.0 | 52.0 |
| May 4 | 2,012 | | | 170 | | | 0 | 10 | 8 | 0 | 0 | | 290.5 | 116.5 | 6.0 | 52.0 |
| May 5 | 1,451 | | | 147 | | | 0 | 10 | 5 | 0 | 0 | | 284.4 | 113.8 | 6.0 | 52.0 |
| May 6 | 1,462 | | | 198 | | | 0 | 11 | 6 | 0 | 0 | | 269.9 | 108.8 | 6.0 | 51.0 |
| May 7 | 1,541 | | | 279 | | | 0 | 4 | 1 | 0 | 0 | | 256.1 | 101.8 | 5.8 | 52.0 |
| May 8 | 1,164 | | | 286 | | | 0 | 7 | 4 | 0 | 0 | | 261.1 | 104.3 | 6.0 | 55.0 |
| May 9 | 1,010 | | | 247 | | | 0 | 6 | 2 | 0 | 0 | | 291.6 | 116.4 | 6.0 | 53.0 |
| May 10 | 988 | | | 319 | | | 0 | 2 | 1 | 0 | 0 | | 274.7 | 110.6 | 6.0 | 54.0 |
| May 11 | 960 | | | 347 | | | 0 | 1 | 1 | 0 | 0 | | 281.5 | 112.4 | 6.0 | 54.0 |
| May 12 | 1,444 | | | 670 | | | 0 | 7 | 1 | 0 | 0 | | 272.6 | 109.4 | 6.0 | 54.0 |
| May 13 | 1,753 | | | 771 | | | 0 | 6 | 0 | 2 | 0 | | 270.3 | 108.3 | 5.3 | 54.0 |
| May 14 | 1,210 | | | 659 | | | 0 | 13 | 2 | 4 | 0 | | 280.2 | 112.3 | 5.5 | 54.0 |
| May 15 | 858 | | | 510 | | | 0 | 5 | 0 | 6 | 1 | | 280.9 | 112.4 | 5.6 | 54.0 |
| May 16 | 737 | | | 507 | | | 0 | 11 | 1 | 8 | 0 | | 268.8 | 107.2 | 5.5 | 55.0 |
| May 17 | 656 | | | 416 | | | 0 | 7 | 2 | 22 | 0 | | 271.0 | 108.0 | * | 55.0 |
| May 18 | 829 | | | 626 | | | 0 | 12 | 4 | 41 | 0 | | 257.0 | 103.0 | 6.0 | 55.0 |
| May 19 | 634 | | | 545 | | | 0 | 6 | 1 | 29 | 0 | | 272.3 | 109.7 | 6.0 | 55.0 |
| May 20 | 586 | | | 584 | | | 0 | 7 | 0 | 27 | 0 | | 268.2 | 107.1 | 6.0 | 56.0 |
| May 21 | 569 | | | 531 | | | 0 | 17 | 1 | 23 | 0 | | 279.5 | 111.4 | 6.0 | 56.0 |
| May 22 | 403 | | | 394 | | | 0 | 5 | 0 | 63 | 0 | | 265.9 | 106.2 | 5.5 | 56.0 |
| May 23 | 547 | | | 408 | | | 0 | 6 | -1 | 172 | 0 | | 264.4 | 105.7 | 6.0 | 55.0 |
| May 24 | 506 | | | 306 | | | 0 | 6 | 2 | 206 | 0 | | 263.6 | 105.2 | 6.0 | 55.0 |
| May 25 | 402 | | | 332 | | | 0 | 6 | 0 | 1196 | 0 | | 265.9 | 106.6 | 5.6 | 55.0 |
| May 26 | 623 | | | 211 | | | 0 | 24 | 2 | 4508 | 0 | | 255.7 | 102.1 | 6.0 | 57.0 |
| May 27 | 511 | | | 234 | | | 0 | 4 | 1 | 4962 | 0 | | 235.2 | 93.7 | 6.0 | 58.0 |
| May 28 | 392 | | | 182 | | | 0 | 12 | 2 | 3587 | 0 | | 252.9 | 101.1 | 6.0 | 58.0 |
| May 29 | 179 | | | 178 | | | 0 | 6 | 0 | 11688 | 0 | | 236.6 | 94.3 | 6.0 | 58.0 |
| May 30 | 333 | | | 221 | | | 0 | 6 | 0 | 12052 | 0 | | 244.8 | 97.7 | 6.0 | 57.0 |
| May 31 | 311 | | | 162 | | | 1 | 3 | 1 | 12945 | 0 | | 245.6 | 98.3 | 6.0 | 58.0 |
| TOTAL | 27,920 | | | 10,702 | | | 1 | 241 | 57 | 51,541 | 3 | | | | | |
| AVG. | 901 | | | 345 | | | 0 | 8 | 2 | 1,663 | 0 | | 266.4 | 106.6 | 5.9 | 54.6 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|---|
| SPRING | 34,796 | 10,899 | 1 | 1,934 | 593 | 51,541 | 4 |

TABLE 66

**MONTHLY FISH PASSAGE SUMMARY REPORT** **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 432 | | | 172 | | | 0 | 7 | 1 | 18,260 | 2 | | 237.5 | 95.2 | 5.7 | 60.0 |
| Jun 2 | 402 | | | 185 | | | 2 | 18 | 0 | 16,078 | 0 | | 235.3 | 94.1 | 5.4 | 60.0 |
| Jun 3 | 551 | | | 142 | | | 6 | 10 | 0 | 28,008 | 2 | | 217.2 | 86.9 | 6.0 | 59.0 |
| Jun 4 | 489 | | | 165 | | | 8 | 21 | 2 | 24,047 | 8 | | 239.4 | 95.7 | 6.0 | 60.0 |
| Jun 5 | 559 | | | 188 | | | 22 | 26 | 2 | 22,842 | 1 | | 231.2 | 92.4 | 6.0 | 60.0 |
| Jun 6 | 470 | | | 151 | | | 24 | 19 | 1 | 11,759 | 0 | | 252.7 | 100.9 | 5.0 | 60.0 |
| Jun 7 | 462 | | | 159 | | | 36 | 16 | 1 | 9,736 | 1 | | 240.7 | 96.1 | 5.8 | 60.0 |
| Jun 8 | 691 | | | 191 | | | 20 | 19 | 1 | 14,197 | 1 | | 260.3 | 106.7 | 5.5 | 59.0 |
| Jun 9 | | 645 | | 141 | | | 31 | 16 | 1 | 12,431 | 4 | | 277.4 | 110.5 | 5.5 | 59.0 |
| Jun 10 | | 572 | | 146 | | | 36 | 24 | 3 | 17,215 | 0 | | 244.9 | 98.1 | 5.0 | 60.0 |
| Jun 11 | | 494 | | 115 | | | 52 | 28 | 1 | 8,876 | 1 | | 249.0 | 99.3 | 5.1 | 60.0 |
| Jun 12 | | 617 | | 141 | | | 60 | 41 | 1 | 25,329 | 1 | | 245.6 | 98.8 | 5.0 | 60.0 |
| Jun 13 | | 685 | | 152 | | | 115 | 23 | 1 | 7,140 | 0 | | 267.6 | 106.8 | 6.0 | 60.0 |
| Jun 14 | | 719 | | 168 | | | 183 | 101 | 2 | 22,560 | 2 | | 234.7 | 94.2 | 6.0 | 60.0 |
| Jun 15 | | 936 | | 151 | | | 166 | 22 | 7 | 16,785 | 0 | | 233.8 | 93.8 | 5.4 | 60.0 |
| Jun 16 | | 734 | | 184 | | | 267 | 36 | 1 | 27,869 | 1 | | 247.2 | 99.0 | 5.8 | 60.0 |
| Jun 17 | | 1,183 | | 195 | | | 285 | 64 | 2 | 25,652 | 1 | | 196.5 | 78.9 | 5.7 | 60.0 |
| Jun 18 | | 698 | | 164 | | | 299 | 55 | 1 | 30,810 | 0 | | 221.9 | 88.8 | 5.9 | 60.0 |
| Jun 19 | | 672 | | 200 | | | 554 | 68 | 2 | 29,789 | 1 | | 222.4 | 89.0 | 5.2 | 60.0 |
| Jun 20 | | 797 | | 195 | | | 441 | 84 | 7 | 34,933 | 1 | | 206.6 | 82.8 | 5.3 | 60.0 |
| Jun 21 | | 601 | | 156 | | | 502 | 40 | 4 | 37,143 | 0 | | 201.0 | 80.5 | 6.0 | 61.0 |
| Jun 22 | | 803 | | 161 | | | 550 | 70 | 6 | 22,989 | 1 | | 200.2 | 109.6 | 6.0 | 61.0 |
| Jun 23 | | 899 | | 200 | | | 725 | 84 | 8 | 25,561 | 1 | | 215.4 | 125.9 | 6.0 | 61.0 |
| Jun 24 | | 1,389 | | 223 | | | 951 | 113 | 11 | 27,079 | 1 | | 183.3 | 82.7 | 6.0 | 62.0 |
| Jun 25 | | 1,218 | | 263 | | | 972 | 95 | 5 | 25,858 | 2 | | 185.2 | 73.8 | 6.0 | 62.0 |
| Jun 26 | | 1,020 | | 251 | | | 1,046 | 80 | 12 | 16,796 | 0 | | 196.9 | 106.5 | 6.0 | 63.0 |
| Jun 27 | | 963 | | 203 | | | 954 | 103 | 8 | 10,833 | 2 | | 172.9 | 103.6 | 5.2 | 63.0 |
| Jun 28 | | 915 | | 247 | | | 1,092 | 102 | 6 | 59,372 | 1 | | 186.0 | 83.5 | 5.5 | 66.0 |
| Jun 29 | | 1,135 | | 263 | | | 991 | 144 | 20 | 41,010 | 4 | | 183.8 | 72.7 | 5.5 | 66.0 |
| Jun 30 | | 552 | | 185 | | | 697 | 87 | 9 | 15,946 | 1 | | 185.7 | 104.1 | 5.2 | 66.0 |
| TOTAL | 4,056 | 18,247 | | 5,457 | | | 11,087 | 1,616 | 126 | 686,903 | 40 | | | | | |
| AVG. | 507 | 829 | | 182 | | | 370 | 54 | 4 | 22,897 | 1 | | 222.4 | 95.0 | 5.6 | 60.9 |

*Data unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 18,247 | 4,104 |
| TOTAL | 57,099 | 16,356 |

| SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|
| 11,088 | 3,550 | 719 | 738,444 | 44 | 0 |

Note: 1 Bull trout seen on the June 18.

TABLE 67

**MONTHLY FISH PASSAGE SUMMARY REPORT** **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 686 | | 220 | | | 766 | 128 | 20 | 20,794 | 0 | 0 | 156.1 | 93.8 | 5.4 | 65.0 |
| Jul 2 | | 638 | | 190 | | | 832 | 124 | 22 | 10,381 | 5 | 0 | 168.8 | 101.1 | 5.6 | 66.0 |
| Jul 3 | | 722 | | 216 | | | 674 | 228 | 48 | 35,268 | 6 | 0 | 171.9 | 103.0 | * | 66.0 |
| Jul 4 | | 406 | | 181 | | | 634 | 236 | 38 | 30,153 | 6 | 0 | 155.1 | 69.6 | * | 66.0 |
| Jul 5 | | 509 | | 242 | | | 606 | 136 | 20 | 21,590 | 12 | 0 | 172.5 | 69.1 | 6.0 | 65.0 |
| Jul 6 | | 459 | | 166 | | | 401 | 162 | 30 | 22,509 | 14 | 0 | 197.3 | 76.8 | 6.0 | 66.0 |
| Jul 7 | | 250 | | 198 | | | 257 | 181 | 44 | 11,306 | 19 | 0 | 155.6 | 62.3 | 6.0 | 66.0 |
| Jul 8 | | 765 | | 335 | | | 335 | 238 | 47 | 10,388 | 15 | 0 | 173.2 | 96.4 | 6.0 | 68.0 |
| Jul 9 | | 478 | | 312 | | | 276 | 323 | 80 | 8,871 | 14 | 0 | 188.4 | 112.5 | 6.0 | 68.0 |
| Jul 10 | | 922 | | 317 | | | 288 | 454 | 105 | 10,797 | 25 | 0 | 177.5 | 78.3 | 6.0 | 70.0 |
| Jul 11 | | 581 | | 220 | | | 210 | 367 | 103 | 9,780 | 18 | 0 | 187.4 | 74.8 | 6.0 | 68.0 |
| Jul 12 | | 283 | | 106 | | | 141 | 317 | 83 | 5,122 | 17 | 0 | 189.7 | 106.5 | 6.0 | 68.0 |
| Jul 13 | | 559 | | 162 | | | 180 | 385 | 112 | 5,530 | 23 | 0 | 215.2 | 127.9 | 6.0 | 68.0 |
| Jul 14 | | 436 | | 192 | | | 245 | 405 | 120 | 7,995 | 14 | 0 | 214.4 | 95.0 | 6.0 | 68.0 |
| Jul 15 | | 441 | | 136 | | | 144 | 448 | 180 | 6,380 | 45 | 0 | 206.7 | 82.6 | 6.0 | 68.0 |
| Jul 16 | | 421 | | 132 | | | 136 | 380 | 136 | 2,917 | 25 | 0 | 203.5 | 110.5 | 6.0 | 68.0 |
| Jul 17 | | 419 | | 150 | | | 104 | 520 | 202 | 1,819 | 36 | 0 | 182.0 | 109.1 | 6.0 | 68.0 |
| Jul 18 | | 333 | | 131 | | | 98 | 456 | 191 | 2,330 | 34 | 0 | 188.6 | 113.3 | 6.0 | 68.0 |
| Jul 19 | | 322 | | 150 | | | 90 | 416 | 171 | 1,267 | 39 | 0 | 169.6 | 101.9 | 5.4 | 68.0 |
| Jul 20 | | 200 | | 88 | | | 102 | 482 | 191 | 2,510 | 25 | 0 | 161.3 | 73.2 | 5.6 | 68.0 |
| Jul 21 | | 239 | | 100 | | | 85 | 508 | 212 | 1,925 | 62 | 0 | 180.0 | 72.1 | 6.0 | 67.0 |
| Jul 22 | | 257 | | 105 | | | 62 | 421 | 169 | 1,038 | 60 | 0 | 174.7 | 97.4 | 6.0 | 70.0 |
| Jul 23 | | 263 | | 82 | | | 65 | 452 | 179 | 945 | 62 | 0 | 182.3 | 109.4 | 5.7 | 68.0 |
| Jul 24 | | 300 | | 98 | | | 87 | 490 | 200 | 1,166 | 72 | 0 | 175.7 | 77.6 | 6.0 | 70.0 |
| Jul 25 | | 426 | | 98 | | | 58 | 664 | 244 | 1,190 | 115 | 0 | 160.2 | 64.2 | 6.0 | 70.0 |
| Jul 26 | | 348 | | 126 | | | 20 | 611 | 229 | 879 | 128 | 0 | 177.6 | 100.5 | 6.0 | 70.0 |
| Jul 27 | | 299 | | 67 | | | 14 | 632 | 268 | 589 | 57 | 0 | 192.0 | 114.6 | 5.5 | 69.0 |
| Jul 28 | | 303 | | 70 | | | 9 | 862 | 354 | 762 | 67 | 0 | 178.2 | 79.7 | 5.0 | 69.0 |
| Jul 29 | | 458 | | 116 | | | 23 | 799 | 337 | 950 | 80 | 0 | 150.6 | 60.4 | 5.0 | 69.0 |
| Jul 30 | | 266 | | 98 | | | 13 | 667 | 278 | 912 | 61 | 1 | 172.1 | 96.2 | 5.4 | 69.0 |
| Jul 31 | | 181 | | 62 | | | 19 | 740 | 311 | 598 | 39 | 0 | 175.7 | 105.3 | 6.0 | 69.0 |
| TOTAL | | 13,170 | | 4,866 | | | 6,974 | 13,232 | 4,724 | 238,661 | 1,195 | 1 | | | | |
| AVG. | | 425 | | 157 | | | 225 | 427 | 152 | 7,699 | 39 | 0 | 179.2 | 91.5 | 5.8 | 67.9 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 31,417 | 8,970 |
| TOTAL | 70,269 | 21,222 |

| SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|
| 18,062 | 16,782 | 5,443 | 977,105 | 1,239 | 1 |

TABLE 68

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 205 | | 76 | 0 | 0 | 18 | 840 | 274 | 969 | 37 | | 189.1 | 85.3 | 6.0 | 69.0 |
| Aug 2 | | 136 | | 47 | 0 | 0 | 8 | 627 | 209 | 768 | 102 | | 197.1 | 79.0 | * | 69.0 |
| Aug 3 | | 295 | | 90 | 0 | 0 | 14 | 529 | 204 | 485 | 91 | | 159.2 | 87.9 | 6.0 | 69.0 |
| Aug 4 | | 185 | | 63 | 0 | 0 | 10 | 830 | 333 | 454 | 86 | | 143.5 | 86.2 | 6.0 | 69.0 |
| Aug 5 | | 223 | | 54 | 0 | 0 | 9 | 685 | 224 | 642 | 105 | | 143.5 | 64.2 | 6.0 | 69.0 |
| Aug 6 | | 126 | | 74 | 0 | 0 | 2 | 622 | 220 | 488 | 78 | | 146.6 | 58.6 | 6.0 | * |
| Aug 7 | | 142 | | 48 | 0 | 0 | 1 | 781 | 300 | 295 | 141 | | 142.4 | 80.7 | 6.0 | 69.0 |
| Aug 8 | | 213 | | 72 | 0 | 0 | 3 | 830 | 357 | 357 | 54 | | 154.7 | 92.7 | 5.5 | 69.0 |
| Aug 9 | | | 96 | 33 | 0 | 0 | 5 | 682 | 262 | 583 | 61 | | 159.4 | 70.3 | 5.4 | 69.0 |
| Aug 10 | | | 137 | 32 | 0 | 0 | 3 | 720 | 258 | 633 | 93 | | 181.0 | 72.6 | 5.4 | 69.0 |
| Aug 11 | | | 114 | 42 | 0 | 0 | 2 | 808 | 296 | 482 | 78 | | 146.9 | 81.1 | 6.0 | 69.0 |
| Aug 12 | | | 162 | 39 | 0 | 0 | 9 | 765 | 276 | 296 | 48 | | 135.4 | 81.1 | 5.9 | 69.0 |
| Aug 13 | | | 143 | 25 | 0 | 0 | 3 | 899 | 311 | 426 | 48 | | 168.6 | 74.5 | 5.6 | 69.0 |
| Aug 14 | | | 154 | 42 | 0 | 0 | 0 | 912 | 297 | 134 | 70 | | 166.6 | 66.8 | 5.7 | 69.0 |
| Aug 15 | | | 92 | 36 | 0 | 0 | 6 | 700 | 219 | 101 | 56 | | 163.2 | 92.8 | 6.0 | 70.0 |
| Aug 16 | | | 120 | 39 | -1 | 0 | 0 | 755 | 236 | 170 | 32 | | 162.5 | 97.7 | 6.0 | 70.0 |
| Aug 17 | | | 144 | 31 | 0 | 0 | 0 | 1,015 | 355 | 243 | 28 | | 128.4 | 58.9 | 6.0 | 70.0 |
| Aug 18 | | | 408 | 69 | 0 | 0 | 0 | 1,017 | 325 | 171 | 57 | | 130.6 | 52.3 | 6.0 | 70.0 |
| Aug 19 | | | 213 | 49 | 0 | 0 | 1 | 1,377 | 393 | 103 | 47 | | 139.8 | 77.6 | 6.0 | 70.0 |
| Aug 20 | | | 248 | 51 | 0 | 0 | 1 | 1,376 | 426 | 88 | 22 | | 117.5 | 60.5 | 6.0 | 69.0 |
| Aug 21 | | | 278 | 19 | 1 | 0 | 5 | 1,520 | 484 | 119 | 54 | | 119.8 | 48.1 | 6.0 | 70.0 |
| Aug 22 | | | 334 | 43 | 0 | 0 | 1 | 1,480 | 437 | 66 | 35 | | 149.2 | 59.6 | 5.5 | 70.0 |
| Aug 23 | | | 237 | 32 | 1 | 0 | 1 | 1,368 | 385 | 68 | 32 | | 139.1 | 77.9 | 6.0 | 70.0 |
| Aug 24 | | | 88 | 22 | 0 | 0 | 0 | 1,284 | 352 | 35 | 32 | | 144.9 | 87.0 | 6.0 | 68.0 |
| Aug 25 | | | 108 | 23 | 0 | 0 | 2 | 1,176 | 312 | 28 | 48 | | 119.9 | 55.0 | 6.0 | 68.0 |
| Aug 26 | | | 280 | 80 | 1 | 0 | 1 | 1,243 | 308 | 27 | 41 | | 117.0 | 46.8 | 6.0 | 68.0 |
| Aug 27 | | | 602 | 99 | 0 | 0 | 0 | 1,955 | 503 | 39 | 59 | | 116.7 | 46.2 | 5.5 | 69.0 |
| Aug 28 | | | 626 | 76 | 0 | 0 | 0 | 1,740 | 434 | 24 | 28 | | 132.4 | 52.5 | 6.0 | 69.0 |
| Aug 29 | | | 292 | 47 | 1 | 1 | 1 | 1,512 | 348 | 32 | 36 | | 140.3 | 56.1 | 6.0 | 69.0 |
| Aug 30 | | | 229 | 55 | 2 | 0 | 0 | 1,356 | 351 | 20 | 32 | | 139.9 | 79.1 | 6.0 | 69.0 |
| Aug 31 | | | 360 | 67 | 4 | -1 | -1 | 1,248 | 330 | 15 | 4 | | 177.3 | 105.2 | 6.0 | 69.0 |
| TOTAL | | 1,525 | 5,465 | 1,575 | 9 | 0 | 105 | 32,652 | 10,019 | 8,361 | 1,735 | | | | | |
| AVG. | | 191 | 238 | 51 | 0 | 0 | 3 | 1,053 | 323 | 270 | 56 | | 147.5 | 72.1 | 5.9 | 69.2 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 32,942 | 9,494 |
| FALL | 5,465 | 1,051 |
| TOTAL | 77,259 | 22,797 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 9 | 0 | 18,167 | 49,434 | 15,462 | 985,466 | 2,974 | 1 |

TABLE 69

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 558 | 92 | 12 | 5 | 0 | 2,275 | 553 | 37 | 27 | | 107.7 | 0.2 | 6.0 | 70.0 |
| Sep 2 | | | 1,038 | 79 | 24 | 3 | 0 | 1,760 | 439 | 15 | 22 | | 94.8 | 0.0 | 6.0 | 70.0 |
| Sep 3 | | | 2,165 | 197 | 84 | 3 | 0 | 1,673 | 414 | 11 | 28 | | 97.1 | 0.0 | 6.0 | 71.0 |
| Sep 4 | | | 2,132 | 530 | 42 | 7 | 0 | 3,170 | 810 | 13 | 45 | | 97.7 | 0.0 | 6.0 | 71.0 |
| Sep 5 | | | 1,850 | 534 | 129 | 14 | 0 | 3,977 | 896 | 12 | 20 | | 107.8 | 0.0 | 6.0 | 70.0 |
| Sep 6 | | | 565 | 411 | 96 | 11 | 1 | 2,878 | 603 | 21 | 49 | | 103.9 | 6.1 | 6.0 | 70.0 |
| Sep 7 | | | 426 | 248 | 90 | 21 | 0 | 1,691 | 350 | 13 | 23 | | 82.4 | 0.0 | 6.0 | 70.0 |
| Sep 8 | | | 633 | 400 | 49 | 9 | 0 | 1,045 | 216 | 10 | 28 | | 71.0 | 0.0 | 6.0 | 70.0 |
| Sep 9 | | | 754 | 482 | 58 | 11 | 0 | 733 | 169 | 6 | 22 | | 72.1 | 0.0 | * | 70.0 |
| Sep 10 | | | 1,296 | 673 | 66 | 8 | 0 | 874 | 202 | 2 | 15 | | 79.1 | 0.0 | 6.0 | 70.0 |
| Sep 11 | | | 1,220 | 504 | 67 | 16 | 0 | 1,242 | 268 | 6 | 19 | | 88.5 | 0.0 | 6.0 | 70.0 |
| Sep 12 | | | 1,732 | 767 | 91 | 13 | 0 | 2,006 | 414 | 4 | 4 | | 83.5 | 0.0 | 6.0 | 70.0 |
| Sep 13 | | | 1,073 | 749 | 118 | 16 | 0 | 2,486 | 522 | 11 | 6 | | 90.2 | 0.0 | 6.0 | 70.0 |
| Sep 14 | | | 1,066 | 682 | 158 | 28 | 1 | 2,327 | 495 | 8 | 12 | | 95.0 | 0.0 | * | 70.0 |
| Sep 15 | | | 931 | 661 | 205 | 30 | 2 | 2,625 | 559 | 4 | 12 | | 87.8 | 0.0 | 6.0 | 69.0 |
| Sep 16 | | | 986 | 613 | 319 | 53 | 0 | 5,183 | 1,100 | 14 | 10 | | 66.5 | 0.0 | 6.0 | 69.0 |
| Sep 17 | | | 2,149 | 1,115 | 569 | 79 | 3 | 5,352 | 1,260 | 4 | 10 | | 79.0 | 0.0 | 6.0 | 69.0 |
| Sep 18 | | | 1,332 | 815 | 568 | 140 | 1 | 5,410 | 1,237 | 0 | 14 | | 79.2 | 0.0 | 6.0 | 69.0 |
| Sep 19 | | | 807 | 566 | 432 | 51 | 0 | 4,778 | 998 | 9 | 8 | | 79.1 | 0.0 | 6.0 | 69.0 |
| Sep 20 | | | 758 | 571 | 398 | 50 | 0 | 4,238 | 877 | 5 | 9 | | 91.3 | 0.0 | 6.0 | 68.0 |
| Sep 21 | | | 662 | 411 | 482 | 56 | -1 | 4,155 | 792 | 6 | 14 | | 89.6 | 0.0 | 6.0 | 68.0 |
| Sep 22 | | | 703 | 571 | 387 | 48 | 0 | 5,367 | 1,137 | 0 | 9 | | 69.0 | 0.0 | 6.0 | 66.0 |
| Sep 23 | | | 1,442 | 697 | 595 | 74 | 0 | 5,697 | 1,164 | 2 | 9 | | 60.3 | 0.0 | 6.0 | 66.0 |
| Sep 24 | | | 2,562 | 1,386 | 601 | 63 | -1 | 6,736 | 1,378 | 4 | 11 | | 61.7 | 0.0 | 6.0 | 65.0 |
| Sep 25 | | | 2,695 | 1,667 | 700 | 74 | 0 | 5,350 | 1,019 | 10 | 12 | | 85.9 | 0.0 | 6.0 | 65.0 |
| Sep 26 | | | 2,212 | 1,658 | 824 | 90 | 0 | 6,631 | 1,278 | 12 | 9 | | 88.2 | 0.0 | 6.0 | 65.0 |
| Sep 27 | | | 1,380 | 1,440 | 732 | 62 | 0 | 5,577 | 1,055 | 14 | 5 | | 78.3 | 0.0 | 6.0 | 63.0 |
| Sep 28 | | | 1,096 | 849 | 620 | 59 | 0 | 3,220 | 766 | 7 | 11 | | 70.0 | 0.0 | 6.0 | 63.0 |
| Sep 29 | | | 1,631 | 1,183 | 1,203 | 115 | 2 | 6,232 | 1,361 | 4 | 7 | | 66.2 | 0.0 | 6.0 | 63.0 |
| Sep 30 | | | 1,556 | 330 | 303 | 32 | -2 | 4,327 | 973 | 5 | 1 | | 62.5 | 0.0 | 6.0 | * |
| TOTAL | | | 39,410 | 20,881 | 10,022 | 1,241 | 6 | 109,015 | 23,305 | 269 | 471 | | | | | |
| AVG. | | | 1,314 | 696 | 334 | 41 | 0 | 3,634 | 777 | 9 | 16 | | 82.8 | 0.2 | 6.0 | 68.2 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 32,942 | 9,494 |
| FALL | 44,875 | 21,932 |
| TOTAL | 116,669 | 43,678 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 10,031 | 1,241 | 18,173 | 158,449 | 38,767 | 985,466 | 3,445 | 1 |

TABLE 70

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 470 | 347 | 350 | 49 | 0 | 1,786 | 389 | 2 | 4 | | 67.8 | 0.0 | 6.0 | 63.0 |
| Oct 2 | | | 738 | 589 | 444 | 48 | 1 | 3,271 | 733 | 3 | 5 | | 98.1 | 0.0 | 6.0 | 63.0 |
| Oct 3 | | | 853 | 612 | 434 | 60 | -1 | 4,464 | 1,035 | 4 | 0 | | 85.4 | 0.0 | 6.0 | 62.0 |
| Oct 4 | | | 522 | 419 | 376 | 43 | 0 | 2,741 | 622 | 1 | 1 | | 110.5 | 0.0 | 6.0 | 61.0 |
| Oct 5 | | | 368 | 266 | 395 | 58 | 0 | 2,500 | 579 | 2 | 1 | | 90.7 | 0.0 | 6.0 | 61.0 |
| Oct 6 | | | 591 | 365 | 927 | 114 | 0 | 3,485 | 770 | 0 | 0 | | 85.6 | 0.0 | 6.0 | 60.0 |
| Oct 7 | | | 506 | 266 | 1,214 | 119 | 0 | 3,253 | 799 | 0 | 1 | | 64.8 | 0.0 | 6.0 | 60.0 |
| Oct 8 | | | 784 | 289 | 1,171 | 125 | 0 | 3,221 | 726 | 0 | 0 | | 74.9 | 0.0 | 6.0 | 60.0 |
| Oct 9 | | | 408 | 183 | 689 | 67 | 0 | 1,864 | 405 | 7 | 0 | | 103.5 | 0.0 | 6.0 | 60.0 |
| Oct 10 | | | 413 | 112 | 577 | 41 | 0 | 1,501 | 349 | 1 | 2 | | 100.5 | 0.0 | 5.5 | 60.0 |
| Oct 11 | | | 389 | 196 | 486 | 46 | 0 | 1,279 | 300 | 1 | 0 | | 101.1 | 0.0 | 6.0 | 60.0 |
| Oct 12 | | | 298 | 223 | 174 | 28 | 0 | 1,353 | 362 | 2 | 0 | | 105.1 | 0.0 | 6.0 | 60.0 |
| Oct 13 | | | 380 | 178 | 117 | 8 | 0 | 865 | 232 | 0 | 0 | | 89.2 | 0.0 | 6.0 | 60.0 |
| Oct 14 | | | 432 | 199 | 109 | 11 | 1 | 949 | 222 | -1 | 0 | | 75.8 | 0.0 | 6.0 | 60.0 |
| Oct 15 | | | 522 | 182 | 123 | 14 | 0 | 1,035 | 285 | -7 | 0 | | 84.0 | 0.0 | 6.0 | 60.0 |
| Oct 16 | | | 635 | 318 | 211 | 18 | 0 | 1,572 | 369 | 0 | 0 | | 86.4 | 0.0 | 6.0 | 60.0 |
| Oct 17 | | | 856 | 271 | 166 | 46 | 0 | 1,513 | 337 | 4 | 0 | | 88.1 | 0.0 | 6.0 | 60.0 |
| Oct 18 | | | 537 | 170 | 154 | 27 | 1 | 1,579 | 402 | 4 | 0 | | 112.4 | 0.0 | 6.0 | 60.0 |
| Oct 19 | | | 257 | 104 | 75 | 11 | 0 | 947 | 255 | 4 | 0 | | 81.4 | 0.0 | 6.0 | 60.0 |
| Oct 20 | | | 203 | 116 | 87 | 16 | 0 | 957 | 260 | 0 | 0 | | 78.4 | 0.0 | 6.0 | 59.0 |
| Oct 21 | | | 215 | 102 | 118 | 9 | 0 | 1,246 | 298 | 0 | 0 | | 82.9 | 0.0 | 6.0 | 58.0 |
| Oct 22 | | | 318 | 93 | 273 | 17 | 0 | 841 | 216 | 0 | 0 | | 87.4 | 0.0 | 6.0 | 58.0 |
| Oct 23 | | | 436 | 102 | 409 | 21 | 0 | 1,145 | 304 | 1 | 0 | | 94.7 | 0.0 | 6.0 | 57.0 |
| Oct 24 | | | 295 | 60 | 365 | 31 | 0 | 1,259 | 341 | 0 | 0 | | 98.1 | 0.0 | 6.0 | 57.0 |
| Oct 25 | | | 278 | 75 | 316 | 29 | 0 | 1,616 | 451 | 0 | -7 | | 97.0 | 0.0 | * | 56.0 |
| Oct 26 | | | 135 | 73 | 157 | 38 | 0 | 1,582 | 504 | 11 | 1 | | 84.5 | 0.0 | 6.0 | 56.0 |
| Oct 27 | | | 89 | 23 | 85 | 11 | 0 | 762 | 196 | 1 | 0 | | 88.4 | 0.0 | 6.0 | 56.0 |
| Oct 28 | | | 156 | 40 | 65 | 10 | 0 | 612 | 153 | 0 | 1 | | 88.1 | 0.0 | 6.0 | 56.0 |
| Oct 29 | | | 151 | 31 | 52 | 6 | 0 | 478 | 107 | 0 | 0 | | 88.3 | 0.0 | 6.0 | 55.0 |
| Oct 30 | | | 88 | 27 | 40 | 3 | 0 | 441 | 142 | 0 | 0 | | 90.7 | 0.0 | 6.0 | 55.0 |
| Oct 31 | | | 70 | 31 | 27 | 5 | 0 | 222 | 48 | 1 | 0 | | 95.0 | 0.0 | 6.0 | 55.0 |
| TOTAL | | | 12,393 | 6,062 | 10,186 | 1,129 | 2 | 50,339 | 12,191 | 41 | 9 | | | | | |
| AVG. | | | 400 | 196 | 329 | 36 | 0 | 1,624 | 393 | 1 | 0 | | 89.6 | 0.0 | 6.0 | 59.0 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|---|
| SPRING | 38,852 | 12,252 | 20,217 | 2,370 | 18,175 | 208,788 | 50,958 | 985,466 | 3,454 | 1 |
| SUMMER | 32,942 | 9,494 | | | | | | | | |
| FALL | 57,268 | 27,994 | | | | | | | | |
| TOTAL | 129,062 | 49,740 | | | | | | | | |

Note: Visual counts ended October 31.

Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.

TABLE 71

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 182 | 18 | 33 | 2 | | 313 | 87 | | | | 89.3 | 0.0 | 6.0 | 55.0 |
| Nov 2 | | | 114 | 25 | 23 | 2 | | 261 | 68 | | | | 88.9 | 0.0 | 6.0 | 55.0 |
| Nov 3 | | | 72 | 18 | 36 | 1 | | 259 | 70 | | | | 89.9 | 0.0 | 6.0 | 54.0 |
| Nov 4 | | | 81 | 12 | 21 | 3 | | 254 | 76 | | | | 79.3 | 0.0 | 6.0 | 54.0 |
| Nov 5 | | | 95 | 8 | 27 | 6 | | 256 | 64 | | | | 94.4 | 0.0 | 6.0 | 54.0 |
| Nov 6 | | | 64 | 4 | 13 | 6 | | 133 | 33 | | | | 101.2 | 0.0 | 6.0 | 54.0 |
| Nov 7 | | | 85 | 8 | 5 | 0 | | 185 | 62 | | | | 93.6 | 0.0 | 6.0 | 54.0 |
| Nov 8 | | | 61 | 15 | 7 | 1 | | 90 | 24 | | | | 80.1 | 0.0 | 6.0 | 54.0 |
| Nov 9 | | | 61 | 6 | 4 | 1 | | 83 | 18 | | | | 82.3 | 0.0 | 6.0 | 53.0 |
| Nov 10 | | | 94 | 5 | 13 | 2 | | 95 | 26 | | | | 106.3 | 0.0 | 6.0 | 53.0 |
| Nov 11 | | | 46 | 8 | 7 | 1 | | 116 | 30 | | | | 113.5 | 0.0 | 6.0 | 53.0 |
| Nov 12 | | | 27 | 8 | 10 | 0 | | 132 | 32 | | | | 115.4 | 0.0 | 6.0 | 53.0 |
| Nov 13 | | | 48 | 3 | 1 | -1 | | 122 | 34 | | | | 126.4 | 0.0 | 6.0 | 53.0 |
| Nov 14 | | | 64 | 7 | 4 | 1 | | 173 | 51 | | | | 123.7 | 0.0 | 6.0 | 52.0 |
| Nov 15 | | | 31 | 3 | 4 | -2 | | 105 | 24 | | | | 119.1 | 0.0 | 6.0 | 52.0 |
| Nov 16 | | | 25 | 2 | 1 | 1 | | 92 | 34 | | | | 118.3 | 0.0 | 6.0 | 52.0 |
| Nov 17 | | | 41 | 0 | 0 | 0 | | 80 | 24 | | | | 96.8 | 0.0 | 6.0 | 52.0 |
| Nov 18 | | | 33 | 1 | 3 | 0 | | 98 | 30 | | | | 100.2 | 0.0 | 6.0 | 52.0 |
| Nov 19 | | | 18 | 0 | -4 | 0 | | 85 | 17 | | | | 95.6 | 0.0 | 6.0 | 52.0 |
| Nov 20 | | | 23 | 0 | 2 | 0 | | 49 | 12 | | | | 95.2 | 0.0 | 6.0 | 51.0 |
| Nov 21 | | | 14 | -1 | 0 | 0 | | 49 | 15 | | | | 118.5 | 0.0 | 6.0 | 51.0 |
| Nov 22 | | | 16 | 0 | -2 | 1 | | 245 | 69 | | | | 97.3 | 0.0 | 6.0 | 51.0 |
| Nov 23 | | | 4 | 2 | 3 | 0 | | 373 | 107 | | | | 106.6 | 0.0 | 6.0 | 50.0 |
| Nov 24 | | | 7 | 2 | 2 | 0 | | 198 | 53 | | | | 117.4 | 0.0 | 6.0 | 50.0 |
| Nov 25 | | | 21 | 5 | 1 | 0 | | 258 | 72 | | | | 106.2 | 0.0 | 6.0 | 50.0 |
| Nov 26 | | | 6 | 1 | 1 | 0 | | 161 | 46 | | | | 123.6 | 0.0 | 6.0 | 49.0 |
| Nov 27 | | | 11 | 0 | 0 | 0 | | 117 | 34 | | | | 132.2 | 0.0 | 6.0 | 48.0 |
| Nov 28 | | | 7 | 0 | 1 | 0 | | 109 | 26 | | | | 117.0 | 0.0 | 6.0 | 47.0 |
| Nov 29 | | | 14 | 0 | 0 | 0 | | 154 | 40 | | | | 126.6 | 0.0 | 6.0 | 47.0 |
| Nov 30 | | | 13 | 0 | -3 | 0 | | 160 | 49 | | | | 120.8 | 0.0 | 6.0 | 47.0 |
| TOTAL | | | 1,378 | 160 | 213 | 25 | | 4,805 | 1,327 | | | | | | | |
| AVG. | | | 46 | 5 | 7 | 1 | | 160 | 44 | | | | 105.9 | 0.0 | 6.0 | 51.7 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 32,942 | 9,494 |
| FALL | 57,268 | 27,994 |
| TOTAL | 129,062 | 49,740 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 20,217 | 2,370 | 18,175 | 208,788 | 50,958 | 985,466 | 3,454 | 1 |

Note: November counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

**Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.**

TABLE 72

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **MCNARY PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **DECEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Dec 1 | | | 9 | 0 | -1 | | | 60 | 20 | | | | 112.3 | 0.0 | 6.0 | 46.0 |
| Dec 2 | | | 11 | 0 | 2 | | | 67 | 25 | | | | 107.1 | 0.0 | 6.0 | 46.0 |
| Dec 3 | | | 10 | 1 | 0 | | | 79 | 20 | | | | 93.7 | 0.0 | 6.0 | 46.0 |
| Dec 4 | | | 10 | 2 | 1 | | | 74 | 18 | | | | 98.5 | 0.0 | 6.0 | 47.0 |
| Dec 5 | | | 2 | -1 | 0 | | | 34 | 16 | | | | 113.4 | 0.0 | 6.0 | 47.0 |
| Dec 6 | | | 1 | 1 | 0 | | | 62 | 12 | | | | 109.8 | 0.0 | * | 47.0 |
| Dec 7 | | | 3 | -1 | 0 | | | 64 | 20 | | | | 105.0 | 0.0 | 6.0 | 47.0 |
| Dec 8 | | | 4 | 0 | 1 | | | 101 | 35 | | | | 124.8 | 0.1 | 6.0 | 46.0 |
| Dec 9 | | | 2 | 0 | 0 | | | 51 | 13 | | | | 125.3 | 0.1 | 6.0 | 46.0 |
| Dec 10 | | | 3 | 1 | 0 | | | 196 | 64 | | | | 152.3 | 0.0 | 5.5 | 46.0 |
| Dec 11 | | | 0 | 0 | 0 | | | 110 | 43 | | | | 159.7 | 0.0 | 5.8 | 45.0 |
| Dec 12 | | | 5 | 0 | 0 | | | 98 | 20 | | | | 109.1 | 0.0 | 6.0 | 45.0 |
| Dec 13 | | | 1 | 0 | 1 | | | 86 | 13 | | | | 110.7 | 0.0 | 6.0 | 44.0 |
| Dec 14 | | | 0 | 0 | 0 | | | 123 | 42 | | | | 148.5 | 0.0 | 6.0 | 44.0 |
| Dec 15 | | | 6 | 0 | -1 | | | 34 | 11 | | | | 126.2 | 0.0 | 6.0 | 43.0 |
| Dec 16 | | | 3 | 1 | -1 | | | 66 | 6 | | | | 93.8 | 0.0 | 6.0 | 42.0 |
| Dec 17 | | | 1 | -1 | 0 | | | 69 | 20 | | | | 90.1 | 0.0 | 6.0 | 42.0 |
| Dec 18 | | | 5 | 0 | 0 | | | 22 | 9 | | | | 92.7 | 0.0 | 6.0 | 42.0 |
| Dec 19 | | | 3 | 0 | 0 | | | 30 | 8 | | | | 122.3 | 0.0 | 6.0 | 42.0 |
| Dec 20 | | | 2 | 0 | 0 | | | 35 | 11 | | | | 139.4 | 0.0 | 6.0 | 43.0 |
| Dec 21 | | | 1 | 0 | 0 | | | 40 | 17 | | | | 137.2 | 0.0 | 6.0 | 42.0 |
| Dec 22 | | | 4 | 0 | -1 | | | 32 | 7 | | | | 130.5 | 0.0 | 6.0 | 42.0 |
| Dec 23 | | | 0 | 0 | 0 | | | 25 | 7 | | | | 127.9 | 0.0 | 6.0 | 42.0 |
| Dec 24 | | | 0 | 0 | 0 | | | 55 | 23 | | | | 116.0 | 0.0 | 6.0 | 42.0 |
| Dec 25 | | | 0 | 0 | -1 | | | 21 | 9 | | | | 111.2 | 0.0 | 6.0 | 43.0 |
| Dec 26 | | | 1 | 0 | 0 | | | 28 | 13 | | | | 108.1 | 0.0 | 6.0 | 43.0 |
| Dec 27 | | | 0 | 0 | 0 | | | 21 | 8 | | | | 153.7 | 0.0 | 6.0 | 42.0 |
| Dec 28 | | | 0 | 0 | 0 | | | 28 | 6 | | | | 159.2 | 0.0 | 6.0 | 41.0 |
| Dec 29 | | | 1 | 0 | 0 | | | 7 | 0 | | | | 140.2 | 0.0 | 6.0 | 41.0 |
| Dec 30 | | | 1 | 0 | 0 | | | 35 | 12 | | | | 99.9 | 0.0 | 6.0 | 41.0 |
| Dec 31 | | | 0 | 0 | 0 | | | 33 | 8 | | | | 104.2 | 0.0 | 6.0 | 41.0 |
| TOTAL | | | 89 | 3 | 0 | | | 1,786 | 536 | | | | | | | |
| AVG. | | | 3 | 0 | 0 | | | 58 | 17 | | | | 120.1 | 0.0 | 6.0 | 43.7 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 38,852 | 12,252 |
| SUMMER | 32,942 | 9,494 |
| FALL | 57,268 | 27,994 |
| TOTAL | 129,062 | 49,740 |

| COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 20,217 | 2,370 | 18,175 | 208,788 | 50,958 | 985,466 | 3,454 | 1 |

Note: December counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

**Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.**

TABLE 73

**YEARLY TOTALS OF SALMONIDS COUNTED OVER McNARY DAM**
**1954 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS* |
|---|---|---|---|---|---|
| 1954 | 126,555 | 75,059 | 108,181 | 950 | 310,745 |
| 1955 | 108,915 | 85,575 | 173,758 | 643 | 368,891 |
| 1956 | 114,342 | 42,554 | 102,145 | 683 | 259,724 |
| 1957 | 292,696 | 105,728 | 85,460 | 2,855 | 486,739 |
| 1958 | 226,092 | 87,890 | 102,397 | 1,350 | 417,729 |
| 1959 | 171,490 | 110,475 | 83,977 | 1,970 | 367,912 |
| 1960 | 176,767 | 96,895 | 55,372 | 1,580 | 330,614 |
| 1961 | 154,996 | 103,743 | 16,388 | 2,045 | 277,172 |
| 1962 | 152,756 | 163,181 | 29,372 | 3,195 | 348,504 |
| 1963 | 154,459 | 113,646 | 59,744 | 3,113 | 330,962 |
| 1964 | 167,934 | 100,742 | 83,931 | 3,317 | 355,924 |
| 1965 | 150,907 | 118,960 | 42,052 | 2,700 | 314,619 |
| 1966 | 223,141 | 145,130 | 173,028 | 8,525 | 549,824 |
| 1967 | 195,653 | 77,700 | 105,635 | 27,226 | 406,214 |
| 1968 | 200,488 | 112,522 | 101,007 | 39,518 | 453,535 |
| 1969 | 213,407 | 76,681 | 29,787 | 53,716 | 373,591 |
| 1970 | 168,892 | 69,759 | 59,636 | 36,399 | 334,686 |
| 1971 | 171,448 | 109,630 | 52,867 | 39,358 | 373,303 |
| 1972 | 168,821 | 93,820 | 26,422 | 45,635 | 334,698 |
| 1973 | 184,112 | 64,620 | 42,731 | 17,682 | 309,145 |
| 1974 | 127,858 | 26,932 | 26,505 | 13,746 | 195,041 |
| 1975 | 133,150 | 23,663 | 43,143 | 3,975 | 203,931 |
| 1976 | 163,314 | 54,000 | 24,632 | 7,539 | 249,485 |
| 1977 | 183,581 | 87,712 | 80,781 | 4,622 | 356,696 |
| 1978 | 144,148 | 34,740 | 18,511 | 20,356 | 217,755 |
| 1979 | 95,275 | 50,304 | 37,792 | 12,800 | 196,171 |
| 1980 | 80,773 | 66,524 | 44,301 | 571 | 192,169 |
| 1981 | 80,619 | 61,985 | 26,644 | 3,736 | 172,984 |
| 1982 | 102,225 | 75,099 | 15,077 | 3,119 | 195,520 |
| 1983 | 121,636 | 125,254 | 40,903 | 2,470 | 290,263 |
| 1984 | 159,071 | 135,515 | 56,906 | 2,841 | 354,333 |
| 1985 | 288,483 | 188,204 | 98,457 | 6,917 | 582,061 |
| 1986 | 342,417 | 193,481 | 46,443 | 1,374 | 583,715 |
| 1987 | 286,638 | 148,811 | 72,190 | 615 | 508,254 |
| 1988 | 243,608 | 151,765 | 50,080 | 2,010 | 447,463 |
| 1989 | 176,407 | 170,467 | 41,318 | 3,383 | 391,575 |
| 1990 | 147,439 | 95,061 | 46,145 | 2,059 | 290,704 |
| 1991 | 114,841 | 168,692 | 69,365 | 2,272 | 355,170 |
| 1992 | 135,707 | 194,026 | 68,737 | 1,801 | 400,271 |
| 1993 | 143,412 | 93,183 | 66,485 | 481 | 303,561 |
| 1994 | 128,868 | 94,427 | 10,603 | 1,735 | 235,633 |
| 1995 | 113,354 | 114,910 | 8,320 | 1,021 | 237,605 |
| 1996 | 114,947 | 124,177 | 28,585 | 1,853 | 269,562 |
| 1997 | 162,946 | 129,817 | 38,043 | 2,580 | 333,386 |
| 1998 | 114,604 | 99,705 | 9,391 | 6,173 | 229,873 |
| 1999 | 121,946 | 84,088 | 11,884 | 4,934 | 222,852 |
| 2000 | 191,231 | 130,332 | 60,242 | 11,152 | 392,957 |
| 2001 | 489,784 | 398,784 | 97,188 | 24,730 | 1,010,486 |
| 2002 | 417,090 | 286,805 | 39,424 | 3,192 | 746,511 |
| 2003 | 420,603 | 230,418 | 32,037 | 19,830 | 702,888 |
| 2004 | 384,808 | 212,683 | 89,707 | 20,570 | 707,768 |
| 2005 | 270,003 | 224,292 | 63,540 | 20,600 | 578,435 |
| 2006 | 219,191 | 206,155 | 29,295 | 13,923 | 468,564 |
| 2007 | 180,435 | 221,534 | 18,175 | 22,825 | 442,969 |
| Totals | 10,124,283 | 6,657,855 | 3,044,739 | 544,265 | 20,371,142 |
| 10-Year Average | 280,970 | 209,480 | 45,088 | 14,793 | 550,330 |

*Jacks included

TABLE 74

**MONTHLY COUNT OF CHINOOK SALMON**
**McNARY DAM**
**1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING MAR 15-JUN 8 | SUMMER JUN 9-AUG 8 | FALL AUG 9-OCT 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954 | | | 14 | 919 | 42,625 | 28,510 | 35,993 | 9,287 | 8,626 | 568 | 13 | | 126,555 | 52,014 | 61,065 | 13,476 |
| 1955 | | | | 86 | 12,778 | 26,125 | 46,021 | 14,773 | 7,220 | 1,648 | 264 | | 108,915 | 21,309 | 71,180 | 16,426 |
| 1956 | | | 7 | 307 | 10,746 | 34,360 | 50,409 | 11,073 | 5,636 | 1,360 | 444 | | 114,342 | 12,717 | 90,335 | 11,290 |
| 1957 | | | 6 | 14,489 | 67,939 | 91,473 | 41,485 | 25,621 | 48,685 | 2,998 | | | 292,696 | 99,511 | 122,578 | 70,607 |
| 1958 | | | | 1,864 | 36,684 | 61,898 | 25,140 | 11,120 | 82,890 | 6,496 | | | 226,092 | 54,910 | 73,654 | 97,528 |
| 1959 | | | | 3,914 | 31,923 | 23,461 | 51,478 | 14,929 | 42,756 | 3,029 | | | 171,490 | 40,775 | 74,985 | 55,730 |
| 1960 | | | | 4,808 | 44,721 | 49,506 | 25,710 | 13,376 | 35,329 | 3,317 | | | 176,767 | 52,490 | 76,940 | 47,337 |
| 1961 | | | | 21,669 | 44,260 | 19,722 | 23,192 | 10,661 | 31,447 | 4,045 | | | 154,996 | 68,539 | 45,257 | 41,200 |
| 1962 | | | | 10,527 | 44,053 | 28,621 | 21,008 | 11,751 | 33,541 | 3,255 | | | 152,756 | 55,884 | 52,756 | 44,116 |
| 1963 | | | | 7,765 | 42,804 | 22,454 | 18,659 | 13,757 | 43,731 | 5,289 | | | 154,459 | 52,336 | 44,760 | 57,363 |
| 1964 | | | | 19,856 | 33,310 | 10,893 | 39,334 | 14,930 | 45,514 | 4,097 | | | 167,934 | 54,279 | 55,062 | 58,593 |
| 1965 | | | | 6,114 | 20,559 | 14,094 | 28,599 | 12,856 | 60,185 | 8,500 | | | 150,907 | 29,206 | 45,375 | 76,326 |
| 1966 | | | | 53,484 | 32,282 | 21,161 | 35,895 | 13,811 | 58,275 | 8,233 | | | 223,141 | 87,195 | 60,827 | 75,119 |
| 1967 | | | | 32,790 | 28,174 | 13,244 | 44,612 | 10,788 | 54,314 | 11,731 | | | 195,653 | 62,591 | 59,975 | 73,087 |
| 1968 | | | | 13,328 | 51,443 | 20,456 | 37,127 | 15,713 | 53,597 | 8,824 | | | 200,488 | 67,092 | 60,639 | 72,757 |
| 1969 | | | | 809 | 60,241 | 39,074 | 30,556 | 12,200 | 59,889 | 10,638 | | | 213,407 | 70,079 | 63,953 | 79,375 |
| 1970 | | | | 28,015 | 34,027 | 18,661 | 23,132 | 13,773 | 44,635 | 6,649 | | | 168,892 | 63,982 | 43,356 | 61,554 |
| 1971 | | | | 5,642 | 32,688 | 24,007 | 35,152 | 9,680 | 55,297 | 8,982 | | | 171,448 | 42,601 | 59,129 | 69,718 |
| 1972 | | | | 25,911 | 41,609 | 12,553 | 35,322 | 10,154 | 37,131 | 6,141 | | | 168,821 | 69,023 | 50,491 | 49,307 |
| 1973 | | | | 44,878 | 31,727 | 16,836 | 14,520 | 10,400 | 57,716 | 8,035 | | | 184,112 | 79,047 | 31,812 | 73,253 |
| 1974 | | | | 1,918 | 34,767 | 7,976 | 18,181 | 6,251 | 45,845 | 12,920 | | | 127,858 | 40,037 | 25,812 | 62,009 |
| 1975 | | | | 4,694 | 24,752 | 11,590 | 20,497 | 12,485 | 53,125 | 6,007 | | | 133,150 | 32,718 | 31,713 | 68,719 |
| 1976 | | | | 4,868 | 30,435 | 16,714 | 19,821 | 9,143 | 64,863 | 17,470 | | | 163,314 | 38,505 | 36,818 | 87,991 |
| 1977 | | | | 40,692 | 23,895 | 16,768 | 16,256 | 7,348 | 64,785 | 13,837 | | | 183,581 | 66,934 | 32,277 | 84,370 |
| 1978 | | | | 27,191 | 37,613 | 14,505 | 18,095 | 7,799 | 30,273 | 7,296 | 1,376 | | 144,148 | 68,414 | 31,589 | 44,145 |
| 1979 | | | 6 | 5,424 | 13,696 | 9,763 | 14,601 | 8,030 | 34,702 | 8,171 | 882 | | 95,275 | 21,153 | 24,161 | 49,961 |
| 1980 | | | 3 | 3,481 | 18,108 | 6,705 | 12,166 | 7,001 | 24,409 | 8,284 | 616 | | 80,773 | 23,001 | 18,862 | 38,910 |
| 1981 | | | 3 | 12,923 | 16,904 | 8,288 | 8,243 | 5,584 | 23,323 | 4,926 | 425 | | 80,619 | 32,330 | 15,141 | 33,148 |
| 1982 | | | 3 | 1,638 | 23,487 | 10,357 | 8,749 | 5,091 | 44,276 | 8,624 | | | 102,225 | 28,352 | 16,574 | 57,299 |
| 1983 | | | | 4,481 | 25,074 | 9,202 | 7,882 | 5,217 | 54,339 | 15,441 | | | 121,636 | 31,636 | 16,199 | 73,801 |
| 1984 | | | | 1,772 | 23,806 | 9,235 | 12,256 | 8,845 | 79,004 | 23,391 | 767 | | 159,076 | 27,474 | 21,201 | 110,401 |
| 1985 | | | 18 | 18,267 | 41,962 | 14,117 | 9,912 | 17,222 | 140,034 | 46,951 | | | 288,483 | 63,265 | 22,029 | 203,189 |

TABLE 74

**(Continued)**

**MONTHLY COUNT OF CHINOOK SALMON**
**McNARY DAM: 1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING MAR 15-JUN 8 | SUMMER JUN 9-AUG 8 | FALL AUG 9-OCT 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | | | 2 | 28,739 | 44,459 | 14,515 | 12,315 | 9,636 | 168,230 | 64,521 | | | 342,417 | 76,077 | 25,798 | 240,542 |
| 1987 | | | | 26,258 | 32,171 | 12,889 | 11,219 | 19,123 | 151,410 | 33,568 | | | 286,638 | 60,396 | 25,353 | 200,889 |
| 1988 | | | | 26,267 | 22,245 | 14,605 | 9,282 | 30,714 | 115,878 | 24,617 | | | 243,608 | 51,178 | 23,621 | 168,809 |
| 1989 | | | | 9,625 | 24,281 | 12,484 | 11,112 | 23,034 | 80,089 | 15,782 | | | 176,407 | 35,954 | 24,708 | 115,745 |
| 1990 | | | | 19,309 | 23,861 | 11,007 | 11,148 | 7,306 | 61,718 | 13,090 | | | 147,439 | 44,499 | 22,248 | 80,692 |
| 1991 | | | | 4,942 | 15,838 | 9,289 | 9,409 | 4,328 | 56,251 | 13,674 | 1,074 | 36 | 114,841 | 22,631 | 17,588 | 74,622 |
| 1992 | | | | 25,549 | 22,799 | 9,511 | 6,159 | 5,846 | 51,961 | 13,882 | | | 135,707 | 50,590 | 14,414 | 70,703 |
| 1993 | | | | 18,649 | 37,255 | 14,880 | 8,119 | 8,414 | 48,093 | 8,002 | | | 143,412 | 59,556 | 20,374 | 63,482 |
| 1994 | | | | 2,940 | 5,513 | 5,486 | 8,242 | 11,085 | 80,693 | 14,909 | | | 128,868 | 8,987 | 14,313 | 105,568 |
| 1995 | | | | 1,392 | 3,871 | 4,343 | 8,270 | 13,224 | 61,633 | 20,621 | | | 113,354 | 5,930 | 13,219 | 94,205 |
| 1996 | | | | 426 | 15,212 | 8,242 | 8,206 | 13,964 | 56,847 | 12,050 | | | 114,947 | 17,832 | 15,102 | 82,013 |
| 1997 | | | | 6,529 | 44,264 | 18,384 | 10,584 | 6,892 | 63,484 | 12,809 | | | 162,946 | 56,826 | 23,649 | 82,471 |
| 1998 | | | | 6,645 | 11,964 | 9,965 | 8,249 | 5,652 | 50,987 | 21,142 | | | 114,604 | 19,752 | 17,634 | 77,218 |
| 1999 | | | | 1,193 | 10,841 | 7,570 | 13,475 | 15,402 | 59,360 | 14,105 | | | 121,946 | 13,232 | 21,618 | 87,096 |
| 2000 | | | | 25,136 | 46,396 | 16,096 | 13,641 | 27,931 | 50,138 | 11,893 | | | 191,231 | 75,644 | 27,696 | 87,891 |
| 2001 | | | | 164,846 | 86,605 | 50,064 | 36,562 | 16,605 | 111,369 | 23,733 | | | 489,784 | 265,372 | 77,514 | 146,898 |
| 2002 | | | | 14,867 | 108,862 | 65,935 | 56,149 | 26,798 | 123,089 | 21,390 | | | 417,090 | 133,229 | 116,747 | 167,114 |
| 2003 | | | 853 | 53,947 | 46,116 | 57,732 | 50,157 | 13,667 | 166,635 | 32,349 | 1,750 | 157 | 423,363 | 107,522 | 104,948 | 208,982 |
| 2004 | | | 72 | 53,405 | 53,267 | 47,903 | 32,067 | 12,212 | 149,297 | 34,795 | 1,659 | 131 | 384,808 | 115,251 | 74,217 | 193,550 |
| 2005 | | | 4 | 6,750 | 38,439 | 45,654 | 28,928 | 11,655 | 111,701 | 25,976 | 825 | 71 | 270,003 | 55,056 | 66,858 | 147,189 |
| 2006 | | | 1 | 121 | 43,778 | 40,077 | 27,708 | 10,210 | 71,105 | 24,186 | 1,810 | 195 | 219,191 | 48,361 | 65,998 | 102,590 |
| 2007 | | | 3 | 7,073 | 38,622 | 27,760 | 18,036 | 8,565 | 60,291 | 18,455 | 1,538 | 92 | 180,435 | 51,104 | 42,436 | 85,262 |
| Total | | | 995 | 929,132 | 1,835,751 | 1,216,720 | 1,229,040 | 662,932 | 3,475,651 | 762,702 | 13,443 | 682 | 10,127,048 | 2,984,378 | 2,392,558 | 4,741,636 |
| 10-Year Average | | | | 33,398 | 48,489 | 36,876 | 28,497 | 14,870 | 95,397 | 22,802 | | | 281,246 | 88,452 | 61,567 | 130,379 |

*Jacks included

TABLE 75

**MONTHLY COUNT OF SOCKEYE SALMON**
**McNARY DAM**
**1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954 | | | | | 1 | 1,107 | 93,452 | 11,382 | 2,214 | 25 | | | 108,181 |
| 1955 | | | | | 43 | 287 | 163,902 | 9,402 | 121 | 3 | | | 173,758 |
| 1956 | | | | | 1 | 639 | 94,352 | 6,882 | 262 | 7 | 2 | | 102,145 |
| 1957 | | | | | 13 | 6,318 | 74,874 | 4,233 | 22 | | | | 85,460 |
| 1958 | | | | | | 12,542 | 82,547 | 5,474 | 1,819 | 15 | | | 102,397 |
| 1959 | | | | | 21 | 2,031 | 73,735 | 7,981 | 209 | | | | 83,977 |
| 1960 | | | | | | 9,374 | 43,749 | 2,241 | 8 | | | | 55,372 |
| 1961 | | | | | | 1,088 | 14,149 | 1,138 | 11 | 2 | | | 16,388 |
| 1962 | | | | | | 1,721 | 27,134 | 511 | 6 | | | | 29,372 |
| 1963 | | | | | 78 | 8,712 | 50,415 | 535 | 4 | | | | 59,744 |
| 1964 | | | | | | 770 | 81,536 | 1,617 | 8 | | | | 83,931 |
| 1965 | | | | | | 328 | 40,790 | 923 | 10 | 1 | | | 42,052 |
| 1966 | | | | | | 6,202 | 162,267 | 4,548 | 11 | | | | 173,028 |
| 1967 | | | | | | 1,935 | 101,044 | 2,647 | 9 | | | | 105,635 |
| 1968 | | | | | | 28,928 | 70,413 | 1,666 | | | | | 101,007 |
| 1969 | | | | | | 5,787 | 23,353 | 647 | | | | | 29,787 |
| 1970 | | | | | | 7,152 | 47,339 | 5,134 | 11 | | | | 59,636 |
| 1971 | | | | | | 317 | 50,568 | 1,982 | | | | | 52,867 |
| 1972 | | | | | | 366 | 24,452 | 1,604 | | | | | 26,422 |
| 1973 | | | | | | 9,011 | 32,301 | 999 | 420 | | | | 42,731 |
| 1974 | | | | | | 188 | 25,816 | 486 | 15 | | | | 26,505 |
| 1975 | | | | | | 1,517 | 41,011 | 615 | | | | | 43,143 |
| 1976 | | | | | | 4,461 | 19,319 | 415 | 437 | | | | 24,632 |
| 1977 | | | | | 8 | 36,708 | 43,077 | 739 | 207 | 42 | | | 80,781 |
| 1978 | | | | | | 3,211 | 10,376 | 714 | 1,583 | 2,627 | | | 18,511 |
| 1979 | | | | | | 6,317 | 29,571 | 1,547 | 321 | 36 | | | 37,792 |
| 1980 | | | | | | 3,400 | 40,469 | 432 | | | | | 44,301 |
| 1981 | | | | | | 4,419 | 22,042 | 180 | 1 | 2 | | | 26,644 |
| 1982 | | | | | | 812 | 13,489 | 281 | 292 | 203 | | | 15,077 |
| 1983 | | | | | | 5,897 | 33,851 | 997 | 142 | 16 | | | 40,903 |
| 1984 | | | | | | 18,762 | 37,409 | 637 | 85 | 11 | 2 | | 56,906 |
| 1985 | | | | 1 | | 60,067 | 36,567 | 522 | 593 | 707 | | | 98,457 |

TABLE 75

**(Continued)**

**MONTHLY COUNT OF SOCKEYE SALMON**
**McNARY DAM; 1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | | | | | | 8,362 | 36,863 | 819 | 348 | 51 | | | 46,443 |
| 1987 | | | | | 4 | 28,742 | 42,464 | 889 | 85 | 6 | | | 72,190 |
| 1988 | | | | | | 23,466 | 25,984 | 599 | 14 | 17 | | | 50,080 |
| 1989 | | | | | 1 | 14,721 | 26,239 | 334 | 21 | 2 | | | 41,318 |
| 1990 | | | | | 1 | 8,922 | 36,791 | 427 | 0 | 4 | | | 46,145 |
| 1991 | | | | | 1 | 6,509 | 61,780 | 1,024 | 38 | 11 | 1 | 1 | 69,365 |
| 1992 | | | | | 7 | 30,339 | 37,915 | 448 | 28 | | | | 68,737 |
| 1993 | | | | | | 26,492 | 39,607 | 377 | 9 | | | | 66,485 |
| 1994 | | | | | 1 | 5,910 | 4,672 | 20 | | | | | 10,603 |
| 1995 | | | | | 1 | 3,001 | 5,259 | 58 | | 1 | | | 8,320 |
| 1996 | | | | | | 11,594 | 16,927 | 64 | | | | | 28,585 |
| 1997 | | | | | | 7,706 | 29,645 | 688 | 4 | | | | 38,043 |
| 1998 | | | | | | 3,585 | 5,754 | 45 | 7 | | | | 9,391 |
| 1999 | | | | | | 2,842 | 8,940 | 99 | 1 | 2 | | | 11,884 |
| 2000 | | | | | 4 | 44,379 | 15,752 | 106 | 1 | | | | 60,242 |
| 2001 | | | | | 4 | 70,327 | 26,610 | 225 | 17 | 5 | | | 97,188 |
| 2002 | | | | | 1 | 12,518 | 26,745 | 156 | 2 | 2 | | | 39,424 |
| 2003 | | | | | 4 | 13,277 | 18,728 | 28 | 0 | | | | 32,037 |
| 2004 | | | | | 10 | 61,547 | 28,107 | 38 | 5 | | | | 89,707 |
| 2005 | | | | | | 27,341 | 36,009 | 182 | 8 | | | | 63,540 |
| 2006 | | | | | 0 | 14,675 | 14,473 | 142 | 5 | | | | 29,295 |
| 2007 | | | | | 1 | 11,087 | 6,974 | 105 | 6 | 2 | | | 18,175 |
| Total | | | | 1 | 205 | 687,716 | 2,257,607 | 85,984 | 9,420 | 3,800 | 5 | 1 | 3,044,739 |
| 10-Year Average | | | | | | 26,158 | 18,809 | 113 | 5 | | | | 45,088 |

TABLE 76

**MONTHLY COUNT OF COHO SALMON**
**McNARY DAM**
**1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954 | | | | | | | | 4 | 751 | 180 | 14 | 1 | 950 |
| 1955 | | | | | | | | | 350 | 260 | 33 | | 643 |
| 1956 | | | | | | | | 16 | 462 | 157 | 48 | | 683 |
| 1957 | | | | | | | 18 | 208 | 2,364 | 265 | | | 2,855 |
| 1958 | | | | | | | | 29 | 1,091 | 230 | | | 1,350 |
| 1959 | | | | | | | | 32 | 1,892 | 46 | | | 1,970 |
| 1960 | | | | | | | | 24 | 1,432 | 124 | | | 1,580 |
| 1961 | | | | | | | | 22 | 1,731 | 292 | | | 2,045 |
| 1962 | | | | | | | 5 | 106 | 2,884 | 200 | | | 3,195 |
| 1963 | | | | | | | 5 | 437 | 2,259 | 412 | | | 3,113 |
| 1964 | | | | | | | 3 | 307 | 2,734 | 273 | | | 3,317 |
| 1965 | | | | | | | 22 | 105 | 2,264 | 309 | | | 2,700 |
| 1966 | | | | | | | | 811 | 7,195 | 519 | | | 8,525 |
| 1967 | | | | | | | 11 | 11 | 22,492 | 4,712 | | | 27,226 |
| 1968 | | | | | | | | 1,010 | 36,260 | 2,248 | | | 39,518 |
| 1969 | | | | | | | | 1,643 | 45,497 | 6,576 | | | 53,716 |
| 1970 | | | | | | | | 3,576 | 31,161 | 1,662 | | | 36,399 |
| 1971 | | | | | | | | 927 | 33,828 | 4,603 | | | 39,358 |
| 1972 | | | | | | | | 2,433 | 38,747 | 4,455 | | | 45,635 |
| 1973 | | | | | | | 66 | 1,768 | 14,452 | 1,396 | | | 17,682 |
| 1974 | | | | | | | | 1,160 | 10,052 | 2,534 | | | 13,746 |
| 1975 | | | | | | | 1 | 268 | 3,675 | 31 | | | 3,975 |
| 1976 | | | | | | | | 373 | 5,201 | 1,965 | | | 7,539 |
| 1977 | | | | | | 2 | | 274 | 2,698 | 1,648 | | | 4,622 |
| 1978 | | | | | | 1 | | 138 | 10,445 | 7,459 | 2,313 | | 20,356 |
| 1979 | | | | 1 | | 4 | 194 | 652 | 9,058 | 2,431 | 460 | | 12,800 |
| 1980 | | | | | | | | 2 | 180 | 203 | 186 | | 571 |
| 1981 | | | | | | | | 421 | 2,840 | 435 | 40 | | 3,736 |
| 1982 | | | | | | | 141 | 235 | 2,148 | 595 | | | 3,119 |
| 1983 | | | | | | | | 229 | 1,536 | 705 | | | 2,470 |
| 1984 | | | | | | 6 | | 147 | 2,506 | 154 | 28 | | 2,841 |
| 1985 | | | | | 14 | 37 | 44 | 2,040 | 4,493 | 289 | | | 6,917 |

TABLE 76

**(Continued)**

**MONTHLY COUNT OF COHO SALMON**
**McNARY DAM; 1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | | | | | | | | 1 | 851 | 522 | | | 1,374 |
| 1987 | | | | | | | 3 | 24 | 377 | 211 | | | 615 |
| 1988 | | | | | | | | 17 | 1,210 | 783 | | | 2,010 |
| 1989 | | | | | | | | 35 | 2,043 | 1,305 | | | 3,383 |
| 1990 | | | | | | | | 1 | 1,007 | 1,051 | | | 2,059 |
| 1991 | | | | | | | | | 1,105 | 937 | 211 | 19 | 2,272 |
| 1992 | | | | | | | | 1 | 1,130 | 670 | | | 1,801 |
| 1993 | | | | | | | | 2 | 254 | 225 | | | 481 |
| 1994 | | | | | | | | 9 | 978 | 748 | | | 1,735 |
| 1995 | | | | | | | | 8 | 344 | 669 | | | 1,021 |
| 1996 | | | | | | | 2 | 1 | 1,212 | 638 | | | 1,853 |
| 1997 | | | | | | | | 29 | 1,577 | 974 | | | 2,580 |
| 1998 | | | | | | | | 6 | 687 | 5,480 | | | 6,173 |
| 1999 | | | | | | | | 6 | 2,931 | 1,997 | | | 4,934 |
| 2000 | | | | | | | | 309 | 6,947 | 3,896 | | | 11,152 |
| 2001 | | | | | | | | 59 | 11,631 | 13,040 | | | 24,730 |
| 2002 | | | | | | | | 10 | 1,765 | 1,417 | | | 3,192 |
| 2003 | | | | | | | | 25 | 11,788 | 8,017 | 401 | | 20,231 |
| 2004 | | | | | | | | 17 | 13,954 | 6,161 | 427 | 11 | 20,570 |
| 2005 | | | | | | | | 59 | 11,327 | 8,390 | 819 | 5 | 20,600 |
| 2006 | | | | | | | | 90 | 7,893 | 5,350 | 588 | 2 | 13,923 |
| 2007 | | | | | | | | 9 | 11,263 | 11,315 | 238 | | 22,825 |
| TOTAL | | | | 1 | 14 | 50 | 515 | 20,126 | 396,952 | 121,164 | 5,806 | 38 | 544,666 |
| 10-Year Average | | | | | | | | 59 | 8,019 | 6,506 | | | 14,833 |

*Jacks included

TABLE 77

**MONTHLY COUNT OF STEELHEAD**
**McNARY DAM: 1954-2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1954 | | | 376 | 5,569 | 2,307 | 128 | 2,628 | 20,939 | 26,944 | 11,627 | 2,937 | 1,604 | 75,059 |
| 1955 | 931 | 35 | 70 | 3,279 | 1,791 | 162 | 5,257 | 36,035 | 17,463 | 16,941 | 2,874 | 737 | 85,575 |
| 1956 | 66 | 753 | 563 | 2,365 | 1,218 | 276 | 5,440 | 14,492 | 8,245 | 6,787 | 2,349 | | 42,554 |
| 1957 | | | 840 | 2,084 | 147 | 334 | 18,100 | 28,926 | 34,478 | 20,775 | 8 | 36 | 105,728 |
| 1958 | 62 | 137 | 1,069 | 877 | 334 | 1,265 | 9,967 | 6,535 | 50,229 | 17,415 | | | 87,890 |
| 1959 | | | | 1,317 | 685 | 748 | 10,508 | 32,872 | 49,542 | 14,803 | | | 110,475 |
| 1960 | | | | 1,579 | 1,236 | 908 | 8,475 | 22,443 | 51,749 | 10,505 | | | 96,895 |
| 1961 | | | | 896 | 580 | 1,281 | 7,469 | 11,428 | 64,521 | 17,568 | | | 103,743 |
| 1962 | | | | 1,650 | 762 | 1,108 | 11,321 | 28,288 | 98,042 | 22,010 | | | 163,181 |
| 1963 | | | | 813 | 1,751 | 2,639 | 8,252 | 26,282 | 47,982 | 25,927 | | | 113,646 |
| 1964 | | | | 1,789 | 805 | 486 | 7,602 | 25,918 | 53,180 | 10,962 | | | 100,742 |
| 1965 | | | | 1,361 | 363 | 231 | 11,749 | 31,155 | 54,450 | 19,651 | | | 118,960 |
| 1966 | | | | 2,279 | 954 | 1,476 | 18,241 | 26,062 | 71,180 | 24,938 | | | 145,130 |
| 1967 | | | | 1,434 | 1,130 | 152 | 5,771 | 14,894 | 32,310 | 22,009 | | | 77,700 |
| 1968 | | | | 5,451 | 3,361 | 247 | 4,058 | 22,268 | 61,167 | 15,970 | | | 112,522 |
| 1969 | | | | 2,304 | 1,792 | 711 | 7,668 | 13,641 | 35,836 | 14,729 | | | 76,681 |
| 1970 | | | | 1,347 | 1,001 | 340 | 5,183 | 15,236 | 39,150 | 7,502 | | | 69,759 |
| 1971 | | | | 813 | 374 | 271 | 8,931 | 21,324 | 62,083 | 15,834 | | | 109,630 |
| 1972 | | | | 1,614 | 393 | 130 | 8,155 | 20,548 | 46,393 | 16,587 | | | 93,820 |
| 1973 | | | | 3,178 | 846 | 270 | 6,898 | 11,121 | 32,701 | 9,606 | | | 64,620 |
| 1974 | | | | 847 | 715 | 681 | 4,093 | 5,242 | 8,648 | 6,706 | | | 26,932 |
| 1975 | | | | 612 | 209 | 254 | 3,623 | 6,708 | 9,329 | 2,928 | | | 23,663 |
| 1976 | | | | 936 | 1,372 | 1,949 | 5,772 | 16,145 | 22,423 | 5,403 | | | 54,000 |
| 1977 | | | | 1,730 | 987 | 2,916 | 13,132 | 7,833 | 43,792 | 17,322 | | | 87,712 |
| 1978 | | | | 1,266 | 701 | 1,832 | 3,444 | 4,863 | 15,627 | 5,708 | 1,299 | | 34,740 |
| 1979 | | | 970 | 681 | 156 | 93 | 4,955 | 9,970 | 14,648 | 15,580 | 3,251 | | 50,304 |
| 1980 | | | 1,753 | 3,355 | 608 | 381 | 2,740 | 14,431 | 27,706 | 12,776 | 2,774 | | 66,524 |
| 1981 | | | 861 | 1,479 | 809 | 878 | 7,212 | 12,839 | 19,961 | 15,652 | 2,294 | | 61,985 |
| 1982 | | | 1,530 | 1,764 | 825 | 321 | 4,279 | 12,621 | 36,282 | 17,477 | | | 75,099 |
| 1983 | | | | 1,051 | 215 | 137 | 7,746 | 25,821 | 70,369 | 19,915 | | | 125,254 |
| 1984 | | | | 1,858 | 860 | 653 | 13,165 | 14,944 | 68,837 | 33,608 | 1,590 | | 135,515 |
| 1985 | | | 1,583 | 6,483 | 1,383 | 2,949 | 13,818 | 46,632 | 87,026 | 28,330 | | | 188,204 |

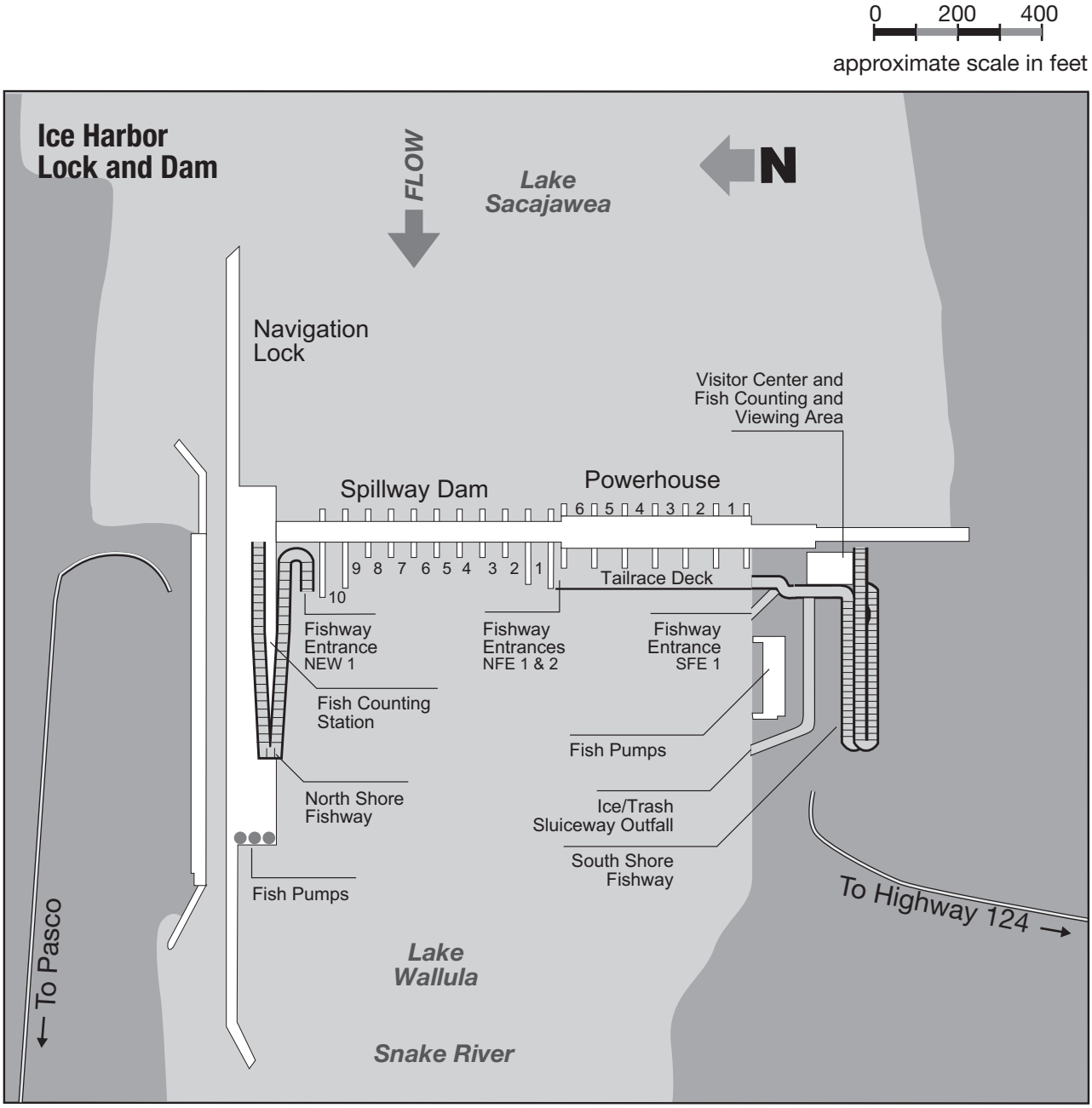
TABLE 77

**(Continued)**

**MONTHLY COUNT OF STEELHEAD**
**McNARY DAM; 1954 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | | | 1,282 | 1,184 | 414 | 1,193 | 27,563 | 32,339 | 74,769 | 54,737 | | | 193,481 |
| 1987 | | | | 2,082 | 413 | 885 | 16,658 | 35,661 | 59,326 | 33,786 | | | 148,811 |
| 1988 | | | | 4,176 | 1,095 | 2,117 | 11,609 | 25,875 | 69,259 | 37,634 | | | 151,765 |
| 1989 | | | | 3,269 | 598 | 1,921 | 16,002 | 20,819 | 87,722 | 40,136 | | | 170,467 |
| 1990 | | | | 2,754 | 660 | 1,489 | 9,105 | 10,368 | 33,452 | 37,233 | | | 95,061 |
| 1991 | | | | 2,245 | 630 | 846 | 9,921 | 17,752 | 78,363 | 46,941 | 9,388 | 2,876 | 168,962 |
| 1992 | | | | 1,427 | 642 | 1,921 | 10,989 | 15,504 | 127,626 | 35,917 | | | 194,026 |
| 1993 | | | | 5,194 | 588 | 2,197 | 9,692 | 10,003 | 35,287 | 30,222 | | | 93,183 |
| 1994 | | | | 2,622 | 336 | 1,169 | 7,436 | 5,468 | 40,871 | 36,525 | | | 94,427 |
| 1995 | | | | 774 | 325 | 998 | 8,042 | 21,720 | 45,237 | 37,814 | | | 114,910 |
| 1996 | | | | 701 | 301 | 950 | 8,726 | 34,385 | 50,723 | 28,391 | | | 124,177 |
| 1997 | | | | 1,210 | 435 | 1,241 | 10,174 | 19,917 | 58,210 | 38,630 | | | 129,817 |
| 1998 | | | | 1,236 | 364 | 1,391 | 6,372 | 4,040 | 38,324 | 47,978 | | | 99,705 |
| 1999 | | | | 253 | 248 | 905 | 7,175 | 27,592 | 35,243 | 12,672 | | | 84,088 |
| 2000 | | | | 588 | 238 | 1,901 | 16,311 | 23,148 | 59,803 | 28,343 | | | 130,332 |
| 2001 | | | | 1,337 | 487 | 7,741 | 46,981 | 50,463 | 190,205 | 101,570 | | | 398,784 |
| 2002 | | | | 4,650 | 271 | 2,957 | 29,979 | 48,226 | 120,936 | 79,786 | | | 286,805 |
| 2003 | | | 8,696 | 1,309 | 145 | 2,298 | 20,439 | 15,184 | 139,321 | 51,722 | 6,307 | 1,477 | 246,898 |
| 2004 | | | 4,316 | 1,133 | 480 | 3,901 | 14,376 | 10,863 | 132,387 | 37,931 | 4,348 | 2,948 | 212,683 |
| 2005 | | | 2,271 | 847 | 377 | 2,669 | 17,371 | 19,933 | 109,198 | 63,710 | 7,248 | 668 | 224,292 |
| 2006 | | | 1,388 | 2,009 | 175 | 1,272 | 9,214 | 14,519 | 104,009 | 52,826 | 17,808 | 2,935 | 206,155 |
| 2007 | | | 6,155 | 1,693 | 241 | 1,616 | 13,232 | 32,652 | 109,015 | 50,339 | 4,805 | 1,786 | 221,534 |
| Total | 1,059 | 925 | 33,723 | 106,754 | 40,133 | 69,785 | 583,019 | 1,104,887 | 3,161,579 | 1,488,394 | 69,280 | 15,067 | 6,674,605 |
| 10-Year Avg. | | | | 1,506 | 303 | 2,665 | 18,145 | 24,662 | 103,844 | 52,688 | | | 211,128 |

# Plate 6 Ice Harbor Lock and Dam



# ICE HARBOR DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| 1 Jan – 28 Feb | No counting |
| 1 Mar – 31 Mar | Video counting daily from 0600-1600 hours PST |
| 1 Apr – 31 Oct | Visual counting daily from 0400-2000 hours PST |
| 1 Nov – 31 Dec | No counting |

## FISH LADDER OPERATING SCHEDULE

***North Ladder***

| | |
|---|---|
| 1 Jan – 2 Jan | Ladder in service |
| 3 Jan – 10 Jan | Ladder dewatered for annual maintenance |
| 11 Jan – 31 Dec | Ladder in service |

***South Ladder***

| | |
|---|---|
| 1 Jan – 15 Jan | Ladder in service |
| 16 Jan – 14 Feb | Ladder dewatered for annual maintenance |
| 15 Feb – 31 Dec | Ladder in service |

## FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pool and the downstream end of the juvenile channels. Hourly readings were taken from July 2 to 20 September.

Two of the three fish pumps on the north shore and eight on the south shore were operated in 2007 with the exceptions listed below. The north shore fish pump gear boxes continued to have breakdown problems in 2007.

Idaho Cooperative Fisheries Research Unit conducted an evaluation of adult salmon and steelhead migration past the Snake and Columbia River Dams. In addition, lamprey passage was monitored in the north shore and south shore adult fish ladders by half duplex PIT tag equipment.

Normandeau Associates performed a direct survival/injury study on juvenile salmonids passing through the main unit turbine number 3. NOAA Fisheries conducted radio telemetry research on the survival rates of fish passage through the spillway and over the removable spillway weir.

The juvenile fish facility was operated for juvenile fish bypass and adult fallbacks from 2 March until 17 December 2007.

TABLE 78

**MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER ICE HARBOR DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | 1 | 3,277 | 27,506 | 11,597 | 3,167 | 1,984 | 17,456 | 4,118 | | | 69,106 |
| STEELHEAD | | | 4,001 | 2,183 | 107 | 903 | 4,743 | 11,723 | 83,713 | 50,247 | | | 157,620 |
| SOCKEYE | | | | | | 29 | 26 | | | | | | 55 |
| COHO* | | | | | | | | | 867 | 1,280 | | | 2,147 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | 4,002 | 5,460 | 27,613 | 12,529 | 7,936 | 13,707 | 102,036 | 55,645 | | | 228,928 |
| SHAD | | | | | 7,387 | 137,141 | 57,511 | 701 | 66 | 12 | | | 202,818 |
| LAMPREY | | | | 9 | 5 | 3 | 98 | 119 | 56 | | | | 290 |
| STURGEON | | | | | | | 2 | 0 | 1 | | | | 3 |
| BULL TROUT | | | | | | | | | | | | | 0 |

***Jacks included**

**Note: These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in March.**

TABLE 79

## DISCHARGE AND WATER QUALITY DATA

## ICE HARBOR PROJECT 2007

### JANUARY

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *TURBIDITY *DEG F |
|---|---|---|---|---|
| Jan 1 | 30.3 | 0.0 | | |
| Jan 2 | 29.7 | 0.0 | | |
| Jan 3 | 33.8 | 0.0 | | |
| Jan 4 | 32.0 | 0.0 | | |
| Jan 5 | 38.0 | 0.0 | | |
| Jan 6 | 32.3 | 0.0 | | |
| Jan 7 | 40.9 | 0.0 | | |
| Jan 8 | 27.8 | 0.0 | | |
| Jan 9 | 42.6 | 0.0 | | |
| Jan 10 | 29.1 | 0.0 | | |
| Jan 11 | 45.2 | 0.0 | | |
| Jan 12 | 41.4 | 0.0 | | |
| Jan 13 | 36.2 | 0.0 | | |
| Jan 14 | 34.8 | 0.0 | | |
| Jan 15 | 37.1 | 0.0 | | |
| Jan 16 | 51.6 | 0.0 | | |
| Jan 17 | 24.5 | 0.0 | | |
| Jan 18 | 36.5 | 0.0 | | |
| Jan 19 | 32.1 | 0.0 | | |
| Jan 20 | 18.5 | 0.0 | | |
| Jan 21 | 15.5 | 0.0 | | |
| Jan 22 | 36.2 | 0.0 | | |
| Jan 23 | 30.6 | 0.0 | | |
| Jan 24 | 28.0 | 0.0 | | |
| Jan 25 | 44.2 | 0.0 | | |
| Jan 26 | 20.9 | 0.0 | | |
| Jan 27 | 21.6 | 0.0 | | |
| Jan 28 | 8.4 | 0.0 | | |
| Jan 29 | 28.4 | 0.0 | | |
| Jan 30 | 14.4 | 0.0 | | |
| Jan 31 | 31.3 | 0.0 | | |
| AVG. | 31.4 | 0.0 | | |

### FEBRUARY

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *TURBIDITY *DEG F |
|---|---|---|---|---|
| Feb 1 | 32.3 | 0.0 | | |
| Feb 2 | 28.9 | 0.0 | | |
| Feb 3 | 25.7 | 0.0 | | |
| Feb 4 | 20.2 | 0.0 | | |
| Feb 5 | 27.7 | 0.0 | | |
| Feb 6 | 17.2 | 0.0 | | |
| Feb 7 | 23.1 | 0.0 | | |
| Feb 8 | 24.5 | 0.0 | | |
| Feb 9 | 18.4 | 0.0 | | |
| Feb 10 | 26.8 | 0.0 | | |
| Feb 11 | 23.8 | 0.0 | | |
| Feb 12 | 29.8 | 0.0 | | |
| Feb 13 | 44.6 | 0.0 | | |
| Feb 14 | 30.6 | 0.0 | | |
| Feb 15 | 32.9 | 0.0 | | |
| Feb 16 | 44.2 | 0.0 | | |
| Feb 17 | 47.1 | 0.0 | | |
| Feb 18 | 39.2 | 0.0 | | |
| Feb 19 | 42.8 | 0.0 | | |
| Feb 20 | 42.1 | 0.0 | | |
| Feb 21 | 41.7 | 0.0 | | |
| Feb 22 | 32.1 | 0.0 | | |
| Feb 23 | 39.0 | 0.0 | | |
| Feb 24 | 39.1 | 0.0 | | |
| Feb 25 | 31.4 | 0.0 | | |
| Feb 26 | 36.0 | 0.0 | | |
| Feb 27 | 40.9 | 0.0 | | |
| Feb 28 | 28.5 | 0.0 | | |
| AVG. | 32.7 | 0.0 | | |

*Data unavailable

TABLE 80

**MONTHLY FISH PASSAGE SUMMARY REPORT** | **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** | **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 1 | | | | | | | 36 | 7 | | | | 29.2 | 0.0 | 4.3 | 38.0 |
| Mar 2 | 0 | | | | | | | 62 | 8 | | | | 31.5 | 0.0 | 4.6 | 39.0 |
| Mar 3 | 0 | | | | | | | 54 | 11 | | | | 32.9 | 0.0 | 4.6 | 39.0 |
| Mar 4 | 0 | | | | | | | 63 | 9 | | | | 24.7 | 0.0 | 4.6 | 40.0 |
| Mar 5 | 0 | | | | | | | 35 | 5 | | | | 25.3 | 0.0 | 4.6 | 40.0 |
| Mar 6 | 0 | | | | | | | 48 | 8 | | | | 23.1 | 0.0 | 4.6 | 40.0 |
| Mar 7 | 0 | | | | | | | 169 | 38 | | | | 29.4 | 0.0 | 4.6 | 40.0 |
| Mar 8 | 0 | | | | | | | 198 | 22 | | | | 27.7 | 0.0 | 4.6 | 40.0 |
| Mar 9 | 0 | | | | | | | 110 | 16 | | | | 33.6 | 0.0 | 4.2 | 40.0 |
| Mar 10 | 0 | | | | | | | 82 | 3 | | | | 38.1 | 0.0 | 4.2 | 40.0 |
| Mar 11 | 0 | | | | | | | 113 | 8 | | | | 33.6 | 0.0 | 4.2 | 40.0 |
| Mar 12 | 0 | | | | | | | 73 | 4 | | | | 42.7 | 0.0 | 4.2 | 40.0 |
| Mar 13 | 0 | | | | | | | 77 | 9 | | | | 54.9 | 0.0 | 4.2 | 41.0 |
| Mar 14 | 0 | | | | | | | 173 | 23 | | | | 61.2 | 0.0 | 4.2 | 42.0 |
| Mar 15 | 0 | | | | | | | 125 | 19 | | | | 60.7 | 0.0 | 3.8 | 42.0 |
| Mar 16 | 0 | | | | | | | 131 | 14 | | | | 51.1 | 0.0 | 3.8 | 42.0 |
| Mar 17 | 0 | | | | | | | 101 | 5 | | | | 46.5 | 0.0 | 3.8 | 42.0 |
| Mar 18 | 0 | | | | | | | 161 | 11 | | | | 42.6 | 0.0 | 3.8 | 43.0 |
| Mar 19 | 0 | | | | | | | 138 | 19 | | | | 54.4 | 1.2 | 3.8 | 44.0 |
| Mar 20 | 0 | | | | | | | 134 | 14 | | | | 56.5 | 0.0 | 3.8 | 44.0 |
| Mar 21 | 0 | | | | | | | 183 | 17 | | | | 68.3 | 0.0 | 3.8 | 45.0 |
| Mar 22 | 0 | | | | | | | 110 | 15 | | | | 60.2 | 0.0 | 3.8 | 45.0 |
| Mar 23 | 0 | | | | | | | 117 | 15 | | | | 64.8 | 0.0 | 3.8 | 45.0 |
| Mar 24 | 0 | | | | | | | 177 | 24 | | | | 49.4 | 0.0 | 4.6 | 45.0 |
| Mar 25 | 0 | | | | | | | 175 | 21 | | | | 44.6 | 0.0 | 4.6 | 45.0 |
| Mar 26 | 0 | | | | | | | 206 | 20 | | | | 66.7 | 0.0 | 4.6 | 45.0 |
| Mar 27 | 0 | | | | | | | 263 | 30 | | | | 69.0 | 30.5 | 4.6 | 45.0 |
| Mar 28 | 0 | | | | | | | 228 | 38 | | | | 65.2 | 23.7 | 4.6 | 45.0 |
| Mar 29 | 0 | | | | | | | 107 | 22 | | | | 58.2 | 20.0 | 4.6 | 45.0 |
| Mar 30 | 0 | | | | | | | 185 | 35 | | | | 57.8 | 11.2 | 4.6 | 46.0 |
| Mar 31 | 0 | | | | | | | 167 | 35 | | | | 52.2 | 4.9 | 4.6 | 46.0 |
| TOTAL | 1 | | | | | | | 4,001 | 525 | | | | | | | |
| AVG. | 0 | | | | | | | 129 | 17 | | | | 47.0 | 3.0 | 4.3 | 42.4 |

**Note: March counts were from video tape. The counts are 10-hour counts and occurred between the hours of 0600-1600 PST.**

**Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.**

TABLE 81

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT

APRIL 2007

FISH COUNTS

RIVER CONDITIONS

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apr 1 | 1 | | | 0 | | | | 204 | 58 | | 0 | | 39.3 | 0.0 | 4.6 | 46.0 |
| Apr 2 | 0 | | | 0 | | | | 191 | 42 | | 0 | | 62.1 | 0.0 | 4.6 | 47.0 |
| Apr 3 | 0 | | | 0 | | | | 183 | 36 | | 0 | | 45.6 | 33.6 | 4.4 | 47.0 |
| Apr 4 | -1 | | | 0 | | | | 163 | 30 | | 0 | | 40.5 | 30.1 | 4.4 | 47.0 |
| Apr 5 | -1 | | | 0 | | | | 127 | 35 | | 0 | | 39.1 | 28.7 | 4.4 | 47.0 |
| Apr 6 | 1 | | | 0 | | | | 131 | 34 | | 0 | | 34.3 | 24.0 | 4.4 | 47.0 |
| Apr 7 | 1 | | | 0 | | | | 116 | 38 | | 0 | | 35.3 | 25.1 | 4.4 | 48.0 |
| Apr 8 | 1 | | | 0 | | | | 133 | 41 | | 0 | | 40.3 | 30.1 | 4.4 | 48.0 |
| Apr 9 | 1 | | | 0 | | | | 85 | 25 | | 0 | | 47.5 | 37.5 | 4.4 | 48.0 |
| Apr 10 | -1 | | | 0 | | | | 122 | 27 | | 0 | | 56.9 | 46.7 | 4.4 | 48.0 |
| Apr 11 | 0 | | | 0 | | | | 158 | 33 | | 0 | | 50.0 | 40.0 | 4.4 | 48.0 |
| Apr 12 | -1 | | | 0 | | | | 86 | 27 | | 0 | | 50.4 | 31.6 | 4.4 | 48.0 |
| Apr 13 | 0 | | | 1 | | | | 54 | 17 | | 0 | | 52.3 | 42.2 | 4.8 | 48.0 |
| Apr 14 | -4 | | | 0 | | | | 41 | 11 | | 0 | | 49.5 | 39.5 | 4.8 | 48.0 |
| Apr 15 | 2 | | | 0 | | | | 78 | 18 | | 0 | | 45.5 | 35.5 | 4.8 | 49.0 |
| Apr 16 | 2 | | | 0 | | | | 48 | 7 | | 0 | | 50.2 | 40.0 | 4.8 | 49.0 |
| Apr 17 | 2 | | | 0 | | | | 29 | 7 | | 0 | | 53.1 | 43.0 | 4.2 | 49.0 |
| Apr 18 | 8 | | | 4 | | | | 44 | 18 | | 0 | | 40.3 | 30.1 | 4.2 | 49.0 |
| Apr 19 | 21 | | | 2 | | | | 36 | 12 | | 0 | | 50.5 | 40.4 | 4.2 | 49.0 |
| Apr 20 | 29 | | | 1 | | | | 22 | 7 | | 0 | | 46.8 | 36.8 | 4.2 | 50.0 |
| Apr 21 | 49 | | | 2 | | | | 11 | 3 | | 0 | | 54.5 | 44.4 | 4.2 | 50.0 |
| Apr 22 | 102 | | | 0 | | | | 17 | 6 | | 0 | | 40.2 | 30.2 | 4.2 | 50.0 |
| Apr 23 | 168 | | | 2 | | | | 17 | 4 | | 0 | | 45.8 | 35.8 | 4.2 | 51.0 |
| Apr 24 | 211 | | | 2 | | | | 5 | 1 | | 4 | | 51.4 | 41.1 | 4.2 | 51.0 |
| Apr 25 | 216 | | | 0 | | | | 17 | 10 | | 4 | | 46.2 | 36.0 | 5.2 | 51.0 |
| Apr 26 | 303 | | | 7 | | | | 16 | 6 | | 0 | | 52.8 | 42.7 | 5.2 | 51.0 |
| Apr 27 | 481 | | | 7 | | | | 14 | 8 | | 0 | | 56.3 | 43.3 | 5.2 | 52.0 |
| Apr 28 | 410 | | | 5 | | | | 15 | 8 | | 1 | | 55.5 | 45.3 | 5.2 | 52.0 |
| Apr 29 | 599 | | | 10 | | | | 8 | 5 | | 0 | | 61.7 | 47.0 | 5.2 | 52.0 |
| Apr 30 | 625 | | | 9 | | | | 12 | 8 | | 0 | | 72.1 | 54.1 | 5.2 | 53.0 |
| TOTAL | 3,225 | | | 52 | | | | 2,183 | 582 | | 9 | | | | | |
| AVG. | 108 | | | 2 | | | | 73 | 19 | | 0 | | 48.9 | 35.2 | 4.6 | 49.1 |

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.
South shore ladder was counted by direct observation while the north shore ladder was by closed circuit TV.
Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 82

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT

MAY 2007

FISH COUNTS

RIVER CONDITIONS

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| May 1 | 996 | | | 52 | | | | 13 | 7 | 0 | 0 | | 86.5 | 61.7 | 5.2 | 53.0 |
| May 2 | 873 | | | 26 | | | | 13 | 8 | 0 | 0 | | 86.3 | 33.9 | 5.0 | 53.0 |
| May 3 | 1,297 | | | 39 | | | | 9 | 7 | 0 | 0 | | 91.7 | 27.6 | 5.0 | 53.0 |
| May 4 | 719 | | | 34 | | | | 4 | 2 | 0 | 0 | | 87.8 | 47.1 | 4.3 | 53.0 |
| May 5 | 1,256 | | | 76 | | | | 5 | 3 | 0 | 0 | | 83.7 | 55.3 | 4.3 | 53.0 |
| May 6 | 1,239 | | | 89 | | | | 1 | -1 | 0 | 0 | | 71.9 | 29.6 | 4.3 | 53.0 |
| May 7 | 1,116 | | | 121 | | | | 3 | 2 | 0 | 0 | | 66.1 | 19.8 | 4.3 | 54.0 |
| May 8 | 1,134 | | | 205 | | | | 7 | 6 | 0 | 0 | | 65.4 | 42.0 | 5.3 | 54.0 |
| May 9 | 1,075 | | | 285 | | | | 3 | 1 | 0 | 0 | | 67.1 | 47.8 | 5.3 | 54.0 |
| May 10 | 1,146 | | | 247 | | | | 2 | 2 | 0 | 1 | | 79.7 | 32.3 | 5.1 | 54.0 |
| May 11 | 707 | | | 187 | | | | 4 | 2 | 0 | 0 | | 92.2 | 28.1 | 5.1 | 54.0 |
| May 12 | 549 | | | 260 | | | | 1 | 1 | 0 | 0 | | 93.8 | 28.0 | 5.1 | 54.0 |
| May 13 | 1,015 | | | 320 | | | | 2 | 0 | 0 | 0 | | 94.7 | 28.4 | 5.1 | 55.0 |
| May 14 | 754 | | | 314 | | | | 0 | 0 | 0 | 0 | | 99.6 | 51.1 | 5.1 | 55.0 |
| May 15 | 899 | | | 352 | | | | 3 | 1 | 0 | 0 | | 96.7 | 60.4 | 5.1 | 55.0 |
| May 16 | 652 | | | 282 | | | | 2 | 1 | 0 | 0 | | 87.6 | 38.5 | 4.2 | 55.0 |
| May 17 | 594 | | | 225 | | | | 4 | 2 | 0 | 0 | | 81.0 | 24.3 | 4.2 | 56.0 |
| May 18 | 383 | | | 324 | | | | 2 | 0 | 0 | 2 | | 95.3 | 52.6 | 4.2 | 56.0 |
| May 19 | 535 | | | 404 | | | | 2 | 0 | 0 | 0 | | 89.3 | 60.0 | 4.2 | 56.0 |
| May 20 | 433 | | | 356 | | | | 2 | 0 | 1 | 1 | | 87.8 | 56.9 | 4.2 | 57.0 |
| May 21 | 335 | | | 401 | | | | 2 | 0 | 0 | 0 | | 89.5 | 58.4 | 4.2 | 57.0 |
| May 22 | 501 | | | 396 | | | | 0 | 0 | 1 | 1 | | 84.4 | 34.2 | 4.2 | 57.0 |
| May 23 | 508 | | | 287 | | | | -1 | -1 | 4 | 0 | | 73.9 | 22.3 | 4.2 | 57.0 |
| May 24 | 397 | | | 248 | | | | 2 | 0 | 3 | 0 | | 70.6 | 41.0 | 4.2 | 58.0 |
| May 25 | 306 | | | 89 | | | | -1 | -1 | 7 | 0 | | 71.8 | 46.4 | 4.2 | 58.0 |
| May 26 | 303 | | | 96 | | | | 2 | 0 | 29 | 0 | | 68.0 | 29.7 | 4.2 | 58.0 |
| May 27 | 399 | | | 80 | | | | 2 | 0 | 185 | 0 | | 53.3 | 17.1 | 4.2 | 58.0 |
| May 28 | 265 | | | 44 | | | | 0 | -2 | 440 | 0 | | 56.4 | 16.7 | 4.2 | 58.0 |
| May 29 | 280 | | | 123 | | | | 2 | 0 | 1,493 | 0 | | 62.7 | 18.8 | 4.2 | 58.0 |
| May 30 | 230 | | | 162 | | | | 7 | 1 | 1,623 | 0 | | 56.1 | 17.9 | 5.2 | 59.0 |
| May 31 | 309 | | | 177 | | | | 10 | 1 | 3,601 | 0 | | 56.0 | 16.8 | 5.2 | 59.0 |
| TOTAL | 21,205 | | | 6,301 | | | | 107 | 42 | 7,387 | 5 | | | | | |
| AVG. | 684 | | | 203 | | | | 3 | 1 | 238 | 0 | | 78.9 | 36.9 | 4.6 | 55.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|
| SPRING | 24,430 | 6,353 | 2,290 | 624 | 7,387 | 14 |

TABLE 83

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 160 | | | 109 | | | 0 | 1 | 0 | 841 | 0 | | 51.7 | 38.2 | 5.2 | 58.0 |
| Jun 2 | 252 | | | 110 | | | 0 | 4 | 1 | 564 | 0 | | 56.4 | 45.5 | 5.2 | 59.0 |
| Jun 3 | 246 | | | 55 | | | 0 | 4 | -1 | 274 | 0 | | 54.8 | 44.1 | 5.2 | 59.0 |
| Jun 4 | 273 | | | 93 | | | 0 | 2 | 0 | 1,082 | 0 | | 54.5 | 44.1 | 5.2 | 59.0 |
| Jun 5 | 372 | | | 85 | | | 0 | 7 | -1 | 4,709 | 1 | | 56.8 | 45.1 | 5.2 | 59.0 |
| Jun 6 | 351 | | | 50 | | | 0 | 16 | 1 | 1,117 | 0 | | 56.0 | 45.9 | 5.2 | 59.0 |
| Jun 7 | 371 | | | 51 | | | 0 | 10 | 1 | 4,805 | 0 | | 58.9 | 23.2 | 5.2 | 59.0 |
| Jun 8 | 240 | | | 83 | | | 0 | 21 | 1 | 4,732 | 0 | | 52.1 | 16.2 | 5.2 | 59.0 |
| Jun 9 | 390 | | | 122 | | | 0 | 14 | 1 | 4,403 | 0 | | 51.1 | 16.0 | 5.2 | 59.0 |
| Jun 10 | 551 | | | 109 | | | 0 | 27 | 0 | 4,505 | 0 | | 51.8 | 16.4 | 5.2 | 59.0 |
| Jun 11 | 411 | | | 88 | | | 0 | 11 | 0 | 1,536 | 0 | | 51.7 | 36.4 | 5.2 | 59.0 |
| Jun 12 | | 333 | | 63 | | | 0 | 24 | -1 | 5,551 | 0 | | 66.0 | 51.7 | 5.2 | 59.0 |
| Jun 13 | | 449 | | 134 | | | 0 | 34 | 1 | 7,237 | 0 | | 56.6 | 24.2 | 5.2 | 59.0 |
| Jun 14 | | 355 | | 100 | | | 0 | 20 | 1 | 8,567 | 0 | | 53.6 | 17.4 | 4.4 | 59.0 |
| Jun 15 | | 247 | | 36 | | | 0 | 17 | 0 | 6,403 | 0 | | 47.8 | 33.8 | 4.4 | 59.0 |
| Jun 16 | | 285 | | 35 | | | 0 | 12 | -1 | 2,398 | 1 | | 44.0 | 33.5 | 4.4 | 60.0 |
| Jun 17 | | 231 | | 39 | | | 0 | 14 | 0 | 1,463 | 0 | | 47.0 | 36.0 | 4.4 | 61.0 |
| Jun 18 | | 337 | | 41 | | | 0 | 20 | 4 | 2,160 | 0 | | 40.7 | 30.4 | 4.4 | 62.0 |
| Jun 19 | | 326 | | 72 | | | 0 | 33 | 2 | 3,736 | 0 | | 37.1 | 17.3 | 4.4 | 62.0 |
| Jun 20 | | 365 | | 71 | | | 1 | 51 | 6 | 6,864 | 1 | | 42.7 | 15.6 | 7.0 | 62.0 |
| Jun 21 | | 361 | | 100 | | | 0 | 56 | 2 | 9,591 | 0 | | 32.6 | 22.0 | 7.0 | 63.0 |
| Jun 22 | | 230 | | 86 | | | 2 | 38 | 5 | 6,420 | 0 | | 45.2 | 35.0 | 7.0 | 63.0 |
| Jun 23 | | 212 | | 71 | | | 1 | 42 | 2 | 11,381 | 0 | | 37.5 | 17.3 | 7.0 | 63.0 |
| Jun 24 | | 257 | | 111 | | | 1 | 41 | 3 | 7,033 | 0 | | 34.1 | 15.2 | 7.0 | 63.0 |
| Jun 25 | | 399 | | 125 | | | 6 | 86 | 5 | 4,097 | 0 | | 33.0 | 15.2 | 7.0 | 63.0 |
| Jun 26 | | 214 | | 42 | | | 2 | 64 | 3 | 2,529 | 0 | | 30.6 | 15.3 | 7.0 | 63.0 |
| Jun 27 | | 202 | | 37 | | | 0 | 47 | 0 | 2,628 | 0 | | 30.1 | 20.1 | 4.7 | 63.0 |
| Jun 28 | | 240 | | 48 | | | 0 | 37 | 1 | 4,241 | 0 | | 31.6 | 21.8 | 4.7 | 63.0 |
| Jun 29 | | 248 | | 105 | | | 5 | 64 | 7 | 6,831 | 0 | | 36.8 | 17.7 | 4.7 | 63.0 |
| Jun 30 | | 282 | | 136 | | | 11 | 86 | 8 | 9,443 | 0 | | 32.8 | 15.2 | 4.7 | 63.0 |
| TOTAL | 3,617 | 5,573 | | 2,407 | | | 29 | 903 | 51 | 137,141 | 3 | | | | | |
| AVG. | 329 | 293 | | 80 | | | 1 | 30 | 2 | 4,571 | 0 | | 45.9 | 27.5 | 5.4 | 60.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,047 | 7,308 |
| SUMMER | 5,573 | 1,452 |
| TOTAL | 33,620 | 8,760 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|
| 29 | 3,193 | 675 | 144,528 | 17 |

TABLE 84

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 137 | | 65 | | | 4 | 50 | 4 | 5,424 | 0 | 0 | 33.3 | 23.0 | 4.7 | 63.0 |
| Jul 2 | | 144 | | 104 | | | 4 | 79 | 6 | 6,144 | 0 | 0 | 30.1 | 20.2 | 4.7 | 63.0 |
| Jul 3 | | 113 | | 74 | | | 2 | 109 | 12 | 10,121 | 4 | 0 | 33.7 | 23.7 | 4.7 | 63.0 |
| Jul 4 | | 100 | | 79 | | | 3 | 94 | 4 | 7,893 | 1 | 0 | 30.1 | 20.0 | 5.2 | 63.0 |
| Jul 5 | | 50 | | 88 | | | 1 | 135 | 20 | 1,982 | 0 | 0 | 32.9 | 16.2 | 5.2 | 64.0 |
| Jul 6 | | 91 | | 8 | | | 2 | 96 | 7 | 5,425 | 0 | 0 | 34.4 | 15.2 | 5.2 | 64.0 |
| Jul 7 | | 51 | | 5 | | | 1 | 72 | 6 | 2,536 | 1 | 1 | 32.4 | 15.3 | 5.2 | 64.0 |
| Jul 8 | | 47 | | 12 | | | 0 | 75 | 1 | 1,290 | 4 | 1 | 38.8 | 15.3 | 5.2 | 66.0 |
| Jul 9 | | 75 | | 33 | | | 0 | 70 | 18 | 540 | 2 | 0 | 38.5 | 24.5 | 5.2 | 66.0 |
| Jul 10 | | 141 | | 30 | | | 0 | 152 | 14 | 404 | 1 | 0 | 37.0 | 27.0 | 4.9 | 66.0 |
| Jul 11 | | 204 | | 67 | | | 0 | 246 | 33 | 2,195 | 3 | 0 | 32.7 | 17.6 | 4.9 | 66.0 |
| Jul 12 | | 103 | | 37 | | | 0 | 256 | 36 | 1,067 | 2 | 0 | 34.2 | 15.2 | 6.5 | 69.0 |
| Jul 13 | | 60 | | 59 | | | 2 | 289 | 46 | 4,085 | 4 | 0 | 32.6 | 21.0 | 6.5 | 69.0 |
| Jul 14 | | 50 | | 53 | | | 0 | 254 | 42 | 2,005 | 1 | 0 | 31.7 | 21.2 | 6.5 | 69.0 |
| Jul 15 | | 64 | | 34 | | | 0 | 256 | 51 | 1,182 | 2 | 0 | 34.2 | 16.2 | 6.5 | 69.0 |
| Jul 16 | | 39 | | 39 | | | 4 | 252 | 36 | 1,123 | 1 | 0 | 31.8 | 17.0 | 6.5 | 69.0 |
| Jul 17 | | 58 | | 9 | | | 0 | 174 | 19 | 715 | 4 | 0 | 29.8 | 19.9 | 6.5 | 69.0 |
| Jul 18 | | 79 | | 14 | | | 1 | 159 | 21 | 837 | 7 | 0 | 29.6 | 19.4 | 8.6 | 68.0 |
| Jul 19 | | 61 | | 12 | | | 1 | 127 | 19 | 723 | 3 | 0 | 28.5 | 18.3 | 8.6 | 68.0 |
| Jul 20 | | 41 | | 32 | | | 0 | 139 | 15 | 407 | 6 | 0 | 29.0 | 19.1 | 8.6 | 68.0 |
| Jul 21 | | 78 | | 39 | | | 0 | 128 | 13 | 126 | 9 | 0 | 29.3 | 19.1 | 8.6 | 68.0 |
| Jul 22 | | 34 | | 40 | | | 0 | 115 | 19 | 124 | 3 | 0 | 26.6 | 16.4 | 8.6 | 70.0 |
| Jul 23 | | 32 | | 39 | | | 0 | 89 | 16 | 250 | 8 | 0 | 25.2 | 15.2 | 8.6 | 70.0 |
| Jul 24 | | 30 | | 20 | | | 1 | 93 | 14 | 91 | 8 | 0 | 25.6 | 15.5 | 11.0 | 70.0 |
| Jul 25 | | 23 | | 12 | | | 0 | 154 | 19 | 107 | 3 | 0 | 27.9 | 17.5 | 11.0 | 70.0 |
| Jul 26 | | 26 | | 10 | | | 0 | 147 | 17 | 89 | 5 | 0 | 25.4 | 15.2 | 11.0 | 70.0 |
| Jul 27 | | 28 | | 7 | | | 0 | 142 | 24 | 215 | 2 | 0 | 29.6 | 19.5 | 11.0 | 70.0 |
| Jul 28 | | 34 | | 10 | | | 0 | 109 | 21 | 90 | 4 | 0 | 28.4 | 18.0 | 11.0 | 71.0 |
| Jul 29 | | 34 | | 10 | | | 0 | 187 | 36 | 112 | 5 | 0 | 25.4 | 15.2 | 11.0 | 72.0 |
| Jul 30 | | 38 | | 10 | | | 0 | 186 | 42 | 165 | 1 | 0 | 29.3 | 19.2 | 11.0 | 72.0 |
| Jul 31 | | 42 | | 9 | | | 0 | 309 | 75 | 44 | 4 | 0 | 25.8 | 15.9 | 11.0 | 72.0 |
| TOTAL | | 2,107 | | 1,060 | | | 26 | 4,743 | 706 | 57,511 | 98 | 2 | | | | |
| AVG. | | 68 | | 34 | | | 1 | 153 | 23 | 1,855 | 3 | 0 | 30.8 | 18.5 | 7.5 | 67.8 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,047 | 7,308 |
| SUMMER | 7,680 | 2,512 |
| TOTAL | 35,727 | 9,820 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|
| 55 | 7,936 | 1,381 | 202,039 | 115 | 2 |

TABLE 85

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 35 | | 5 | | | | 197 | 37 | 64 | 5 | | 28.1 | 18.0 | 11.0 | 72.0 |
| Aug 2 | | 33 | | 7 | | | | 175 | 19 | 171 | 6 | | 30.5 | 20.6 | 10.5 | 72.0 |
| Aug 3 | | 40 | | 6 | | | | 223 | 44 | 72 | 3 | | 25.7 | 15.6 | 10.5 | 72.0 |
| Aug 4 | | 18 | | 6 | | | | 213 | 37 | 45 | 2 | | 25.2 | 15.0 | 10.5 | 72.0 |
| Aug 5 | | 29 | | 9 | | | | 192 | 27 | 30 | 4 | | 25.0 | 14.7 | 10.5 | 72.0 |
| Aug 6 | | 28 | | 11 | | | | 152 | 27 | 43 | 1 | | 25.4 | 15.1 | 10.5 | 72.0 |
| Aug 7 | | 28 | | 5 | | | | 179 | 35 | 15 | 3 | | 21.9 | 12.0 | 10.5 | 72.0 |
| Aug 8 | | 35 | | 5 | | | | 266 | 46 | 31 | 1 | | 24.0 | 13.7 | 10.5 | 72.0 |
| Aug 9 | | 40 | | 6 | | | | 266 | 36 | 20 | 2 | | 26.2 | 16.1 | 10.5 | 72.0 |
| Aug 10 | | 27 | | 5 | | | | 211 | 40 | 21 | 8 | | 27.3 | 17.2 | 10.5 | 72.0 |
| Aug 11 | | 22 | | 7 | | | | 176 | 35 | 11 | 5 | | 24.4 | 14.2 | 10.5 | 72.0 |
| Aug 12 | | | 32 | 2 | | | | 199 | 33 | 12 | 9 | | 24.4 | 14.1 | 10.5 | 72.0 |
| Aug 13 | | | 34 | 4 | | | | 237 | 45 | 5 | 3 | | 24.6 | 14.7 | 10.5 | 72.0 |
| Aug 14 | | | 45 | 4 | | | | 395 | 82 | 4 | 9 | | 21.8 | 11.7 | 10.5 | 72.0 |
| Aug 15 | | | 20 | 1 | | | | 234 | 35 | 22 | 10 | | 22.9 | 12.7 | 10.5 | 72.0 |
| Aug 16 | | | 31 | 4 | | | | 377 | 86 | 42 | 8 | | 23.6 | 13.3 | 10.5 | 72.0 |
| Aug 17 | | | 51 | 2 | | | | 262 | 27 | 10 | 9 | | 21.5 | 11.3 | 10.5 | 72.0 |
| Aug 18 | | | 33 | 2 | | | | 196 | 16 | 7 | 2 | | 21.1 | 11.0 | 10.5 | 72.0 |
| Aug 19 | | | 67 | 6 | | | | 137 | 23 | 5 | 3 | | 18.9 | 8.8 | 10.5 | 72.0 |
| Aug 20 | | | 53 | 2 | | | | 198 | 27 | 5 | 2 | | 21.0 | 11.0 | 10.5 | 72.0 |
| Aug 21 | | | 81 | 5 | | | | 234 | 46 | 13 | 1 | | 25.0 | 15.0 | 10.5 | 72.0 |
| Aug 22 | | | 83 | 6 | | | | 300 | 67 | 12 | 1 | | 22.5 | 12.5 | 10.5 | 72.0 |
| Aug 23 | | | 116 | 10 | | | | 488 | 90 | 3 | 3 | | 18.7 | 8.6 | 10.5 | 72.0 |
| Aug 24 | | | 66 | 8 | | | | 487 | 96 | 7 | 7 | | 22.5 | 12.6 | 10.5 | 72.0 |
| Aug 25 | | | 72 | 6 | | | | 797 | 174 | 13 | 2 | | 23.2 | 13.1 | 10.5 | 72.0 |
| Aug 26 | | | 70 | 12 | | | | 1,141 | 228 | 1 | 1 | | 21.7 | 11.5 | 10.5 | 72.0 |
| Aug 27 | | | 111 | 11 | | | | 1,031 | 231 | 4 | 2 | | 21.2 | 11.3 | 10.5 | 72.0 |
| Aug 28 | | | 106 | 9 | | | | 689 | 110 | 5 | 0 | | 24.1 | 15.0 | 8.5 | 72.0 |
| Aug 29 | | | 194 | 14 | | | | 748 | 87 | 4 | 1 | | 20.2 | 10.1 | 8.5 | 71.0 |
| Aug 30 | | | 81 | 14 | | | | 523 | 91 | 2 | 1 | | 18.6 | 8.7 | 8.5 | 71.0 |
| Aug 31 | | | 93 | 16 | | | | 800 | 155 | 2 | 5 | | 21.0 | 11.2 | 8.5 | 71.0 |
| TOTAL | | 335 | 1,439 | 210 | | | | 11,723 | 2,132 | 701 | 119 | | | | | |
| AVG. | | 30 | 72 | 7 | | | | 378 | 69 | 23 | 4 | | 23.3 | 13.2 | 10.3 | 71.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,047 | 7,308 |
| SUMMER | 8,015 | 2,584 |
| FALL | 1,439 | 138 |
| TOTAL | 37,501 | 10,030 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|
| 55 | 19,659 | 3,513 | 202,740 | 234 | 2 |

TABLE 86

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 198 | 43 | 0 | 0 | | 1,729 | 329 | 1 | 13 | 0 | 10.4 | 0.0 | 8.5 | 71.0 |
| Sep 2 | | | 62 | 18 | 0 | 0 | | 619 | 102 | 14 | 10 | 0 | 18.0 | 0.0 | 8.5 | 71.0 |
| Sep 3 | | | 109 | 34 | 0 | 0 | | 872 | 166 | 7 | 1 | 0 | 18.9 | 0.0 | 8.5 | 71.0 |
| Sep 4 | | | 415 | 99 | 18 | 0 | | 1,840 | 379 | 0 | 1 | 0 | 19.3 | 0.0 | 8.5 | 70.0 |
| Sep 5 | | | 636 | 195 | 18 | 0 | | 1,956 | 396 | 6 | 6 | 0 | 17.3 | 0.0 | 8.1 | 69.0 |
| Sep 6 | | | 485 | 151 | 4 | 0 | | 1,395 | 308 | 2 | 6 | 0 | 20.8 | 0.0 | 8.1 | 69.0 |
| Sep 7 | | | 386 | 107 | 15 | 0 | | 1,654 | 316 | 11 | 3 | 0 | 12.9 | 0.0 | 8.1 | 69.0 |
| Sep 8 | | | 192 | 56 | 5 | 0 | | 1,570 | 286 | 0 | 0 | 0 | 28.2 | 0.0 | 8.1 | 69.0 |
| Sep 9 | | | 219 | 104 | 6 | 1 | | 1,078 | 166 | -6 | 0 | 0 | 12.3 | 0.0 | 8.1 | 69.0 |
| Sep 10 | | | 221 | 111 | 5 | 0 | | 638 | 80 | 0 | 1 | 0 | 20.3 | 0.0 | 8.1 | 69.0 |
| Sep 11 | | | 286 | 252 | 2 | 0 | | 1,205 | 245 | 1 | 0 | 0 | 23.6 | 0.0 | 8.1 | 69.0 |
| Sep 12 | | | 313 | 202 | 4 | 0 | | 1,467 | 288 | 2 | 4 | 0 | 25.2 | 0.0 | 8.1 | 69.0 |
| Sep 13 | | | 391 | 338 | 6 | 0 | | 2,355 | 492 | 0 | 1 | 0 | 15.9 | 0.0 | 8.1 | 69.0 |
| Sep 14 | | | 496 | 361 | 12 | 4 | | 2,454 | 510 | 0 | 4 | 0 | 14.7 | 0.0 | 8.1 | 69.0 |
| Sep 15 | | | 471 | 343 | 25 | 1 | | 2,955 | 633 | 8 | 1 | 0 | 19.3 | 0.0 | 8.1 | 68.0 |
| Sep 16 | | | 465 | 350 | 25 | 2 | | 2,776 | 619 | 0 | 0 | 0 | 15.8 | 0.0 | 8.1 | 68.0 |
| Sep 17 | | | 345 | 358 | 30 | 4 | | 4,365 | 937 | 12 | 2 | 0 | 17.5 | 0.0 | 8.1 | 68.0 |
| Sep 18 | | | 654 | 442 | 46 | 2 | | 5,081 | 918 | 2 | 0 | 0 | 15.4 | 0.0 | 8.1 | 68.0 |
| Sep 19 | | | 528 | 324 | 36 | 4 | | 4,356 | 869 | 2 | 0 | 0 | 17.1 | 0.0 | 8.1 | 68.0 |
| Sep 20 | | | 264 | 208 | 32 | 7 | | 2,898 | 575 | 2 | 1 | 1 | 16.0 | 0.0 | 8.1 | 68.0 |
| Sep 21 | | | 334 | 331 | 50 | 5 | | 3,664 | 742 | 4 | 0 | 0 | 17.1 | 0.0 | 8.1 | 68.0 |
| Sep 22 | | | 211 | 308 | 52 | 9 | | 3,571 | 713 | 0 | 0 | 0 | 16.0 | 0.0 | 8.1 | 67.0 |
| Sep 23 | | | 237 | 258 | 46 | 5 | | 2,989 | 582 | 1 | 0 | 0 | 14.6 | 0.0 | 8.1 | 67.0 |
| Sep 24 | | | 298 | 402 | 67 | 17 | | 6,519 | 1,378 | 0 | 0 | 0 | 23.0 | 0.0 | 8.1 | 67.0 |
| Sep 25 | | | 294 | 345 | 45 | 1 | | 4,084 | 882 | -6 | 1 | 0 | 19.2 | 0.0 | 8.1 | 67.0 |
| Sep 26 | | | 511 | 640 | 77 | 14 | | 6,923 | 1,459 | 0 | 0 | 0 | 10.9 | 0.0 | 8.1 | 67.0 |
| Sep 27 | | | 269 | 231 | 47 | 0 | | 2,657 | 519 | 0 | 1 | 0 | 10.9 | 0.0 | 8.1 | 66.0 |
| Sep 28 | | | 346 | 249 | 44 | 1 | | 3,433 | 738 | 2 | 0 | 0 | 11.6 | 0.0 | 8.1 | 66.0 |
| Sep 29 | | | 267 | 164 | 31 | 1 | | 3,517 | 753 | 0 | 0 | 0 | 13.5 | 0.0 | 8.1 | 65.0 |
| Sep 30 | | | 304 | 225 | 40 | 1 | | 3,093 | 695 | 1 | 0 | 0 | 16.8 | 0.0 | 8.1 | 64.0 |
| TOTAL | | | 10,207 | 7,249 | 788 | 79 | | 83,713 | 17,075 | 66 | 56 | 1 | | | | |
| AVG. | | | 340 | 242 | 26 | 3 | | 2,790 | 569 | 2 | 2 | 0 | 17.1 | 0.0 | 8.2 | 68.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|---|---|---|
| SPRING | 28,047 | 7,308 | 788 | 79 | 55 | 103,372 | 20,588 | 202,806 | 290 | 3 |
| SUMMER | 8,015 | 2,584 | | | | | | | | |
| FALL | 11,646 | 7,387 | | | | | | | | |
| TOTAL | 47,708 | 17,279 | | | | | | | | |

TABLE 87

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ICE HARBOR PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | STURGEON | KCFS | KCFS | SECCHI | DEG F* |
| Oct 1 | | | 204 | 221 | 38 | 2 | | 3,618 | 712 | 1 | | | 16.4 | 0.0 | 8.4 | 64.0 |
| Oct 2 | | | 134 | 162 | 37 | 1 | | 3,594 | 708 | 2 | | | 21.7 | 0.0 | 8.4 | 64.0 |
| Oct 3 | | | 157 | 144 | 24 | 0 | | 2,821 | 564 | 0 | | | 17.0 | 0.0 | 8.4 | 64.0 |
| Oct 4 | | | 112 | 231 | 46 | 6 | | 3,232 | 678 | 0 | | | 19.8 | 0.0 | 8.4 | 64.0 |
| Oct 5 | | | 123 | 183 | 52 | 9 | | 2,702 | 660 | 1 | | | 13.3 | 0.0 | 8.4 | 64.0 |
| Oct 6 | | | 97 | 174 | 47 | 5 | | 3,300 | 754 | -1 | | | 21.8 | 0.0 | 8.4 | 62.0 |
| Oct 7 | | | 81 | 174 | 137 | 7 | | 4,136 | 906 | -1 | | | 16.1 | 0.0 | 8.4 | 61.0 |
| Oct 8 | | | 76 | 134 | 154 | 11 | | 3,011 | 698 | 0 | | | 19.7 | 0.0 | 8.4 | 61.0 |
| Oct 9 | | | 95 | 43 | 63 | 1 | | 2,066 | 408 | 0 | | | 22.0 | 0.0 | 8.4 | 61.0 |
| Oct 10 | | | 60 | 24 | 41 | 0 | | 2,397 | 507 | 0 | | | 20.1 | 0.0 | 8.4 | 61.0 |
| Oct 11 | | | 44 | 50 | 76 | 2 | | 1,721 | 279 | 0 | | | 24.2 | 0.0 | 8.4 | 61.0 |
| Oct 12 | | | 40 | 59 | 37 | 11 | | 1,261 | 231 | 1 | | | 16.7 | 0.0 | 6.2 | 61.0 |
| Oct 13 | | | 46 | 84 | 53 | 4 | | 1,250 | 263 | 0 | | | 20.5 | 0.0 | 6.2 | 61.0 |
| Oct 14 | | | 35 | 72 | 31 | 2 | | 794 | 167 | 0 | | | 16.8 | 0.0 | 6.2 | 61.0 |
| Oct 15 | | | 49 | 92 | 35 | 0 | | 1,010 | 203 | 0 | | | 18.8 | 0.0 | 6.2 | 61.0 |
| Oct 16 | | | 75 | 94 | 13 | 1 | | 1,261 | 241 | 0 | | | 13.9 | 0.0 | 6.2 | 61.0 |
| Oct 17 | | | 46 | 85 | 21 | 1 | | 1,327 | 312 | 6 | | | 17.2 | 0.0 | 6.2 | 61.0 |
| Oct 18 | | | 51 | 50 | 31 | 2 | | 1,129 | 281 | 0 | | | 19.6 | 0.0 | 6.2 | 61.0 |
| Oct 19 | | | 45 | 70 | 17 | 0 | | 908 | 186 | 1 | | | 12.7 | 0.0 | 6.2 | 61.0 |
| Oct 20 | | | 43 | 32 | 14 | 1 | | 796 | 177 | 0 | | | 15.0 | 0.0 | 6.2 | 61.0 |
| Oct 21 | | | 19 | 19 | 17 | -1 | | 596 | 120 | 0 | | | 20.0 | 0.0 | 6.2 | 61.0 |
| Oct 22 | | | 25 | 6 | 19 | 0 | | 410 | 81 | 0 | | | 24.9 | 0.0 | 6.2 | 61.0 |
| Oct 23 | | | 13 | 43 | 19 | 2 | | 949 | 245 | 1 | | | 25.4 | 0.0 | 6.8 | 61.0 |
| Oct 24 | | | 23 | 24 | 30 | 2 | | 852 | 234 | 1 | | | 19.3 | 0.0 | 6.8 | 61.0 |
| Oct 25 | | | 2 | 35 | 42 | 4 | | 956 | 253 | 0 | | | 20.7 | 0.0 | 6.8 | 61.0 |
| Oct 26 | | | 17 | 11 | 40 | 1 | | 941 | 250 | 0 | | | 24.3 | 0.0 | 6.8 | 59.0 |
| Oct 27 | | | 24 | 17 | 25 | 1 | | 1,191 | 313 | 0 | | | 15.5 | 0.0 | 7.2 | 59.0 |
| Oct 28 | | | 10 | 7 | 23 | 0 | | 726 | 185 | 0 | | | 10.3 | 0.0 | 7.2 | 58.0 |
| Oct 29 | | | 1 | 5 | 12 | -1 | | 511 | 132 | 0 | | | 22.2 | 0.0 | 7.2 | 57.0 |
| Oct 30 | | | 14 | 5 | 10 | 0 | | 446 | 106 | 0 | | | 19.6 | 0.0 | 7.2 | 57.0 |
| Oct 31 | | | 1 | 6 | 2 | 0 | | 335 | 85 | 0 | | | 15.1 | 0.0 | 7.2 | 57.0 |
| TOTAL | | | 1,762 | 2,356 | 1,206 | 74 | | 50,247 | 10,939 | 12 | | | | | | |
| AVG. | | | 57 | 76 | 39 | 2 | | 1,621 | 353 | 0 | | | 18.7 | 0.0 | 7.2 | 60.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,047 | 7,308 |
| SUMMER | 8,015 | 2,584 |
| FALL | 13,408 | 9,743 |
| TOTAL | 49,470 | 19,635 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | STURGEON |
|---|---|---|---|---|---|---|---|
| 1,994 | 153 | 55 | 153,619 | 31,527 | 202,818 | 290 | 3 |

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

South shore ladder was counted by direct observation while the north shore ladder was by closed circuit TV.

TABLE 88

**DISCHARGE AND WATER QUALITY DATA**

**ICE HARBOR PROJECT - 2007**

**NOVEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Nov 1 | 15.8 | 0.0 | 7.2 | 57.0 |
| Nov 2 | 19.2 | 0.0 | 7.2 | 57.0 |
| Nov 3 | 14.6 | 0.0 | 7.2 | 56.0 |
| Nov 4 | 15.6 | 0.0 | 7.2 | 56.0 |
| Nov 5 | 19.6 | 0.0 | 7.2 | 54.0 |
| Nov 6 | 12.4 | 0.0 | 7.2 | 54.0 |
| Nov 7 | 18.5 | 0.0 | 7.2 | 54.0 |
| Nov 8 | 17.9 | 0.0 | 7.2 | 54.0 |
| Nov 9 | 18.1 | 0.0 | 7.2 | 54.0 |
| Nov 10 | 18.1 | 0.0 | 7.2 | 54.0 |
| Nov 11 | 16.5 | 0.0 | 7.2 | 54.0 |
| Nov 12 | 19.6 | 0.0 | 7.2 | 53.0 |
| Nov 13 | 16.3 | 0.0 | 7.2 | 53.0 |
| Nov 14 | 13.6 | 0.0 | 7.2 | 53.0 |
| Nov 15 | 15.7 | 0.0 | 7.2 | 53.0 |
| Nov 16 | 16.7 | 0.0 | 7.2 | 53.0 |
| Nov 17 | 20.1 | 0.0 | 7.2 | 53.0 |
| Nov 18 | 25.1 | 0.0 | 7.2 | 53.0 |
| Nov 19 | 27.5 | 0.0 | 7.2 | 53.0 |
| Nov 20 | 26.4 | 0.0 | 7.2 | 52.0 |
| Nov 21 | 25.4 | 0.0 | 7.2 | 52.0 |
| Nov 22 | 24.5 | 0.0 | 7.2 | 52.0 |
| Nov 23 | 21.4 | 0.0 | 7.2 | 50.0 |
| Nov 24 | 21.7 | 0.0 | 7.2 | 50.0 |
| Nov 25 | 18.3 | 0.0 | 7.2 | 50.0 |
| Nov 26 | 25.1 | 0.0 | 7.2 | 49.0 |
| Nov 27 | 15.9 | 0.0 | 7.2 | 49.0 |
| Nov 28 | 16.7 | 0.0 | 7.2 | 49.0 |
| Nov 29 | 20.7 | 0.0 | 7.2 | 49.0 |
| Nov 30 | 18.6 | 0.0 | 7.2 | 48.0 |
| AVG. | 19.3 | 0.0 | 7.2 | 52.4 |

**DECEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Dec 1 | 17.6 | 0.0 | 7.2 | 48.0 |
| Dec 2 | 16.6 | 0.0 | 7.2 | 46.0 |
| Dec 3 | 18.1 | 0.0 | 7.2 | 46.0 |
| Dec 4 | 20.9 | 0.0 | 7.2 | 46.0 |
| Dec 5 | 34.4 | 0.0 | 6.2 | 46.0 |
| Dec 6 | 25.5 | 0.0 | 6.2 | 46.0 |
| Dec 7 | 26.9 | 0.0 | 6.2 | 45.0 |
| Dec 8 | 21.2 | 0.0 | 6.2 | 45.0 |
| Dec 9 | 22.7 | 0.0 | 6.2 | 45.0 |
| Dec 10 | 26.5 | 0.0 | 6.2 | 45.0 |
| Dec 11 | 21.9 | 0.0 | 6.2 | 44.0 |
| Dec 12 | 25.5 | 0.0 | 6.2 | 44.0 |
| Dec 13 | 19.2 | 0.0 | 6.2 | 44.0 |
| Dec 14 | 21.1 | 0.0 | 6.2 | 44.0 |
| Dec 15 | 18.7 | 0.0 | 6.2 | 44.0 |
| Dec 16 | 21.2 | 0.0 | 6.2 | 43.0 |
| Dec 17 | 23.5 | 0.0 | 6.2 | 43.0 |
| Dec 18 | 17.4 | 0.0 | 6.2 | 43.0 |
| Dec 19 | 24.3 | 0.0 | 6.2 | 43.0 |
| Dec 20 | 20.1 | 0.0 | 6.2 | 43.0 |
| Dec 21 | 26.3 | 0.0 | 6.2 | 43.0 |
| Dec 22 | 20.0 | 0.0 | 6.2 | 43.0 |
| Dec 23 | 21.1 | 0.0 | 6.2 | 43.0 |
| Dec 24 | 27.5 | 0.0 | 6.2 | 43.0 |
| Dec 25 | 20.5 | 0.0 | 6.4 | 43.0 |
| Dec 26 | 21.1 | 0.0 | 6.4 | 43.0 |
| Dec 27 | 25.9 | 0.0 | 6.4 | 43.0 |
| Dec 28 | 20.9 | 0.0 | 6.4 | 43.0 |
| Dec 29 | 22.5 | 0.0 | 6.4 | 42.0 |
| Dec 30 | 22.0 | 0.0 | 6.4 | 42.0 |
| Dec 31 | 23.3 | 0.0 | 6.4 | 40.0 |
| AVG. | 22.6 | 0.0 | 6.3 | 43.8 |

TABLE 89

## YEARLY TOTALS OF SALMONIDS COUNTED OVER ICE HARBOR DAM 1962 - 2007

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS* |
|---|---|---|---|---|---|
| 1962 | 94,301 | 115,796 | 38 | 3,207 | 213,342 |
| 1963 | 61,190 | 74,539 | 1,118 | 1,933 | 138,780 |
| 1964 | 60,097 | 58,860 | 1,276 | 2,071 | 122,304 |
| 1965 | 39,233 | 62,873 | 317 | 320 | 102,743 |
| 1966 | 75,882 | 65,798 | 278 | 878 | 142,836 |
| 1967 | 84,930 | 44,205 | 717 | 3,770 | 133,622 |
| 1968 | 98,681 | 82,383 | 1,165 | 6,227 | 188,456 |
| 1969 | 100,514 | 63,889 | 745 | 5,316 | 170,464 |
| 1970 | 77,698 | 53,870 | 797 | 3,636 | 136,001 |
| 1971 | 70,248 | 67,029 | 532 | 2,969 | 140,778 |
| 1972 | 82,632 | 63,593 | 363 | 2,522 | 149,110 |
| 1973 | 81,821 | 38,311 | 233 | 2,443 | 122,808 |
| 1974 | 32,444 | 12,528 | 204 | 1,334 | 46,510 |
| 1975 | 31,686 | 16,218 | 243 | 1,559 | 49,706 |
| 1976 | 36,556 | 23,885 | 771 | 1,991 | 63,203 |
| 1977 | 56,514 | 54,820 | 582 | 1,561 | 113,477 |
| 1978 | 61,352 | 27,142 | 86 | 652 | 89,232 |
| 1979 | 13,929 | 23,117 | 30 | 398 | 37,474 |
| 1980 | 14,717 | 50,221 | 36 | 58 | 65,032 |
| 1981 | 22,092 | 41,290 | 142 | 82 | 63,606 |
| 1982 | 22,646 | 73,405 | 174 | 348 | 96,573 |
| 1983 | 20,259 | 88,475 | 216 | 465 | 109,415 |
| 1984 | 17,757 | 94,030 | 105 | 22 | 111,914 |
| 1985 | 47,981 | 128,481 | 24 | 10 | 176,496 |
| 1986 | 52,615 | 144,292 | 20 | 0 | 196,927 |
| 1987 | 47,477 | 74,491 | 13 | 0 | 121,981 |
| 1988 | 48,066 | 99,714 | 22 | 0 | 147,802 |
| 1989 | 27,234 | 151,101 | 4 | 0 | 178,339 |
| 1990 | 31,841 | 54,758 | 1 | 1 | 86,601 |
| 1991 | 23,175 | 123,762 | 9 | 1 | 146,947 |
| 1992 | 36,021 | 160,614 | 33 | 0 | 196,668 |
| 1993 | 34,991 | 73,107 | 17 | 0 | 108,115 |
| 1994 | 7,577 | 51,704 | 0 | 1 | 59,282 |
| 1995 | 7,990 | 92,026 | 5 | 4 | 100,025 |
| 1996 | 16,419 | 100,805 | 1 | 0 | 117,225 |
| 1997 | 55,412 | 103,830 | 15 | 128 | 159,385 |
| 1998 | 26,117 | 85,122 | 3 | 15 | 111,257 |
| 1999 | 23,331 | 84,163 | 8 | 144 | 107,646 |
| 2000 | 72,154 | 126,424 | 215 | 1,224 | 200,017 |
| 2001 | 215,697 | 283,694 | 38 | 1,595 | 501,024 |
| 2002 | 137,507 | 211,762 | 61 | 289 | 349,619 |
| 2003 | 143,197 | 186,474 | 37 | 1,431 | 331,139 |
| 2004 | 130,218 | 171,380 | 91 | 3,519 | 305,208 |
| 2005 | 58,361 | 156,920 | 18 | 1,621 | 216,920 |
| 2006 | 52,501 | 124,812 | 48 | 971 | 178,332 |
| 2007 | 69,106 | 157,620 | 55 | 2,147 | 228,928 |
| Totals | 2,622,167 | 4,243,333 | 10,906 | 56,863 | 6,933,269 |
| 10-Year Average | 92,819 | 158,837 | 57 | 1,296 | 253,009 |

***Jacks included**

**These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in November and December for the count seasons, 1996-2002.**

TABLE 90

**MONTHLY COUNT OF CHINOOK SALMON**
**ICE HARBOR DAM**
**1962 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL* | SPRING 1 APR-11 JUN | SUMMER 12 JUN-11 AUG | FALL 12 AUG-31 OCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1962 | | | | 2,579 | 28,951 | 23,250 | 8,315 | 3,547 | 20,578 | 7,081 | | | 94,301 | 33,613 | 30,639 | 30,049 |
| 1963 | | | | 3,434 | 21,790 | 14,001 | 7,591 | 1,415 | 9,342 | 2,918 | 677 | 22 | 61,190 | 26,778 | 20,875 | 13,537 |
| 1964 | | 1 | 2 | 4,048 | 19,611 | 5,409 | 18,832 | 2,161 | 8,159 | 1,701 | 156 | 17 | 60,097 | 24,304 | 24,696 | 11,097 |
| 1965 | | | 4 | 1,677 | 9,649 | 5,072 | 10,209 | 803 | 9,318 | 2,152 | 349 | | 39,233 | 12,178 | 14,701 | 12,354 |
| 1966 | | | | 23,382 | 19,294 | 10,611 | 7,166 | 1,933 | 10,756 | 2,740 | | | 75,882 | 43,881 | 16,983 | 15,018 |
| 1967 | | | | 15,973 | 18,137 | 9,020 | 22,218 | 820 | 11,947 | 6,815 | | | 84,930 | 35,593 | 30,315 | 19,022 |
| 1968 | | | | 1,595 | 41,398 | 12,119 | 17,751 | 3,433 | 16,588 | 5,275 | 493 | 29 | 98,681 | 44,773 | 29,531 | 24,377 |
| 1969 | | | 195 | 697 | 43,181 | 24,918 | 12,861 | 2,369 | 12,027 | 3,555 | 708 | 3 | 100,514 | 52,090 | 30,917 | 17,507 |
| 1970 | | | | 12,167 | 33,881 | 12,338 | 8,185 | 1,747 | 7,702 | 1,456 | 219 | 3 | 77,698 | 47,931 | 19,382 | 10,385 |
| 1971 | | | | 1,104 | 25,089 | 19,265 | 13,364 | 873 | 8,960 | 1,593 | | | 70,248 | 32,638 | 26,606 | 11,004 |
| 1972 | | | | 14,535 | 34,734 | 7,544 | 15,177 | 1,869 | 6,089 | 2,684 | | | 82,632 | 50,350 | 22,846 | 9,436 |
| 1973 | | | | 34,277 | 23,627 | 10,925 | 4,254 | 840 | 6,657 | 1,241 | | | 81,821 | 60,639 | 12,829 | 8,353 |
| 1974 | | | | 842 | 16,670 | 5,315 | 6,494 | 483 | 2,066 | 574 | | | 32,444 | 19,361 | 10,269 | 2,814 |
| 1975 | | | | 1,314 | 17,796 | 5,817 | 3,972 | 506 | 1,875 | 406 | | | 31,686 | 21,401 | 7,727 | 2,558 |
| 1976 | | | | 3,146 | 19,269 | 8,544 | 3,921 | 349 | 1,123 | 204 | | | 36,556 | 25,056 | 10,026 | 1,474 |
| 1977 | | | | 24,003 | 17,626 | 9,328 | 3,606 | 297 | 1,370 | 284 | | | 56,514 | 44,421 | 10,337 | 1,756 |
| 1978 | | | | 14,891 | 29,333 | 9,999 | 4,888 | 892 | 1,064 | 269 | 16 | | 61,352 | 49,303 | 10,440 | 1,609 |
| 1979 | | | | 1,731 | 6,528 | 2,234 | 1,216 | 379 | 1,489 | 333 | 19 | | 13,929 | 9,247 | 2,608 | 2,074 |
| 1980 | | | | 1,678 | 7,321 | 2,285 | 1,569 | 301 | 1,034 | 504 | 25 | | 14,717 | 9,668 | 3,305 | 1,744 |
| 1981 | | | 1 | 6,744 | 8,542 | 2,884 | 1,751 | 161 | 1,530 | 470 | 9 | | 22,092 | 16,167 | 3,814 | 2,111 |
| 1982 | | | 3 | 656 | 11,543 | 4,522 | 2,347 | 283 | 2,601 | 691 | | | 22,646 | 14,600 | 4,527 | 3,519 |
| 1983 | | | | 1,925 | 9,418 | 4,132 | 1,921 | 316 | 1,945 | 602 | | | 20,259 | 12,602 | 4,922 | 2,735 |
| 1984 | | | | 823 | 7,292 | 5,353 | 1,943 | 223 | 1,762 | 361 | | | 17,757 | 9,183 | 6,307 | 2,267 |
| 1985 | | | | 12,245 | 18,334 | 6,885 | 1,294 | 546 | 5,414 | 3,263 | | | 47,981 | 33,527 | 5,290 | 9,164 |
| 1986 | | | 1 | 14,764 | 22,025 | 8,299 | 1,672 | 169 | 3,664 | 2,021 | | | 52,615 | 39,087 | 7,745 | 5,783 |
| 1987 | | | | 11,141 | 18,821 | 6,550 | 2,437 | 329 | 6,089 | 2,110 | | | 47,477 | 32,083 | 6,982 | 8,412 |
| 1988 | | | | 14,274 | 17,196 | 8,609 | 1,904 | 702 | 3,621 | 1,760 | | | 48,066 | 34,394 | 7,790 | 5,882 |
| 1989 | | | | 3,307 | 11,724 | 4,946 | 1,143 | 776 | 3,917 | 1,421 | | | 27,234 | 17,029 | 4,215 | 5,990 |
| 1990 | | | | 7,578 | 12,166 | 5,353 | 1,337 | 320 | 3,315 | 1,773 | | | 31,842 | 20,730 | 5,794 | 5,317 |
| 1991 | | | | 1,639 | 7,953 | 5,367 | 2,101 | 155 | 4,053 | 1,907 | | | 23,175 | 11,288 | 5,861 | 6,026 |
| 1992 | | | | 11,462 | 12,001 | 5,791 | 1,189 | 228 | 3,716 | 1,634 | | | 36,021 | 26,114 | 4,377 | 5,530 |
| 1993 | | | | 5,776 | 15,879 | 8,705 | 1,405 | 338 | 2,087 | 801 | | | 34,991 | 24,935 | 6,919 | 3,137 |
| 1994 | | | | 717 | 2,268 | 1,183 | 289 | 170 | 1,693 | 1,257 | | | 7,577 | 3,472 | 1,003 | 3,102 |
| 1995 | | | | 256 | 1,253 | 928 | 315 | 387 | 2,920 | 1,931 | | | 7,990 | 1,873 | 915 | 5,202 |
| 1996 | | | | 97 | 6,254 | 3,954 | 1,367 | 792 | 2,983 | 928 | 44 | 0 | 16,419 | 7,671 | 4,086 | 4,662 |
| 1997 | | | | 3,442 | 30,332 | 14,678 | 2,224 | 411 | 2,502 | 1,680 | 143 | 0 | 55,412 | 41,473 | 9,318 | 4,621 |
| 1998 | | | | 3,850 | 7,285 | 6,001 | 1,165 | 421 | 4,324 | 3,006 | 64 | 1 | 26,117 | 12,564 | 5,777 | 7,776 |
| 1999 | | | | 260 | 5,717 | 5,659 | 1,461 | 917 | 6,283 | 2,943 | 89 | 2 | 23,331 | 8,008 | 5,211 | 10,112 |
| 2000 | | | | 13,749 | 29,916 | 9,877 | 2,076 | 1,928 | 9,763 | 4,738 | 105 | 2 | 72,154 | 48,278 | 7,420 | 16,456 |
| 2001 | | | | 104,883 | 55,788 | 26,709 | 4,268 | 1,327 | 18,315 | 4,262 | 140 | 5 | 215,697 | 174,199 | 17,667 | 23,831 |
| 2002 | | | | 5,016 | 71,511 | 33,555 | 5,750 | 2,752 | 15,874 | 2,946 | 100 | 3 | 137,507 | 87,033 | 29,044 | 21,327 |
| 2003 | | | 132 | 42,343 | 34,581 | 28,636 | 5,732 | 1,286 | 23,445 | 7,174 | | | 143,329 | 86,190 | 25,344 | 31,663 |
| 2004 | | | 5 | 36,168 | 37,934 | 19,580 | 4,094 | 908 | 26,998 | 4,531 | | | 130,218 | 81,752 | 16,185 | 32,276 |
| 2005 | | | | 1,763 | 20,798 | 14,089 | 2,323 | 1,389 | 14,672 | 3,327 | | | 58,361 | 29,306 | 9,817 | 19,238 |
| 2006 | | | | 29 | 21,660 | 11,042 | 2,438 | 1,534 | 11,976 | 3,822 | | | 52,501 | 26,309 | 9,085 | 17,107 |
| 2007 | | | 1 | 3,277 | 27,506 | 11,597 | 3,167 | 1,984 | 17,456 | 4,118 | | | 69,106 | 35,355 | 10,599 | 23,151 |
| TOTAL | | 1 | 344 | 471,257 | 959,582 | 462,878 | 230,702 | 45,769 | 341,062 | 107,262 | 3,356 | 87 | 2,622,300 | 1,578,447 | 561,046 | 482,565 |
| 10-Year Average | | | | 21,134 | 31,270 | 16,675 | 3,247 | 1,445 | 14,911 | 4,087 | | | 92,832 | 58,899 | 13,615 | 20,294 |

***Jacks include**

**The 1996 through 2002 count seasons were extended to include video counts made between 0600 and 1600 hours daily from November 1 through December 15.**

TABLE 91

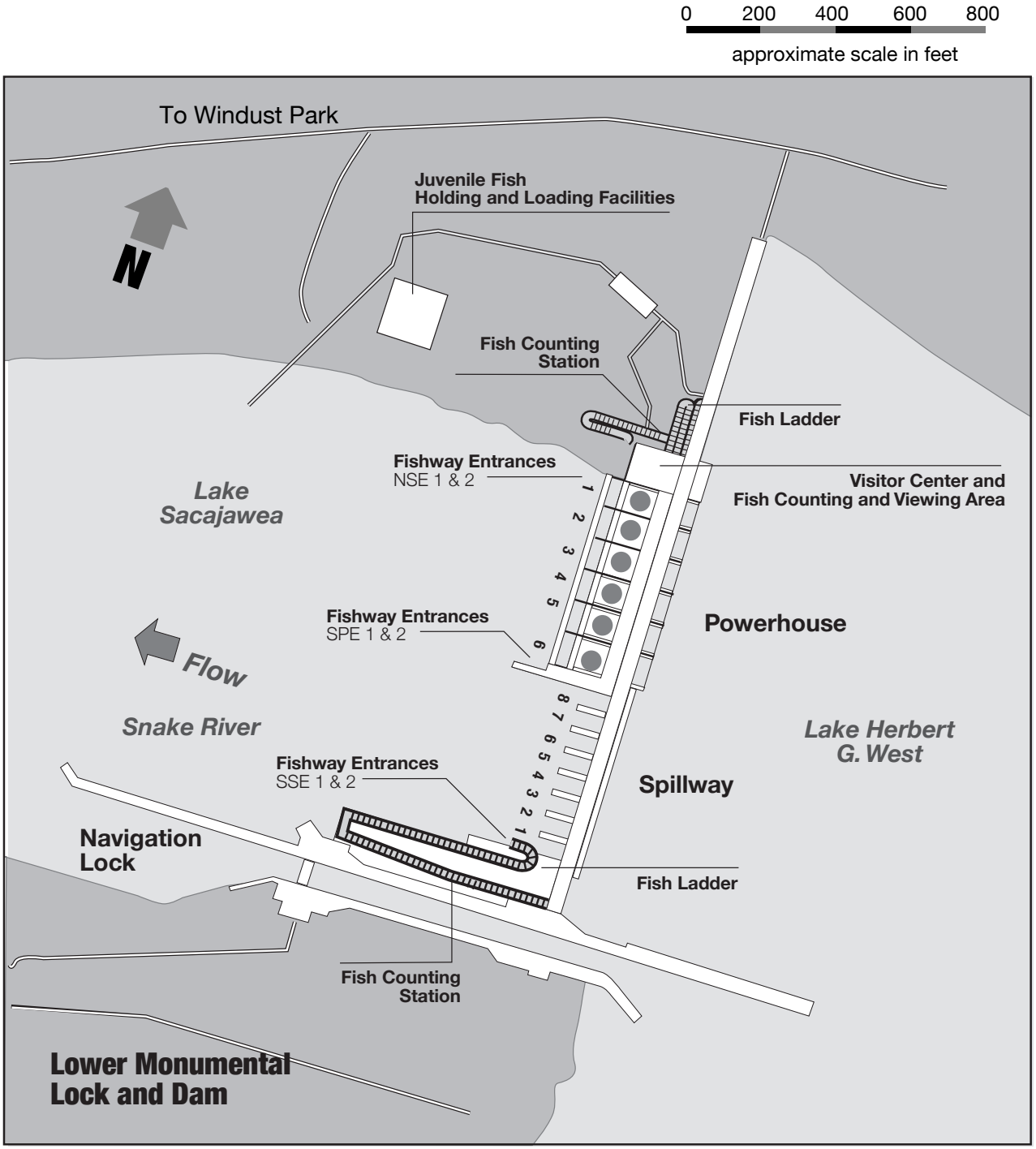
**MONTHLY COUNT OF STEELHEAD**

**ICE HARBOR DAM**
**1962 -2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1962 | | | | 8,758 | 716 | 261 | 2,384 | 7,450 | 75,924 | 20,303 | | | 115,796 |
| 1963 | | | | 969 | 895 | 163 | 2,157 | 6,514 | 35,382 | 24,070 | 4,042 | 347 | 74,539 |
| 1964 | 105 | 136 | 796 | 2,269 | 807 | 153 | 1,596 | 9,462 | 34,435 | 7,357 | 1,347 | 397 | 58,860 |
| 1965 | 31 | 110 | 673 | 1,976 | 488 | 439 | 3,739 | 4,497 | 33,595 | 13,522 | 3,803 | | 62,873 |
| 1966 | | | | 2,161 | 810 | 413 | 1,383 | 2,517 | 40,185 | 18,329 | | | 65,798 |
| 1967 | | | | 1,266 | 894 | 345 | 972 | 953 | 18,914 | 20,861 | | | 44,205 |
| 1968 | | | | 2,558 | 2,933 | 357 | 952 | 8,107 | 45,552 | 17,270 | 3,692 | 962 | 82,383 |
| 1969 | 132 | 41 | 807 | 4,971 | 2,430 | 321 | 3,348 | 5,715 | 27,219 | 14,953 | 3,874 | 78 | 63,889 |
| 1970 | | | | 1,597 | 1,067 | 389 | 2,620 | 7,611 | 30,101 | 8,290 | 1,891 | 304 | 53,870 |
| 1971 | | | 458 | 1,938 | 843 | 215 | 3,064 | 2,996 | 42,481 | 15,034 | | | 67,029 |
| 1972 | | | | 1,853 | 553 | 152 | 3,062 | 6,503 | 34,134 | 17,336 | | | 63,593 |
| 1973 | | | | 1,570 | 827 | 254 | 1,785 | 2,699 | 22,021 | 9,155 | | | 38,311 |
| 1974 | | | | 972 | 359 | 104 | 1,482 | 2,202 | 3,661 | 3,748 | | | 12,528 |
| 1975 | | | | 564 | 409 | 76 | 1,223 | 3,878 | 6,816 | 3,252 | | | 16,218 |
| 1976 | | | | 508 | 142 | 165 | 1,714 | 5,138 | 11,141 | 5,077 | | | 23,885 |
| 1977 | | | | 685 | 220 | 308 | 3,654 | 3,017 | 30,610 | 16,326 | | | 54,820 |
| 1978 | | | | 908 | 88 | 43 | 1,308 | 2,907 | 15,094 | 6,092 | 702 | | 27,142 |
| 1979 | | | 454 | 538 | 114 | 60 | 1,995 | 1,778 | 6,136 | 9,717 | 2,325 | | 23,117 |
| 1980 | | | 1,420 | 2,796 | 563 | 39 | 1,303 | 4,333 | 22,064 | 15,424 | 2,279 | | 50,221 |
| 1981 | | | 797 | 1,106 | 433 | 137 | 2,305 | 1,431 | 16,563 | 16,669 | 1,849 | | 41,290 |
| 1982 | | | 1,471 | 1,931 | 918 | 45 | 2,564 | 8,895 | 30,574 | 27,007 | | | 73,405 |
| 1983 | | | | 1,001 | 150 | 36 | 3,773 | 9,875 | 48,519 | 25,121 | | | 88,475 |
| 1984 | | | | 2,218 | 488 | 49 | 4,103 | 4,554 | 50,638 | 31,980 | | | 94,030 |
| 1985 | | | 1,892 | 7,353 | 439 | 306 | 3,070 | 14,468 | 75,378 | 25,575 | | | 128,481 |
| 1986 | | | 2,561 | 1,642 | 187 | 174 | 6,600 | 8,679 | 63,598 | 60,851 | | | 144,292 |
| 1987 | | | | 2,136 | 235 | 262 | 3,292 | 4,972 | 28,491 | 35,103 | | | 74,491 |
| 1988 | | | | 4,865 | 580 | 671 | 3,251 | 5,955 | 46,838 | 37,554 | | | 99,714 |
| 1989 | | | | 4,326 | 355 | 487 | 7,399 | 8,916 | 80,799 | 48,819 | | | 151,101 |
| 1990 | | | | 2,793 | 148 | 252 | 2,631 | 2,000 | 18,728 | 28,206 | | | 54,758 |
| 1991 | | | | 2,297 | 256 | 166 | 3,254 | 1,275 | 55,447 | 61,067 | | | 123,762 |
| 1992 | | | | 1,433 | 232 | 742 | 4,190 | 8,137 | 89,281 | 56,599 | | | 160,614 |
| 1993 | | | | 7,418 | 287 | 745 | 5,896 | 8,086 | 21,614 | 29,061 | | | 73,107 |
| 1994 | | | | 3,040 | 126 | 394 | 3,295 | 3,162 | 16,702 | 24,985 | | | 51,704 |
| 1995 | | | | 828 | 84 | 193 | 4,699 | 14,521 | 39,494 | 32,207 | | | 92,026 |
| 1996 | | | | 743 | 81 | 229 | 3,427 | 15,391 | 48,722 | 28,657 | 2,303 | 1,252 | 100,805 |
| 1997 | | | | 1,187 | 216 | 280 | 4,323 | 11,522 | 40,238 | 37,036 | 8,484 | 544 | 103,830 |
| 1998 | | | | 1,719 | 74 | 259 | 3,226 | 3,114 | 25,408 | 43,844 | 5,400 | 2,078 | 85,122 |
| 1999 | | | | 713 | 93 | 246 | 3,784 | 16,120 | 40,424 | 18,887 | 2,809 | 1,087 | 84,163 |
| 2000 | | | | 805 | 91 | 870 | 7,202 | 11,684 | 65,713 | 33,899 | 5,510 | 650 | 126,424 |
| 2001 | | | | 1,322 | 139 | 3,682 | 17,607 | 27,925 | 136,208 | 68,837 | 22,449 | 5,525 | 283,694 |
| 2002 | | | | 4,507 | 134 | 943 | 12,760 | 30,321 | 87,357 | 66,151 | 8,770 | 819 | 211,762 |
| 2003 | | | 5,201 | 1,548 | 74 | 1,128 | 11,558 | 12,267 | 109,101 | 50,798 | | | 191,675 |
| 2004 | | | 2,483 | 1,690 | 118 | 1,467 | 9,875 | 6,593 | 111,826 | 37,328 | | | 171,380 |
| 2005 | | | 1,379 | 1,205 | 124 | 1,364 | 4,619 | 11,902 | 76,394 | 59,933 | | | 156,920 |
| 2006 | | | 1,181 | 2,628 | 78 | 490 | 2,797 | 7,265 | 67,556 | 42,817 | | | 124,812 |
| 2007 | | | 4,001 | 2,183 | 107 | 903 | 4,743 | 11,723 | 83,713 | 50,247 | | | 157,620 |
| Totals | 268 | 287 | 25,574 | 103,494 | 21,405 | 20,777 | 185,984 | 359,030 | 2,110,789 | 1,325,354 | 81,529 | 14,043 | 4,248,534 |
| 10-Year Average | | | | 1,832 | 103 | 1,135 | 7,817 | 13,891 | 80,370 | 47,274 | | | 159,357 |

**The 1996 through 2002 count seasons were extended to include video counts made between 0600 and 1600 hours daily, November 1 to December 15.**

# Plate 7 Lower Monumental Lock and Dam



# LOWER MONUMENTAL DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| 1 Apr – 31 Oct | Visual counting daily 0400 – 2000 hours PST |

## FISH LADDER OPERATING SCHEDULE

***North Ladder***

| | |
|---|---|
| 1 Jan – 2 Jan | Ladder in service. |
| 3 Jan – 25 Jan | Ladder dewatered for annual maintenance. |
| 25 Jan – 31 Dec | Ladder in service. |

***South Ladder***

| | |
|---|---|
| 1 Jan – 29 Jan | Ladder in service. |
| 30 Jan – 26 Feb | Ladder dewatered for annual maintenance. |
| 27 Feb – 31 Dec | Ladder in service. |

## FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pools and the downstream end of the primary dewaterer. Hourly readings were taken from June 16 to Sept 15. The purpose is to determine if summer spill has any effects on exit pool temperatures.

Operated with two fish pumps for part of the adult fish passage season, with the third being placed in standby mode. This reduced the wear and tear and allowed maintenance to be performed. Ladder criteria was met for the most part of the season with two pumps in operation.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 8 March to 18 December.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 8 March 07 to 2 January 08.

TABLE 92

**MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LOWER MONUMENTAL DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | 2,143 | 27,277 | 13,221 | 5,238 | 1,804 | 17,407 | 6,243 | | | 73,333 |
| STEELHEAD | | | | 2,174 | 143 | 914 | 5,735 | 8,657 | 77,612 | 58,869 | | | 154,104 |
| SOCKEYE | | | | | | 10 | 32 | 1 | | 1 | | | 44 |
| COHO* | | | | | | | | 8 | 558 | 1,665 | | | 2,231 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | | 4,317 | 27,420 | 14,145 | 11,005 | 10,470 | 95,577 | 66,778 | | | 229,712 |
| LAMPREY | | | | | 5 | 7 | 35 | 72 | 15 | 4 | | | 138 |
| STURGEON | | | | | | | | | | | | | 0 |
| BULL TROUT | | | | 1 | 0 | 2 | 1 | | | | | | 4 |

***Jacks included**

TABLE 93

**DISCHARGE AND WATER QUALITY DATA**

**LOWER MONUMENTAL PROJECT 2007**

**JANUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *TURBIDITY *DEG F |
|---|---|---|---|---|
| Jan 1 | 30.5 | 0.0 | | |
| Jan 2 | 31.2 | 7.6 | | |
| Jan 3 | 29.0 | 8.6 | | |
| Jan 4 | 34.6 | 10.2 | | |
| Jan 5 | 39.5 | 25.6 | | |
| Jan 6 | 34.2 | 17.0 | | |
| Jan 7 | 40.8 | 0.0 | | |
| Jan 8 | 26.5 | 6.4 | | |
| Jan 9 | 46.5 | 0.0 | | |
| Jan 10 | 29.7 | 0.0 | | |
| Jan 11 | 46.9 | 0.0 | | |
| Jan 12 | 39.5 | 0.0 | | |
| Jan 13 | 38.5 | 0.0 | | |
| Jan 14 | 36.7 | 0.0 | | |
| Jan 15 | 36.5 | 0.0 | | |
| Jan 16 | 51.3 | 0.0 | | |
| Jan 17 | 26.8 | 0.0 | | |
| Jan 18 | 37.2 | 0.0 | | |
| Jan 19 | 32.6 | 0.0 | | |
| Jan 20 | 19.7 | 0.0 | | |
| Jan 21 | 16.8 | 0.0 | | |
| Jan 22 | 34.0 | 0.0 | | |
| Jan 23 | 33.5 | 0.0 | | |
| Jan 24 | 28.6 | 0.0 | | |
| Jan 25 | 43.6 | 0.0 | | |
| Jan 26 | 20.3 | 2.6 | | |
| Jan 27 | 22.7 | 0.0 | | |
| Jan 28 | 12.2 | 0.0 | | |
| Jan 29 | 28.5 | 0.0 | | |
| Jan 30 | 17.0 | 0.0 | | |
| Jan 31 | 30.2 | 0.0 | | |
| AVG | 32.1 | 2.5 | | |

**FEBRUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *TURBIDITY *DEG F |
|---|---|---|---|---|
| Feb 1 | 32.3 | 0.0 | | |
| Feb 2 | 30.3 | 0.0 | | |
| Feb 3 | 27.5 | 0.0 | | |
| Feb 4 | 22.2 | 0.0 | | |
| Feb 5 | 24.5 | 0.0 | | |
| Feb 6 | 19.2 | 0.0 | | |
| Feb 7 | 24.2 | 0.0 | | |
| Feb 8 | 24.3 | 0.0 | | |
| Feb 9 | 18.4 | 0.0 | | |
| Feb 10 | 28.5 | 0.0 | | |
| Feb 11 | 26.3 | 0.0 | | |
| Feb 12 | 31.0 | 0.0 | | |
| Feb 13 | 44.1 | 0.0 | | |
| Feb 14 | 33.0 | 0.0 | | |
| Feb 15 | 33.1 | 0.0 | | |
| Feb 16 | 45.7 | 0.0 | | |
| Feb 17 | 47.6 | 0.0 | | |
| Feb 18 | 39.9 | 0.0 | | |
| Feb 19 | 43.2 | 0.0 | | |
| Feb 20 | 43.9 | 0.0 | | |
| Feb 21 | 41.9 | 0.0 | | |
| Feb 22 | 33.2 | 0.0 | | |
| Feb 23 | 40.7 | 0.0 | | |
| Feb 24 | 39.5 | 0.0 | | |
| Feb 25 | 32.4 | 0.0 | | |
| Feb 26 | 37.2 | 0.0 | | |
| Feb 27 | 40.7 | 0.0 | | |
| Feb 28 | 28.4 | 0.0 | | |
| AVG | 33.3 | 0.0 | | |

**MARCH**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *TURBIDITY *DEG F |
|---|---|---|---|---|
| Mar 1 | 29.9 | 0.0 | | |
| Mar 2 | 32.0 | 0.0 | | |
| Mar 3 | 33.9 | 0.0 | | |
| Mar 4 | 26.4 | 0.0 | | |
| Mar 5 | 20.1 | 0.6 | | |
| Mar 6 | 28.6 | 0.0 | | |
| Mar 7 | 28.3 | 0.0 | | |
| Mar 8 | 28.2 | 0.0 | | |
| Mar 9 | 37.0 | 6.1 | | |
| Mar 10 | 36.8 | 6.3 | | |
| Mar 11 | 36.2 | 0.0 | | |
| Mar 12 | 45.6 | 0.0 | | |
| Mar 13 | 55.3 | 0.0 | | |
| Mar 14 | 62.9 | 0.0 | | |
| Mar 15 | 61.7 | 0.0 | | |
| Mar 16 | 53.4 | 0.0 | | |
| Mar 17 | 46.4 | 0.0 | | |
| Mar 18 | 46.3 | 0.0 | | |
| Mar 19 | 56.5 | 0.4 | | |
| Mar 20 | 58.0 | 0.0 | | |
| Mar 21 | 69.1 | 0.0 | | |
| Mar 22 | 57.7 | 0.0 | | |
| Mar 23 | 71.5 | 0.0 | | |
| Mar 24 | 47.9 | 0.0 | | |
| Mar 25 | 45.7 | 0.0 | | |
| Mar 26 | 69.3 | 0.0 | | |
| Mar 27 | 68.5 | 7.6 | | |
| Mar 28 | 60.0 | 7.7 | | |
| Mar 29 | 58.7 | 8.4 | | |
| Mar 30 | 59.5 | 3.6 | | |
| Mar 31 | 55.6 | 1.6 | | |
| AVG | 48.0 | 1.4 | | |

*Data Unavailable

TABLE 94

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LOWER MONUMENTAL PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 0 | | | 0 | | | | 171 | 57 | 0 | | 37.2 | 0.0 | 3.5 | 46.8 |
| Apr 2 | 0 | | | 0 | | | | 178 | 66 | 0 | | 59.3 | 0.0 | 3.5 | 46.7 |
| Apr 3 | 0 | | | 0 | | | | 102 | 31 | 0 | | 44.1 | 20.3 | 3.5 | 46.5 |
| Apr 4 | 0 | | | 0 | | | | 116 | 40 | 0 | | 38.9 | 21.5 | 3.5 | 46.7 |
| Apr 5 | 1 | | | 0 | | | | 129 | 33 | 0 | | 36.4 | 23.3 | 4.0 | 46.9 |
| Apr 6 | 0 | | | 0 | | | | 197 | 50 | 0 | | 32.6 | 19.1 | 4.0 | 47.0 |
| Apr 7 | -2 | | | 0 | | | | 139 | 39 | 0 | | 34.8 | 22.5 | 4.0 | 47.3 |
| Apr 8 | 0 | | | 0 | | | | 106 | 25 | 0 | | 38.6 | 26.4 | 4.0 | 47.8 |
| Apr 9 | 1 | | | 0 | | | | 90 | 13 | 0 | | 47.0 | 26.2 | 2.5 | 48.1 |
| Apr 10 | 0 | | | 0 | | | | 79 | 28 | 0 | | 52.4 | 26.4 | 2.5 | 47.9 |
| Apr 11 | 0 | | | 0 | | | | 130 | 44 | 0 | | 47.6 | 23.6 | 3.0 | 47.8 |
| Apr 12 | 0 | | | 0 | | | | 114 | 41 | 0 | | 49.2 | 26.6 | 3.0 | 48.1 |
| Apr 13 | 2 | | | 0 | | | | 136 | 65 | 0 | | 49.9 | 26.8 | 3.0 | 48.5 |
| Apr 14 | 0 | | | 2 | | | | 77 | 27 | 0 | | 47.5 | 23.2 | 3.0 | 49.0 |
| Apr 15 | 0 | | | 0 | | | | 31 | 14 | 0 | | 44.3 | 29.6 | 3.0 | 49.2 |
| Apr 16 | 0 | | | 0 | | | | 49 | 18 | 0 | | 49.2 | 29.6 | 3.0 | 49.1 |
| Apr 17 | 1 | | | 0 | | | | 58 | 26 | 0 | | 51.1 | 28.2 | 3.0 | 49.3 |
| Apr 18 | 6 | | | 0 | | | | 27 | 16 | 0 | | 40.9 | 24.2 | 3.0 | 49.8 |
| Apr 19 | 5 | | | 0 | | | | 24 | 10 | 0 | | 48.2 | 25.5 | 3.0 | 50.5 |
| Apr 20 | 6 | | | 0 | | | | 33 | 15 | 0 | | 44.0 | 25.1 | 3.0 | 51.2 |
| Apr 21 | 24 | | | 2 | | | | 26 | 10 | 0 | | 49.9 | 23.4 | 3.0 | 51.1 |
| Apr 22 | 22 | | | 1 | | | | 14 | 8 | 0 | | 39.3 | 23.4 | 3.0 | 50.8 |
| Apr 23 | 22 | | | 0 | | | | 10 | 5 | 1 | | 41.7 | 23.4 | 4.0 | 50.9 |
| Apr 24 | 40 | | | 0 | | | | 34 | 17 | 0 | | 47.2 | 23.4 | 4.0 | 50.8 |
| Apr 25 | 36 | | | 0 | | | | 14 | 4 | 0 | | 44.8 | 21.8 | 4.0 | 51.2 |
| Apr 26 | 210 | | | 1 | | | | 17 | 11 | 0 | | 51.0 | 21.4 | 4.0 | 51.1 |
| Apr 27 | 377 | | | 4 | | | | 20 | 9 | 0 | | 54.7 | 20.3 | 4.0 | 51.1 |
| Apr 28 | 495 | | | 8 | | | | 21 | 10 | 0 | | 53.4 | 18.7 | 4.0 | 51.2 |
| Apr 29 | 398 | | | 5 | | | | 15 | 10 | 0 | | 60.6 | 18.7 | 4.0 | 51.5 |
| Apr 30 | 469 | | | 7 | | | | 17 | 6 | 0 | | 71.3 | 17.2 | 4.0 | 51.6 |
| TOTAL | 2,113 | | | 30 | | | | 2,174 | 748 | 1 | | | | | |
| AVG. | 70 | | | 1 | | | | 72 | 25 | 0 | | 46.9 | 22.0 | 3.4 | 49.2 |

**Note: Official Spring Chinook run started April 1.**

TABLE 95

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER MONUMENTAL PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 526 | | | 4 | | | | 20 | 15 | | 0 | 85.7 | 15.2 | 3.5 | 51.6 |
| May 2 | 566 | | | 21 | | | | 9 | 6 | | 0 | 83.7 | 17.5 | 3.5 | 51.9 |
| May 3 | 751 | | | 43 | | | | 11 | 11 | | 0 | 92.1 | 16.0 | 3.5 | 52.3 |
| May 4 | 1,056 | | | 51 | | | | 14 | 9 | | 0 | 86.4 | 21.4 | 3.5 | 52.3 |
| May 5 | 1,117 | | | 71 | | | | 8 | 6 | | 0 | 81.3 | 21.4 | 3.5 | 52.6 |
| May 6 | 1,230 | | | 82 | | | | 6 | 3 | | 0 | 69.3 | 21.4 | 3.5 | 53.1 |
| May 7 | 967 | | | 95 | | | | 8 | 2 | | 0 | 65.9 | 22.8 | 3.5 | 53.4 |
| May 8 | 1,231 | | | 149 | | | | 10 | 2 | | 0 | 63.7 | 23.2 | 3.5 | 53.7 |
| May 9 | 931 | | | 140 | | | | 2 | 1 | | 0 | 66.2 | 20.2 | 3.5 | 53.8 |
| May 10 | 844 | | | 181 | | | | 4 | 2 | | 2 | 77.9 | 18.6 | 4.0 | 53.6 |
| May 11 | 825 | | | 261 | | | | 3 | 0 | | 0 | 92.4 | 18.6 | 4.0 | 53.1 |
| May 12 | 672 | | | 216 | | | | 1 | 1 | | 0 | 94.6 | 17.1 | 4.0 | 52.8 |
| May 13 | 644 | | | 237 | | | | 5 | 1 | | 0 | 95.3 | 14.7 | 4.0 | 52.8 |
| May 14 | 731 | | | 283 | | | | 2 | 2 | | 0 | 98.4 | 16.1 | 4.0 | 52.6 |
| May 15 | 1,001 | | | 499 | | | | 3 | 1 | | 1 | 93.7 | 20.3 | 4.0 | 54.0 |
| May 16 | 1,042 | | | 367 | | | | 5 | 5 | | 0 | 87.7 | 21.6 | 4.0 | 55.6 |
| May 17 | 995 | | | 342 | | | | 2 | 1 | | 0 | 80.7 | 21.4 | 4.0 | 56.1 |
| May 18 | 678 | | | 429 | | | | 5 | 5 | | 0 | 92.6 | 22.1 | 4.0 | 55.9 |
| May 19 | 454 | | | 300 | | | | 1 | 0 | | 0 | 87.9 | 21.7 | 4.0 | 55.9 |
| May 20 | 426 | | | 334 | | | | 2 | 1 | | 0 | 85.8 | 23.3 | 4.0 | 55.6 |
| May 21 | 424 | | | 185 | | | | 0 | 0 | | 0 | 85.9 | 22.7 | 4.0 | 55.1 |
| May 22 | 383 | | | 336 | | | | 1 | 1 | | 0 | 83.7 | 22.5 | 4.0 | 55.1 |
| May 23 | 412 | | | 268 | | | | 0 | 0 | | 0 | 72.8 | 23.1 | 4.0 | 55.5 |
| May 24 | 410 | | | 280 | | | | 1 | 0 | | 2 | 69.5 | 22.8 | 3.2 | 56.1 |
| May 25 | 594 | | | 131 | | | | 2 | 1 | | 0 | 72.0 | 22.6 | 3.2 | 56.8 |
| May 26 | 551 | | | 114 | | | | 1 | 0 | | 0 | 64.4 | 22.7 | 3.2 | 56.9 |
| May 27 | 351 | | | 101 | | | | 3 | 1 | | 0 | 53.3 | 21.6 | 3.2 | 57.0 |
| May 28 | 621 | | | 100 | | | | 1 | 1 | | 0 | 57.7 | 20.9 | 3.5 | 57.1 |
| May 29 | 406 | | | 91 | | | | 1 | 0 | | 0 | 61.6 | 21.5 | 4.0 | 56.6 |
| May 30 | 263 | | | 82 | | | | 5 | 0 | | 0 | 56.8 | 21.2 | 4.0 | 55.7 |
| May 31 | 287 | | | 95 | | | | 7 | 1 | | 0 | 56.0 | 23.0 | 4.0 | 55.5 |
| TOTAL | 21,389 | | | 5,888 | | | | 143 | 79 | | 5 | | | | |
| AVG. | 690 | | | 190 | | | | 5 | 3 | | 0 | 77.9 | 20.6 | 3.7 | 54.5 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,502 | 5,918 |

| STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|
| 2,317 | 827 | 1 | 5 |

TABLE 96

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER MONUMENTAL PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 258 | | | 119 | | | 0 | 6 | 2 | 0 | 0 | 50.6 | 22.4 | 4.5 | 55.8 |
| Jun 2 | 288 | | | 107 | | | 0 | 2 | 1 | 0 | 0 | 53.8 | 22.5 | 4.5 | 56.3 |
| Jun 3 | 256 | | | 102 | | | 0 | 13 | 6 | 0 | 0 | 52.6 | 22.0 | 4.5 | 57.3 |
| Jun 4 | 252 | | | 118 | | | 0 | 10 | 7 | 0 | 0 | 55.1 | 22.5 | 4.5 | 57.8 |
| Jun 5 | 341 | | | 83 | | | 0 | 10 | 2 | 0 | 0 | 54.4 | 21.8 | 4.5 | 58.8 |
| Jun 6 | 403 | | | 57 | | | 0 | 9 | 1 | 0 | 0 | 53.0 | 22.5 | 4.5 | 59.0 |
| Jun 7 | 549 | | | 88 | | | 0 | 21 | 3 | 0 | 1 | 58.1 | 22.2 | 4.5 | 58.0 |
| Jun 8 | 420 | | | 97 | | | 0 | 10 | 1 | 0 | 0 | 51.4 | 23.2 | 4.0 | 57.9 |
| Jun 9 | 259 | | | 29 | | | 0 | 11 | 1 | 0 | 0 | 51.2 | 22.6 | 4.0 | 58.7 |
| Jun 10 | 292 | | | 66 | | | 0 | 12 | 1 | 0 | 0 | 51.7 | 23.2 | 4.5 | 59.8 |
| Jun 11 | 502 | | | 86 | | | 0 | 16 | 0 | 0 | 0 | 51.1 | 22.2 | 4.5 | 60.4 |
| Jun 12 | 553 | | | 95 | | | 0 | 5 | 0 | 0 | 0 | 63.8 | 23.2 | 4.5 | 60.7 |
| Jun 13 | 178 | | | 46 | | | 0 | 13 | 0 | 0 | 0 | 55.4 | 22.5 | 4.0 | 61.2 |
| Jun 14 | | 418 | | 109 | | | 0 | 16 | 1 | 0 | 1 | 52.3 | 24.0 | 4.0 | 61.5 |
| Jun 15 | | 366 | | 70 | | | 0 | 7 | 0 | 1 | 2 | 47.7 | 22.6 | 4.5 | 61.3 |
| Jun 16 | | 367 | | 65 | | | 1 | 17 | 2 | 0 | 0 | 42.5 | 22.9 | 4.5 | 60.2 |
| Jun 17 | | 404 | | 63 | | | 0 | 29 | 0 | 0 | 0 | 45.2 | 22.0 | 4.5 | 60.5 |
| Jun 18 | | 354 | | 45 | | | 1 | 48 | 9 | 1 | 1 | 39.4 | 23.1 | 4.5 | 60.4 |
| Jun 19 | | 418 | | 52 | | | 0 | 15 | 1 | 0 | 1 | 35.0 | 22.3 | 4.5 | 59.8 |
| Jun 20 | | 437 | | 54 | | | 0 | 22 | 2 | 0 | 0 | 43.1 | 23.0 | 4.5 | 59.8 |
| Jun 21 | | 356 | | 53 | | | 1 | 38 | 5 | 0 | 0 | 33.4 | 16.5 | 4.5 | 59.7 |
| Jun 22 | | 644 | | 104 | | | 0 | 56 | 2 | 0 | 0 | 44.8 | 17.1 | 4.5 | 60.2 |
| Jun 23 | | 340 | | 70 | | | 0 | 47 | 4 | 0 | 1 | 38.0 | 16.6 | 4.5 | 61.6 |
| Jun 24 | | 264 | | 65 | | | 1 | 43 | 4 | 0 | 0 | 33.9 | 17.1 | 4.5 | 61.4 |
| Jun 25 | | 363 | | 60 | | | 0 | 54 | 0 | 0 | 0 | 34.4 | 16.3 | 4.3 | 61.8 |
| Jun 26 | | 406 | | 27 | | | 2 | 73 | 7 | 0 | 0 | 28.8 | 15.9 | 4.5 | 62.2 |
| Jun 27 | | 335 | | 18 | | | 1 | 76 | 6 | 0 | 0 | 29.7 | 16.6 | 4.5 | 62.6 |
| Jun 28 | | 356 | | 11 | | | 2 | 64 | 10 | 0 | 0 | 32.9 | 17.1 | 4.5 | 62.5 |
| Jun 29 | | 398 | | 26 | | | 1 | 89 | 6 | 0 | 0 | 35.8 | 16.6 | 4.5 | 63.0 |
| Jun 30 | | 435 | | 24 | | | 0 | 82 | 11 | 0 | 0 | 33.6 | 17.1 | 4.5 | 64.3 |
| TOTAL | 4,551 | 6,661 | | 2,009 | | | 10 | 914 | 95 | 2 | 7 | | | | |
| AVG. | 350 | 392 | | 67 | | | 0 | 30 | 3 | 0 | 0 | 45.1 | 20.7 | 4.4 | 60.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,053 | 7,011 |
| SUMMER | 6,661 | 916 |
| TOTAL | 34,714 | 7,927 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 10 | 3,231 | 922 | 3 | 12 |

TABLE 97

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT

JULY 2007

FISH COUNTS

RIVER CONDITIONS

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jul 1 | | 246 | | 33 | | | 5 | 66 | 6 | 1 | 0 | 33.7 | 16.9 | 4.5 | 64.7 |
| Jul 2 | | 165 | | 15 | | | 1 | 78 | 6 | 0 | 0 | 29.6 | 17.1 | 4.5 | 64.3 |
| Jul 3 | | 198 | | 40 | | | 2 | 101 | 9 | 0 | 1 | 33.5 | 17.0 | 4.5 | 65.0 |
| Jul 4 | | 240 | | 18 | | | 0 | 86 | 12 | 0 | 1 | 31.5 | 17.1 | 4.5 | 66.1 |
| Jul 5 | | 177 | | 40 | | | 1 | 63 | 4 | 0 | 0 | 32.6 | 16.8 | 4.5 | 66.3 |
| Jul 6 | | 335 | | 66 | | | 2 | 175 | 18 | 0 | 0 | 34.4 | 17.1 | 4.5 | 66.3 |
| Jul 7 | | 272 | | 28 | | | 2 | 147 | 15 | 0 | 0 | 33.8 | 16.4 | 4.5 | 66.6 |
| Jul 8 | | 247 | | 22 | | | 7 | 164 | 28 | 0 | 0 | 39.3 | 17.2 | 4.5 | 67.3 |
| Jul 9 | | 209 | | 23 | | | 2 | 176 | 37 | 0 | 0 | 37.5 | 16.8 | 4.5 | 67.9 |
| Jul 10 | | 144 | | 8 | | | 1 | 164 | 41 | 0 | 1 | 37.0 | 17.1 | 4.5 | 68.2 |
| Jul 11 | | 179 | | 9 | | | 1 | 149 | 42 | 0 | 1 | 33.4 | 16.8 | 4.5 | 69.0 |
| Jul 12 | | 220 | | 12 | | | 3 | 193 | 41 | 0 | 3 | 34.6 | 17.1 | 4.5 | 69.7 |
| Jul 13 | | 233 | | 25 | | | 0 | 274 | 49 | 0 | 0 | 32.8 | 16.5 | 4.5 | 69.7 |
| Jul 14 | | 188 | | 23 | | | 0 | 330 | 70 | 0 | 1 | 32.4 | 17.1 | 4.5 | 69.7 |
| Jul 15 | | 152 | | 25 | | | 1 | 306 | 50 | 0 | 1 | 34.4 | 16.5 | 4.5 | 69.4 |
| Jul 16 | | 192 | | 16 | | | 2 | 338 | 48 | 0 | 1 | 33.2 | 17.1 | 4.5 | 69.6 |
| Jul 17 | | 78 | | 13 | | | 1 | 239 | 46 | 0 | 2 | 29.1 | 16.8 | 4.5 | 69.6 |
| Jul 18 | | 89 | | 13 | | | 0 | 243 | 65 | 0 | 1 | 29.8 | 17.1 | 4.5 | 69.2 |
| Jul 19 | | 120 | | 30 | | | 0 | 280 | 43 | 0 | 0 | 27.4 | 15.1 | 4.5 | 69.2 |
| Jul 20 | | 91 | | 6 | | | 0 | 194 | 42 | 0 | 1 | 29.8 | 16.1 | 4.5 | 70.1 |
| Jul 21 | | 188 | | 6 | | | 0 | 304 | 63 | 0 | 1 | 30.3 | 15.0 | 4.5 | 69.5 |
| Jul 22 | | 112 | | 2 | | | 0 | 127 | 14 | 0 | 2 | 25.2 | 12.9 | 4.5 | 69.3 |
| Jul 23 | | 109 | | 3 | | | 0 | 164 | 25 | 0 | 6 | 25.1 | 12.8 | 4.5 | 69.2 |
| Jul 24 | | 95 | | 10 | | | 0 | 151 | 30 | 0 | 1 | 27.7 | 15.5 | 4.5 | 69.2 |
| Jul 25 | | 66 | | 12 | | | 0 | 94 | 29 | 0 | 1 | 25.3 | 13.2 | 4.5 | 70.5 |
| Jul 26 | | 63 | | 2 | | | 0 | 120 | 27 | 0 | 0 | 24.4 | 11.8 | 4.5 | 70.3 |
| Jul 27 | | 84 | | 7 | | | 0 | 226 | 44 | 0 | 0 | 29.4 | 13.6 | 4.5 | 69.5 |
| Jul 28 | | 65 | | 11 | | | 0 | 141 | 22 | 0 | 4 | 28.3 | 14.7 | 4.5 | 69.6 |
| Jul 29 | | 48 | | 8 | | | 0 | 170 | 34 | 0 | 3 | 25.8 | 13.6 | 4.5 | 69.8 |
| Jul 30 | | 56 | | 5 | | | 1 | 254 | 75 | 0 | 3 | 29.4 | 16.9 | 4.5 | 70.0 |
| Jul 31 | | 40 | | 6 | | | 0 | 218 | 50 | 0 | 0 | 25.5 | 13.3 | 4.5 | 70.3 |
| TOTAL | | 4,701 | | 537 | | | 32 | 5,735 | 1,085 | 1 | 35 | | | | |
| AVG. | | 152 | | 17 | | | 1 | 185 | 35 | 0 | 1 | 30.8 | 15.8 | 4.5 | 68.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,053 | 7,011 |
| SUMMER | 11,362 | 1,453 |
| TOTAL | 39,415 | 8,464 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 42 | 8,966 | 2,007 | 4 | 47 |

Note: Bull trout siting on July 1 occurred during break.

TABLE 98

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER MONUMENTAL PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 34 | | 1 | 0 | | 0 | 174 | 42 | | 2 | 28.5 | 18.9 | 4.5 | 69.9 |
| Aug 2 | | 36 | | 2 | 0 | | 0 | 187 | 58 | | 1 | 29.8 | 16.6 | 4.5 | 69.7 |
| Aug 3 | | 35 | | 15 | 0 | | 0 | 393 | 97 | | 2 | 24.4 | 12.2 | 4.5 | 69.6 |
| Aug 4 | | 55 | | 11 | 0 | | 0 | 273 | 50 | | 5 | 25.4 | 13.1 | 4.5 | 70.1 |
| Aug 5 | | 38 | | 7 | 0 | | 0 | 187 | 37 | | 1 | 25.2 | 13.0 | 4.5 | 70.8 |
| Aug 6 | | 25 | | 7 | 0 | | 1 | 218 | 40 | | 3 | 24.4 | 11.9 | 4.5 | 70.0 |
| Aug 7 | | 29 | | 5 | 0 | | 0 | 188 | 42 | | 2 | 24.0 | 11.8 | 4.5 | 69.4 |
| Aug 8 | | 45 | | 4 | 0 | | 0 | 207 | 34 | | 0 | 23.7 | 11.4 | 4.5 | 70.2 |
| Aug 9 | | 51 | | 3 | 0 | | 0 | 237 | 63 | | 1 | 26.5 | 14.3 | 4.5 | 70.8 |
| Aug 10 | | 35 | | 1 | 0 | | 0 | 339 | 79 | | 4 | 26.4 | 14.2 | 4.5 | 70.3 |
| Aug 11 | | 39 | | 1 | 0 | | 0 | 250 | 63 | | 1 | 26.4 | 14.2 | 4.5 | 70.4 |
| Aug 12 | | 22 | | 6 | 0 | | 0 | 245 | 47 | | 1 | 23.4 | 11.3 | 4.5 | 69.6 |
| Aug 13 | | 30 | | 10 | 0 | | 0 | 207 | 45 | | 0 | 25.4 | 13.2 | 4.5 | 69.6 |
| Aug 14 | | | 34 | 2 | 0 | | 0 | 266 | 57 | | 9 | 23.5 | 10.5 | 4.5 | 70.1 |
| Aug 15 | | | 23 | 0 | 0 | | 0 | 121 | 28 | | 0 | 22.3 | 10.1 | 4.5 | 69.8 |
| Aug 16 | | | 41 | 9 | 0 | | 0 | 371 | 58 | | 1 | 24.3 | 12.2 | 4.5 | 69.2 |
| Aug 17 | | | 34 | 6 | 0 | | 1 | 358 | 86 | | 2 | 21.9 | 9.7 | 4.5 | 69.0 |
| Aug 18 | | | 34 | 4 | 0 | | -1 | 294 | 54 | | 3 | 21.8 | 9.8 | 4.5 | 69.2 |
| Aug 19 | | | 9 | 0 | 0 | | 0 | 81 | 14 | | 7 | 18.8 | 6.6 | 4.5 | 68.9 |
| Aug 20 | | | 14 | 4 | 0 | | 0 | 102 | 24 | | 3 | 21.9 | 8.7 | 4.5 | 68.3 |
| Aug 21 | | | 92 | 7 | 0 | | 0 | 266 | 56 | | 1 | 24.0 | 11.8 | 4.5 | 68.5 |
| Aug 22 | | | 55 | 11 | 0 | | 0 | 237 | 66 | | 4 | 21.8 | 9.5 | 4.5 | 68.4 |
| Aug 23 | | | 81 | 11 | 1 | | 0 | 353 | 108 | | 4 | 17.1 | 5.0 | 4.5 | 67.5 |
| Aug 24 | | | 88 | 7 | 0 | | 0 | 293 | 68 | | 2 | 23.5 | 11.5 | 4.5 | 67.8 |
| Aug 25 | | | 100 | 10 | 0 | | 0 | 434 | 85 | | 1 | 20.8 | 8.8 | 4.5 | 67.8 |
| Aug 26 | | | 84 | 12 | 0 | | 0 | 433 | 65 | | 0 | 22.0 | 9.9 | 4.0 | 67.7 |
| Aug 27 | | | 61 | 12 | 0 | | 0 | 304 | 69 | | 4 | 22.2 | 10.2 | 4.0 | 68.0 |
| Aug 28 | | | 51 | 14 | 0 | | 0 | 464 | 94 | | 5 | 22.4 | 10.3 | 4.0 | 68.3 |
| Aug 29 | | | 62 | 7 | 1 | | 0 | 363 | 88 | | 0 | 20.5 | 8.4 | 4.0 | 68.0 |
| Aug 30 | | | 60 | 10 | 0 | | 0 | 310 | 79 | | 2 | 18.8 | 6.6 | 4.0 | 67.3 |
| Aug 31 | | | 189 | 19 | 6 | | 0 | 502 | 123 | | 1 | 20.4 | 8.3 | 4.0 | 67.2 |
| TOTAL | | 474 | 1,112 | 218 | 8 | | 1 | 8,657 | 1,919 | | 72 | | | | |
| AVG. | | 36 | 62 | 7 | 0 | | 0 | 279 | 62 | | 2 | 23.3 | 11.1 | 4.4 | 69.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|---|---|
| SPRING | 28,053 | 7,011 | 8 | 43 | 17,623 | 3,926 | 4 | 119 |
| SUMMER | 11,836 | 1,526 | | | | | | |
| FALL | 1,112 | 145 | | | | | | |
| TOTAL | 41,001 | 8,682 | | | | | | |

TABLE 99

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT

SEPTEMBER 2007

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 88 | 22 | 6 | 0 | | 1,114 | 247 | | 2 | 16.4 | 0.1 | 4.0 | 67.6 |
| Sep 2 | | | 177 | 21 | 1 | 0 | | 533 | 128 | | 1 | 20.9 | 0.0 | 5.0 | 68.0 |
| Sep 3 | | | 120 | 19 | 1 | 0 | | 655 | 138 | | 0 | 21.0 | 0.0 | 5.0 | 67.9 |
| Sep 4 | | | 174 | 28 | 1 | 0 | | 820 | 144 | | 1 | 19.3 | 0.0 | 5.0 | 67.6 |
| Sep 5 | | | 340 | 60 | 6 | 0 | | 1,203 | 225 | | 1 | 18.3 | 0.0 | 5.0 | 67.1 |
| Sep 6 | | | 420 | 113 | 0 | 0 | | 1,175 | 240 | | 0 | 20.8 | 0.0 | 5.0 | 67.4 |
| Sep 7 | | | 451 | 166 | 0 | 0 | | 1,516 | 325 | | 0 | 15.0 | 0.0 | 5.0 | 67.7 |
| Sep 8 | | | 439 | 150 | 1 | 0 | | 1,627 | 383 | | 1 | 25.8 | 0.5 | 5.0 | 67.6 |
| Sep 9 | | | 365 | 104 | 1 | 1 | | 1,575 | 365 | | 1 | 14.4 | 0.0 | 5.0 | 68.1 |
| Sep 10 | | | 235 | 90 | 0 | 1 | | 1,559 | 359 | | 1 | 22.3 | 0.0 | 5.0 | 67.9 |
| Sep 11 | | | 211 | 126 | 3 | 0 | | 1,359 | 288 | | 0 | 23.7 | 0.9 | 5.0 | 67.3 |
| Sep 12 | | | 416 | 129 | 8 | 0 | | 1,282 | 260 | | 1 | 24.8 | 0.0 | 5.0 | 66.5 |
| Sep 13 | | | 333 | 150 | 0 | 1 | | 1,159 | 252 | | 2 | 17.3 | 0.0 | 5.0 | 67.0 |
| Sep 14 | | | 317 | 220 | 0 | 1 | | 1,189 | 251 | | 1 | 17.2 | 0.0 | 5.0 | 66.9 |
| Sep 15 | | | 620 | 273 | 7 | 2 | | 1,451 | 285 | | 0 | 18.5 | 0.0 | 5.0 | 66.4 |
| Sep 16 | | | 775 | 376 | 15 | 1 | | 3,765 | 771 | | 0 | 17.6 | 0.0 | 5.0 | 66.2 |
| Sep 17 | | | 687 | 262 | 24 | 2 | | 5,266 | 985 | | 0 | 17.4 | 0.0 | 5.0 | 66.2 |
| Sep 18 | | | 411 | 256 | 14 | 3 | | 3,527 | 777 | | 2 | 16.4 | 0.0 | 5.0 | 66.1 |
| Sep 19 | | | 673 | 300 | 13 | 1 | | 4,055 | 878 | | -1 | 16.0 | 0.0 | 5.0 | 65.9 |
| Sep 20 | | | 472 | 434 | 16 | 2 | | 4,958 | 1,107 | | 0 | 16.8 | 0.0 | 5.0 | 65.8 |
| Sep 21 | | | 444 | 184 | 22 | 2 | | 3,649 | 735 | | 0 | 15.4 | 0.0 | 5.0 | 65.4 |
| Sep 22 | | | 363 | 159 | 27 | 1 | | 2,578 | 598 | | 1 | 15.1 | 0.0 | 5.0 | 65.2 |
| Sep 23 | | | 244 | 218 | 48 | 2 | | 3,570 | 780 | | 1 | 15.6 | 0.0 | 5.0 | 64.8 |
| Sep 24 | | | 277 | 132 | 35 | 2 | | 2,777 | 532 | | 0 | 20.6 | 0.0 | 5.0 | 64.5 |
| Sep 25 | | | 300 | 114 | 29 | 1 | | 3,458 | 730 | | 0 | 18.9 | 0.0 | 5.0 | 64.2 |
| Sep 26 | | | 462 | 194 | 52 | 3 | | 4,853 | 936 | | 0 | 16.0 | 0.0 | 5.0 | 64.0 |
| Sep 27 | | | 334 | 133 | 34 | 0 | | 4,111 | 836 | | 0 | 14.0 | 0.0 | 4.5 | 64.0 |
| Sep 28 | | | 647 | 399 | 42 | 9 | | 4,369 | 893 | | 0 | 13.1 | 0.0 | 4.5 | 64.0 |
| Sep 29 | | | 594 | 490 | 48 | 8 | | 3,971 | 863 | | 0 | 13.5 | 0.0 | 4.0 | 63.0 |
| Sep 30 | | | 405 | 291 | 54 | 7 | | 4,488 | 1,013 | | 0 | 17.6 | 0.0 | 4.0 | 63.0 |
| TOTAL | | | 11,794 | 5,613 | 508 | 50 | | 77,612 | 16,324 | | 15 | | | | |
| AVG. | | | 393 | 187 | 17 | 2 | | 2,587 | 544 | | 1 | 18.0 | 0.1 | 4.9 | 66.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,053 | 7,011 |
| SUMMER | 11,836 | 1,526 |
| FALL | 12,906 | 5,758 |
| TOTAL | 52,795 | 14,295 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 516 | 50 | 43 | 95,235 | 20,250 | 4 | 134 |

TABLE 100

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT

OCTOBER 2007

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | * DEG F |
| Oct 1 | | | 341 | 330 | 45 | 5 | 0 | 3,478 | 784 | | 2 | 17.9 | 0.0 | 4.0 | 63.0 |
| Oct 2 | | | 547 | 462 | 69 | 9 | 0 | 5,112 | 1,101 | | 1 | 20.8 | 1.4 | 4.0 | 62.0 |
| Oct 3 | | | 322 | 226 | 59 | 2 | 0 | 4,321 | 931 | | 0 | 19.2 | 0.0 | 4.0 | 62.0 |
| Oct 4 | | | 239 | 153 | 43 | 4 | 0 | 2,566 | 571 | | 0 | 19.2 | 3.5 | 4.0 | 62.0 |
| Oct 5 | | | 178 | 175 | 70 | 5 | 0 | 3,461 | 732 | | 0 | 16.0 | 0.0 | 4.0 | 62.0 |
| Oct 6 | | | 244 | 198 | 70 | 4 | 0 | 3,515 | 775 | | 1 | 20.3 | 0.0 | 4.0 | 62.0 |
| Oct 7 | | | 160 | 164 | 81 | 4 | 0 | 3,791 | 815 | | 0 | 18.5 | 0.0 | 4.0 | 61.0 |
| Oct 8 | | | 131 | 119 | 102 | 4 | 0 | 2,800 | 571 | | 0 | 19.1 | 0.0 | 4.0 | 61.0 |
| Oct 9 | | | 112 | 109 | 63 | 1 | 0 | 2,044 | 416 | | 0 | 21.9 | 0.0 | 4.0 | 61.0 |
| Oct 10 | | | 61 | 103 | 110 | 4 | 0 | 2,102 | 452 | | 0 | 22.1 | 0.0 | 4.0 | 60.0 |
| Oct 11 | | | 68 | 89 | 107 | 3 | 1 | 2,613 | 506 | | 1 | 25.8 | 0.0 | 4.0 | 60.0 |
| Oct 12 | | | 72 | 82 | 137 | 8 | 0 | 3,033 | 650 | | 0 | 16.5 | 0.0 | 4.0 | 60.0 |
| Oct 13 | | | 38 | 38 | 67 | 7 | 0 | 1,525 | 335 | | -1 | 20.1 | 0.0 | 4.0 | 60.0 |
| Oct 14 | | | 52 | 73 | 66 | 6 | 0 | 1,441 | 316 | | 0 | 18.2 | 0.0 | 4.0 | 60.0 |
| Oct 15 | | | 64 | 41 | 44 | 1 | 0 | 876 | 217 | | 0 | 18.0 | 0.0 | 4.0 | 60.0 |
| Oct 16 | | | 47 | 27 | 65 | 7 | 0 | 1,409 | 289 | | 0 | 14.7 | 0.0 | 4.0 | 60.0 |
| Oct 17 | | | 62 | 57 | 26 | 0 | 0 | 1,069 | 259 | | 0 | 18.9 | 0.0 | 4.0 | 60.0 |
| Oct 18 | | | 58 | 68 | 39 | 0 | 0 | 1,308 | 262 | | 0 | 19.8 | 0.0 | 4.0 | 58.0 |
| Oct 19 | | | 75 | 101 | 33 | 2 | 0 | 1,989 | 438 | | 0 | 13.1 | 0.0 | 4.0 | 58.0 |
| Oct 20 | | | 52 | 114 | 30 | 5 | 0 | 1,532 | 379 | | 0 | 15.6 | 0.0 | 4.0 | 58.0 |
| Oct 21 | | | 37 | 60 | 16 | 2 | 0 | 967 | 252 | | 0 | 21.0 | 0.0 | 4.0 | 57.0 |
| Oct 22 | | | 23 | 34 | 16 | 1 | 0 | 847 | 217 | | 0 | 24.8 | 0.0 | 4.0 | 57.0 |
| Oct 23 | | | 21 | 43 | 18 | 1 | 0 | 664 | 147 | | 0 | 24.4 | 0.0 | 4.0 | 57.0 |
| Oct 24 | | | 27 | 34 | 16 | 1 | 0 | 459 | 99 | | 0 | 19.5 | 0.0 | 4.0 | 57.0 |
| Oct 25 | | | 28 | 45 | 32 | 2 | 0 | 1,290 | 338 | | 0 | 21.4 | 0.0 | 4.0 | 57.0 |
| Oct 26 | | | 15 | 24 | 25 | -1 | 0 | 835 | 203 | | 0 | 24.1 | 0.0 | 4.0 | 57.0 |
| Oct 27 | | | 20 | 26 | 43 | 0 | 0 | 909 | 223 | | 0 | 16.7 | 0.0 | 4.0 | 57.0 |
| Oct 28 | | | 18 | 28 | 35 | 0 | 0 | 987 | 267 | | 0 | 12.8 | 0.0 | 4.0 | 56.0 |
| Oct 29 | | | 17 | 23 | 23 | 1 | 0 | 688 | 158 | | 0 | 20.3 | 0.0 | 4.0 | 56.0 |
| Oct 30 | | | 16 | 15 | 12 | 1 | 0 | 671 | 152 | | 0 | 19.2 | 0.0 | 4.0 | 56.0 |
| Oct 31 | | | 22 | 15 | 14 | 0 | 0 | 567 | 131 | | 0 | 16.8 | 2.7 | 4.0 | 56.0 |
| TOTAL | | | 3,167 | 3,076 | 1,576 | 89 | 1 | 58,869 | 12,986 | | 4 | | | | |
| AVG. | | | 102 | 99 | 51 | 3 | 0 | 1,899 | 419 | | 0 | 19.2 | 0.2 | 4.0 | 59.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 28,053 | 7,011 |
| SUMMER | 11,836 | 1,526 |
| FALL | 16,073 | 8,834 |
| TOTAL | 55,962 | 17,371 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 2,092 | 139 | 44 | 154,104 | 33,236 | 4 | 138 |

TABLE 101

**DISCHARGE AND WATER QUALITY DATA**

**LOWER MONUMENTAL PROJECT 2007**

**NOVEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Nov 1 | 16.6 | 0.0 | 4.0 | 55.0 |
| Nov 2 | 18.8 | 0.0 | 3.5 | 55.0 |
| Nov 3 | 15.7 | 0.0 | 3.5 | 55.0 |
| Nov 4 | 15.8 | 0.0 | 3.5 | 55.0 |
| Nov 5 | 19.7 | 0.0 | 4.0 | 55.0 |
| Nov 6 | 12.6 | 0.0 | 4.0 | 54.0 |
| Nov 7 | 18.9 | 0.0 | 4.0 | 53.0 |
| Nov 8 | 18.3 | 0.0 | 4.0 | 53.0 |
| Nov 9 | 17.2 | 0.0 | 4.0 | 53.0 |
| Nov 10 | 17.7 | 0.0 | 4.0 | 53.0 |
| Nov 11 | 17.7 | 0.0 | 4.0 | 53.0 |
| Nov 12 | 18.5 | 0.0 | 4.0 | 53.0 |
| Nov 13 | 16.4 | 0.0 | 4.0 | 53.0 |
| Nov 14 | 15.0 | 0.0 | 4.0 | 53.0 |
| Nov 15 | 15.4 | 0.0 | 4.0 | 52.0 |
| Nov 16 | 18.4 | 0.0 | 4.0 | 52.0 |
| Nov 17 | 19.9 | 0.0 | 4.0 | 52.0 |
| Nov 18 | 24.7 | 0.0 | 4.0 | 51.0 |
| Nov 19 | 26.6 | 0.0 | 3.5 | 51.0 |
| Nov 20 | 28.3 | 0.0 | 3.5 | 51.0 |
| Nov 21 | 25.3 | 0.0 | 4.0 | 50.0 |
| Nov 22 | 24.9 | 0.0 | 4.0 | 50.0 |
| Nov 23 | 21.7 | 0.0 | 4.0 | 50.0 |
| Nov 24 | 20.5 | 0.0 | 4.0 | 48.0 |
| Nov 25 | 19.4 | 0.0 | 4.0 | 48.0 |
| Nov 26 | 26.8 | 0.0 | 4.0 | 48.0 |
| Nov 27 | 16.4 | 0.0 | 4.0 | 47.0 |
| Nov 28 | 16.6 | 0.0 | 4.0 | 47.0 |
| Nov 29 | 19.1 | 0.0 | 4.0 | 47.0 |
| Nov 30 | 20.4 | 0.0 | 4.0 | 46.0 |
| AVG. | 19.4 | 0.0 | 3.9 | 51.4 |

**DECEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Dec 1 | 17.4 | 0.0 | 4.0 | 46.0 |
| Dec 2 | 17.0 | 0.0 | 3.0 | 45.0 |
| Dec 3 | 19.4 | 0.0 | 3.0 | 45.0 |
| Dec 4 | 21.3 | 0.0 | 3.0 | 45.0 |
| Dec 5 | 32.2 | 0.0 | 3.0 | 45.0 |
| Dec 6 | 26.7 | 0.0 | 3.0 | 45.0 |
| Dec 7 | 26.3 | 0.0 | 4.0 | 45.0 |
| Dec 8 | 20.6 | 0.0 | 4.0 | 44.0 |
| Dec 9 | 23.8 | 0.0 | 4.0 | 44.0 |
| Dec 10 | 27.9 | 0.0 | 4.0 | 44.0 |
| Dec 11 | 22.2 | 2.3 | 4.0 | 43.0 |
| Dec 12 | 28.3 | 0.0 | 4.0 | 42.0 |
| Dec 13 | 18.9 | 0.0 | 4.0 | 42.0 |
| Dec 14 | 20.7 | 0.0 | 4.0 | 42.0 |
| Dec 15 | 20.1 | 0.0 | 4.0 | 42.0 |
| Dec 16 | 20.7 | 0.0 | 4.0 | 42.0 |
| Dec 17 | 21.8 | 0.0 | 4.0 | 41.0 |
| Dec 18 | 19.0 | 0.0 | 4.0 | 41.0 |
| Dec 19 | 23.2 | 0.0 | 4.0 | 41.0 |
| Dec 20 | 21.6 | 0.0 | 4.0 | 40.0 |
| Dec 21 | 26.0 | 0.0 | 4.0 | 40.0 |
| Dec 22 | 21.5 | 0.0 | 4.0 | 40.0 |
| Dec 23 | 21.0 | 0.0 | 4.0 | 39.0 |
| Dec 24 | 27.4 | 0.0 | 4.0 | 39.0 |
| Dec 25 | 20.5 | 0.0 | 4.0 | 39.0 |
| Dec 26 | 22.0 | 0.0 | 4.0 | 39.0 |
| Dec 27 | 26.9 | 0.0 | 4.0 | 39.0 |
| Dec 28 | 19.7 | 0.0 | 4.0 | 39.0 |
| Dec 29 | 23.1 | 0.0 | 4.0 | 39.0 |
| Dec 30 | 21.5 | 0.0 | 4.0 | 38.0 |
| Dec 31 | 25.0 | 0.0 | 4.0 | 38.0 |
| AVG. | 22.7 | 0.1 | 3.8 | 41.7 |

TABLE 102

**YEARLY TOTALS OF SALMONIDS COUNTED OVER LOWER MONUMENTAL DAM 1969 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS |
|---|---|---|---|---|---|
| 1969 | 86,700 | 71,436 | 1,127 | 6,466 | 165,729 |
| 1970 | 75,310 | 62,167 | 240 | 2,972 | 140,689 |
| 1971 | 68,885 | 70,114 | 808 | 2,171 | 141,978 |
| 1972 | 72,220 | 66,857 | 415 | 733 | 140,225 |
| 1973 | 80,557 | 39,530 | 206 | 1,333 | 121,626 |
| 1974 | 31,728 | 15,139 | 114 | 812 | 47,793 |
| 1975 | 33,013 | 17,363 | 146 | 572 | 51,094 |
| 1976 | 34,395 | 21,822 | 364 | 361 | 56,942 |
| 1977 | 49,301 | 47,749 | 293 | 122 | 97,465 |
| 1978 | 56,835 | 20,540 | 96 | 218 | 77,689 |
| 1979 | 11,288 | 17,794 | 31 | 194 | 29,307 |
| 1980 | 10,885 | 34,322 | 48 | 73 | 45,328 |
| 1981 | 19,991 | 35,923 | 136 | 63 | 56,113 |
| 1982 | 21,965 | 62,772 | 154 | 89 | 84,980 |
| 1983 | 19,082 | 80,562 | 118 | 110 | 99,872 |
| 1984 | 17,866 | 88,655 | 63 | 26 | 106,610 |
| 1985 | 42,437 | 109,718 | 68 | 24 | 152,247 |
| 1986 | 50,584 | 120,479 | 26 | 9 | 171,098 |
| 1987 | 42,434 | 62,586 | 16 | 6 | 105,042 |
| 1988 | 44,262 | 84,746 | 35 | 3 | 129,046 |
| 1989 | 25,590 | 129,618 | 9 | 17 | 155,234 |
| 1990 | 28,215 | 24,238 | 0 | 1 | 52,454 |
| 1991 | 18,210 | 98,315 | 6 | 5 | 116,536 |
| 1992 | 30,145 | 130,429 | 15 | 0 | 160,589 |
| 1993 | 34,195 | 70,992 | 18 | 0 | 105,205 |
| 1994 | 7,219 | 49,917 | 7 | 0 | 57,143 |
| 1995 | 7,883 | 90,157 | 4 | 4 | 98,048 |
| 1996 | 15,606 | 96,609 | 3 | 6 | 112,224 |
| 1997 | 51,556 | 85,602 | 16 | 30 | 137,204 |
| 1998 | 21,537 | 66,118 | 2 | 0 | 87,657 |
| 1999 | 20,271 | 72,842 | 15 | 88 | 93,216 |
| 2000 | 68,961 | 112,616 | 291 | 750 | 182,618 |
| 2001 | 225,667 | 285,745 | 32 | 1,210 | 512,654 |
| 2002 | 124,897 | 232,809 | 46 | 158 | 357,910 |
| 2003 | 122,817 | 172,596 | 14 | 999 | 296,426 |
| 2004 | 114,030 | 158,792 | 80 | 3,665 | 276,567 |
| 2005 | 52,281 | 153,792 | 18 | 2,095 | 208,186 |
| 2006 | 54,482 | 135,566 | 17 | 1,181 | 191,246 |
| 2007 | 73,333 | 154,104 | 44 | 2,231 | 229,712 |
| Total | 1,966,633 | 3,451,131 | 5,141 | 28,797 | 5,451,702 |
| 10-Year Average | 87,828 | 154,498 | 56 | 1,238 | 243,619 |

***Jacks included**

**Includes 2001 extended season counts for November and December 0600-1600 PST.**
**Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.**
**Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.**

TABLE 103

**MONTHLY COUNT OF CHINOOK SALMON**
**LOWER MONUMENTAL DAM**
**1969-2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | | | 1 | 67 | 38,702 | 25,289 | 13,832 | 1,776 | 5,069 | 1,619 | 340 | 5 | 86,700 |
| 1970 | 1 | | 1 | 9,194 | 32,623 | 15,818 | 9,369 | 1,720 | 5,178 | 1,281 | 122 | 3 | 75,310 |
| 1971 | | | | 358 | 19,340 | 23,842 | 14,492 | 857 | 8,599 | 1,397 | | | 68,885 |
| 1972 | | | | 6,838 | 36,448 | 6,989 | 15,501 | 1,835 | 3,737 | 872 | | | 72,220 |
| 1973 | | | | 27,168 | 31,973 | 11,282 | 4,343 | 678 | 4,273 | 840 | | | 80,557 |
| 1974 | | | | 327 | 15,796 | 4,904 | 7,241 | 602 | 1,972 | 886 | | | 31,728 |
| 1975 | | | | 704 | 17,421 | 6,648 | 4,884 | 548 | 2,428 | 380 | | | 33,013 |
| 1976 | | | | 1,995 | 19,292 | 7,731 | 3,172 | 175 | 1,609 | 421 | | | 34,395 |
| 1977 | | | | 19,125 | 17,093 | 7,884 | 3,092 | 300 | 1,321 | 486 | | | 49,301 |
| 1978 | | | | 12,324 | 30,067 | 8,941 | 3,853 | 831 | 536 | 283 | | | 56,835 |
| 1979 | | | | 1,332 | 5,637 | 2,010 | 922 | 211 | 916 | 260 | | | 11,288 |
| 1980 | | | | 1,008 | 5,198 | 2,318 | 1,315 | 319 | 405 | 322 | | | 10,885 |
| 1981 | | | | 4,039 | 9,012 | 3,349 | 1,924 | 97 | 1,100 | 470 | | | 19,991 |
| 1982 | | | | 372 | 11,319 | 5,031 | 2,773 | 264 | 1,631 | 575 | | | 21,965 |
| 1983 | | | | 1,250 | 10,262 | 3,841 | 2,103 | 220 | 1,008 | 398 | | | 19,082 |
| 1984 | | | | 513 | 7,186 | 6,297 | 2,549 | 205 | 789 | 327 | | | 17,866 |
| 1985 | | | | 7,360 | 20,572 | 7,303 | 1,279 | 402 | 2,451 | 3,070 | | | 42,437 |
| 1986 | | | | 10,893 | 25,454 | 7,436 | 1,821 | 123 | 2,786 | 2,071 | | | 50,584 |
| 1987 | | | | 8,706 | 21,166 | 5,492 | 2,400 | 278 | 2,625 | 1,767 | | | 42,434 |
| 1988 | | | | 11,451 | 19,823 | 7,851 | 1,832 | 607 | 1,752 | 946 | | | 44,262 |
| 1989 | | | | 159 | 14,924 | 4,858 | 1,615 | 476 | 1,852 | 706 | | | 24,590 |
| 1990 | | | | 6,830 | 12,127 | 5,197 | 1,594 | 181 | 1,205 | 1,081 | | | 28,215 |
| 1991 | | | | 925 | 6,537 | 5,491 | 1,936 | 127 | 2,177 | 1,017 | | | 18,210 |
| 1992 | | | | 10,529 | 10,822 | 5,001 | 1,220 | 188 | 1,729 | 656 | | | 30,145 |
| 1993 | | | | 3,848 | 16,154 | 9,720 | 2,016 | 313 | 1,591 | 509 | 44 | | 34,195 |
| 1994 | | | | 574 | 2,448 | 1,287 | 322 | 156 | 1,308 | 1,124 | | | 7,219 |
| 1995 | | | | 210 | 1,435 | 1,092 | 471 | 280 | 2,183 | 2,212 | | | 7,883 |
| 1996 | | | | 62 | 5,836 | 4,442 | 1,407 | 395 | 2,547 | 917 | | | 15,606 |
| 1997 | | | | 1,493 | 26,966 | 16,833 | 2,484 | 309 | 2,174 | 1,297 | | | 51,556 |
| 1998 | | | | 2,325 | 6,626 | 5,095 | 1,222 | 272 | 3,418 | 2,579 | | | 21,537 |
| 1999 | | | | 124 | 4,551 | 4,951 | 1,630 | 623 | 5,499 | 2,893 | | | 20,271 |
| 2000 | | | | 10,018 | 30,132 | 11,068 | 2,469 | 1,367 | 8,950 | 4,957 | | | 68,961 |
| 2001 | | | | 104,119 | 60,247 | 32,422 | 6,261 | 1,472 | 16,390 | 4,411 | 334 | 11 | 225,667 |
| 2002 | 1 | | 7 | 3,881 | 60,767 | 31,795 | 6,496 | 2,367 | 15,707 | 3,660 | 214 | 2 | 124,897 |
| 2003 | | | 50 | 33,435 | 31,906 | 28,381 | 6,247 | 951 | 15,255 | 6,642 | 288 | 3 | 123,158 |
| 2004 | | | 1 | 29,462 | 36,732 | 18,114 | 3,721 | 566 | 21,620 | 3,670 | 145 | -1 | 114,030 |
| 2005 | | | | 1,174 | 18,726 | 13,028 | 2,942 | 948 | 12,215 | 3,248 | | | 52,281 |
| 2006 | | | | 10 | 17,659 | 12,916 | 3,541 | 1,816 | 12,534 | 6,006 | | | 54,482 |
| 2007 | | | | 2,143 | 27,277 | 13,221 | 5,238 | 1,804 | 17,407 | 6,243 | | | 73,333 |
| Total | 2 | 0 | 60 | 336,345 | 786,256 | 395,168 | 151,529 | 26,659 | 195,946 | 72,499 | 1,487 | 23 | 1,965,974 |
| 10-Year Average | | | | 18,669 | 29,462 | 17,099 | 3,977 | 1,219 | 12,900 | 4,431 | | | 87,862 |

*Jacks included
Includes 2001 extended season counts for November and December 0600-1600 PST.
Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 104

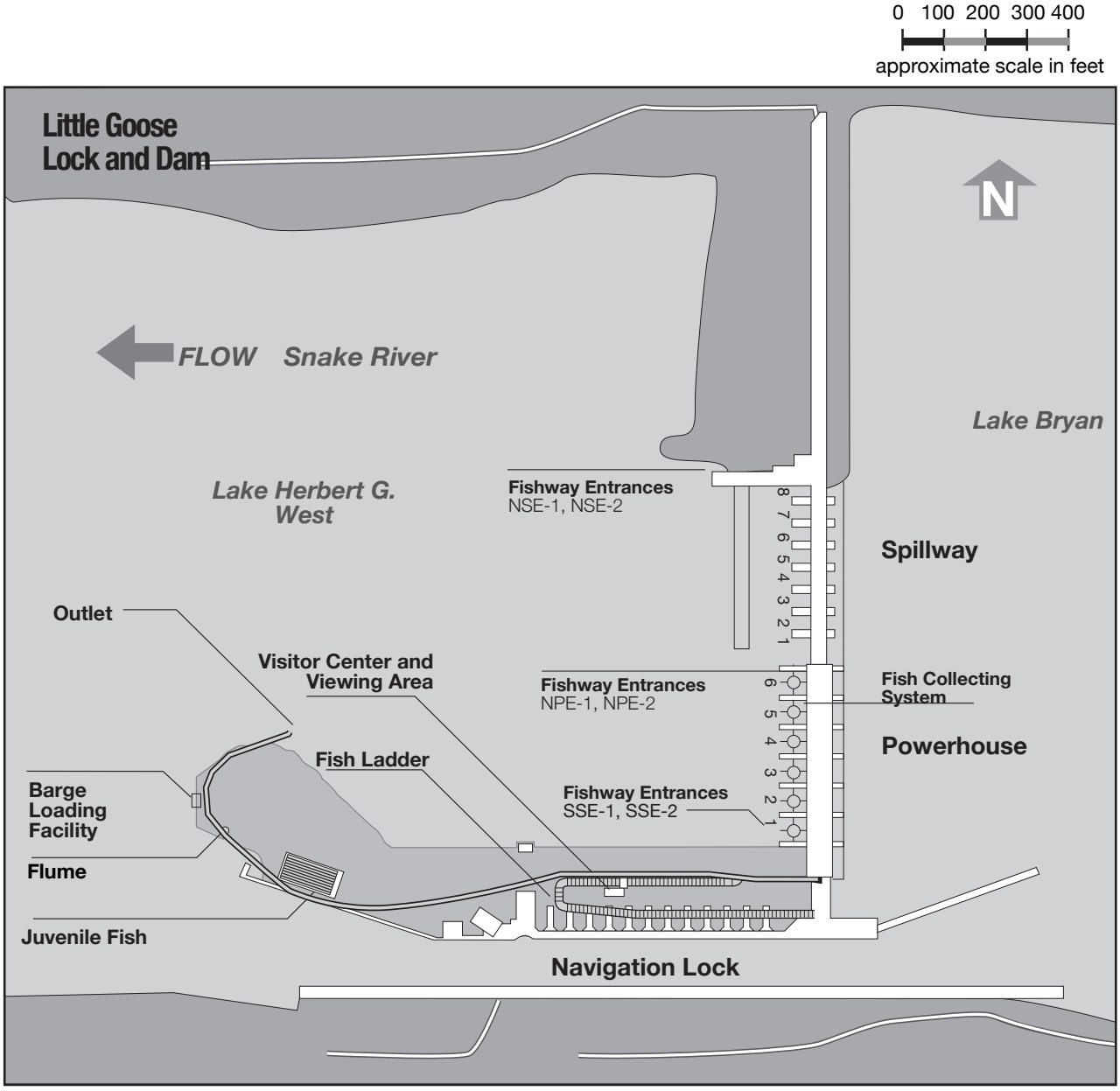
**MONTHLY COUNT OF STEELHEAD**

**LOWER MONUMENTAL DAM**
**1969 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | | 5 | 1,525 | 9,235 | 5,475 | 248 | 2,141 | 6,410 | 26,647 | 15,195 | 4,189 | 366 | 71,436 |
| 1970 | 252 | 1,025 | 1,519 | 3,143 | 2,134 | 232 | 1,989 | 7,947 | 30,701 | 11,194 | 1,615 | 416 | 62,167 |
| 1971 | | | 422 | 2,404 | 1,510 | 131 | 2,199 | 2,992 | 42,438 | 18,018 | | | 70,114 |
| 1972 | | | | 2,182 | 744 | 86 | 2,336 | 7,184 | 32,417 | 21,908 | | | 66,857 |
| 1973 | | | | 2,061 | 658 | 82 | 2,060 | 3,505 | 21,241 | 9,923 | | | 39,530 |
| 1974 | | | | 1,221 | 256 | 17 | 1,237 | 2,835 | 4,929 | 4,644 | | | 15,139 |
| 1975 | | | | 745 | 444 | 24 | 873 | 4,417 | 7,437 | 3,423 | | | 17,363 |
| 1976 | | | | 806 | 256 | 146 | 1,092 | 4,409 | 10,328 | 4,785 | | | 21,822 |
| 1977 | | | | 849 | 192 | 127 | 3,026 | 2,991 | 22,494 | 18,070 | | | 47,749 |
| 1978 | | | | 1,324 | 128 | 16 | 719 | 2,522 | 10,477 | 5,354 | | | 20,540 |
| 1979 | | | | 643 | 118 | 28 | 1,314 | 1,937 | 4,898 | 8,856 | | | 17,794 |
| 1980 | | | | 2,467 | 573 | 70 | 754 | 3,725 | 14,078 | 12,655 | | | 34,322 |
| 1981 | | | | 996 | 321 | 75 | 1,783 | 1,632 | 12,416 | 18,700 | | | 35,923 |
| 1982 | | | | 2,026 | 1,123 | 35 | 1,851 | 7,373 | 22,426 | 27,938 | | | 62,772 |
| 1983 | | | | 1,021 | 131 | 14 | 3,027 | 10,101 | 40,004 | 26,264 | | | 80,562 |
| 1984 | | | | 2,663 | 482 | 52 | 3,150 | 4,820 | 42,788 | 34,700 | | | 88,655 |
| 1985 | | | | 6,889 | 548 | 189 | 1,888 | 10,086 | 63,734 | 26,384 | | | 109,718 |
| 1986 | | | | 1,914 | 205 | 89 | 5,082 | 7,751 | 46,876 | 58,562 | | | 120,479 |
| 1987 | | | | 2,483 | 264 | 142 | 2,531 | 4,692 | 20,766 | 31,708 | | | 62,586 |
| 1988 | | | | 4,274 | 604 | 411 | 1,903 | 5,725 | 35,290 | 36,539 | | | 84,746 |
| 1989 | | | | 1,067 | 389 | 304 | 6,364 | 8,093 | 63,026 | 50,375 | | | 129,618 |
| 1990 | | | | 2,691 | 197 | 189 | 1,804 | 1,579 | 14,209 | 24,238 | | | 44,907 |
| 1991 | | | | 2,211 | 288 | 70 | 2,275 | 1,497 | 41,894 | 50,080 | | | 98,315 |
| 1992 | | | | 1,456 | 182 | 285 | 2,890 | 7,223 | 68,606 | 49,787 | | | 130,429 |
| 1993 | | | | 7,752 | 277 | 564 | 5,367 | 8,197 | 16,146 | 30,228 | 2,461 | | 70,992 |
| 1994 | | | | 2,844 | 76 | 186 | 2,595 | 2,998 | 14,901 | 26,317 | | | 49,917 |
| 1995 | | | | 1,072 | 162 | 138 | 4,074 | 10,424 | 38,890 | 35,397 | | | 90,157 |
| 1996 | | | | 934 | 96 | 137 | 3,199 | 12,413 | 47,234 | 32,596 | | | 96,609 |
| 1997 | | | | 1,044 | 162 | 177 | 3,422 | 9,326 | 34,521 | 36,950 | | | 85,602 |
| 1998 | | | | 1,501 | 62 | 198 | 2,361 | 1,835 | 19,892 | 40,269 | | | 66,118 |
| 1999 | | | | 559 | 59 | 98 | 2,652 | 11,170 | 37,899 | 20,405 | | | 72,842 |
| 2000 | | | | 937 | -26 | 546 | 5,741 | 9,045 | 61,072 | 35,301 | | | 112,616 |
| 2001 | | | | 1,636 | 113 | 2,874 | 19,045 | 26,264 | 126,517 | 76,474 | 23,900 | 8,922 | 285,745 |
| 2002 | 3,687 | 1,858 | 3,429 | 4,876 | 196 | 688 | 10,901 | 25,998 | 94,310 | 75,670 | 9,028 | 2,168 | 232,809 |
| 2003 | 775 | 3,686 | 5,325 | 1,872 | 45 | 850 | 7,704 | 8,122 | 93,190 | 60,813 | 3,945 | 1,011 | 187,338 |
| 2004 | 115 | 1,036 | 2,619 | 1,473 | 127 | 1,052 | 6,477 | 4,020 | 90,900 | 45,380 | 4,101 | 1,492 | 158,792 |
| 2005 | | | | 783 | 181 | 1,062 | 5,193 | 7,445 | 70,701 | 68,427 | | | 153,792 |
| 2006 | | | | 2,756 | 98 | 454 | 3,392 | 7,778 | 63,849 | 57,239 | | | 135,566 |
| 2007 | | | | 2,174 | 143 | 914 | 5,735 | 8,657 | 77,612 | 58,869 | | | 154,104 |
| Total | 4,829 | 7,610 | 14,839 | 88,984 | 18,993 | 13,000 | 142,146 | 275,138 | 1,587,754 | 1,269,635 | 49,239 | 14,375 | 3,486,542 |
| 10-Year Average | | | | 1,857 | 100 | 874 | 6,920 | 11,033 | 73,594 | 53,885 | | | 155,972 |

**Includes 2001 extended season counts for November and December 0600-1600 PST.**
**Includes 2002, '03, and '04 extended season counts for January through March 0800-1600 PST and November and December 0600-1600 PST.**

# Plate 8 Little Goose Lock and Dam



# LITTLE GOOSE DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| 1 Apr – Oct 31 | Visual counting daily 0400 - 2000 hours PST |

## FISH LADDER OPERATING SCHEDULE

***Project Ladder***

| | |
|---|---|
| 1 Jan – 2 Jan | Ladder in service. |
| 3 Jan – 25 Jan | Ladder dewatered for annual maintenance. |
| 26 Jan – 31 Dec | Ladder in service |

## FISHWAY ACTIVITIES

Water temperatures were recorded hourly at the fish ladder exit pool. These reading were recorded from 28 June to 19 Sept. The purpose is to determine if summer spill has any effects on exit pool temperatures.

Idaho Cooperative Fisheries Research Unit conducted an evaluation of adult salmon and steelhead migration past the adult ladder at Little Goose dam. In addition, lamprey were trapped and tagged at Little Goose Dam, then transported upstream of Lower Granite Dam where they were released.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 26 March to 19 December.

TABLE 105

**MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LITTLE GOOSE DAM**

**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | 998 | 21,050 | 14,741 | 4,650 | 1,154 | 12,109 | 5,696 | | | 60,398 |
| STEELHEAD | | | | 2,096 | 205 | 339 | 2,062 | 4,560 | 63,517 | 62,635 | | | 135,414 |
| SOCKEYE | | | | | | 6 | 28 | 3 | | | | | 37 |
| COHO | | | | | | | | | 618 | 1,523 | | | 2,141 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | | 3,094 | 21,255 | 15,086 | 6,740 | 5,717 | 76,244 | 69,854 | | | 197,990 |
| LAMPREY | | | | | -1 | 2 | 17 | 28 | 21 | 5 | | | 72 |
| STURGEON | | | | | | | 1 | | | | | | 1 |
| BULL TROUT | | | | | 3 | 3 | | | | | | | 6 |

***Jacks included**

TABLE 106

**DISCHARGE AND WATER QUALITY DATA**

**LITTLE GOOSE PROJECT 2007**

**JANUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | * DEG F |
|---|---|---|---|---|
| Jan 1 | 28.2 | 0.0 | | |
| Jan 2 | 30.4 | 0.0 | | |
| Jan 3 | 26.7 | 0.0 | | |
| Jan 4 | 26.0 | 0.0 | | |
| Jan 5 | 34.0 | 0.0 | | |
| Jan 6 | 26.8 | 0.0 | | |
| Jan 7 | 33.6 | 0.0 | | |
| Jan 8 | 26.4 | 0.0 | | |
| Jan 9 | 39.9 | 0.0 | | |
| Jan 10 | 27.6 | 0.0 | | |
| Jan 11 | 42.6 | 0.0 | | |
| Jan 12 | 37.2 | 0.0 | | |
| Jan 13 | 35.5 | 0.0 | | |
| Jan 14 | 36.1 | 0.0 | | |
| Jan 15 | 33.1 | 0.0 | | |
| Jan 16 | 50.8 | 0.0 | | |
| Jan 17 | 23.9 | 0.0 | | |
| Jan 18 | 33.8 | 0.0 | | |
| Jan 19 | 31.1 | 0.0 | | |
| Jan 20 | 18.3 | 0.0 | | |
| Jan 21 | 14.8 | 0.0 | | |
| Jan 22 | 33.0 | 0.0 | | |
| Jan 23 | 31.2 | 0.0 | | |
| Jan 24 | 28.4 | 0.0 | | |
| Jan 25 | 35.6 | 0.0 | | |
| Jan 26 | 21.8 | 0.0 | | |
| Jan 27 | 21.3 | 0.0 | | |
| Jan 28 | 11.5 | 0.0 | | |
| Jan 29 | 25.5 | 0.0 | | |
| Jan 30 | 17.5 | 0.0 | | |
| Jan 31 | 26.3 | 0.0 | | |
| AVG. | 29.3 | 0.0 | | |

**FEBRUARY**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | *DEG F |
|---|---|---|---|---|
| Feb 1 | 30.1 | 0.0 | | |
| Feb 2 | 28.9 | 0.0 | | |
| Feb 3 | 26.2 | 0.0 | | |
| Feb 4 | 22.4 | 0.0 | | |
| Feb 5 | 20.7 | 0.0 | | |
| Feb 6 | 17.3 | 0.0 | | |
| Feb 7 | 23.4 | 0.0 | | |
| Feb 8 | 21.0 | 0.0 | | |
| Feb 9 | 17.0 | 0.0 | | |
| Feb 10 | 26.2 | 0.0 | | |
| Feb 11 | 22.9 | 0.0 | | |
| Feb 12 | 26.6 | 0.0 | | |
| Feb 13 | 36.3 | 0.0 | | |
| Feb 14 | 29.9 | 0.0 | | |
| Feb 15 | 29.3 | 0.0 | | |
| Feb 16 | 40.9 | 0.0 | | |
| Feb 17 | 40.8 | 0.0 | | |
| Feb 18 | 33.1 | 0.0 | | |
| Feb 19 | 37.7 | 0.0 | | |
| Feb 20 | 38.8 | 0.0 | | |
| Feb 21 | 37.5 | 0.0 | | |
| Feb 22 | 29.4 | 0.0 | | |
| Feb 23 | 37.0 | 0.0 | | |
| Feb 24 | 34.8 | 0.0 | | |
| Feb 25 | 29.9 | 0.0 | | |
| Feb 26 | 32.9 | 0.0 | | |
| Feb 27 | 36.5 | 0.0 | | |
| Feb 28 | 25.7 | 0.0 | | |
| AVG. | 29.8 | 0.0 | | |

**MARCH**

| DATE | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | DEG F |
|---|---|---|---|---|
| Mar 1 | 26.5 | 0.0 | | * |
| Mar 2 | 29.9 | 0.5 | | * |
| Mar 3 | 29.8 | 1.8 | | * |
| Mar 4 | 20.2 | 2.0 | | * |
| Mar 5 | 22.1 | 2.1 | | * |
| Mar 6 | 23.7 | 2.0 | | * |
| Mar 7 | 27.8 | 2.0 | | * |
| Mar 8 | 27.2 | 1.5 | | * |
| Mar 9 | 34.1 | 1.9 | | * |
| Mar 10 | 31.9 | 2.2 | | * |
| Mar 11 | 34.0 | 1.7 | | * |
| Mar 12 | 39.9 | 1.6 | | * |
| Mar 13 | 50.3 | 8.2 | | * |
| Mar 14 | 56.9 | 15.2 | | * |
| Mar 15 | 55.2 | 13.7 | | * |
| Mar 16 | 45.9 | 0.0 | | * |
| Mar 17 | 45.6 | 0.0 | | * |
| Mar 18 | 44.3 | 0.0 | | * |
| Mar 19 | 52.7 | 0.4 | | * |
| Mar 20 | 55.2 | 0.0 | | 45.6 |
| Mar 21 | 63.5 | 0.0 | | 45.9 |
| Mar 22 | 55.7 | 0.0 | | 45.8 |
| Mar 23 | 64.7 | 0.0 | | 45.6 |
| Mar 24 | 45.3 | 0.0 | | * |
| Mar 25 | 44.0 | 0.0 | | 46.5 |
| Mar 26 | 64.2 | 0.0 | | 46.5 |
| Mar 27 | 61.1 | 9.2 | | 47.0 |
| Mar 28 | 56.4 | 7.3 | | 46.6 |
| Mar 29 | 53.6 | 8.1 | | 45.8 |
| Mar 30 | 55.7 | 3.1 | | 46.1 |
| Mar 31 | 50.3 | 0.0 | | 46.3 |
| AVG. | 44.1 | 2.7 | | 46.2 |

*Data unavailable.

TABLE 107

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 0 | | | 0 | | | | 168 | 53 | | | 40.1 | 0.0 | 4.5 | 46.7 |
| Apr 2 | 1 | | | 0 | | | | 161 | 55 | | | 51.4 | 0.0 | * | 46.7 |
| Apr 3 | 0 | | | 0 | | | | 108 | 44 | | | 42.0 | 12.7 | 3.7 | 46.6 |
| Apr 4 | 0 | | | 0 | | | | 134 | 46 | | | 38.6 | 12.0 | * | 46.7 |
| Apr 5 | 0 | | | 0 | | | | 114 | 28 | | | 35.0 | 10.8 | 3.9 | 46.6 |
| Apr 6 | 0 | | | 0 | | | | 114 | 36 | | | 31.6 | 9.5 | 4.8 | 46.6 |
| Apr 7 | 2 | | | 0 | | | | 156 | 41 | | | 36.0 | 10.9 | * | 46.8 |
| Apr 8 | 0 | | | 0 | | | | 137 | 34 | | | 37.1 | 11.1 | 4.9 | 47.3 |
| Apr 9 | 0 | | | 0 | | | | 95 | 29 | | | 45.7 | 13.8 | * | 47.9 |
| Apr 10 | 0 | | | 0 | | | | 97 | 37 | | | 51.4 | 15.6 | 4.0 | 48.1 |
| Apr 11 | 0 | | | 0 | | | | 79 | 19 | | | 46.8 | 21.7 | * | 48.4 |
| Apr 12 | 0 | | | 0 | | | | 121 | 38 | | | 46.5 | 14.0 | 3.8 | 48.8 |
| Apr 13 | 0 | | | 0 | | | | 89 | 28 | | | 49.6 | 13.4 | * | 48.8 |
| Apr 14 | 0 | | | 0 | | | | 67 | 14 | | | 45.2 | 13.8 | 5.6 | 49.9 |
| Apr 15 | 1 | | | 0 | | | | 73 | 29 | | | 42.7 | 12.9 | * | 50.8 |
| Apr 16 | 0 | | | 0 | | | | 43 | 6 | | | 48.5 | 14.4 | * | 51.4 |
| Apr 17 | -1 | | | 0 | | | | 45 | 14 | | | 46.7 | 14.2 | 5.7 | 51.9 |
| Apr 18 | 1 | | | 0 | | | | 56 | 19 | | | 42.1 | 12.5 | 4.9 | 51.5 |
| Apr 19 | 1 | | | 0 | | | | 42 | 24 | | | 46.7 | 14.0 | 4.8 | 51.1 |
| Apr 20 | 6 | | | 0 | | | | 34 | 10 | | | 45.3 | 13.8 | 3.0 | 50.6 |
| Apr 21 | 4 | | | 0 | | | | 29 | 13 | | | 48.4 | 14.5 | * | 50.6 |
| Apr 22 | 11 | | | 2 | | | | 23 | 12 | | | 41.5 | 12.5 | 4.2 | 50.3 |
| Apr 23 | 12 | | | 0 | | | | 17 | 4 | | | 42.6 | 12.9 | * | 50.5 |
| Apr 24 | 16 | | | 1 | | | | 9 | 2 | | | 45.9 | 13.7 | 5.0 | 51.3 |
| Apr 25 | 14 | | | 0 | | | | 18 | 8 | | | 46.0 | 13.5 | * | 51.5 |
| Apr 26 | 50 | | | 0 | | | | 13 | 5 | | | 49.8 | 15.1 | 5.4 | 51.7 |
| Apr 27 | 120 | | | 1 | | | | 13 | 6 | | | 53.6 | 16.1 | 5.5 | 51.7 |
| Apr 28 | 248 | | | 4 | | | | 18 | 8 | | | 52.7 | 15.9 | 5.5 | 51.6 |
| Apr 29 | 274 | | | 12 | | | | 12 | 10 | | | 59.5 | 20.9 | 5.3 | 51.9 |
| Apr 30 | 214 | | | 4 | | | | 11 | 6 | | | 69.9 | 25.7 | 5.3 | 52.4 |
| TOTAL | 974 | | | 24 | | | | 2,096 | 678 | | | | | | |
| AVG. | 32 | | | 1 | | | | 70 | 23 | | | 46.0 | 13.4 | 4.7 | 49.6 |

*Data unavailable

TABLE 108

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 509 | | | 1 | | | | 11 | 6 | 0 | 0 | 82.8 | 26.9 | 5.6 | 52.9 |
| May 2 | 307 | | | 5 | | | | 13 | 6 | 0 | 0 | 83.2 | 26.6 | * | 52.4 |
| May 3 | 516 | | | 4 | | | | 18 | 7 | -1 | 0 | 91.4 | 25.6 | 4.2 | 52.6 |
| May 4 | 679 | | | 23 | | | | 17 | 7 | 0 | 0 | 86.2 | 25.6 | 4.8 | 53.1 |
| May 5 | 886 | | | 32 | | | | 16 | 11 | 0 | -1 | 79.3 | 24.8 | 5.0 | 53.2 |
| May 6 | 626 | | | 47 | | | | 10 | 10 | 0 | 0 | 69.6 | 24.1 | 4.0 | 53.2 |
| May 7 | 809 | | | 67 | | | | 6 | 4 | 0 | 0 | 65.7 | 24.3 | * | 53.3 |
| May 8 | 828 | | | 103 | | | | 7 | 2 | 0 | 0 | 63.4 | 25.0 | 5.0 | 52.8 |
| May 9 | 596 | | | 127 | | | | 3 | 1 | 0 | 0 | 64.3 | 24.7 | * | 52.8 |
| May 10 | 641 | | | 86 | | | | 5 | 4 | 0 | 0 | 77.0 | 25.1 | 5.4 | 52.8 |
| May 11 | 916 | | | 184 | | | | 6 | 1 | 1 | 0 | 90.9 | 25.7 | * | 52.3 |
| May 12 | 539 | | | 184 | | | | 7 | 2 | 0 | 0 | 90.8 | 24.2 | 4.1 | 52.3 |
| May 13 | 946 | | | 233 | | | | 25 | 11 | 0 | 0 | 95.1 | 22.0 | * | 53.3 |
| May 14 | 756 | | | 203 | | | | 15 | 1 | 0 | 0 | 95.7 | 23.8 | * | 54.8 |
| May 15 | 466 | | | 198 | | | | 12 | 1 | 0 | 0 | 90.7 | 25.1 | 4.3 | 55.2 |
| May 16 | 271 | | | 271 | | | | 7 | 1 | 1 | 0 | 87.2 | 25.1 | * | 55.5 |
| May 17 | 604 | | | 385 | | | | 9 | 4 | 0 | 0 | 79.6 | 23.8 | 4.8 | 55.8 |
| May 18 | 476 | | | 287 | | | | 4 | 2 | 0 | 0 | 92.6 | 27.1 | 4.1 | 55.5 |
| May 19 | 409 | | | 292 | | | | 1 | 1 | 2 | 0 | 87.2 | 26.1 | * | 55.6 |
| May 20 | 226 | | | 257 | | | | 2 | 2 | 0 | 0 | 85.4 | 25.8 | * | 55.1 |
| May 21 | 229 | | | 272 | | | | 2 | 2 | 0 | 0 | 84.6 | 25.4 | * | 55.2 |
| May 22 | 299 | | | 294 | | | | 1 | 0 | 0 | 0 | 83.7 | 25.2 | 4.0 | 55.8 |
| May 23 | 206 | | | 246 | | | | 1 | 0 | 0 | 0 | 71.8 | 21.6 | 5.0 | 56.3 |
| May 24 | 371 | | | 332 | | | | 2 | 0 | 0 | 0 | 70.1 | 21.0 | 4.2 | 56.8 |
| May 25 | 96 | | | 142 | | | | 1 | 0 | 0 | 0 | 72.9 | 21.7 | * | 56.6 |
| May 26 | 112 | | | 154 | | | | 1 | 0 | 0 | 0 | 62.5 | 18.7 | 4.7 | 56.2 |
| May 27 | 32 | | | 88 | | | | 0 | 0 | 0 | 0 | 54.6 | 16.4 | * | 55.2 |
| May 28 | 73 | | | 184 | | | | 1 | 0 | 0 | 0 | 57.4 | 17.2 | 3.8 | 55.1 |
| May 29 | 145 | | | 193 | | | | 2 | 1 | 0 | 0 | 59.9 | 18.0 | * | 54.5 |
| May 30 | 91 | | | 124 | | | | 0 | 0 | 0 | 0 | 56.7 | 17.0 | * | 55.1 |
| May 31 | 2,146 | | | 226 | | | | 0 | 0 | 0 | 0 | 55.4 | 16.6 | 4.8 | 56.0 |
| TOTAL | 15,806 | | | 5,244 | | | | 205 | 87 | 3 | -1 | | | | |
| AVG. | 510 | | | 169 | | | | 7 | 3 | 0 | 0 | 77.0 | 23.2 | 4.6 | 54.4 |

*Data unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 16,780 | 5,268 |

| STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|
| 2,301 | 765 | 3 | -1 |

TABLE 109

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 2,562 | | | 463 | | | 0 | 2 | 0 | 0 | 1 | 52.3 | 15.7 | 5.4 | 57.3 |
| Jun 2 | 580 | | | 191 | | | 0 | 4 | 0 | 0 | 0 | 54.2 | 16.2 | * | 58.2 |
| Jun 3 | 355 | | | 122 | | | 0 | 0 | 0 | 0 | 0 | 52.1 | 15.3 | 5.5 | 58.4 |
| Jun 4 | 240 | | | 103 | | | 0 | 5 | 0 | 1 | 0 | 56.3 | 17.1 | * | 57.8 |
| Jun 5 | 174 | | | 86 | | | 0 | 5 | 1 | 0 | 0 | 55.7 | 16.6 | 4.3 | 57.9 |
| Jun 6 | 300 | | | 145 | | | 0 | 2 | 0 | 0 | 0 | 53.2 | 16.0 | * | 59.1 |
| Jun 7 | 242 | | | 108 | | | 0 | 2 | 0 | 0 | 0 | 58.1 | 17.6 | 3.5 | 59.3 |
| Jun 8 | 532 | | | 127 | | | 0 | 4 | 0 | 0 | 0 | 52.6 | 15.8 | * | 59.5 |
| Jun 9 | 344 | | | 91 | | | 0 | 4 | 0 | 0 | 0 | 52.9 | 16.0 | * | 60.7 |
| Jun 10 | 266 | | | 112 | | | 0 | 8 | 1 | 1 | 1 | 52.7 | 15.7 | 4.9 | 61.7 |
| Jun 11 | 301 | | | 90 | | | 0 | 8 | 0 | 0 | 0 | 52.3 | 15.7 | * | 61.7 |
| Jun 12 | 287 | | | 77 | | | 0 | 9 | 1 | 1 | 0 | 63.3 | 18.9 | 5.0 | 61.5 |
| Jun 13 | 332 | | | 89 | | | 0 | 13 | 0 | 0 | 0 | 56.8 | 16.9 | * | 60.3 |
| Jun 14 | 337 | | | 59 | | | 0 | 5 | -1 | 0 | 0 | 53.9 | 16.3 | 4.0 | 59.6 |
| Jun 15 | 328 | | | 96 | | | 0 | 2 | 0 | 0 | 0 | 48.1 | 14.5 | * | 59.2 |
| Jun 16 | | 379 | | 83 | | | 0 | 6 | 1 | 0 | 0 | 44.4 | 13.3 | 4.9 | 58.7 |
| Jun 17 | | 344 | | 62 | | | 0 | 6 | 2 | 0 | -6 | 46.1 | 13.8 | * | 58.7 |
| Jun 18 | | 366 | | 103 | | | 0 | 15 | 1 | 0 | 1 | 40.7 | 12.2 | 5.2 | 59.5 |
| Jun 19 | | 244 | | 70 | | | 0 | 9 | 1 | 0 | 0 | 38.1 | 11.3 | 4.8 | 59.6 |
| Jun 20 | | 173 | | 91 | | | 0 | 8 | 0 | 0 | 0 | 43.3 | 13.0 | * | 60.0 |
| Jun 21 | | 218 | | 83 | | | 0 | 2 | 0 | 0 | 0 | 34.4 | 10.3 | 5.0 | 59.8 |
| Jun 22 | | 226 | | 116 | | | 0 | 21 | 4 | 0 | 0 | 43.4 | 13.0 | * | 60.9 |
| Jun 23 | | 404 | | 144 | | | 0 | 20 | 2 | 0 | 4 | 39.0 | 11.9 | 6.0 | 61.8 |
| Jun 24 | | 394 | | 131 | | | 0 | 27 | 4 | 0 | 0 | 35.4 | 10.7 | * | 62.7 |
| Jun 25 | | 268 | | 114 | | | 0 | 33 | 2 | 0 | 0 | 34.2 | 10.6 | * | 62.8 |
| Jun 26 | | 248 | | 102 | | | 0 | 25 | 1 | 0 | 0 | 31.8 | 9.7 | 5.0 | 63.2 |
| Jun 27 | | 287 | | 121 | | | 1 | 27 | 2 | 0 | 0 | 30.7 | 9.3 | * | 64.0 |
| Jun 28 | | 164 | | 68 | | | 0 | 28 | 2 | 0 | 0 | 32.9 | 9.9 | 4.5 | 63.6 |
| Jun 29 | | 187 | | 95 | | | 0 | 19 | 0 | 0 | 0 | 37.0 | 11.0 | * | 63.5 |
| Jun 30 | | 204 | | 113 | | | 5 | 20 | 1 | 0 | 1 | 33.1 | 10.0 | 5.9 | 64.6 |
| TOTAL | 7,180 | 4,106 | | 3,455 | | | 6 | 339 | 25 | 3 | 2 | | | | |
| AVG. | 479 | 274 | | 115 | | | 0 | 11 | 1 | 0 | 0 | 46.0 | 13.8 | 4.9 | 60.5 |

*Data unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,960 | 7,227 |
| SUMMER | 4,106 | 1,496 |
| TOTALS | 28,066 | 8,723 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 6 | 2,640 | 790 | 6 | 1 |

TABLE 110

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 281 | | 86 | | | 0 | 28 | 2 | | 0 | 35.3 | 10.7 | 6.0 | 65.7 |
| Jul 2 | | 240 | | 91 | | | 0 | 30 | 1 | | 1 | 29.2 | 8.7 | * | 65.6 |
| Jul 3 | | 168 | | 66 | | | 4 | 42 | 7 | | 0 | 36.2 | 10.8 | 5.8 | 66.1 |
| Jul 4 | | 170 | | 70 | | | 2 | 38 | 6 | | 0 | 34.9 | 10.5 | * | 67.1 |
| Jul 5 | | 86 | | 74 | | | 1 | 46 | 4 | | 0 | 32.5 | 9.6 | 5.2 | 67.3 |
| Jul 6 | | 138 | | 65 | | | 5 | 28 | 5 | | 0 | 34.9 | 10.5 | 6.0 | 67.2 |
| Jul 7 | | 186 | | 79 | | | 0 | 24 | 4 | | 0 | 35.4 | 10.5 | * | 67.3 |
| Jul 8 | | 155 | | 68 | | | 1 | 66 | 11 | | 0 | 39.4 | 11.8 | 6.0 | 67.8 |
| Jul 9 | | 128 | | 34 | | | 1 | 48 | 6 | | 1 | 37.7 | 11.3 | * | 69.8 |
| Jul 10 | | 158 | | 14 | | | 2 | 48 | 8 | | 0 | 37.7 | 11.2 | 6.0 | 69.7 |
| Jul 11 | | 59 | | 31 | | | 1 | 29 | 6 | | 1 | 34.1 | 10.6 | * | 69.0 |
| Jul 12 | | 56 | | 22 | | | 0 | 23 | 7 | | 0 | 33.0 | 10.1 | 6.0 | 68.8 |
| Jul 13 | | 112 | | 60 | | | 1 | 33 | 8 | | 0 | 34.2 | 10.2 | 6.0 | 69.0 |
| Jul 14 | | 116 | | 79 | | | 2 | 61 | 17 | | 1 | 32.6 | 9.9 | * | 69.0 |
| Jul 15 | | 203 | | 94 | | | 2 | 98 | 14 | | 0 | 34.7 | 10.5 | 6.0 | 68.5 |
| Jul 16 | | 109 | | 56 | | | 0 | 142 | 34 | | 2 | 34.5 | 10.4 | * | 68.8 |
| Jul 17 | | 113 | | 22 | | | 0 | 63 | 14 | | 0 | 28.4 | 8.5 | 6.0 | 68.8 |
| Jul 18 | | 94 | | 40 | | | 0 | 103 | 17 | | 0 | 29.8 | 8.8 | * | 68.4 |
| Jul 19 | | 84 | | 17 | | | 1 | 53 | 11 | | 0 | 28.6 | 8.6 | 6.0 | 68.1 |
| Jul 20 | | 65 | | 20 | | | 0 | 87 | 34 | | 1 | 29.9 | 8.9 | 6.0 | 69.3 |
| Jul 21 | | 44 | | 36 | | | 2 | 104 | 12 | | 1 | 31.5 | 9.5 | * | 68.6 |
| Jul 22 | | 86 | | 31 | | | 2 | 68 | 4 | | 2 | 26.3 | 7.9 | * | 68.6 |
| Jul 23 | | 65 | | 31 | | | 0 | 79 | 18 | | 0 | 25.0 | 7.4 | * | 68.3 |
| Jul 24 | | 71 | | 32 | | | 0 | 83 | 19 | | 0 | 28.5 | 8.6 | 6.0 | 67.8 |
| Jul 25 | | 83 | | 30 | | | 0 | 103 | 26 | | 2 | 24.6 | 7.4 | * | 70.2 |
| Jul 26 | | 31 | | 23 | | | 1 | 84 | 20 | | 1 | 26.2 | 8.0 | 6.0 | 69.8 |
| Jul 27 | | 67 | | 12 | | | 0 | 122 | 6 | | 0 | 29.4 | 8.8 | * | 69.0 |
| Jul 28 | | 59 | | 7 | | | 0 | 86 | 19 | | 0 | 29.5 | 8.8 | * | 68.8 |
| Jul 29 | | 64 | | 10 | | | 0 | 90 | 16 | | 1 | 27.8 | 8.4 | 6.0 | 68.1 |
| Jul 30 | | 35 | | 2 | | | 0 | 78 | 10 | | 2 | 28.1 | 8.4 | * | 68.8 |
| Jul 31 | | 20 | | 2 | | | 0 | 75 | 10 | | 1 | 27.1 | 8.0 | 6.0 | 70.8 |
| TOTAL | | 3,346 | | 1,304 | | | 28 | 2,062 | 376 | | 17 | | | | |
| AVG. | | 108 | | 42 | | | 1 | 67 | 12 | | 1 | 31.5 | 9.5 | 5.9 | 68.4 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,960 | 7,227 |
| SUMMER | 7,452 | 2,800 |
| TOTAL | 31,412 | 10,027 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 34 | 4,702 | 1,166 | 6 | 18 |

Note: 1 sturgeon counted on July 18

TABLE 111

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 26 | | 5 | | | 0 | 72 | 13 | | 0 | 30.8 | 9.1 | * | 70.0 |
| Aug 2 | | 31 | | 0 | | | 0 | 81 | 7 | | 1 | 27.9 | 8.4 | 6.0 | 69.2 |
| Aug 3 | | 42 | | 13 | | | 0 | 112 | 17 | | 1 | 24.7 | 7.4 | * | 68.2 |
| Aug 4 | | 34 | | 5 | | | 0 | 74 | 13 | | 4 | 26.0 | 7.8 | 6.0 | 69.5 |
| Aug 5 | | 42 | | 11 | | | 0 | 135 | 19 | | 1 | 26.3 | 7.9 | * | 70.9 |
| Aug 6 | | 35 | | 4 | | | 0 | 74 | 20 | | 1 | 25.4 | 7.6 | * | 70.1 |
| Aug 7 | | 29 | | 8 | | | 0 | 98 | 10 | | 1 | 24.8 | 7.4 | 6.0 | 68.7 |
| Aug 8 | | 24 | | 2 | | | 1 | 80 | 20 | | 0 | 25.0 | 7.4 | * | 68.5 |
| Aug 9 | | 32 | | 2 | | | 0 | 119 | 18 | | 0 | 27.5 | 8.1 | 6.0 | 69.6 |
| Aug 10 | | 40 | | 4 | | | 0 | 132 | 23 | | 1 | 25.1 | 7.4 | 6.0 | 69.2 |
| Aug 11 | | 29 | | 2 | | | 0 | 124 | 20 | | 1 | 26.3 | 7.7 | * | 69.4 |
| Aug 12 | | 28 | | 0 | | | 0 | 120 | 20 | | 2 | 25.5 | 7.4 | * | 68.5 |
| Aug 13 | | 17 | | 1 | | | 0 | 53 | 17 | | 1 | 22.5 | 13.6 | * | 68.2 |
| Aug 14 | | 26 | | 0 | | | 0 | 85 | 18 | | 1 | 23.3 | 17.6 | 6.0 | 67.5 |
| Aug 15 | | 11 | | 4 | | | 2 | 98 | 16 | | 0 | 23.7 | 18.2 | * | 66.9 |
| Aug 16 | | | 22 | 2 | | | 0 | 124 | 20 | | 0 | 22.4 | 16.9 | 6.0 | 66.6 |
| Aug 17 | | | 28 | 5 | | | 0 | 181 | 18 | | 0 | 23.0 | 13.8 | * | 66.3 |
| Aug 18 | | | 23 | 4 | | | 0 | 207 | 38 | | 1 | 20.9 | 6.3 | 6.0 | 67.7 |
| Aug 19 | | | 12 | 1 | | | 0 | 104 | 20 | | 0 | 18.5 | 5.6 | * | 67.6 |
| Aug 20 | | | 17 | 4 | | | 0 | 165 | 23 | | 1 | 23.0 | 6.9 | * | 67.3 |
| Aug 21 | | | 16 | 0 | | | 0 | 289 | 56 | | 4 | 24.4 | 7.4 | 6.0 | 67.4 |
| Aug 22 | | | 36 | 4 | | | 0 | 280 | 46 | | 0 | 22.1 | 6.6 | * | 67.2 |
| Aug 23 | | | 42 | 8 | | | 0 | 122 | 16 | | 2 | 18.8 | 5.6 | 6.0 | 66.4 |
| Aug 24 | | | 40 | 4 | | | 0 | 119 | 16 | | 2 | 25.0 | 7.4 | 6.0 | 67.0 |
| Aug 25 | | | 43 | 8 | | | 0 | 168 | 24 | | 0 | 20.6 | 6.1 | * | 66.6 |
| Aug 26 | | | 89 | 8 | | | 0 | 214 | 38 | | 0 | 22.3 | 6.6 | * | 66.1 |
| Aug 27 | | | 58 | 6 | | | 0 | 298 | 46 | | 1 | 23.6 | 7.0 | * | 66.8 |
| Aug 28 | | | 56 | 2 | | | 0 | 307 | 41 | | 0 | 22.3 | 6.6 | 6.0 | 67.4 |
| Aug 29 | | | 34 | 5 | | | 0 | 228 | 35 | | 0 | 20.2 | 5.9 | * | 67.0 |
| Aug 30 | | | 28 | 7 | | | 0 | 166 | 30 | | 1 | 18.8 | 5.6 | 6.0 | 66.5 |
| Aug 31 | | | 29 | 6 | | | 0 | 131 | 23 | | 1 | 22.0 | 6.6 | * | 65.8 |
| TOTAL | | 446 | 573 | 135 | | | 3 | 4,560 | 741 | | 28 | | | | |
| AVG. | | 30 | 36 | 4 | | | 0 | 147 | 24 | | 1 | 23.6 | 8.5 | 6.0 | 67.9 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,960 | 7,227 |
| SUMMER | 7,898 | 2,861 |
| FALL | 573 | 74 |
| TOTALS | 32,431 | 10,162 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 37 | 9,262 | 1,907 | 6 | 46 |

TABLE 112

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 71 | 16 | 0 | 0 | | 211 | 41 | | 1 | 17.2 | 0.0 | 6.0 | 65.7 |
| Sep 2 | | | 90 | 17 | 0 | 0 | | 210 | 59 | | 1 | 20.1 | 0.0 | * | 66.9 |
| Sep 3 | | | 83 | 24 | 0 | 0 | | 268 | 50 | | 0 | 21.0 | 0.0 | * | 67.1 |
| Sep 4 | | | 104 | 19 | 2 | 0 | | 519 | 62 | | 1 | 20.6 | 0.0 | 6.0 | 66.3 |
| Sep 5 | | | 98 | 29 | 1 | 0 | | 689 | 101 | | 0 | 20.1 | 0.0 | * | 65.8 |
| Sep 6 | | | 248 | 62 | 0 | 0 | | 928 | 137 | | 2 | 19.1 | 0.0 | 6.0 | 66.1 |
| Sep 7 | | | 262 | 76 | 0 | 0 | | 708 | 128 | | 4 | 13.1 | 0.0 | 6.0 | 66.8 |
| Sep 8 | | | 341 | 82 | 5 | -1 | | 786 | 154 | | 5 | 26.4 | 0.0 | * | 66.9 |
| Sep 9 | | | 313 | 110 | 5 | 4 | | 1,160 | 170 | | 1 | 17.2 | 1.8 | * | 67.3 |
| Sep 10 | | | 221 | 86 | 1 | 1 | | 844 | 168 | | 1 | 23.5 | 1.2 | * | 67.2 |
| Sep 11 | | | 113 | 35 | 6 | 1 | | 898 | 152 | | 0 | 22.7 | 0.0 | 5.6 | 66.8 |
| Sep 12 | | | 112 | 60 | 2 | 1 | | 805 | 91 | | 1 | 22.9 | 0.0 | * | 66.7 |
| Sep 13 | | | 245 | 102 | 13 | 4 | | 1,049 | 160 | | 1 | 15.6 | 0.3 | 6.0 | 66.3 |
| Sep 14 | | | 236 | 109 | 11 | 1 | | 926 | 154 | | 1 | 17.3 | 0.0 | * | 66.5 |
| Sep 15 | | | 190 | 145 | 6 | 1 | | 942 | 122 | | 0 | 18.0 | 1.4 | 6.0 | 66.6 |
| Sep 16 | | | 440 | 280 | 17 | 0 | | 1,504 | 233 | | 1 | 17.0 | 0.0 | * | 66.3 |
| Sep 17 | | | 484 | 343 | 24 | 5 | | 2,514 | 398 | | 0 | 17.1 | 0.0 | * | 66.2 |
| Sep 18 | | | 244 | 192 | 4 | 0 | | 2,275 | 398 | | 1 | 16.0 | 0.0 | 6.0 | 66.1 |
| Sep 19 | | | 394 | 266 | 14 | 5 | | 4,458 | 805 | | 0 | 16.0 | 0.0 | 6.0 | 66.1 |
| Sep 20 | | | 517 | 314 | 36 | 8 | | 4,403 | 881 | | 0 | 16.0 | 0.0 | * | 66.1 |
| Sep 21 | | | 331 | 232 | 78 | 42 | | 5,106 | 920 | | 0 | 14.9 | 0.0 | 6.0 | 65.9 |
| Sep 22 | | | 241 | 221 | 10 | 2 | | 3,259 | 596 | | 0 | 16.4 | 0.9 | * | 65.8 |
| Sep 23 | | | 197 | 233 | 16 | 2 | | 3,192 | 553 | | 1 | 15.8 | 0.0 | * | 65.2 |
| Sep 24 | | | 164 | 229 | 28 | 0 | | 3,252 | 594 | | -1 | 18.7 | 0.0 | * | 64.8 |
| Sep 25 | | | 155 | 233 | 24 | 0 | | 3,084 | 554 | | -1 | 18.9 | 0.0 | 6.0 | 64.5 |
| Sep 26 | | | 186 | 211 | 98 | 7 | | 3,809 | 636 | | 0 | 15.9 | 0.0 | * | 64.1 |
| Sep 27 | | | 206 | 187 | 32 | 1 | | 3,146 | 536 | | 1 | 14.7 | 0.0 | 6.0 | * |
| Sep 28 | | | 269 | 234 | 30 | 5 | | 4,754 | 847 | | 0 | 13.4 | 0.0 | * | * |
| Sep 29 | | | 524 | 413 | 56 | 2 | | 5,716 | 1024 | | 0 | 12.7 | 0.0 | 6.0 | * |
| Sep 30 | | | 264 | 206 | 8 | 0 | | 2,102 | 382 | | 0 | 17.1 | 0.0 | * | * |
| TOTAL | | | 7,343 | 4,766 | 527 | 91 | | 63,517 | 11,106 | | 21 | | | | |
| AVG. | | | 245 | 159 | 18 | 3 | | 2,117 | 370 | | 1 | 17.8 | 0.2 | 6.0 | 66.2 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,960 | 7,227 |
| SUMMER | 7,898 | 2,861 |
| FALL | 7,916 | 4,840 |
| TOTALS | 39,774 | 14,928 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 527 | 91 | 37 | 72,779 | 13,013 | 6 | 67 |

TABLE 113

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LITTLE GOOSE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 241 | 420 | 34 | 0 | | 3,669 | 598 | | 0 | 17.5 | 0.0 | * | * |
| Oct 2 | | | 246 | 337 | 38 | 4 | | 5,496 | 908 | | 0 | 19.2 | 0.0 | 5.0 | 62.6 |
| Oct 3 | | | 407 | 438 | 54 | 5 | | 5,200 | 960 | | 0 | 19.0 | 0.0 | * | * |
| Oct 4 | | | 128 | 251 | 60 | 11 | | 4,264 | 700 | | 1 | 19.6 | 0.0 | 6.0 | 61.9 |
| Oct 5 | | | 79 | 167 | 58 | 8 | | 3,249 | 565 | | 0 | 15.0 | 0.0 | 6.0 | 61.7 |
| Oct 6 | | | 96 | 164 | 94 | 10 | | 3,015 | 526 | | 0 | 18.7 | 0.0 | * | * |
| Oct 7 | | | 118 | 155 | 66 | 7 | | 2,778 | 526 | | 0 | 17.9 | 0.0 | * | * |
| Oct 8 | | | 100 | 187 | 72 | 2 | | 3,299 | 576 | | 1 | 18.4 | 0.0 | * | * |
| Oct 9 | | | 62 | 91 | 53 | 4 | | 1,817 | 310 | | 0 | 19.9 | 0.0 | 6.0 | 61.2 |
| Oct 10 | | | 86 | 85 | 68 | 5 | | 2,779 | 516 | | 2 | 22.1 | 0.0 | * | * |
| Oct 11 | | | 106 | 98 | 97 | 1 | | 3,036 | 560 | | 0 | 25.2 | 0.0 | 6.0 | 60.5 |
| Oct 12 | | | 72 | 64 | 100 | 5 | | 2,116 | 359 | | 0 | 16.1 | 0.0 | * | * |
| Oct 13 | | | 32 | 62 | 161 | 12 | | 2,591 | 462 | | 0 | 18.8 | 0.0 | 6.0 | 60.2 |
| Oct 14 | | | 35 | 35 | 110 | 6 | | 2,400 | 378 | | 0 | 16.6 | 0.0 | * | * |
| Oct 15 | | | 36 | 49 | 58 | 1 | | 1,365 | 235 | | 0 | 16.6 | 0.0 | * | * |
| Oct 16 | | | 49 | 46 | 40 | 0 | | 1,253 | 187 | | 0 | 15.5 | 0.0 | 6.0 | 60.2 |
| Oct 17 | | | 41 | 41 | 34 | 1 | | 1,116 | 160 | | 0 | 17.8 | 0.0 | * | * |
| Oct 18 | | | 24 | 25 | 29 | 0 | | 752 | 120 | | 0 | 18.6 | 0.0 | 6.0 | 59.5 |
| Oct 19 | | | 68 | 66 | 35 | 0 | | 1,493 | 288 | | 0 | 13.6 | 0.0 | 6.0 | 59.4 |
| Oct 20 | | | 73 | 36 | 18 | 0 | | 1,594 | 292 | | 1 | 15.8 | 0.0 | * | * |
| Oct 21 | | | 61 | 35 | 20 | 1 | | 1,495 | 254 | | 0 | 19.6 | 0.0 | * | * |
| Oct 22 | | | 34 | 17 | 8 | 1 | | 864 | 160 | | 0 | 23.9 | 0.0 | * | * |
| Oct 23 | | | 41 | 43 | 7 | 0 | | 915 | 140 | | 0 | 21.6 | 0.0 | * | * |
| Oct 24 | | | 61 | 94 | 5 | 1 | | 668 | 120 | | 0 | 17.6 | 0.0 | 6.0 | 58.0 |
| Oct 25 | | | 53 | 24 | 2 | 1 | | 814 | 143 | | 0 | 19.7 | 0.0 | 6.0 | 57.2 |
| Oct 26 | | | 36 | 26 | 22 | 0 | | 619 | 95 | | 0 | 24.0 | 0.0 | * | * |
| Oct 27 | | | 42 | 40 | 18 | 0 | | 1,042 | 180 | | 0 | 16.6 | 0.0 | 6.0 | 56.7 |
| Oct 28 | | | 31 | 32 | 24 | 0 | | 1,019 | 187 | | 0 | 12.8 | 0.0 | * | * |
| Oct 29 | | | 19 | 24 | 18 | 1 | | 563 | 107 | | 0 | 18.8 | 0.0 | * | * |
| Oct 30 | | | 11 | 17 | 25 | 0 | | 874 | 188 | | 0 | 18.2 | 0.0 | 6.0 | 56.0 |
| Oct 31 | | | 16 | 23 | 8 | 0 | | 480 | 92 | | 0 | 17.3 | 0.0 | * | * |
| TOTAL | | | 2,504 | 3,192 | 1,436 | 87 | | 62,635 | 10,892 | | 5 | | | | |
| AVG. | | | 81 | 103 | 46 | 3 | | 2,020 | 351 | | 0 | 18.5 | 0.0 | 5.9 | 59.6 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 23,960 | 7,227 |
| SUMMER | 7,898 | 2,861 |
| FALL | 10,420 | 8,032 |
| TOTALS | 42,278 | 18,120 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 1,963 | 178 | 37 | 135,414 | 23,905 | 6 | 72 |

TABLE 114

**DISCHARGE AND WATER QUALITY DATA**

**LITTLE GOOSE PROJECT 2007**

**NOVEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Nov 1 | 17.8 | 0.0 | * | * |
| Nov 2 | 18.2 | 0.0 | * | * |
| Nov 3 | 15.7 | 0.0 | 6.0 | * |
| Nov 4 | 15.4 | 0.0 | * | * |
| Nov 5 | 18.4 | 0.0 | 6.0 | 54.7 |
| Nov 6 | 13.2 | 0.0 | * | * |
| Nov 7 | 17.4 | 0.0 | * | * |
| Nov 8 | 16.8 | 0.0 | 6.0 | 53.9 |
| Nov 9 | 16.4 | 0.0 | * | * |
| Nov 10 | 17.5 | 0.0 | * | * |
| Nov 11 | 16.4 | 0.0 | * | * |
| Nov 12 | 16.8 | 0.0 | * | * |
| Nov 13 | 16.5 | 0.0 | 6.0 | 52.4 |
| Nov 14 | 14.4 | 0.0 | 6.0 | 51.8 |
| Nov 15 | 15.3 | 0.0 | 6.0 | 51.5 |
| Nov 16 | 17.8 | 0.0 | * | * |
| Nov 17 | 18.6 | 0.0 | * | * |
| Nov 18 | 24.2 | 0.0 | 6.0 | 50.6 |
| Nov 19 | 23.6 | 0.0 | * | * |
| Nov 20 | 26.9 | 0.0 | 6.0 | 49.6 |
| Nov 21 | 25.1 | 0.0 | 6.0 | 49.0 |
| Nov 22 | 22.6 | 0.0 | * | * |
| Nov 23 | 20.7 | 0.0 | * | * |
| Nov 24 | 18.7 | 0.0 | * | * |
| Nov 25 | 20.2 | 0.0 | * | * |
| Nov 26 | 23.5 | 0.0 | 5.3 | 46.8 |
| Nov 27 | 16.3 | 0.0 | * | * |
| Nov 28 | 17.2 | 0.0 | 6.0 | 45.9 |
| Nov 29 | 17.8 | 0.0 | 6.0 | 45.7 |
| Nov 30 | 19.7 | 0.0 | * | * |
| AVG. | 18.6 | 0.0 | 5.9 | 50.2 |

**DECEMBER**

| DATE | DISCH KCFS | SPILL KCFS | TURBIDITY SECCHI | TURBIDITY DEG F |
|---|---|---|---|---|
| Dec 1 | 16.8 | 0.0 | * | * |
| Dec 2 | 15.9 | 0.0 | * | * |
| Dec 3 | 18.1 | 0.0 | 6.0 | 44.5 |
| Dec 4 | 21.0 | 0.0 | * | * |
| Dec 5 | 30.9 | 0.0 | * | * |
| Dec 6 | 24.7 | 0.0 | 6.0 | 44.2 |
| Dec 7 | 24.2 | 0.0 | 6.0 | 44.1 |
| Dec 8 | 19.3 | 0.0 | * | * |
| Dec 9 | 21.6 | 0.0 | * | * |
| Dec 10 | 25.5 | 0.0 | 6.0 | 43.3 |
| Dec 11 | 22.3 | 0.0 | 6.0 | 42.8 |
| Dec 12 | 28.2 | 0.0 | * | * |
| Dec 13 | 17.9 | 0.0 | * | * |
| Dec 14 | 18.9 | 0.0 | * | * |
| Dec 15 | 18.8 | 0.0 | * | * |
| Dec 16 | 21.7 | 0.0 | * | * |
| Dec 17 | 21.8 | 0.0 | * | * |
| Dec 18 | 18.3 | 0.0 | 6.0 | 40.1 |
| Dec 19 | 20.4 | 0.0 | 6.0 | 40.0 |
| Dec 20 | 21.8 | 0.0 | 6.0 | 40.0 |
| Dec 21 | 24.9 | 0.0 | * | * |
| Dec 22 | 19.6 | 0.0 | * | * |
| Dec 23 | 18.4 | 0.0 | * | * |
| Dec 24 | 22.8 | 0.0 | * | * |
| Dec 25 | 19.0 | 0.0 | * | * |
| Dec 26 | 18.9 | 0.0 | 6.0 | 40.1 |
| Dec 27 | 25.9 | 0.0 | 6.0 | 39.9 |
| Dec 28 | 17.8 | 0.0 | * | * |
| Dec 29 | 21.0 | 0.0 | * | * |
| Dec 30 | 19.5 | 0.0 | * | * |
| Dec 31 | 22.1 | 0.0 | 6.0 | 38.9 |
| AVG. | 21.2 | 0.0 | 6.0 | 41.6 |

*Data Unavailable

TABLE 115

**YEARLY TOTALS OF SALMONIDS COUNTED OVER LITTLE GOOSE DAM 1970 - 1981, 1991 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS |
|---|---|---|---|---|---|
| 1970 | 72,971 | 59,640 | 163 | 2,480 | 135,254 |
| 1971 | 61,402 | 70,013 | 891 | 2,701 | 135,007 |
| 1972 | 64,211 | 63,638 | 408 | 799 | 129,056 |
| 1973 | 70,605 | 38,820 | 192 | 1,157 | 110,774 |
| 1974 | 26,787 | 14,784 | 124 | 532 | 42,227 |
| 1975 | 26,960 | 15,225 | 173 | 697 | 43,055 |
| 1976 | 32,359 | 20,894 | 644 | 733 | 54,630 |
| 1977 | 49,176 | 47,388 | 574 | 438 | 97,576 |
| 1978 | 56,069 | 24,927 | 168 | 307 | 81,471 |
| 1979 | 12,515 | 21,049 | 72 | 390 | 34,026 |
| 1980 | 10,605 | 38,627 | 88 | 124 | 49,444 |
| 1981 | 19,086 | 38,680 | 200 | 120 | 58,086 |
| ** | | | | | |
| 1991 | 13,737 | 96,830 | 10 | 1 | 110,578 |
| 1992 | 26,746 | 117,698 | 12 | 0 | 144,456 |
| 1993 | 32,384 | 59,740 | 16 | 0 | 92,140 |
| 1994 | 5,457 | 45,815 | 44 | 0 | 51,316 |
| 1995 | 5,061 | 77,744 | 17 | 9 | 82,831 |
| 1996 | 13,538 | 82,203 | 1 | 0 | 95,742 |
| 1997 | 49,664 | 74,219 | 10 | 59 | 123,952 |
| 1998 | 19,798 | 63,753 | 5 | 1 | 83,557 |
| 1999 | 17,235 | 65,471 | 16 | 89 | 82,811 |
| 2000 | 62,886 | 101,030 | 296 | 313 | 164,525 |
| 2001 | 214,726 | 261,132 | 72 | 768 | 476,698 |
| 2002 | 119,429 | 215,251 | 38 | 133 | 334,851 |
| 2003 | 114,458 | 161,026 | 23 | 807 | 276,314 |
| 2004 | 100,998 | 151,406 | 81 | 3,042 | 255,527 |
| 2005 | 46,553 | 143,537 | 13 | 1,992 | 192,095 |
| 2006 | 44,695 | 124,440 | 26 | 972 | 170,133 |
| 2007 | 60,398 | 135,414 | 37 | 2,141 | 197,990 |
| Total | 1,450,509 | 2,430,394 | 4,414 | 20,805 | 3,906,122 |
| 10-Yr Avg | 80,118 | 142,246 | 61 | 1,026 | 223,450 |

***Jacks included**

****1981 was the last year visual counts were made at Little Goose Project until 1991.**

**Includes 2001 extended season counts for November and December 0600-1600 PST.**

**Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.**

**Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.**

TABLE 116

**MONTHLY COUNT OF CHINOOK SALMON**
**LITTLE GOOSE DAM; 1970-1981, 1991-2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1970 | | | | 6,765 | 32,616 | 15,204 | 11,200 | 1,529 | 4,508 | 965 | 178 | 6 | 72,971 |
| 1971 | | | | 133 | 16,012 | 24,096 | 14,473 | 707 | 5,319 | 606 | 55 | 1 | 61,402 |
| 1972 | | | | 2,226 | 37,991 | 5,585 | 14,747 | 1,614 | 1,445 | 576 | 27 | | 64,211 |
| 1973 | | | | 17,490 | 34,570 | 10,661 | 4,344 | 520 | 2,472 | 528 | 19 | 1 | 70,605 |
| 1974 | | | | 136 | 14,224 | 4,451 | 6,213 | 556 | 749 | 449 | 9 | | 26,787 |
| 1975 | | | | 152 | 14,161 | 6,487 | 4,182 | 540 | 1,143 | 295 | | | 26,960 |
| 1976 | | | | 612 | 17,403 | 9,470 | 3,575 | 302 | 642 | 355 | | | 32,359 |
| 1977 | | | | 16,973 | 19,936 | 6,707 | 4,181 | 182 | 842 | 355 | | | 49,176 |
| 1978 | | | | 8,190 | 29,195 | 10,676 | 6,172 | 717 | 621 | 498 | | | 56,069 |
| 1979 | | | | 947 | 4,436 | 4,396 | 1,391 | 254 | 802 | 289 | | | 12,515 |
| 1980 | | | | 508 | 5,250 | 2,560 | 1,488 | 191 | 368 | 240 | | | 10,605 |
| 1981 ** | | | | 2,798 | 9,399 | 3,214 | 2,217 | 108 | 724 | 626 | | | 19,086 |
| 1991 | | | | 469 | 4,968 | 5,066 | 1,949 | 85 | 715 | 394 | 91 | | 13,737 |
| 1992 | | | | 8,000 | 11,108 | 4,932 | 1,217 | 94 | 959 | 331 | 105 | | 26,746 |
| 1993 | | | | 2,032 | 16,308 | 10,018 | 2,425 | 241 | 989 | 317 | 54 | | 32,384 |
| 1994 | | | | 294 | 2,307 | 1,281 | 282 | 98 | 540 | 610 | 45 | | 5,457 |
| 1995 | | | | 82 | 1,117 | 1,041 | 481 | 146 | 1,179 | 1,015 | | | 5,061 |
| 1996 | | | | 57 | 4,872 | 4,695 | 1,450 | 280 | 1,572 | 612 | | | 13,538 |
| 1997 | | | | 519 | 26,980 | 16,769 | 3,007 | 296 | 1,302 | 791 | | | 49,664 |
| 1998 | | | | 1,327 | 6,787 | 5,655 | 1,422 | 207 | 2,020 | 2,380 | | | 19,798 |
| 1999 | | | | 73 | 3,990 | 4,878 | 1,937 | 432 | 3,787 | 2,138 | | | 17,235 |
| 2000 | | | | 7,510 | 31,034 | 11,091 | 2,680 | 749 | 5,148 | 4,674 | | | 62,886 |
| 2001 | | | | 96,386 | 61,247 | 31,686 | 6,792 | 1,082 | 12,222 | 4,953 | 356 | 2 | 214,726 |
| 2002 | | | 1 | 1,807 | 60,391 | 32,782 | 6,846 | 1,493 | 12,631 | 3,374 | 96 | 8 | 119,429 |
| 2003 | | | 2 | 32,082 | 29,615 | 26,129 | 5,838 | 829 | 14,048 | 5,917 | 433 | 9 | 114,902 |
| 2004 | | | | 21,955 | 34,443 | 16,941 | 3,946 | 473 | 19,087 | 3,888 | 264 | 1 | 100,998 |
| 2005 | | | | 599 | 16,952 | 11,484 | 3,638 | 679 | 10,362 | 2,839 | | | 46,553 |
| 2006 | | | | 10 | 14,632 | 10,859 | 4,432 | 1,108 | 9,228 | 4,426 | | | 44,695 |
| 2007 | | | | 998 | 21,050 | 14,741 | 4,650 | 1,154 | 12,109 | 5,696 | | | 60,398 |
| Total | | | 3 | 231,130 | 582,994 | 313,555 | 127,175 | 16,666 | 127,533 | 50,137 | 1,732 | 28 | 1,450,953 |
| 10-Year Average | | | | 16,275 | 28,014 | 16,625 | 4,218 | 821 | 10,064 | 4,029 | | | 80,162 |

**1981 was the last year visual counts were made at Little Goose Project until 1991.
*Jacks included
Includes 2001 extended season counts for November and December 0600-1600 PST.
Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November a December 0600-1600 PST.

TABLE 117

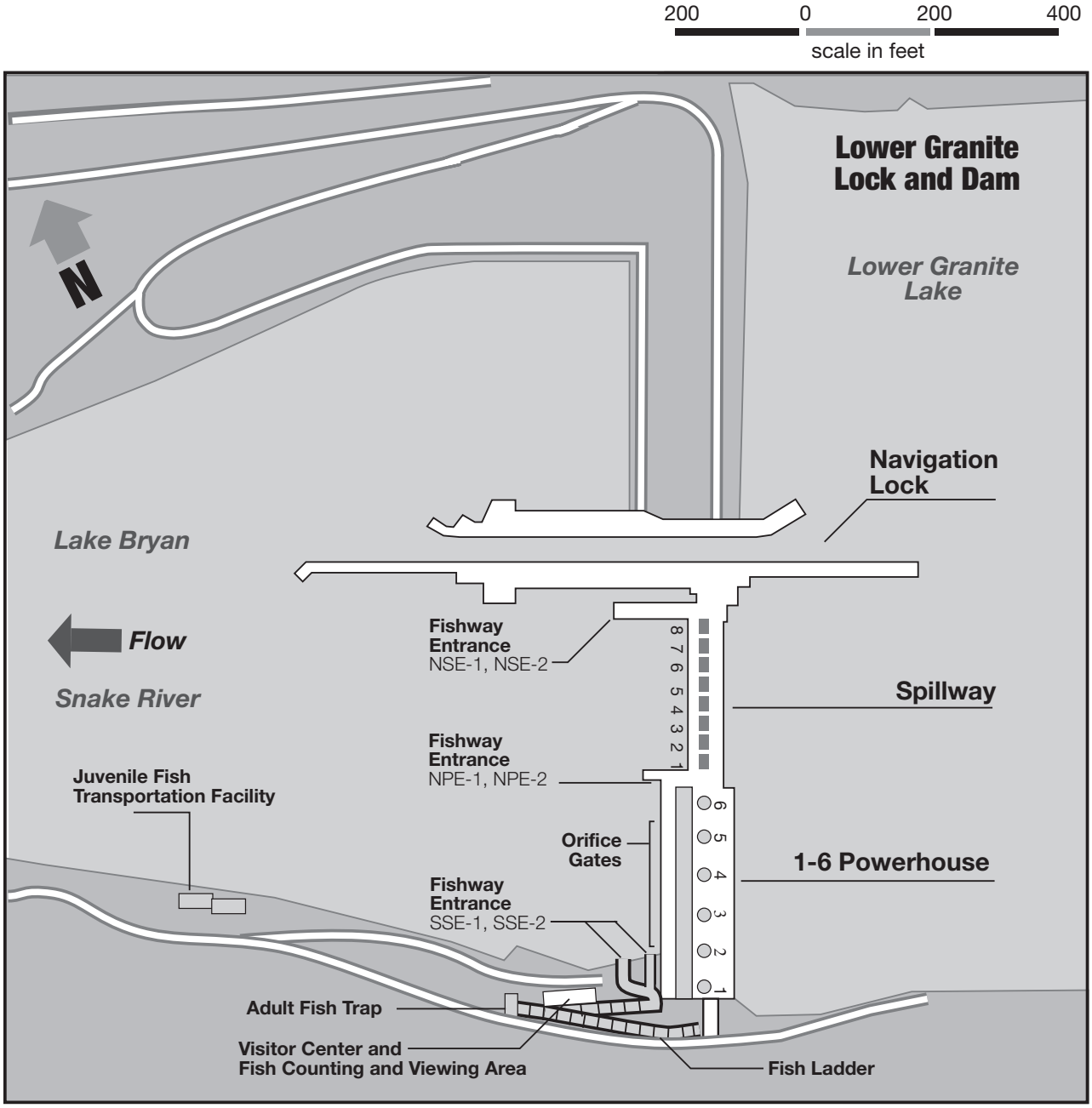
**MONTHLY COUNT OF STEELHEAD**
**LITTLE GOOSE DAM**

**1970 - 1981, 1991 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1970 | | | 3,346 | 4,148 | 1,762 | 167 | 1,485 | 7,487 | 27,898 | 11,931 | 1,136 | 280 | 59,640 |
| 1971 | | | 586 | 1,968 | 1,319 | 85 | 1,286 | 3,337 | 38,988 | 19,674 | 2,161 | 609 | 70,013 |
| 1972 | 248 | 251 | 943 | 2,565 | 720 | 54 | 1,209 | 6,637 | 25,089 | 24,323 | 1,258 | 341 | 63,638 |
| 1973 | 133 | 80 | 1,029 | 2,051 | 829 | 65 | 1,249 | 2,856 | 16,650 | 12,420 | 1,129 | 319 | 38,810 |
| 1974 | 191 | 294 | 543 | 1,105 | 278 | 5 | 726 | 2,203 | 3,970 | 4,721 | 583 | 165 | 14,784 |
| 1975 | 96 | 75 | 70 | 732 | 472 | 16 | 390 | 3,433 | 6,230 | 3,711 | | | 15,225 |
| 1976 | | | | 1,052 | 345 | 133 | 678 | 3,556 | 8,988 | 6,142 | | | 20,894 |
| 1977 | | | | 1,340 | 272 | 155 | 1,951 | 2,738 | 18,753 | 22,179 | | | 47,388 |
| 1978 | | | | 1,625 | 216 | 20 | 593 | 2,617 | 11,547 | 8,309 | | | 24,927 |
| 1979 | | | | 742 | 222 | 16 | 1,614 | 2,326 | 5,278 | 10,851 | | | 21,049 |
| 1980 | | | | 3,063 | 668 | 43 | 821 | 3,858 | 15,305 | 14,869 | | | 38,627 |
| 1981 ** | | | | 1,360 | 424 | 119 | 1,740 | 2,024 | 11,559 | 21,454 | | | 38,680 |
| 1991 | | | | 804 | 266 | 99 | 1,637 | 559 | 31,818 | 53,734 | 7,913 | | 96,830 |
| 1992 | | | | 472 | 189 | 141 | 997 | 2,652 | 54,585 | 48,870 | 9,792 | | 117,698 |
| 1993 | | | | 1,569 | 343 | 322 | 3,601 | 5,891 | 12,770 | 32,357 | 2,887 | | 59,740 |
| 1994 | | | | 771 | 148 | 162 | 1,522 | 2,239 | 8,828 | 25,830 | 6,315 | | 45,815 |
| 1995 | | | | 1,130 | 232 | 107 | 1,644 | 5,743 | 31,493 | 37,395 | | | 77,744 |
| 1996 | | | | 936 | 99 | 105 | 1,489 | 7,560 | 40,468 | 31,546 | | | 82,203 |
| 1997 | | | | 1,208 | 197 | 92 | 1,919 | 6,629 | 25,883 | 38,291 | | | 74,219 |
| 1998 | | | | 1,924 | 107 | 139 | 1,090 | 912 | 12,939 | 46,642 | | | 63,753 |
| 1999 | | | | 841 | 78 | 61 | 1,796 | 7,444 | 33,818 | 21,433 | | | 65,471 |
| 2000 | | | | 841 | 112 | 384 | 3,355 | 5,361 | 54,244 | 36,733 | | | 101,030 |
| 2001 | | | | 1,818 | 179 | 1,505 | 9,814 | 17,590 | 111,452 | 90,311 | 20,313 | 8150 | 261,132 |
| 2002 | | 1,387 | 3,342 | 5,873 | 294 | 455 | 5,853 | 21,066 | 86,596 | 83,357 | 5,483 | 1545 | 215,251 |
| 2003 | 310 | 2,067 | 6,744 | 2,001 | 109 | 586 | 4,741 | 6,701 | 81,173 | 65,715 | 5,020 | 1026 | 176,193 |
| 2004 | 106 | 911 | 2,702 | 1,814 | 87 | 524 | 3,133 | 4,118 | 83,925 | 48,491 | 4,326 | 1269 | 151,406 |
| 2005 | | | | 896 | 128 | 494 | 2,528 | 5,165 | 62,611 | 71,715 | | | 143,537 |
| 2006 | | | | 2,569 | 120 | 129 | 978 | 3,547 | 54,727 | 62,370 | | | 124,440 |
| 2007 | | | | 2,096 | 205 | 339 | 2,062 | 4,560 | 63,517 | 62,635 | | | 135,414 |
| Total | 1,084 | 5,065 | 19,305 | 49,314 | 10,420 | 6,522 | 61,901 | 150,809 | 1,041,102 | 1,018,009 | 68,316 | 13,704 | 2,445,551 |
| 10-Year Average | | | | 2,067 | 142 | 462 | 3,535 | 7,646 | 64,500 | 58,940 | | | 143,763 |

** 1981 was the last year visual counts were made at Little Goose Project until 1991.
Includes 2001 extended season counts for November and December 0600-1600 PST.
Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

# Plate 9 Lower Granite Lock and Dam



# LOWER GRANITE DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| 1 Jan -28 Feb | No counting. |
| 1 Mar – 31 Mar | Video counting daily 0600 – 1600 hours PST. |
| 1 Apr – 31 Oct | Visual counting daily 0400 – 2000 hours PST. |
| 15 Jun – 31 Aug | Video counting daily 2000 – 0400 hours PST. |
| 1 Nov – 15 Dec | Video counting daily 0600 – 1600 hours PST. |
| 16 Dec- 31 Dec | No counting. |

## FISH LADDER OPERATING SCHEDULE

***Project Ladder***

| | |
|---|---|
| 1 Jan – 3 Jan | Ladder in service |
| 4 Jan – 25 Feb | Ladder dewatered for annual maintenance. |
| 26 Feb – 31 Dec | Ladder in service |

## FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pool and the downstream end of the primary dewaterer. Hourly readings were recorded from 23 June to 30 September.

Adult fish trap was operated from 2 March through 20 November whenever water temperatures allowed. The trap was shut down due to high water temperatures on 23 July and remained out of service through 31 August. The trap was used for the following programs and studies: 1) monitoring of steelhead from 1 March to 30 April at a 13% sample rate and taking scales for hatchery/wild determination; 2) monitoring spring and summer Chinook salmon at a 10% sample rate from 1 May to 23 July for gill net marks, marine mammal scars, tags, age, hatchery/wild determination, and genetics; 3) examination of adult American shad during the early, middle, and late part of the runs (June – July) to determine run composition; 4) monitoring fall Chinook salmon and steelhead at a 20% sample rate from 1 September to 21 November including: trucking supplementation fall Chinook salmon brood stock to Lyons Ferry and Cherry Lane Hatcheries, examining steelhead for run determination and condition, taking scale samples from one of every six steelhead, and radio-tagging of unclipped B-Run steelhead greater than 77 cm in length by group (with and without v.i.e.tags) for the USFWS at Dworshak.

The juvenile fish facility was operated for fish transport/bypass from 25 March to 31 October and for monitoring of adult fallback from 25 March to 31 December due to navlock problems preventing removal of all fish screens.

TABLE 118

**MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LOWER GRANITE DAM 2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | 1 | 531 | 19,516 | 16,994 | 4,921 | 1,200 | 12,720 | 6,428 | 217 | 2 | 62,530 |
| STEELHEAD | | | 6,894 | 3,477 | 211 | 271 | 1,504 | 3,792 | 58,983 | 71,535 | 8,269 | 2,409 | 157,345 |
| SOCKEYE | | | | | | 8 | 45 | | | -1 | | | 52 |
| COHO* | | | | | | | | | 542 | 2,173 | 83 | | 2,798 |
| PINK | | | | | | | | | | | | | |
| TOTAL | | | 6,895 | 4,008 | 19,727 | 17,273 | 6,470 | 4,992 | 72,245 | 80,135 | 8,569 | 2,411 | 222,725 |
| SHAD | | | | 0 | 2 | 5,588 | 15,216 | 527 | 28 | 25 | | | 21,386 |
| LAMPREY | | | | 1 | 1 | 1 | 7 | 20 | 5 | -1 | | | 34 |
| STURGEON | | | | | | | | | | | | | 0 |
| BULL TROUT | | | | 2 | 2 | 4 | | | | | | | 8 |

***Jacks included**

**These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in November and December.**

TABLE 119

**DISCHARGE AND WATER DATA**

**LOWER GRANITE PROJECT 2007**

**JANUARY**

| | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | * DEG F |
|---|---|---|---|---|
| Jan 1 | 27.4 | 0.0 | | |
| Jan 2 | 27.0 | 0.0 | | |
| Jan 3 | 28.8 | 0.0 | | |
| Jan 4 | 31.0 | 0.0 | | |
| Jan 5 | 34.7 | 0.0 | | |
| Jan 6 | 31.0 | 0.0 | | |
| Jan 7 | 32.5 | 0.0 | | |
| Jan 8 | 31.0 | 0.0 | | |
| Jan 9 | 38.9 | 0.0 | | |
| Jan 10 | 30.8 | 0.0 | | |
| Jan 11 | 37.4 | 0.0 | | |
| Jan 12 | 39.6 | 0.0 | | |
| Jan 13 | 36.1 | 0.0 | | |
| Jan 14 | 37.7 | 0.0 | | |
| Jan 15 | 32.1 | 0.0 | | |
| Jan 16 | 34.8 | 0.0 | | |
| Jan 17 | 34.9 | 0.0 | | |
| Jan 18 | 34.6 | 0.0 | | |
| Jan 19 | 30.4 | 0.0 | | |
| Jan 20 | 18.4 | 0.0 | | |
| Jan 21 | 20.6 | 0.0 | | |
| Jan 22 | 33.2 | 0.0 | | |
| Jan 23 | 30.2 | 0.0 | | |
| Jan 24 | 26.7 | 0.0 | | |
| Jan 25 | 26.5 | 0.0 | | |
| Jan 26 | 22.7 | 0.0 | | |
| Jan 27 | 20.9 | 0.0 | | |
| Jan 28 | 16.5 | 0.0 | | |
| Jan 29 | 29.6 | 0.0 | | |
| Jan 30 | 21.8 | 0.0 | | |
| Jan 31 | 27.8 | 0.0 | | |
| AVG. | 29.9 | 0.0 | | |

**FEBRUARY**

| | DISCH KCFS | SPILL KCFS | *TURBIDITY SECCHI | * DEG F |
|---|---|---|---|---|
| Feb 1 | 28.4 | 0.0 | | |
| Feb 2 | 29.3 | 0.0 | | |
| Feb 3 | 25.8 | 0.0 | | |
| Feb 4 | 21.4 | 0.0 | | |
| Feb 5 | 21.3 | 0.0 | | |
| Feb 6 | 17.0 | 0.0 | | |
| Feb 7 | 24.1 | 0.0 | | |
| Feb 8 | 19.6 | 0.0 | | |
| Feb 9 | 18.2 | 0.0 | | |
| Feb 10 | 25.2 | 0.0 | | |
| Feb 11 | 22.3 | 0.0 | | |
| Feb 12 | 25.8 | 0.0 | | |
| Feb 13 | 33.7 | 0.0 | | |
| Feb 14 | 34.7 | 0.0 | | |
| Feb 15 | 31.6 | 0.0 | | |
| Feb 16 | 45.5 | 0.0 | | |
| Feb 17 | 42.2 | 0.0 | | |
| Feb 18 | 35.1 | 0.0 | | |
| Feb 19 | 38.8 | 0.0 | | |
| Feb 20 | 34.2 | 0.0 | | |
| Feb 21 | 43.0 | 0.0 | | |
| Feb 22 | 30.5 | 0.0 | | |
| Feb 23 | 37.9 | 0.0 | | |
| Feb 24 | 33.6 | 0.0 | | |
| Feb 25 | 29.9 | 0.0 | | |
| Feb 26 | 32.5 | 0.0 | | |
| Feb 27 | 33.7 | 0.0 | | |
| Feb 28 | 24.6 | 0.0 | | |
| AVG. | 30.0 | 0.0 | | |

***Data unavailable.**

TABLE 120

**MONTHLY FISH PASSAGE SUMMARY REPORT** | **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** | **MARCH 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Mar 1 | 0 | | | | | | | 76 | 5 | | | | 29.6 | 0.0 | * | * |
| Mar 2 | 0 | | | | | | | 61 | 3 | | | | 26.2 | 0.0 | * | * |
| Mar 3 | 0 | | | | | | | 39 | 3 | | | | 29.2 | 0.0 | * | * |
| Mar 4 | 0 | | | | | | | 110 | 13 | | | | 24.0 | 0.0 | * | * |
| Mar 5 | 0 | | | | | | | 83 | 12 | | | | 27.5 | 0.0 | 4.5 | 49.7 |
| Mar 6 | 0 | | | | | | | 58 | 6 | | | | 22.4 | 0.0 | 4.0 | 49.8 |
| Mar 7 | 0 | | | | | | | 48 | 6 | | | | 25.6 | 0.0 | 4.0 | 49.8 |
| Mar 8 | 0 | | | | | | | 61 | 5 | | | | 28.6 | 0.0 | 4.3 | 49.7 |
| Mar 9 | 0 | | | | | | | 71 | 8 | | | | 39.1 | 0.0 | * | * |
| Mar 10 | 0 | | | | | | | 42 | 4 | | | | 31.9 | 0.0 | * | * |
| Mar 11 | 0 | | | | | | | 103 | 15 | | | | 31.7 | 0.0 | * | * |
| Mar 12 | 0 | | | | | | | 302 | 46 | | | | 39.2 | 0.3 | 3.8 | 51.1 |
| Mar 13 | 0 | | | | | | | 299 | 36 | | | | 54.7 | 0.0 | * | * |
| Mar 14 | 0 | | | | | | | 191 | 21 | | | | 56.0 | 0.0 | * | * |
| Mar 15 | 0 | | | | | | | 336 | 37 | | | | 54.4 | 0.0 | * | * |
| Mar 16 | 0 | | | | | | | 413 | 50 | | | | 46.7 | 0.0 | * | * |
| Mar 17 | 0 | | | | | | | 282 | 35 | | | | 47.6 | 0.0 | * | * |
| Mar 18 | 0 | | | | | | | 355 | 56 | | | | 47.8 | 0.0 | * | * |
| Mar 19 | 0 | | | | | | | 178 | 31 | | | | 53.6 | 0.8 | 3.0 | 48.0 |
| Mar 20 | 0 | | | | | | | 291 | 45 | | | | 55.6 | 0.0 | 4.2 | 48.0 |
| Mar 21 | 0 | | | | | | | 282 | 48 | | | | 64.6 | 0.0 | 4.6 | 48.0 |
| Mar 22 | 0 | | | | | | | 316 | 53 | | | | 55.9 | 0.0 | 3.3 | 49.5 |
| Mar 23 | 0 | | | | | | | 403 | 76 | | | | 55.2 | 0.0 | * | 46.7 |
| Mar 24 | 0 | | | | | | | 304 | 52 | | | | 45.8 | 0.0 | * | * |
| Mar 25 | 0 | | | | | | | 230 | 44 | | | | 46.0 | 0.0 | 3.8 | 48.5 |
| Mar 26 | 0 | | | | | | | 244 | 45 | | | | 56.5 | 0.0 | 3.3 | 48.0 |
| Mar 27 | 1 | | | | | | | 186 | 30 | | | | 65.3 | 20.4 | 3.8 | 49.2 |
| Mar 28 | 0 | | | | | | | 381 | 81 | | | | 58.0 | 15.6 | 3.0 | 49.0 |
| Mar 29 | 0 | | | | | | | 305 | 60 | | | | 54.8 | 17.7 | * | 45.6 |
| Mar 30 | 0 | | | | | | | 472 | 76 | | | | 55.3 | 9.6 | 4.2 | 49.0 |
| Mar 31 | 0 | | | | | | | 372 | 54 | | | | 50.3 | 3.4 | 4.0 | 48.0 |
| TOTAL | 1 | | | | | | | 6,894 | 1,056 | | | | | | | |
| AVG. | 0 | | | | | | | 222 | 34 | | | | 44.5 | 2.2 | 3.9 | 48.1 |

*Data unavailable

Note: March counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST.

TABLE 121

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | 0 | | | 0 | | | | 409 | 119 | | 1 | 0 | 39.9 | 0.0 | 4.4 | 48.0 |
| Apr 2 | 0 | | | 0 | | | | 316 | 100 | | 0 | 0 | 51.8 | 0.0 | 4.4 | 48.0 |
| Apr 3 | 0 | | | 0 | | | | 279 | 91 | | 0 | 0 | 42.0 | 19.9 | 3.1 | 46.0 |
| Apr 4 | 0 | | | 0 | | | | 264 | 89 | | 0 | 1 | 38.2 | 19.8 | 3.1 | 46.3 |
| Apr 5 | 1 | | | 0 | | | | 182 | 62 | | 0 | 0 | 36.6 | 20.0 | 3.1 | 46.5 |
| Apr 6 | 0 | | | 0 | | | | 174 | 58 | | 0 | 0 | 34.4 | 20.1 | 4.6 | 50.0 |
| Apr 7 | 0 | | | 0 | | | | 134 | 50 | | 0 | 0 | 35.6 | 20.1 | 4.6 | 50.0 |
| Apr 8 | 0 | | | 0 | | | | 246 | 67 | | 0 | 0 | 39.0 | 20.1 | 4.4 | 50.0 |
| Apr 9 | 0 | | | 0 | | | | 144 | 54 | | 0 | 0 | 46.1 | 20.1 | 4.6 | 51.0 |
| Apr 10 | 0 | | | 0 | | | | 168 | 50 | | 0 | 1 | 50.9 | 20.1 | 3.8 | 53.0 |
| Apr 11 | 0 | | | 0 | | | | 163 | 61 | | 0 | 0 | 48.7 | 20.0 | 4.8 | 50.9 |
| Apr 12 | 0 | | | 0 | | | | 123 | 31 | | 0 | 0 | 50.1 | 20.0 | 4.7 | 50.9 |
| Apr 13 | 1 | | | 0 | | | | 127 | 61 | | 0 | 0 | 50.0 | 20.0 | 4.4 | 54.0 |
| Apr 14 | 0 | | | 0 | | | | 119 | 43 | | 0 | 0 | 47.2 | 19.8 | 4.4 | 53.0 |
| Apr 15 | 0 | | | 0 | | | | 67 | 24 | | 0 | 0 | 45.2 | 20.0 | 4.6 | 53.0 |
| Apr 16 | 0 | | | 0 | | | | 87 | 37 | | 0 | 0 | 49.5 | 20.0 | * | 48.3 |
| Apr 17 | 0 | | | 0 | | | | 80 | 26 | | 0 | 0 | 48.1 | 19.8 | 4.0 | 48.4 |
| Apr 18 | 0 | | | 0 | | | | 50 | 19 | | 0 | 0 | 46.5 | 20.0 | * | 48.8 |
| Apr 19 | 0 | | | 0 | | | | 63 | 34 | | 0 | 0 | 47.8 | 20.0 | 5.3 | 49.2 |
| Apr 20 | 0 | | | 0 | | | | 48 | 14 | | 0 | 0 | 46.3 | 20.0 | 4.2 | 53.0 |
| Apr 21 | 2 | | | 0 | | | | 49 | 26 | | 0 | 0 | 47.4 | 19.9 | 4.4 | 53.0 |
| Apr 22 | 1 | | | 0 | | | | 21 | 7 | | 0 | 0 | 45.3 | 20.0 | 4.6 | 53.0 |
| Apr 23 | 12 | | | 0 | | | | 24 | 7 | | 0 | 0 | 46.1 | 20.0 | 6.0 | 48.2 |
| Apr 24 | 6 | | | 1 | | | | 22 | 8 | | 0 | 0 | 45.8 | 19.9 | 6.0 | 48.5 |
| Apr 25 | 8 | | | 1 | | | | 20 | 12 | | 0 | 0 | 48.9 | 19.9 | 6.0 | 48.7 |
| Apr 26 | 22 | | | 4 | | | | 26 | 12 | | 0 | 0 | 51.6 | 20.0 | 6.0 | 49.2 |
| Apr 27 | 35 | | | 0 | | | | 22 | 11 | | 0 | 0 | 53.8 | 19.9 | 5.0 | 54.0 |
| Apr 28 | 73 | | | 0 | | | | 15 | 7 | | 0 | 0 | 55.8 | 19.8 | 6.0 | 54.0 |
| Apr 29 | 155 | | | 0 | | | | 18 | 11 | | 0 | 0 | 61.0 | 19.9 | 5.2 | 55.0 |
| Apr 30 | 208 | | | 1 | | | | 17 | 6 | | 0 | 0 | 71.8 | 20.0 | 5.2 | 51.5 |
| TOTAL | 524 | | | 7 | | | | 3,477 | 1,197 | | 1 | 2 | | | | |
| AVG. | 17 | | | 0 | | | | 116 | 40 | | | | 47.4 | 18.6 | 4.7 | 50.4 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|
| | 525 | 7 | 10,371 | 2,253 | 1 | 2 |

**Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between 0400-2000 PST.**

TABLE 122

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 228 | | | 6 | | | | 17 | 11 | 0 | 0 | 0 | 83.0 | 19.9 | 5.2 | 52.6 |
| May 2 | 347 | | | 10 | | | | 14 | 7 | 0 | 0 | 0 | 88.5 | 20.0 | * | 52.9 |
| May 3 | 352 | | | 13 | | | | 10 | 8 | 0 | 0 | 0 | 94.0 | 20.0 | 5.0 | 52.5 |
| May 4 | 212 | | | 8 | | | | 13 | 8 | 0 | 0 | 0 | 88.8 | 20.0 | 4.2 | 55.0 |
| May 5 | 724 | | | 35 | | | | 23 | 19 | 0 | 0 | 0 | 80.9 | 19.9 | 4.0 | 54.0 |
| May 6 | 802 | | | 30 | | | | 16 | 11 | 0 | 0 | 0 | 71.3 | 20.0 | 4.0 | 54.0 |
| May 7 | 512 | | | 44 | | | | 14 | 13 | 0 | 0 | 0 | 67.3 | 19.9 | 4.0 | 49.1 |
| May 8 | 654 | | | 62 | | | | 14 | 10 | 0 | 0 | 0 | 65.9 | 19.9 | 4.7 | 49.3 |
| May 9 | 968 | | | 116 | | | | 10 | 8 | 0 | 0 | 0 | 69.0 | 19.8 | * | 49.6 |
| May 10 | 510 | | | 113 | | | | 11 | 7 | 0 | 0 | 0 | 78.0 | 19.8 | 5.1 | 51.2 |
| May 11 | 808 | | | 137 | | | | 8 | 7 | 0 | 0 | 0 | 93.2 | 19.8 | * | 53.5 |
| May 12 | 906 | | | 173 | | | | 11 | 6 | 0 | 0 | 0 | 93.3 | 19.8 | 5.0 | 58.0 |
| May 13 | 727 | | | 233 | | | | 7 | 2 | 0 | 0 | 0 | 100.9 | 19.9 | 4.6 | 58.0 |
| May 14 | 528 | | | 198 | | | | 6 | 6 | 0 | 0 | 0 | 99.2 | 19.7 | 5.0 | 53.8 |
| May 15 | 931 | | | 335 | | | | 9 | 8 | 0 | 0 | 0 | 92.7 | 19.7 | 4.2 | 55.9 |
| May 16 | 679 | | | 242 | | | | 4 | 4 | 0 | 0 | 0 | 90.0 | 19.7 | * | 53.2 |
| May 17 | 313 | | | 337 | | | | 2 | 2 | 0 | 0 | 0 | 85.9 | 19.7 | * | 53.6 |
| May 18 | 553 | | | 488 | | | | 7 | 2 | 0 | 0 | 0 | 92.7 | 19.8 | 4.5 | 54.3 |
| May 19 | 391 | | | 412 | | | | 5 | 5 | 0 | 1 | 1 | 91.1 | 19.8 | 4.4 | 55.0 |
| May 20 | 455 | | | 398 | | | | 1 | 0 | 0 | 0 | 0 | 88.0 | 19.7 | 4.6 | 59.0 |
| May 21 | 175 | | | 378 | | | | 0 | 0 | 0 | 0 | 1 | 87.0 | 19.8 | 4.0 | 55.3 |
| May 22 | 191 | | | 301 | | | | 1 | 1 | 0 | 0 | 0 | 84.8 | 19.8 | 4.3 | 54.6 |
| May 23 | 203 | | | 419 | | | | 0 | 0 | 0 | 0 | 0 | 75.2 | 19.7 | 4.0 | 53.8 |
| May 24 | 157 | | | 334 | | | | 1 | 1 | 0 | 0 | 0 | 74.2 | 19.8 | 5.0 | 53.1 |
| May 25 | 277 | | | 362 | | | | 1 | 1 | 0 | 0 | 0 | 73.1 | 19.9 | 5.6 | 52.7 |
| May 26 | 136 | | | 236 | | | | 2 | 1 | 0 | 0 | 0 | 64.7 | 19.8 | 5.5 | 53.0 |
| May 27 | 95 | | | 203 | | | | 1 | 1 | 1 | 0 | 0 | 58.2 | 19.8 | 6.0 | 57.5 |
| May 28 | 92 | | | 152 | | | | 0 | 0 | 0 | 0 | 0 | 57.5 | 19.9 | 6.0 | 57.0 |
| May 29 | 73 | | | 154 | | | | 0 | 0 | 1 | 0 | 0 | 62.6 | 19.9 | 5.5 | 55.3 |
| May 30 | 107 | | | 202 | | | | 2 | 2 | 0 | 0 | 0 | 58.5 | 19.8 | 5.0 | 55.6 |
| May 31 | 131 | | | 148 | | | | 1 | 1 | 0 | 0 | 0 | 57.3 | 20.0 | 6.0 | 55.1 |
| TOTAL | 13,237 | | | 6,279 | | | | 211 | 152 | 2 | 1 | 2 | | | | |
| AVG. | 427 | | | 203 | | | | 7 | 5 | 0 | 0 | 0 | 79.6 | 19.8 | 4.8 | 54.1 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|---|
| SPRING | 13,762 | 6,286 | 10,582 | 2,405 | 2 | 2 | 4 |

TABLE 123

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 902 | | | 274 | | | 0 | 1 | 0 | 0 | 0 | 0 | 55.6 | 19.9 | 5.0 | 58.9 |
| Jun 2 | 2,566 | | | 506 | | | 0 | 0 | 0 | 1 | 0 | 0 | 54.3 | 19.6 | 5.0 | 60.0 |
| Jun 3 | 864 | | | 258 | | | 0 | 1 | 1 | 0 | 0 | 0 | 52.8 | 19.8 | * | 60.8 |
| Jun 4 | 350 | | | 148 | | | 0 | 1 | 0 | 1 | 0 | 0 | 56.2 | 19.8 | 6.0 | 62.0 |
| Jun 5 | 236 | | | 139 | | | 0 | 0 | 0 | 7 | 0 | 0 | 57.8 | 19.8 | 6.0 | 60.5 |
| Jun 6 | 193 | | | 98 | | | 0 | 2 | 0 | 5 | 0 | 0 | 54.9 | 19.8 | 6.0 | 61.4 |
| Jun 7 | 295 | | | 169 | | | 0 | 5 | 1 | 5 | 0 | 0 | 57.9 | 19.8 | 6.0 | 61.3 |
| Jun 8 | 264 | | | 125 | | | 0 | 2 | 1 | 28 | 0 | 0 | 52.8 | 20.0 | 4.8 | 63.0 |
| Jun 9 | 490 | | | 143 | | | 0 | 1 | 0 | 16 | 0 | 0 | 53.6 | 19.8 | 6.0 | 62.0 |
| Jun 10 | 284 | | | 101 | | | 0 | 1 | 0 | 7 | 1 | 1 | 52.4 | 19.8 | 6.0 | 61.0 |
| Jun 11 | 254 | | | 116 | | | 0 | 0 | 0 | 13 | 0 | 0 | 54.7 | 19.7 | 6.0 | 56.5 |
| Jun 12 | 318 | | | 114 | | | 0 | 6 | 0 | 37 | 0 | 0 | 62.7 | 19.9 | 6.0 | 57.0 |
| Jun 13 | 281 | | | 101 | | | 0 | 2 | 0 | 48 | 0 | 1 | 57.6 | 19.8 | 6.0 | 57.3 |
| Jun 14 | 308 | | | 162 | | | 0 | 2 | 0 | 46 | 0 | 0 | 55.1 | 19.9 | 6.0 | 57.7 |
| Jun 15 | 264 | | | 58 | | | 0 | 1 | 0 | 66 | 0 | 0 | 47.5 | 19.8 | 5.0 | 61.7 |
| Jun 16 | 361 | | | 83 | | | 0 | 9 | 1 | 97 | 0 | 0 | 46.0 | 19.9 | 6.0 | 62.0 |
| Jun 17 | 492 | | | 90 | | | 0 | 5 | 0 | 62 | 0 | 0 | 45.7 | 19.9 | 6.0 | 61.0 |
| Jun 18 | | 421 | | 114 | | | 0 | 6 | 1 | 59 | 0 | 1 | 40.7 | 19.8 | 6.0 | 60.4 |
| Jun 19 | | 365 | | 90 | | | 0 | 15 | 2 | 96 | 0 | 0 | 37.5 | 19.8 | 6.0 | 61.3 |
| Jun 20 | | 277 | | 67 | | | 0 | 11 | 1 | 178 | 0 | 0 | 42.9 | 19.8 | 6.0 | 61.4 |
| Jun 21 | | 260 | | 122 | | | 0 | 17 | 1 | 236 | 0 | 0 | 37.4 | 18.1 | 6.0 | 61.2 |
| Jun 22 | | 206 | | 83 | | | 0 | 5 | 0 | 204 | 0 | 0 | 41.4 | 18.2 | 6.0 | 65.0 |
| Jun 23 | | 208 | | 116 | | | 0 | 10 | 0 | 332 | 0 | 0 | 39.9 | 18.0 | 6.0 | 65.0 |
| Jun 24 | | 439 | | 169 | | | 0 | 18 | 4 | 259 | 0 | 0 | 35.2 | 18.2 | 6.0 | 66.0 |
| Jun 25 | | 431 | | 169 | | | 0 | 24 | 4 | 389 | -1 | 0 | 33.6 | 18.1 | 6.0 | 64.9 |
| Jun 26 | | 391 | | 151 | | | 2 | 26 | 0 | 271 | 1 | 1 | 31.4 | 17.7 | 6.0 | 65.4 |
| Jun 27 | | 352 | | 128 | | | 0 | 24 | 2 | 631 | 0 | 0 | 30.8 | 18.3 | 6.0 | 65.5 |
| Jun 28 | | 343 | | 107 | | | 1 | 15 | 2 | 788 | 0 | 0 | 33.0 | 18.1 | 6.0 | 65.2 |
| Jun 29 | | 161 | | 100 | | | 1 | 28 | 2 | 601 | 0 | 0 | 36.0 | 18.3 | * | 65.0 |
| Jun 30 | | 216 | | 101 | | | 4 | 33 | 5 | 1,105 | 0 | 0 | 36.7 | 18.2 | * | 66.4 |
| TOTAL | 8,722 | 4,070 | | 4,202 | | | 8 | 271 | 28 | 5,588 | 1 | 4 | | | | |
| AVG. | 513 | 313 | | 140 | | | 0 | 9 | 1 | 186 | 0 | 0 | 46.5 | 19.3 | 5.8 | 61.9 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 22,484 | 8,971 |
| SUMMER | 4,070 | 1,517 |
| TOTAL | 26,554 | 10,488 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|
| 8 | 10,853 | 2,433 | 5,590 | 3 | 8 |

TABLE 124

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 149 | | 74 | | | 1 | 35 | 1 | 586 | 0 | | 33.3 | 18.0 | 6.0 | 66.7 |
| Jul 2 | | 222 | | 110 | | | 1 | 32 | 6 | 673 | 0 | | 31.2 | 18.0 | * | 66.2 |
| Jul 3 | | 176 | | 115 | | | 0 | 30 | 1 | 1,006 | 0 | | 31.5 | 18.0 | * | 66.4 |
| Jul 4 | | 196 | | 80 | | | 2 | 27 | 4 | 883 | 0 | | 32.7 | 17.9 | 6.0 | 67.3 |
| Jul 5 | | 90 | | 71 | | | 5 | 26 | 4 | 1,163 | 0 | | 33.0 | 17.8 | 6.0 | 67.9 |
| Jul 6 | | 204 | | 98 | | | 1 | 46 | 5 | 1,092 | 0 | | 36.0 | 18.1 | 5.0 | 68.5 |
| Jul 7 | | 217 | | 92 | | | 4 | 40 | 6 | 535 | 0 | | 34.8 | 18.2 | 6.0 | 69.0 |
| Jul 8 | | 163 | | 90 | | | 2 | 39 | 5 | 836 | 0 | | 40.5 | 18.0 | 6.0 | 69.0 |
| Jul 9 | | 158 | | 56 | | | 2 | 51 | 5 | 893 | 0 | | 34.7 | 18.1 | 6.0 | 67.0 |
| Jul 10 | | 91 | | 83 | | | 0 | 40 | 5 | 868 | 0 | | 39.7 | 18.0 | 6.0 | 66.9 |
| Jul 11 | | 116 | | 77 | | | 2 | 40 | 6 | 630 | 1 | | 32.7 | 17.8 | 6.0 | 66.2 |
| Jul 12 | | 78 | | 49 | | | 4 | 25 | 5 | 445 | 0 | | 34.7 | 17.7 | 6.0 | 66.3 |
| Jul 13 | | 22 | | 17 | | | 2 | 11 | 4 | 256 | 0 | | 33.1 | 17.8 | 6.0 | 67.2 |
| Jul 14 | | 101 | | 77 | | | 1 | 30 | 2 | 463 | 0 | | 33.6 | 17.8 | 6.0 | 66.0 |
| Jul 15 | | 85 | | 53 | | | 1 | 32 | 7 | 551 | 0 | | 36.0 | 17.8 | 6.0 | 69.0 |
| Jul 16 | | 107 | | 80 | | | 1 | 45 | 16 | 312 | 0 | | 32.2 | 17.8 | 6.0 | 68.0 |
| Jul 17 | | 120 | | 53 | | | 4 | 53 | 7 | 121 | 0 | | 31.1 | 17.7 | 6.0 | 66.1 |
| Jul 18 | | 100 | | 32 | | | 0 | 50 | 7 | 248 | 0 | | 30.2 | 17.2 | 6.0 | 66.0 |
| Jul 19 | | 86 | | 76 | | | 0 | 61 | 26 | 86 | 0 | | 28.9 | 16.5 | 6.0 | 65.7 |
| Jul 20 | | 49 | | 28 | | | 1 | 24 | 11 | 130 | 1 | | 30.5 | 17.8 | 6.0 | 68.5 |
| Jul 21 | | 53 | | 22 | | | 1 | 71 | 18 | 556 | 0 | | 29.5 | 16.8 | 6.0 | 68.5 |
| Jul 22 | | 94 | | 50 | | | 1 | 67 | 20 | 346 | 0 | | 26.9 | 14.4 | 6.0 | 68.5 |
| Jul 23 | | 72 | | 34 | | | 6 | 81 | 17 | 398 | 0 | | 28.0 | 15.5 | 6.0 | 68.5 |
| Jul 24 | | 74 | | 52 | | | 1 | 85 | 24 | 310 | 0 | | 27.3 | 14.7 | * | 65.2 |
| Jul 25 | | 46 | | 46 | | | 2 | 58 | 18 | 719 | 0 | | 27.0 | 14.4 | 6.0 | 66.3 |
| Jul 26 | | 40 | | 29 | | | 0 | 29 | 6 | 436 | 0 | | 26.8 | 14.5 | 6.0 | 66.8 |
| Jul 27 | | 61 | | 16 | | | 0 | 51 | 8 | 140 | 1 | | 29.3 | 17.0 | 6.0 | 68.0 |
| Jul 28 | | 53 | | 16 | | | 0 | 85 | 25 | 97 | 1 | | 28.4 | 15.9 | * | 67.0 |
| Jul 29 | | 76 | | 14 | | | 0 | 94 | 35 | 91 | 1 | | 27.5 | 14.7 | 6.0 | 67.5 |
| Jul 30 | | 88 | | 24 | | | 0 | 101 | 24 | 101 | 1 | | 29.4 | 16.7 | * | 65.3 |
| Jul 31 | | 10 | | 10 | | | 0 | 45 | 17 | 245 | 1 | | 28.5 | 15.8 | * | 66.2 |
| TOTAL | | 3,197 | | 1,724 | | | 45 | 1,504 | 345 | 15,216 | 7 | | | | | |
| AVG. | | 103 | | 56 | | | 1 | 49 | 11 | 491 | 0 | | 31.6 | 17.0 | 6.0 | 67.1 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 22,484 | 8,971 |
| SUMMER | 7,267 | 3,241 |
| TOTAL | 29,751 | 12,212 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|
| 53 | 12,357 | 2,778 | 20,806 | 10 | 8 |

TABLE 125

**MONTHLY FISH PASSAGE SUMMARY REPORT** **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 10 | | 5 | | | | 43 | 13 | 77 | 1 | | 30.5 | 17.9 | 6.0 | 67.0 |
| Aug 2 | | 16 | | 6 | | | | 36 | 13 | 49 | -1 | | 27.4 | 14.9 | 6.0 | 67.6 |
| Aug 3 | | 32 | | 31 | | | | 138 | 34 | 94 | 1 | | 27.0 | 14.5 | 6.0 | 67.0 |
| Aug 4 | | 42 | | 12 | | | | 112 | 24 | 22 | 0 | | 26.1 | 13.5 | 6.0 | 67.0 |
| Aug 5 | | 17 | | 8 | | | | 88 | 22 | 2 | 1 | | 26.0 | 13.3 | 6.0 | 67.5 |
| Aug 6 | | 19 | | 12 | | | | 59 | 17 | 49 | 2 | | 26.9 | 14.6 | 6.0 | 67.5 |
| Aug 7 | | 37 | | 13 | | | | 160 | 32 | 43 | 1 | | 26.0 | 13.4 | 6.0 | 66.0 |
| Aug 8 | | 42 | | 11 | | | | 136 | 26 | 13 | 0 | | 25.8 | 13.3 | 6.0 | 65.3 |
| Aug 9 | | 22 | | 8 | | | | 121 | 23 | 18 | 2 | | 25.9 | 13.3 | 6.0 | 65.2 |
| Aug 10 | | 46 | | 14 | | | | 178 | 48 | 49 | 0 | | 25.6 | 13.2 | 5.0+ | 66.0 |
| Aug 11 | | 23 | | 7 | | | | 89 | 30 | 2 | 1 | | 25.8 | 13.2 | 6.0 | 66.0 |
| Aug 12 | | 10 | | 5 | | | | 102 | 29 | 11 | 2 | | 25.6 | 12.9 | 6.0 | 65.6 |
| Aug 13 | | 52 | | 7 | | | | 136 | 32 | 23 | 0 | | 24.2 | 11.4 | 6.0 | 65.0 |
| Aug 14 | | 22 | | 2 | | | | 84 | 18 | 8 | 1 | | 23.4 | 10.6 | * | 65.5 |
| Aug 15 | | 8 | | 2 | | | | 41 | 12 | 1 | 0 | | 23.8 | 11.3 | * | 66.3 |
| Aug 16 | | 6 | | 1 | | | | 67 | 14 | 7 | 0 | | 22.7 | 10.4 | * | 66.4 |
| Aug 17 | | 32 | | 8 | | | | 148 | 26 | -2 | 6 | | 22.6 | 9.9 | * | 67.0 |
| Aug 18 | | | 30 | 6 | | | | 102 | 25 | 13 | 0 | | 22.0 | 9.3 | 6.0 | 67.0 |
| Aug 19 | | | 13 | 5 | | | | 131 | 31 | 12 | 0 | | 21.1 | 8.4 | 6.0 | 67.0 |
| Aug 20 | | | 10 | 0 | | | | 54 | 16 | 6 | 0 | | 21.7 | 14.5 | 6.0 | 66.9 |
| Aug 21 | | | 32 | 5 | | | | 100 | 29 | -4 | 0 | | 22.0 | 16.4 | 6.0 | 66.7 |
| Aug 22 | | | 24 | 0 | | | | 134 | 22 | 2 | 0 | | 23.4 | 18.0 | 6.0 | 65.1 |
| Aug 23 | | | 29 | 13 | | | | 196 | 58 | -1 | 0 | | 21.4 | 13.8 | 6.0 | 64.8 |
| Aug 24 | | | 61 | 7 | | | | 240 | 59 | 11 | 0 | | 22.3 | 9.8 | 6.0 | 66.0 |
| Aug 25 | | | 38 | 5 | | | | 150 | 35 | 14 | 0 | | 22.4 | 9.9 | 5.0+ | 66.0 |
| Aug 26 | | | 43 | 8 | | | | 201 | 38 | 2 | 0 | | 22.2 | 9.9 | 5.0+ | 66.0 |
| Aug 27 | | | 46 | 5 | | | | 163 | 48 | 0 | 2 | | 22.4 | 9.9 | 5.0+ | 66.0 |
| Aug 28 | | | 55 | 1 | | | | 174 | 44 | -1 | 1 | | 22.6 | 9.9 | * | 65.2 |
| Aug 29 | | | 28 | 5 | | | | 128 | 25 | 1 | 1 | | 21.6 | 9.1 | 6.0 | 65.7 |
| Aug 30 | | | 38 | 8 | | | | 111 | 22 | 1 | 0 | | 20.6 | 8.2 | 6.0 | 66.0 |
| Aug 31 | | | 80 | 17 | | | | 170 | 30 | 5 | -1 | | 20.8 | 8.2 | 6.0 | 66.0 |
| TOTAL | | 436 | 527 | 237 | | | | 3,792 | 895 | 527 | 20 | | | | | |
| AVG | | 26 | 38 | 8 | | | | 122 | 29 | 17 | 1 | | 23.9 | 12.2 | 6.0 | 66.2 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 22,484 | 8,971 |
| SUMMER | 7,703 | 3,393 |
| FALL | 527 | 85 |
| TOTAL | 30,714 | 12,449 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|
| 53 | 16,149 | 3,673 | 21,333 | 30 | 8 |

TABLE 126

**MONTHLY FISH PASSAGE SUMMARY REPORT** | **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** | **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 18 | 6 | 0 | 0 | | 182 | 44 | 19 | 0 | | 23.5 | 0.0 | 6.0 | 67.0 |
| Sep 2 | | | 133 | 10 | 0 | 0 | | 148 | 38 | 2 | 0 | | 22.1 | 0.0 | 6.0 | 67.0 |
| Sep 3 | | | 52 | 20 | 0 | 0 | | 98 | 31 | 4 | 0 | | 22.0 | 0.0 | 6.0 | 67.0 |
| Sep 4 | | | 37 | 28 | 0 | 0 | | 96 | 24 | 0 | -1 | | 21.2 | 0.0 | * | 66.0 |
| Sep 5 | | | 158 | 32 | 0 | 0 | | 249 | 65 | 0 | 0 | | 24.0 | 0.5 | 6.0 | 65.6 |
| Sep 6 | | | 124 | 31 | 0 | 0 | | 474 | 113 | 0 | -1 | | 22.6 | 0.0 | 6.0 | 66.6 |
| Sep 7 | | | 175 | 42 | 0 | 0 | | 677 | 168 | 2 | 0 | | 23.4 | 0.0 | 6.0 | 69.0 |
| Sep 8 | | | 337 | 74 | 0 | 0 | | 638 | 154 | 0 | 0 | | 23.6 | 0.0 | 6.0 | 69.0 |
| Sep 9 | | | 235 | 76 | 0 | 0 | | 563 | 149 | 0 | 1 | | 19.8 | 0.0 | 6.0 | 69.5 |
| Sep 10 | | | 244 | 103 | 0 | 0 | | 436 | 100 | 1 | 1 | | 24.2 | 0.0 | 6.0 | 67.5 |
| Sep 11 | | | 320 | 121 | 0 | 0 | | 771 | 197 | 0 | 0 | | 22.7 | 0.0 | 6.0 | 68.1 |
| Sep 12 | | | 229 | 96 | 0 | 0 | | 650 | 142 | 0 | 0 | | 21.2 | 0.0 | * | 67.6 |
| Sep 13 | | | 142 | 76 | 0 | 0 | | 712 | 148 | -1 | 0 | | 20.3 | 0.0 | * | 66.5 |
| Sep 14 | | | 188 | 120 | 0 | 0 | | 856 | 191 | 0 | 0 | | 18.7 | 0.0 | 5.0+ | 68.5 |
| Sep 15 | | | 275 | 209 | 0 | 0 | | 982 | 208 | -1 | 0 | | 20.8 | 0.0 | 6.0 | 65.7 |
| Sep 16 | | | 269 | 133 | -1 | 0 | | 708 | 138 | 0 | 0 | | 19.0 | 0.0 | 6.0 | 68.0 |
| Sep 17 | | | 518 | 391 | 5 | 0 | | 2,606 | 574 | 0 | 0 | | 18.1 | 0.0 | 6.0 | 67.0 |
| Sep 18 | | | 607 | 422 | 5 | 2 | | 2,524 | 556 | -1 | 0 | | 16.2 | 0.0 | 6.0 | 68.0 |
| Sep 19 | | | 196 | 209 | 2 | 2 | | 1,963 | 402 | 0 | 0 | | 17.0 | 0.0 | 6.0 | 68.0 |
| Sep 20 | | | 247 | 305 | 7 | 4 | | 2,187 | 457 | -1 | 1 | | 17.3 | 0.0 | 6.0 | 65.9 |
| Sep 21 | | | 414 | 455 | 22 | 1 | | 3,770 | 788 | 0 | 0 | | 16.6 | 0.0 | 6.0 | 68.0 |
| Sep 22 | | | 350 | 408 | 35 | 2 | | 4,742 | 961 | 0 | 0 | | 17.9 | 0.0 | 5.0+ | 67.0 |
| Sep 23 | | | 352 | 401 | 34 | 2 | | 6,161 | 1,338 | 0 | 1 | | 16.2 | 0.0 | 5.0+ | 67.0 |
| Sep 24 | | | 205 | 320 | 25 | 8 | | 3,490 | 767 | 0 | 0 | | 17.5 | 0.0 | * | 65.0 |
| Sep 25 | | | 132 | 179 | 34 | 6 | | 2,560 | 520 | 0 | 0 | | 20.5 | 0.0 | 5.0+ | 67.0 |
| Sep 26 | | | 193 | 287 | 32 | 0 | | 3,472 | 672 | 0 | 1 | | 17.2 | 0.0 | 5.0+ | 66.5 |
| Sep 27 | | | 139 | 197 | 40 | 5 | | 2,965 | 594 | -2 | 1 | | 13.7 | 0.0 | 6.0 | * |
| Sep 28 | | | 274 | 313 | 59 | 13 | | 4,354 | 875 | 4 | 1 | | 13.4 | 0.0 | * | * |
| Sep 29 | | | 258 | 300 | 104 | 17 | | 6,239 | 1,265 | 0 | 0 | | 15.9 | 0.0 | 5.0+ | 65.0 |
| Sep 30 | | | 230 | 305 | 72 | 5 | | 3,710 | 752 | 2 | 0 | | 18.4 | 0.0 | 5.0+ | 65.0 |
| TOTAL | | | 7,051 | 5,669 | 475 | 67 | | 58,983 | 12,431 | 28 | 5 | | | | | |
| AVG. | | | 235 | 189 | 16 | 2 | | 1,966 | 414 | 1 | 0 | | 19.5 | 0.0 | 6.0 | 67.1 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 22,484 | 8,971 |
| SUMMER | 7,703 | 3,393 |
| FALL | 7,578 | 5,754 |
| TOTAL | 37,765 | 18,118 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|---|
| 475 | 67 | 53 | 75,132 | 16,104 | 21,361 | 35 | 8 |

TABLE 127

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 194 | 180 | 88 | 24 | 0 | 2,840 | 562 | 1 | 0 | | 19.2 | 0.0 | 5.0+ | 65.0 |
| Oct 2 | | | 287 | 536 | 47 | 2 | 0 | 4,519 | 913 | 2 | 0 | | 18.6 | 0.4 | * | * |
| Oct 3 | | | 181 | 392 | 71 | 10 | 0 | 5,558 | 1,108 | 0 | 0 | | 21.0 | 0.0 | 6.0 | * |
| Oct 4 | | | 140 | 361 | 77 | 13 | 0 | 4,251 | 869 | 0 | 0 | | 19.4 | 0.3 | 6.0 | * |
| Oct 5 | | | 187 | 379 | 108 | 8 | 0 | 4,295 | 844 | 0 | 0 | | 16.3 | 0.0 | 6.0 | 64.0 |
| Oct 6 | | | 212 | 229 | 113 | 22 | -1 | 5,941 | 1,223 | 0 | -1 | | 19.9 | 0.0 | 5.0 | 63.5 |
| Oct 7 | | | 77 | 121 | 46 | 8 | 0 | 3,018 | 642 | -1 | 0 | | 19.2 | 0.0 | 5.0 | 63.0 |
| Oct 8 | | | 131 | 116 | 90 | 14 | 0 | 3,233 | 664 | 0 | 0 | | 19.2 | 0.0 | 5.0 | 61.5 |
| Oct 9 | | | 114 | 179 | 68 | 7 | 0 | 2,883 | 646 | 0 | 1 | | 20.2 | 0.3 | * | * |
| Oct 10 | | | 91 | 169 | 79 | 8 | 0 | 3,206 | 648 | -1 | 0 | | 23.8 | 0.0 | * | * |
| Oct 11 | | | 122 | 166 | 145 | 13 | 0 | 3,963 | 769 | 0 | -1 | | 26.8 | 0.0 | * | * |
| Oct 12 | | | 64 | 114 | 72 | 6 | 0 | 1,714 | 372 | 4 | 0 | | 17.3 | 0.8 | 5.0+ | 61.7 |
| Oct 13 | | | 47 | 109 | 107 | 1 | 0 | 2,862 | 617 | 0 | 0 | | 19.0 | 0.0 | 6.0 | 59.7 |
| Oct 14 | | | 83 | 96 | 138 | 2 | 0 | 3,332 | 697 | 0 | 0 | | 18.5 | 0.0 | 6.0 | * |
| Oct 15 | | | 29 | 71 | 139 | 5 | 0 | 1,795 | 361 | 2 | 0 | | 14.8 | 0.0 | 6.0 | 60.2 |
| Oct 16 | | | 56 | 74 | 112 | 5 | 0 | 2,839 | 509 | 0 | 0 | | 17.2 | 0.0 | 6.0 | * |
| Oct 17 | | | 20 | 47 | 70 | 4 | 0 | 1,629 | 292 | 0 | 0 | | 19.3 | 0.0 | 5.0 | * |
| Oct 18 | | | 34 | 43 | 55 | 2 | 0 | 1,455 | 251 | 0 | 0 | | 19.5 | 0.0 | * | * |
| Oct 19 | | | 16 | 16 | 29 | 0 | 0 | 434 | 68 | -1 | 0 | | 13.8 | 2.7 | 5.0+ | 60.2 |
| Oct 20 | | | 44 | 101 | 49 | 8 | 0 | 1,626 | 354 | -1 | 0 | | 16.4 | 0.0 | 5.0+ | 61.0 |
| Oct 21 | | | 72 | 88 | 50 | 5 | 0 | 1,707 | 403 | 1 | 0 | | 21.7 | 0.0 | 5.0+ | 59.3 |
| Oct 22 | | | 56 | 49 | 32 | 12 | 0 | 1,188 | 268 | 0 | 0 | | 23.6 | 0.0 | * | * |
| Oct 23 | | | 25 | 64 | 20 | 0 | 0 | 1,055 | 217 | 1 | 0 | | 21.1 | 0.0 | * | * |
| Oct 24 | | | 19 | 44 | 22 | 1 | 0 | 1,050 | 282 | 10 | 0 | | 17.6 | 0.0 | 6.0 | * |
| Oct 25 | | | 55 | 53 | 20 | 1 | 0 | 1,064 | 266 | 0 | 0 | | 19.4 | 0.0 | * | * |
| Oct 26 | | | 18 | 41 | 13 | 2 | 0 | 844 | 167 | 1 | 0 | | 25.6 | 0.0 | 5.0+ | 57.6 |
| Oct 27 | | | 19 | 25 | 14 | 0 | 0 | 490 | 120 | 5 | 0 | | 17.1 | 0.0 | 6.0 | 57.1 |
| Oct 28 | | | 10 | 17 | 10 | 0 | 0 | 500 | 88 | 1 | 0 | | 14.3 | 0.0 | 6.0 | 56.7 |
| Oct 29 | | | 11 | 26 | 35 | 1 | 0 | 660 | 161 | -1 | 0 | | 17.5 | 0.0 | 6.0 | * |
| Oct 30 | | | 30 | 24 | 32 | 4 | 0 | 784 | 176 | 1 | 0 | | 18.7 | 0.0 | 6.0 | 56.6 |
| Oct 31 | | | 28 | 26 | 32 | 2 | 0 | 800 | 163 | 1 | 0 | | 18.1 | 0.0 | 6.0 | 55.7 |
| TOTAL | | | 2,472 | 3,956 | 1,983 | 190 | -1 | 71,535 | 14,720 | 25 | -1 | | | | | |
| AVG. | | | 80 | 128 | 64 | 6 | 0 | 2,308 | 475 | 1 | 0 | | 19.2 | 0.1 | 5.8 | 60.2 |

*Data Unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 22,484 | 8,971 |
| SUMMER | 7,703 | 3,393 |
| FALL | 10,050 | 9,710 |
| TOTAL | 40,237 | 22,074 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|---|
| 2,458 | 257 | 52 | 146,667 | 30,824 | 21,386 | 34 | 8 |

Note: Visual counts ended October 31.

TABLE 128

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | TOTAL | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 8 | 16 | 14 | 5 | | 875 | 160 | | | | 17.5 | 0.0 | * | * |
| Nov 2 | | | 20 | 5 | 13 | 1 | | 884 | 164 | | | | 18.2 | 0.0 | * | * |
| Nov 3 | | | 15 | 7 | 4 | 0 | | 609 | 103 | | | | 16.4 | 0.0 | 6.0 | 55.0 |
| Nov 4 | | | 27 | 12 | 10 | 1 | | 957 | 136 | | | | 16.9 | 0.0 | 6.0 | 55.0 |
| Nov 5 | | | 5 | 2 | 3 | 0 | | 282 | 56 | | | | 19.4 | 0.0 | 6.0 | 53.9 |
| Nov 6 | | | 4 | 2 | 5 | 0 | | 204 | 41 | | | | 13.3 | 0.0 | 5.0+ | 53.0 |
| Nov 7 | | | 11 | 3 | 5 | 0 | | 270 | 67 | | | | 18.9 | 0.0 | * | * |
| Nov 8 | | | 8 | 3 | 3 | 0 | | 301 | 49 | | | | 17.1 | 0.0 | 5.0+ | 51.7 |
| Nov 9 | | | 8 | 5 | 3 | 0 | | 306 | 51 | | | | 16.3 | 0.0 | * | * |
| Nov 10 | | | 4 | 5 | 0 | 0 | | 358 | 72 | | | | 16.4 | 0.0 | 6.0 | 52.0 |
| Nov 11 | | | 5 | 4 | 2 | 1 | | 276 | 60 | | | | 18.0 | 0.0 | 6.0 | 52.0 |
| Nov 12 | | | 2 | 0 | 2 | 0 | | 239 | 50 | | | | 17.8 | 0.0 | 6.0 | 52.0 |
| Nov 13 | | | 3 | 0 | 0 | 1 | | 141 | 25 | | | | 16.7 | 0.0 | 6.0 | 51.7 |
| Nov 14 | | | 0 | 2 | 1 | 0 | | 103 | 24 | | | | 14.5 | 0.0 | 6.0 | 51.1 |
| Nov 15 | | | 7 | 1 | 2 | 0 | | 189 | 39 | | | | 17.9 | 0.0 | 6.0 | 51.1 |
| Nov 16 | | | 2 | 1 | 1 | 0 | | 196 | 55 | | | | 17.9 | 0.0 | 6.0 | 51.1 |
| Nov 17 | | | 2 | 1 | 0 | 0 | | 262 | 64 | | | | 17.9 | 0.0 | * | * |
| Nov 18 | | | 2 | 1 | 1 | 0 | | 252 | 62 | | | | 22.7 | 0.0 | * | * |
| Nov 19 | | | 1 | 1 | 0 | 0 | | 132 | 37 | | | | 25.3 | 0.2 | 5.0+ | 50.7 |
| Nov 20 | | | 0 | 0 | 0 | 0 | | 98 | 27 | | | | 28.1 | 0.0 | 5.0+ | 49.7 |
| Nov 21 | | | 1 | 0 | 0 | 0 | | 141 | 32 | | | | 27.1 | 0.0 | 6.0 | 49.6 |
| Nov 22 | | | 4 | 0 | 3 | 0 | | 127 | 39 | | | | 24.0 | 0.0 | 6.0 | 51.1 |
| Nov 23 | | | 2 | 0 | 0 | 0 | | 170 | 41 | | | | 21.8 | 0.0 | 6.0 | 48.9 |
| Nov 24 | | | 3 | 1 | 0 | 0 | | 156 | 30 | | | | 20.2 | 0.0 | 6.0 | 48.0 |
| Nov 25 | | | -1 | 0 | 2 | 0 | | 133 | 23 | | | | 20.3 | 0.0 | 6.0 | 48.0 |
| Nov 26 | | | 0 | 0 | 0 | 0 | | 82 | 11 | | | | 23.6 | 0.0 | 5.0+ | 48.0 |
| Nov 27 | | | 0 | 1 | 0 | 0 | | 108 | 31 | | | | 17.2 | 0.0 | 6.0 | 48.0 |
| Nov 28 | | | 0 | 0 | 0 | 0 | | 119 | 26 | | | | 17.8 | 0.0 | 6.0 | 47.5 |
| Nov 29 | | | 0 | 0 | 0 | 0 | | 191 | 45 | | | | 19.6 | 0.0 | 5.0+ | 47.5 |
| Nov 30 | | | 1 | 0 | 0 | 0 | | 108 | 24 | | | | 20.9 | 0.0 | 5.0+ | 47.5 |
| TOTAL | | | 144 | 73 | 74 | 9 | | 8,269 | 1,644 | | | | | | | |
| AVG. | | | 5 | 2 | 2 | 0 | | 276 | 55 | | | | 19.3 | 0.0 | 6.0 | 50.6 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|---|---|---|---|
| SPRING | 22,484 | 8,971 | 2,532 | 266 | 52 | 154,936 | 32,468 | 21,386 | 34 | 8 |
| SUMMER | 7,703 | 3,393 | | | | | | | | |
| FALL | 10,194 | 9,783 | | | | | | | | |
| TOTAL | 40,381 | 22,147 | | | | | | | | |

**Note: From November 1 to December 16, counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST.**

TABLE 129

**MONTHLY FISH PASSAGE SUMMARY REPORT** | **LOWER GRANITE PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** | **DECEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | | | BULL | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | SHAD | LAMPREY | TROUT | KCFS | KCFS | SECCHI | DEG F |
| Dec 1 | | | -1 | 0 | | | | 151 | 30 | | | | 18.4 | 0.0 | * | * |
| Dec 2 | | | 2 | 0 | | | | 143 | 26 | | | | 16.8 | 0.0 | * | * |
| Dec 3 | | | 2 | 2 | | | | 103 | 25 | | | | 20.3 | 0.0 | 5.0+ | 46.0 |
| Dec 4 | | | 0 | -2 | | | | 232 | 61 | | | | 20.8 | 0.0 | 5.0+ | 44.8 |
| Dec 5 | | | 0 | 0 | | | | 101 | 18 | | | | 30.8 | 0.0 | * | * |
| Dec 6 | | | 0 | 0 | | | | 110 | 27 | | | | 26.1 | 0.0 | 5.0+ | 44.5 |
| Dec 7 | | | 0 | 0 | | | | 155 | 31 | | | | 26.2 | 0.0 | * | * |
| Dec 8 | | | 0 | 0 | | | | 305 | 76 | | | | 23.3 | 0.0 | 6.0 | 44.1 |
| Dec 9 | | | 0 | 0 | | | | 179 | 38 | | | | 21.1 | 0.0 | 6.0 | 44.1 |
| Dec 10 | | | 0 | 0 | | | | 117 | 34 | | | | 27.7 | 0.0 | 6.0 | 43.9 |
| Dec 11 | | | 0 | 0 | | | | 107 | 19 | | | | 22.9 | 0.0 | 6.0 | 44.1 |
| Dec 12 | | | 0 | -1 | | | | 116 | 23 | | | | 28.5 | 0.0 | 6.0 | 44.7 |
| Dec 13 | | | 0 | 0 | | | | 204 | 55 | | | | 18.9 | 0.0 | 6.0 | 44.4 |
| Dec 14 | | | 0 | 0 | | | | 109 | 24 | | | | 19.6 | 0.0 | 6.0 | 44.1 |
| Dec 15 | | | 0 | 0 | | | | 146 | 43 | | | | 20.3 | 0.0 | * | * |
| Dec 16 | | | 0 | 0 | | | | 131 | 35 | | | | 20.6 | 0.0 | * | * |
| Dec 17 | | | | | | | | | | | | | 19.6 | 0.0 | 5.0 | 44.3 |
| Dec 18 | | | | | | | | | | | | | 18.9 | 0.0 | 5.0 | 43.3 |
| Dec 19 | | | | | | | | | | | | | 23.1 | 0.0 | 5.0 | 43.7 |
| Dec 20 | | | | | | | | | | | | | 21.2 | 0.0 | * | * |
| Dec 21 | | | | | | | | | | | | | 25.4 | 0.0 | * | * |
| Dec 22 | | | | | | | | | | | | | 21.4 | 0.0 | 6.0 | 42.1 |
| Dec 23 | | | | | | | | | | | | | 21.8 | 0.0 | 6.0 | 42.1 |
| Dec 24 | | | | | | | | | | | | | 21.8 | 0.0 | * | * |
| Dec 25 | | | | | | | | | | | | | 20.3 | 0.0 | * | * |
| Dec 26 | | | | | | | | | | | | | 20.2 | 0.0 | 6.0 | 43.7 |
| Dec 27 | | | | | | | | | | | | | 26.1 | 0.0 | 6.0 | 43.0 |
| Dec 28 | | | | | | | | | | | | | 20.4 | 0.0 | 6.0 | * |
| Dec 29 | | | | | | | | | | | | | 23.0 | 0.0 | * | * |
| Dec 30 | | | | | | | | | | | | | 20.0 | 0.0 | * | * |
| Dec 31 | | | | | | | | | | | | | 22.8 | 0.0 | 5.0+ | 42.6 |
| TOTAL | | | 3 | -1 | | | | 2,409 | 565 | | | | | | | |
| AVG. | | | 0 | 0 | | | | 151 | 35 | | | | 22.2 | 0.0 | 5.8 | 43.8 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY | BULL TROUT |
|---|---|---|---|---|---|---|---|---|---|---|
| SPRING | 22,484 | 8,971 | 2,532 | 266 | 52 | 157,345 | 33,033 | 21,386 | 34 | 8 |
| SUMMER | 7,703 | 3,393 | | | | | | | | |
| FALL | 10,197 | 9,782 | | | | | | | | |
| TOTAL | 40,384 | 22,146 | | | | | | | | |

**Note: From November 1 to December 16, counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST. Official Fall Chinook run ended December 16.**

TABLE 130

**LOWER GRANITE PROJECT - NIGHT COUNTS (2100 - 0400 PST)** **JUNE 2007**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND**

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jun 15 | 11 | | | 6 | | | | 0 | | 18 | |
| Jun 16 | 15 | | | 6 | | | | 2 | | 11 | |
| Jun 17 | 25 | | | 8 | | | | 1 | | 17 | |
| Jun 18 | | 6 | | 2 | | | | 1 | | 7 | |
| Jun 19 | | 22 | | 8 | | | | 0 | | 23 | |
| Jun 20 | | 19 | | 3 | | | | 0 | | 13 | |
| Jun 21 | | 0 | | 2 | | | | 1 | | 26 | |
| Jun 22 | | 13 | | 1 | | | | 0 | | 34 | |
| Jun 23 | | 19 | | 5 | | | | 5 | | 53 | |
| Jun 24 | | 14 | | 8 | | | | 0 | | 17 | |
| Jun 25 | | 25 | | 8 | | | | 4 | | 61 | |
| Jun 26 | | 12 | | 8 | | | | 3 | | 54 | |
| Jun 27 | | 20 | | 6 | | | | 1 | | 64 | |
| Jun 28 | | 14 | | 1 | | | | 2 | | 74 | |
| Jun 29 | | 15 | | 2 | | | | 1 | | 57 | |
| Jun 30 | | 3 | | 6 | | | | 2 | | 48 | |
| TOTAL | 51 | 182 | | 80 | | | | 23 | | 577 | |
| AVG. | 17 | 14 | | 5 | | | | 1 | | 36 | |

**Note: Night counts are not included in any other count totals.**

TABLE 131

**LOWER GRANITE PROJECT - NIGHT COUNTS (2100 - 0400 PST)** **JULY 2007**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND**

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jul 1 | | 8 | | 3 | | | 1 | 0 | 0 | 33 | 0 |
| Jul 2 | | 16 | | 7 | | | 1 | 4 | 0 | 114 | 0 |
| Jul 3 | | 10 | | 0 | | | 0 | 1 | 0 | 74 | 0 |
| Jul 4 | | 4 | | 0 | | | 0 | 0 | 0 | 53 | 0 |
| Jul 5 | | 2 | | 1 | | | 0 | 1 | 0 | 57 | 0 |
| Jul 6 | | 5 | | 3 | | | 0 | 1 | 0 | 39 | 0 |
| Jul 7 | | 7 | | 9 | | | 0 | 0 | 0 | 38 | 0 |
| Jul 8 | | | | | | | | | | | |
| Jul 9 | | 6 | | 1 | | | 0 | 3 | 0 | 62 | 0 |
| Jul 10 | | 7 | | 3 | | | 0 | 2 | 0 | 49 | 0 |
| Jul 11 | | 5 | | 2 | | | 0 | 4 | 0 | 20 | 0 |
| Jul 12 | | 0 | | 2 | | | 0 | 1 | 0 | 26 | 0 |
| Jul 13 | | 5 | | 0 | | | 0 | 0 | 0 | 18 | 0 |
| Jul 14 | | 7 | | 1 | | | 0 | 0 | 0 | 14 | 0 |
| Jul 15 | | 8 | | 5 | | | 0 | 0 | 0 | 25 | 1 |
| Jul 16 | | 8 | | 0 | | | 0 | 2 | 0 | 15 | 1 |
| Jul 17 | | 4 | | 0 | | | 0 | 1 | 0 | 44 | 0 |
| Jul 18 | | 3 | | 3 | | | 1 | 1 | 1 | 23 | 0 |
| Jul 19 | | 5 | | 3 | | | 0 | 3 | 0 | 15 | 2 |
| Jul 20 | | 1 | | 3 | | | 0 | 1 | 0 | 14 | 0 |
| Jul 21 | | 0 | | 1 | | | 0 | 3 | 0 | 19 | -1 |
| Jul 22 | | * | | * | | | * | * | * | * | * |
| Jul 23 | | 4 | | 1 | | | 0 | 0 | 0 | 66 | 1 |
| Jul 24 | | 2 | | 4 | | | 0 | 1 | 0 | 20 | 1 |
| Jul 25 | | 1 | | 2 | | | 0 | 2 | 0 | 39 | 0 |
| Jul 26 | | 0 | | 2 | | | 0 | 1 | 0 | 30 | 0 |
| Jul 27 | | 0 | | 1 | | | 0 | 0 | 0 | 24 | 0 |
| Jul 28 | | 0 | | 1 | | | 0 | 2 | 0 | 50 | 1 |
| Jul 29 | | -1 | | 0 | | | 0 | 2 | 1 | 32 | 1 |
| Jul 30 | | 0 | | 0 | | | 0 | 0 | 0 | 21 | 0 |
| Jul 31 | | 0 | | 0 | | | 0 | 2 | 0 | 38 | 1 |
| TOTAL | | 117 | | 58 | | | 3 | 38 | 2 | 1,072 | 8 |
| AVG. | | 4 | | 2 | | | 0 | 1 | 0 | 37 | 0 |

**Note: Count data was lost on July 8 due to video failure. On July 11 count times changed from 2100 - 0400 to 2200 - 0500 pst.**

TABLE 132

**LOWER GRANITE PROJECT - NIGHT COUNTS (2200 - 0500 PST)** **AUGUST 2007**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND**

| DATE | CHINOOK ADULT SPRING | CHINOOK ADULT SUMMER | CHINOOK ADULT FALL | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | TOTAL STEELHEAD | WILD STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aug 1 | | 0 | | 0 | | | | -1 | 0 | 23 | 1 |
| Aug 2 | | 0 | | 0 | | | | 0 | 0 | 29 | 2 |
| Aug 3 | | 7 | | 2 | | | | 5 | 1 | 26 | 3 |
| Aug 4 | | 2 | | 0 | | | | 4 | 1 | 32 | 0 |
| Aug 5 | | 1 | | 0 | | | | 1 | 0 | 21 | 0 |
| Aug 6 | | 0 | | 0 | | | | 4 | -1 | 21 | 2 |
| Aug 7 | | 0 | | 1 | | | | 6 | 0 | 34 | 4 |
| Aug 8 | | 0 | | 0 | | | | 3 | 1 | 35 | 1 |
| Aug 9 | | 0 | | 0 | | | | 2 | 0 | 16 | 5 |
| Aug 10 | | 0 | | 0 | | | | 7 | 0 | 16 | 3 |
| Aug 11 | | 0 | | 0 | | | | 1 | 0 | 10 | 1 |
| Aug 12 | | -1 | | 0 | | | | 3 | 0 | 15 | 2 |
| Aug 13 | | 0 | | 0 | | | | 2 | 0 | 13 | 2 |
| Aug 14 | | 0 | | 0 | | | | -1 | 0 | 9 | 2 |
| Aug 15 | | 0 | | 0 | | | | -1 | 0 | 21 | 0 |
| Aug 16 | | 0 | | 0 | | | | 2 | 0 | 16 | 1 |
| Aug 17 | | 2 | | 0 | | | | 1 | 0 | 10 | 1 |
| Aug 18 | | | -1 | 0 | | | | 1 | 0 | 7 | 2 |
| Aug 19 | | | 0 | 0 | | | | 4 | 0 | 9 | 4 |
| Aug 20 | | | 0 | 0 | | | | 2 | 0 | 19 | 0 |
| Aug 21 | | | 0 | 0 | | | | 5 | 0 | 10 | 2 |
| Aug 22 | | | 0 | 0 | | | | 1 | 0 | 6 | 1 |
| Aug 23 | | | 0 | 0 | | | | 14 | 2 | 3 | 1 |
| Aug 24 | | | 0 | 0 | | | | 2 | 0 | 3 | 1 |
| Aug 25 | | | 0 | 0 | | | | 0 | 0 | 3 | 2 |
| Aug 26 | | | 0 | 1 | | | | 11 | 1 | 4 | 0 |
| Aug 27 | | | 0 | 0 | | | | 3 | 0 | 0 | 0 |
| Aug 28 | | | 3 | 0 | | | | 5 | 2 | 1 | 0 |
| Aug 29 | | | 0 | 0 | | | | 6 | 1 | 1 | 0 |
| Aug 30 | | | 2 | 0 | | | | 7 | 2 | 2 | 1 |
| Aug 31 | | | 0 | 1 | | | | 5 | 2 | 6 | 0 |
| TOTAL | | 11 | 4 | 5 | | | | 104 | 12 | 421 | 44 |
| AVG | | 1 | 0 | 0 | | | | 3 | 0 | 14 | 1 |

TABLE 133

**YEARLY TOTALS OF SALMONIDS COUNTED OVER LOWER GRANITE DAM 1975 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS |
|---|---|---|---|---|---|
| 1975 | 28,460 | 17,311 | 209 | 921 | 46,901 |
| 1976 | 31,667 | 23,017 | 531 | 900 | 56,115 |
| 1977 | 49,123 | 53,037 | 458 | 268 | 102,886 |
| 1978 | 54,246 | 30,068 | 123 | 152 | 84,589 |
| 1979 | 12,548 | 25,046 | 25 | 158 | 37,777 |
| 1980 | 10,986 | 40,454 | 96 | 43 | 51,579 |
| 1981 | 19,198 | 40,234 | 218 | 17 | 59,667 |
| 1982 | 19,476 | 72,840 | 211 | 59 | 92,586 |
| 1983 | 16,200 | 86,234 | 122 | 51 | 102,607 |
| 1984 | 16,517 | 98,923 | 49 | 0 | 115,489 |
| 1985 | 36,567 | 118,463 | 35 | 2 | 155,067 |
| 1986 | 43,023 | 134,519 | 15 | 1 | 177,558 |
| 1987 | 37,677 | 70,151 | 29 | 0 | 107,857 |
| 1988 | 37,882 | 87,040 | 23 | 0 | 124,945 |
| 1989 | 19,557 | 132,579 | 2 | 0 | 152,138 |
| 1990 | 23,345 | 56,859 | 0 | 0 | 80,204 |
| 1991 | 13,618 | 100,381 | 8 | 0 | 114,007 |
| 1992 | 26,193 | 121,459 | 15 | 0 | 147,667 |
| 1993 | 30,446 | 66,699 | 12 | 0 | 97,157 |
| 1994 | 5,077 | 47,550 | 5 | 0 | 52,632 |
| 1995 | 3,702 | 80,853 | 3 | 0 | 84,558 |
| 1996 | 11,129 | 86,072 | 3 | 0 | 97,204 |
| 1997 | 46,727 | 85,917 | 11 | 92 | 132,747 |
| 1998 | 18,557 | 72,017 | 2 | 12 | 90,588 |
| 1999 | 15,884 | 74,370 | 14 | 262 | 90,530 |
| 2000 | 62,659 | 113,211 | 299 | 925 | 177,094 |
| 2001 | 210,381 | 262,568 | 36 | 1,087 | 474,072 |
| 2002 | 119,304 | 218,718 | 55 | 395 | 338,472 |
| 2003 | 119,676 | 180,672 | 11 | 1,265 | 301,624 |
| 2004 | 109,061 | 154,389 | 113 | 3,904 | 267,467 |
| 2005 | 49,530 | 155,783 | 18 | 2,183 | 207,514 |
| 2006 | 45,992 | 145,991 | 17 | 1,434 | 193,434 |
| 2007 | 62,530 | 157,345 | 52 | 2,798 | 222,725 |
| Total | 1,406,938 | 3,210,770 | 2,820 | 16,929 | 4,637,457 |
| 10-Year Average | 81,357 | 153,506 | 62 | 1,427 | 236,352 |

*Jacks included

TABLE 134

**MONTHLY COUNT OF CHINOOK SALMON**
**LOWER GRANITE DAM**
**1975 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1975 | | | | 1 | 11,693 | 8,722 | 4,854 | 1,183 | 1,462 | 474 | 71 | | 28,460 |
| 1976 | | | | 149 | 14,358 | 10,438 | 5,074 | 428 | 605 | 535 | 80 | | 31,667 |
| 1977 | | | | 12,824 | 22,892 | 6,718 | 4,622 | 203 | 961 | 776 | 125 | 2 | 49,123 |
| 1978 | | | | 3,329 | 29,983 | 11,464 | 6,976 | 1,234 | 698 | 519 | 42 | 1 | 54,246 |
| 1979 | | | | 234 | 4,461 | 4,455 | 1,794 | 256 | 1,003 | 302 | 43 | | 12,548 |
| 1980 | | | | 328 | 5,227 | 2,558 | 1,916 | 241 | 345 | 343 | 28 | | 10,986 |
| 1981 | | | | 1,380 | 10,730 | 2,713 | 2,561 | 92 | 1,008 | 677 | 37 | | 19,198 |
| 1982 | | | | 42 | 9,121 | 4,650 | 3,217 | 329 | 1,399 | 650 | 62 | 6 | 19,476 |
| 1983 | | | | 113 | 7,676 | 3,551 | 3,167 | 234 | 828 | 552 | 79 | | 16,200 |
| 1984 | | | | 134 | 4,915 | 5,602 | 4,274 | 303 | 719 | 522 | 48 | | 16,517 |
| 1985 | | | | 1,429 | 20,384 | 10,466 | 1,971 | 281 | 1,285 | 697 | 53 | 1 | 36,567 |
| 1986 | | | | 3,623 | 26,434 | 7,472 | 2,796 | 137 | 1,250 | 1,136 | 172 | 3 | 43,023 |
| 1987 | | | 1 | 4,836 | 22,217 | 5,578 | 3,532 | 216 | 664 | 508 | 116 | 9 | 37,677 |
| 1988 | | | | 4,722 | 20,615 | 8,771 | 2,654 | 212 | 429 | 371 | 104 | 4 | 37,882 |
| 1989 | | | | 577 | 10,597 | 5,771 | 1,511 | 225 | 478 | 338 | 60 | | 19,557 |
| 1990 | | | | 2,808 | 12,925 | 4,902 | 2,094 | 64 | 248 | 264 | 40 | | 23,345 |
| 1991 | | | | 250 | 4,698 | 5,177 | 2,397 | 72 | 524 | 465 | 35 | | 13,618 |
| 1992 | | | | 6,205 | 12,170 | 4,783 | 1,998 | 110 | 576 | 288 | 63 | | 26,193 |
| 1993 | | | | 638 | 15,627 | 9,728 | 3,095 | 281 | 736 | 300 | 41 | | 30,446 |
| 1994 | | | | 99 | 2,283 | 1,180 | 436 | 73 | 422 | 539 | 45 | | 5,077 |
| 1995 | | | | 22 | 870 | 936 | 438 | 113 | 757 | 539 | 27 | | 3,702 |
| 1996 | | | | 38 | 3,415 | 4,260 | 1,557 | 210 | 1,133 | 471 | 45 | | 11,129 |
| 1997 | | | | 222 | 22,323 | 18,376 | 3,690 | 274 | 1,159 | 631 | 52 | | 46,727 |
| 1998 | | | 1 | 942 | 6,330 | 5,398 | 1,877 | 175 | 1,495 | 2,200 | 138 | 1 | 18,557 |
| 1999 | | | | 36 | 3,358 | 4,886 | 2,214 | 396 | 3,017 | 1,832 | 143 | 2 | 15,884 |
| 2000 | | | | 5,984 | 30,609 | 12,074 | 3,032 | 564 | 5,719 | 4,435 | 240 | 2 | 62,659 |
| 2001 | | | | 90,165 | 63,007 | 31,721 | 7,392 | 760 | 11,596 | 5,319 | 414 | 7 | 210,381 |
| 2002 | | | 1 | 1,050 | 56,456 | 35,129 | 8,223 | 1,102 | 12,774 | 4,336 | 229 | 4 | 119,304 |
| 2003 | | | 10 | 29,379 | 30,358 | 31,808 | 7,467 | 817 | 12,616 | 6,990 | 228 | 3 | 119,676 |
| 2004 | | | 1 | 20,189 | 42,777 | 19,382 | 3,991 | 410 | 17,277 | 4,512 | 522 | 0 | 109,061 |
| 2005 | | | | 327 | 17,557 | 11,709 | 5,320 | 445 | 11,295 | 2,767 | 105 | 5 | 49,530 |
| 2006 | | | | 4 | 14,325 | 12,477 | 3,927 | 1,053 | 8,630 | 5,332 | 240 | 4 | 45,992 |
| 2007 | | | 1 | 531 | 19,516 | 16,994 | 4,921 | 1,200 | 12,720 | 6,428 | 217 | 2 | 62,530 |
| Total | | | 15 | 192,610 | 579,907 | 329,849 | 114,988 | 13,693 | 115,828 | 56,048 | 3,944 | 56 | 1,406,938 |
| 10-Year Average | | | | 14,861 | 28,429 | 18,158 | 4,836 | 692 | 9,714 | 4,415 | 248 | | 81,357 |

*Jacks included

TABLE 135

**MONTHLY COUNT OF STEELHEAD**

**LOWER GRANITE DAM**
**1975 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1975 | | | | 1,724 | 1,065 | 104 | 102 | 3,337 | 6,396 | 3,584 | 703 | 296 | 17,311 |
| 1976 | 173 | 21 | 181 | 1,120 | 575 | 120 | 527 | 3,816 | 8,720 | 6,837 | 860 | 67 | 23,017 |
| 1977 | | 9 | 142 | 1,235 | 229 | 59 | 1,538 | 2,652 | 16,296 | 27,492 | 2,950 | 435 | 53,037 |
| 1978 | 354 | 716 | 2,276 | 2,009 | 252 | 9 | 478 | 2,721 | 10,829 | 9,528 | 788 | 108 | 30,068 |
| 1979 | 12 | 44 | 802 | 962 | 192 | 16 | 1,197 | 2,602 | 5,143 | 11,323 | 2,487 | 266 | 25,046 |
| 1980 | | | 1,149 | 3,403 | 1,172 | 36 | 517 | 3,378 | 13,291 | 15,455 | 2,053 | | 40,454 |
| 1981 | | | 1,052 | 1,610 | 604 | 98 | 1,422 | 1,609 | 9,391 | 20,714 | 3,096 | 638 | 40,234 |
| 1982 | | | 1,778 | 2,202 | 1,472 | 66 | 817 | 9,118 | 20,219 | 32,850 | 3,945 | 373 | 72,840 |
| 1983 | | | 3,336 | 1,416 | 244 | 7 | 1,676 | 8,899 | 32,063 | 34,028 | 4,425 | 140 | 86,234 |
| 1984 | | | 2,647 | 3,914 | 961 | 40 | 1,886 | 3,458 | 34,709 | 46,445 | 4,841 | 22 | 98,923 |
| 1985 | | | 2,474 | 9,686 | 856 | 146 | 706 | 5,027 | 63,074 | 33,137 | 3,230 | 127 | 118,463 |
| 1986 | | | 8,179 | 2,358 | 163 | 62 | 3,031 | 2,323 | 39,780 | 71,426 | 6,671 | 526 | 134,519 |
| 1987 | | | 2,962 | 2,951 | 251 | 51 | 783 | 2,342 | 16,644 | 34,235 | 8,809 | 1,123 | 70,151 |
| 1988 | | | 2,108 | 4,562 | 623 | 173 | 768 | 1,806 | 27,071 | 43,066 | 6,307 | 556 | 87,040 |
| 1989 | | | 2,172 | 4,789 | 429 | 99 | 2,026 | 4,199 | 49,256 | 55,766 | 13,308 | 535 | 132,579 |
| 1990 | | | 2,728 | 3,329 | 174 | 27 | 444 | 364 | 8,250 | 26,117 | 13,872 | 1,554 | 56,859 |
| 1991 | | | 2,422 | 3,530 | 285 | 43 | 1,009 | 454 | 24,610 | 58,803 | 7,892 | 1,333 | 100,381 |
| 1992 | | | 1,925 | 2,789 | 194 | 76 | 725 | 2,009 | 47,058 | 56,284 | 9,709 | 690 | 121,459 |
| 1993 | | | 3,232 | 8,118 | 364 | 191 | 2,621 | 5,298 | 10,374 | 32,618 | 3,702 | 181 | 66,699 |
| 1994 | | | 1,644 | 3,007 | 132 | 97 | 888 | 1,693 | 7,089 | 25,913 | 6,772 | 315 | 47,550 |
| 1995 | | | 3,176 | 1,166 | 193 | 33 | 1,216 | 3,540 | 27,585 | 37,260 | 5,176 | 1,508 | 80,853 |
| 1996 | | | 1,720 | 1,017 | 71 | 52 | 1,068 | 4,218 | 38,109 | 34,267 | 4,607 | 943 | 86,072 |
| 1997 | | | 2,043 | 1,408 | 183 | 65 | 1,423 | 5,975 | 22,424 | 42,544 | 9,305 | 547 | 85,917 |
| 1998 | | | 2,390 | 1,837 | 107 | 94 | 1,001 | 731 | 10,295 | 46,326 | 7,071 | 2,165 | 72,017 |
| 1999 | | | 2,091 | 855 | 92 | 35 | 1,333 | 5,577 | 35,954 | 23,694 | 4,044 | 695 | 74,370 |
| 2000 | | | 1,453 | 932 | 94 | 275 | 2,907 | 5,081 | 57,412 | 39,501 | 5,217 | 339 | 113,211 |
| 2001 | | | 3,200 | 2,365 | 193 | 1,087 | 6,772 | 11,315 | 101,289 | 105,685 | 24,287 | 6,375 | 262,568 |
| 2002 | | | 4,064 | 7,992 | 415 | 272 | 4,866 | 14,234 | 83,239 | 93,223 | 9,360 | 1,053 | 218,718 |
| 2003 | | | 13,038 | 2,583 | 182 | 398 | 3,169 | 5,108 | 71,337 | 77,100 | 7,157 | 600 | 180,672 |
| 2004 | | | 4,802 | 2,662 | 154 | 421 | 2,492 | 3,227 | 78,020 | 55,626 | 6,480 | 505 | 154,389 |
| 2005 | | | 3,479 | 1,204 | 180 | 433 | 2,156 | 3,315 | 57,231 | 79,926 | 6,882 | 977 | 155,783 |
| 2006 | | | 3,467 | 3,924 | 200 | 87 | 691 | 2,063 | 50,958 | 68,063 | 14,958 | 1,580 | 145,991 |
| 2007 | | | 6,894 | 3,477 | 211 | 271 | 1,504 | 3,792 | 58,983 | 71,535 | 8,269 | 2,409 | 157,345 |
| Total | 539 | 790 | 95,026 | 96,136 | 12,512 | 5,043 | 53,759 | 135,281 | 1,143,099 | 1,420,371 | 219,233 | 28,981 | 3,210,770 |
| 10-Yr Average | | | 4,488 | 2,783 | 183 | 337 | 2,689 | 5,444 | 60,472 | 66,068 | 9,373 | 1,670 | 153,506 |

# PRIEST RAPIDS AND WANAPUM DAMS

## FISH COUNTING SCHEDULE – PRIEST RAPIDS DAM

| | |
|---|---|
| Jan 1 – Apr 14 | No adult fish counting. |
| Apr 6 -Apr 14 | Fish counter orientation and training. |
| Apr 15 – Nov 15 | Daily fish counting via Video Fish-Counting System. |
| Nov 16 – Dec 31 | No adult fish counting. |

## FISH COUNTING SCHEDULE – WANAPUM DAM

| | |
|---|---|
| Jan 1 – Apr 14 | No adult fish counting. |
| Apr 6 -Apr 14 | Fish counter orientation and training. |
| Apr 15 – Nov 15 | Daily fish counting via Video Fish-Counting System. |
| Nov 16 – Dec 31 | No adult fish counting. |

## FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – PRIEST RAPIDS DAM

***Left Bank Ladder***

| | |
|---|---|
| 01 Jan – 28 Mar | Out of criteria for annual inspection, maintenance and repairs. |
| 29 Mar – 31 Dec | In service. |

***Right Bank Ladder***

| | |
|---|---|
| 01 Jan – 24 Oct | In service. |
| 25 Oct – 28 Oct | Out of criteria to support OLAFT Chinook broodstock trapping |
| 29 Oct – 31 Oct | In service. |
| 01 Nov – 25 Dec | Out of criteria to support OLAFT Chinook broodstock trapping, and for annual inspection, maintenance and repairs. |
| 26 Dec – 31 Dec | In service. |

## FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – WANAPUM DAM

***Left Bank Ladder***

| | |
|---|---|
| 01 Jan – 23 Feb | Out of criteria for annual inspection, maintenance and repairs. |
| 24 Feb – 23 Nov | In service. |
| 24 Nov – 31 Dec | Out of criteria for annual inspection, maintenance and repairs. |

***Right Bank Ladder***

| | |
|---|---|
| 01 Jan – 23 Feb | In service. |
| 24 Feb - 28 Mar | Out of criteria for annual inspection, maintenance and repairs. |
| 29 Mar - 31 Dec | In service. |

Note: Out of criteria dates provided above reflect those periods of time when the adult fishway was out of operational flow and/or head differential criteria. Upstream fish passage is possible for one to several days before and after the indicated dates.

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## FISHWAY ACTIVITIES

### Fish Counting

The current video fish-counting (VFC) system continues to use digital video cameras installed in the fishways to assist with counting migrating fish. Digital video data are streamed 24 hours per day to digital video recorders (DVRs) at each dam. Fish counters then playback these data on computers in a fast-forward mode to identify and count passing fish. At the end of each day all counts are tallied and a fish-count report is generated and posted on Grant PUD's Fish, Wildlife, and Water Quality website (www.gcpud.org/stewardship/fishcounts.htm). The fish-counting season for the Priest Rapids Hydroelectric Project runs from April 15 through November 15 annually.

### PIT-tag Detection

The PIT-tag detection array at Priest Rapids Dam operated continuously when the fishways were operational.

### Fishways Improvements

Water velocities in the collection channel at Priest Rapids Dam have been improved and now run consistently at levels within criteria. LEW-5 is being used to manipulate flow through LSE-4 and increase water volumes and velocities through the collection channel. A deployable/removable water velocity meter has been installed at the collection channel at Priest Rapids Dam. Water velocities were verified at each monthly fishway inspection conducted by NOAA Fisheries or the Fish Passage Center during the fish passage season.

### Fish Trapping

The Priest Rapids Dam Off-ladder Adult Fish Trap (OLAFT) construction was completed in June 2007. The old coded-wire trap facility was permanently removed in February, 2007. Washington Department of Fish and Wildlife (WDFW) operated the OLAFT a total of 29 days between July 10 and October 11, 2007 as part of its steelhead stock assessment. Grant PUD also requested that WDFW collect fall Chinook salmon broodstock for the Priest Rapids Hatchery at the OLAFT in 2007, due to low returns to the Columbia River and the Priest Rapids Hatchery. Chinook broodstock trapping occurred daily between October 17 and November 15, 2007.

TABLE 136

**MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER PRIEST RAPIDS DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | 347 | 5,537 | 11,584 | 17,737 | 6,610 | 15,681 | 8,174 | 292 | | 65,962 |
| STEELHEAD | | | | 10 | 41 | 51 | 1,217 | 5,201 | 6,581 | 1,960 | 122 | | 15,183 |
| SOCKEYE | | | | | | 7,549 | 16,812 | 282 | 1 | 1 | | | 24,645 |
| COHO* | | | | | 1 | | | 43 | 2,311 | 9,627 | 328 | | 12,310 |
| PINK | | | | | | | | | | | | | |
| TOTAL | | | | 357 | 5,579 | 19,184 | 35,766 | 12,136 | 24,574 | 19,762 | 742 | | 118,100 |
| SHAD | | | | | 2 | 262 | 684 | 51 | 15 | 1 | | | 1,015 |
| LAMPREY | | | | | | 71 | 691 | 3,960 | 1,820 | 50 | 1 | | 6,593 |

***Jacks included**

TABLE 137

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | BEGIN COUNTING APRIL 15 | | | | | | | | | | 133.1 | 20.4 | | 40.6 |
| Apr 2 | | | | | | | | | | | 222.6 | 78.7 | | 40.6 |
| Apr 3 | | | | | | | | | | | 191.0 | 49.8 | | 40.8 |
| Apr 4 | | | | | | | | | | | 206.9 | 55.7 | | 40.8 |
| Apr 5 | | | | | | | | | | | 193.9 | 33.4 | | 41.2 |
| Apr 6 | | | | | | | | | | | 192.4 | 36.0 | | * |
| Apr 7 | | | | | | | | | | | 157.7 | 0.0 | | 41.9 |
| Apr 8 | | | | | | | | | | | 136.4 | 0.0 | | 42.3 |
| Apr 9 | | | | | | | | | | | 159.4 | 0.0 | | 42.6 |
| Apr 10 | | | | | | | | | | | 157.5 | 0.0 | | 42.6 |
| Apr 11 | | | | | | | | | | | 141.3 | 0.0 | | 43.2 |
| Apr 12 | | | | | | | | | | | 162.3 | 0.0 | | * |
| Apr 13 | | | | | | | | | | | 157.2 | 0.0 | | * |
| Apr 14 | | | | | | | | | | | 184.1 | 9.3 | | 44.4 |
| Apr 15 | 0 | | | 0 | | | | 0 | | | 165.3 | 0.1 | | 44.6 |
| Apr 16 | 2 | | | 0 | | | | 0 | | | 158.5 | 0.0 | | 44.6 |
| Apr 17 | 0 | | | 0 | | | | 2 | | | 162.4 | 0.0 | | 44.6 |
| Apr 18 | 0 | | | 0 | | | | 1 | | | 163.5 | 0.0 | | 44.6 |
| Apr 19 | 3 | | | 0 | | | | 0 | | | 174.5 | 12.3 | | 45.0 |
| Apr 20 | 2 | | | 0 | | | | 0 | | | 180.6 | 75.7 | | * |
| Apr 21 | 0 | | | 0 | | | | 2 | | | 167.3 | 102.1 | | 45.1 |
| Apr 22 | 1 | | | 0 | | | | 0 | | | 156.4 | 95.5 | | 45.5 |
| Apr 23 | 2 | | | 0 | | | | 0 | | | 159.5 | 97.2 | | 46.0 |
| Apr 24 | 21 | | | 0 | | | | 1 | | | 157.7 | 96.0 | | 46.6 |
| Apr 25 | 9 | | | 0 | | | | 1 | | | 173.8 | 106.2 | | 46.9 |
| Apr 26 | 21 | | | 1 | | | | 0 | | | 176.9 | 107.9 | | 46.6 |
| Apr 27 | 39 | | | 0 | | | | 0 | | | 167.9 | 52.8 | | * |
| Apr 28 | 53 | | | 0 | | | | 2 | | | 164.4 | 14.9 | | 47.3 |
| Apr 29 | 176 | | | 0 | | | | 1 | | | 153.8 | 15.2 | | 47.3 |
| Apr 30 | 17 | | | 0 | | | | 0 | | | 156.2 | 12.0 | | 47.7 |
| TOTAL | 346 | | | 1 | | | | 10 | | | | | | |
| AVG. | 22 | | | 0 | | | | 1 | | | 167.8 | 35.7 | | 44.1 |

* Data unavailable

TABLE 138

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 124 | | | 1 | | 0 | | 2 | 0 | | 160.2 | 14.3 | | 47.3 |
| May 2 | 74 | | | 0 | | 0 | | 0 | 0 | | 174.0 | 15.1 | | 47.3 |
| May 3 | 187 | | | 0 | | 0 | | 1 | 0 | | 159.6 | 12.4 | | 47.3 |
| May 4 | 28 | | | 0 | | 0 | | 2 | 0 | | 185.3 | 27.4 | | * |
| May 5 | 90 | | | 1 | | 0 | | 5 | 0 | | 193.2 | 23.6 | | 47.3 |
| May 6 | 249 | | | 0 | | 0 | | 0 | 0 | | 173.2 | 11.3 | | 47.5 |
| May 7 | 116 | | | 1 | | 0 | | 0 | 0 | | 177.5 | 18.2 | | 48.4 |
| May 8 | 66 | | | 0 | | 0 | | 1 | 0 | | 224.7 | 60.9 | | 48.4 |
| May 9 | 203 | | | 5 | | 0 | | 1 | 0 | | 194.8 | 22.0 | | 49.5 |
| May 10 | 204 | | | 4 | | 0 | | 1 | 0 | | 176.0 | 13.1 | | 50.7 |
| May 11 | 301 | | | 10 | | 0 | | 4 | 0 | | 168.6 | 9.4 | | * |
| May 12 | 278 | | | 5 | | 0 | | 0 | 0 | | 173.8 | 11.5 | | * |
| May 13 | 120 | | | 13 | | 0 | | 1 | 0 | | 172.3 | 10.9 | | 50.9 |
| May 14 | 332 | | | 10 | | 1 | | 0 | 0 | | 152.9 | 11.0 | | 51.8 |
| May 15 | 129 | | | 2 | | 0 | | 0 | 0 | | 164.4 | 13.0 | | 51.8 |
| May 16 | 272 | | | 28 | | 0 | | 1 | 0 | | 175.0 | 15.3 | | 51.8 |
| May 17 | 132 | | | 2 | | 0 | | 0 | 0 | | 176.1 | 15.8 | | 52.0 |
| May 18 | 274 | | | 4 | | 0 | | 0 | 0 | | 169.9 | 15.3 | | * |
| May 19 | 230 | | | 17 | | 0 | | 3 | 0 | | 162.2 | 14.1 | | 52.3 |
| May 20 | 195 | | | 28 | | 0 | | 3 | 0 | | 155.9 | 15.3 | | 52.2 |
| May 21 | 83 | | | 3 | | 0 | | -1 | 0 | | 165.0 | 14.6 | | 52.3 |
| May 22 | 210 | | | 18 | | 0 | | 1 | 1 | | 177.5 | 14.1 | | 52.7 |
| May 23 | 197 | | | 4 | | 0 | | 4 | 1 | | 174.7 | 14.2 | | 52.2 |
| May 24 | 130 | | | 32 | | 0 | | 1 | 0 | | 172.9 | 14.1 | | 52.3 |
| May 25 | 90 | | | 8 | | 0 | | 1 | 0 | | 186.6 | 14.6 | | * |
| May 26 | 220 | | | 7 | | 0 | | 0 | 0 | | 173.8 | 13.1 | | * |
| May 27 | 180 | | | 17 | | 0 | | 3 | 0 | | 184.6 | 19.0 | | 52.7 |
| May 28 | 131 | | | 2 | | 0 | | 2 | 0 | | 178.3 | 13.6 | | 52.9 |
| May 29 | 136 | | | 20 | | 0 | | 1 | 0 | | 176.9 | 14.2 | | 53.8 |
| May 30 | 184 | | | 20 | | 0 | | 3 | 0 | | 183.8 | 16.0 | | 54.0 |
| May 31 | 89 | | | 21 | | 0 | | 1 | 0 | | 175.2 | 12.7 | | 54.3 |
| TOTAL | 5,254 | | | 283 | | 1 | | 41 | 2 | | | | | |
| AVG. | 169 | | | 9 | | 0 | | 1 | 0 | | 175.4 | 16.5 | | 50.9 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO JACK | STEELHEAD | SHAD |
|---|---|---|---|---|---|
| SPRING | 5,600 | 284 | 1 | 51 | 2 |

TABLE 139

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | | 101 | | 17 | | | 0 | 0 | 0 | 2 | 172.6 | 13.0 | | * |
| Jun 2 | | 97 | | 7 | | | 0 | 2 | 0 | 0 | 168.4 | 12.3 | | 55.6 |
| Jun 3 | | 128 | | 51 | | | 0 | 0 | 0 | 2 | 157.7 | 11.5 | | 56.3 |
| Jun 4 | | 58 | | 31 | | | 0 | 0 | 0 | 2 | 153.0 | 10.6 | | 56.3 |
| Jun 5 | | 54 | | 7 | | | 0 | 0 | 0 | 1 | 182.2 | 16.7 | | 55.8 |
| Jun 6 | | 57 | | 14 | | | 0 | 0 | 0 | 0 | 169.7 | 12.7 | | 55.8 |
| Jun 7 | | 75 | | 16 | | | 3 | 0 | 0 | 1 | 171.2 | 16.5 | | 56.1 |
| Jun 8 | | 80 | | 8 | | | 2 | 0 | 0 | 0 | 203.5 | 32.7 | | * |
| Jun 9 | | 139 | | 18 | | | 7 | 1 | 0 | 0 | 194.5 | 23.0 | | 56.1 |
| Jun 10 | | 85 | | 10 | | | 8 | 1 | 0 | 0 | 180.7 | 15.4 | | 56.1 |
| Jun 11 | | 107 | | 12 | | | 14 | 0 | 0 | 0 | 184.5 | 17.2 | | 56.3 |
| Jun 12 | | 61 | | 14 | | | 25 | 1 | 0 | 1 | 189.4 | 15.2 | | 56.1 |
| Jun 13 | | 66 | | 0 | | | 13 | 0 | 8 | 0 | 176.0 | 11.0 | | 55.9 |
| Jun 14 | | 178 | | 26 | | | 26 | 0 | 0 | 1 | 175.5 | 15.5 | | 56.5 |
| Jun 15 | | 320 | | 15 | | | 56 | 0 | 0 | 0 | 174.1 | 23.0 | | * |
| Jun 16 | | 252 | | 6 | | | 51 | 0 | 1 | 2 | 186.6 | 24.6 | | 57.6 |
| Jun 17 | | 436 | | 8 | | | 88 | 1 | 12 | 3 | 165.9 | 19.1 | | 57.6 |
| Jun 18 | | 204 | | 23 | | | 59 | 1 | 8 | 3 | 153.6 | 18.5 | | 57.7 |
| Jun 19 | | 449 | | 45 | | | 120 | 0 | 4 | 3 | 144.6 | 19.4 | | 58.6 |
| Jun 20 | | 269 | | 4 | | | 152 | 1 | 0 | 6 | 162.7 | 22.4 | | 56.8 |
| Jun 21 | | 630 | | 30 | | | 380 | 2 | 5 | 8 | 169.3 | 25.8 | | 58.3 |
| Jun 22 | | 852 | | 8 | | | 406 | 3 | 20 | 5 | 172.4 | 23.5 | | 58.5 |
| Jun 23 | | 424 | | 55 | | | 389 | 2 | 13 | 5 | 154.8 | 20.4 | | 58.6 |
| Jun 24 | | 440 | | 47 | | | 435 | 4 | 8 | 9 | 134.4 | 20.1 | | 58.6 |
| Jun 25 | | 570 | | 71 | | | 310 | 3 | 14 | 5 | 133.7 | 19.4 | | 58.5 |
| Jun 26 | | 836 | | 1 | | | 571 | 6 | 33 | 0 | 136.8 | 15.2 | | 59.2 |
| Jun 27 | | 888 | | 30 | | | 759 | 3 | 23 | 1 | 147.7 | 20.6 | | 59.0 |
| Jun 28 | | 1,308 | | 23 | | | 1,599 | 3 | 12 | 4 | 135.7 | 20.9 | | 59.9 |
| Jun 29 | | 829 | | 5 | | | 1,078 | 7 | 70 | 4 | 160.2 | 22.1 | | 59.7 |
| Jun 30 | | 954 | | 35 | | | 998 | 10 | 31 | 3 | 134.9 | 22.2 | | 59.7 |
| TOTAL | | 10,947 | | 637 | | | 7,549 | 51 | 262 | 71 | | | | |
| AVG. | | 365 | | 21 | | | 252 | 2 | 9 | 2 | 164.9 | 18.7 | | 57.5 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 10,947 | 637 |
| TOTAL | 16,547 | 921 |

| COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|
| 1 | 7,549 | 102 | 264 | 71 |

TABLE 140

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JULY 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 1,186 | | 21 | | | 1,557 | 11 | 26 | 7 | 104.5 | 23.7 | | 60.3 |
| Jul 2 | | 964 | | 4 | | | 1,608 | 4 | 99 | 10 | 136.7 | 21.3 | | 54.3 |
| Jul 3 | | 1,030 | | 7 | | | 1,499 | 11 | 18 | 14 | 111.8 | 21.4 | | 60.8 |
| Jul 4 | | 4 | | 0 | | | 21 | 0 | 1 | 0 | 115.4 | 23.9 | | 61.3 |
| Jul 5 | | 529 | | 4 | | | 537 | 1 | 8 | 7 | 144.2 | 26.1 | | 62.1 |
| Jul 6 | | 688 | | 7 | | | 1,339 | 8 | 15 | 12 | 145.2 | 23.3 | | 62.2 |
| Jul 7 | | 709 | | 6 | | | 1,086 | 19 | 22 | 5 | 109.2 | 24.1 | | 63.0 |
| Jul 8 | | 781 | | 1 | | | 1,176 | 20 | 17 | 9 | 121.1 | 24.0 | | 62.8 |
| Jul 9 | | 704 | | 20 | | | 1,108 | 24 | 24 | 10 | 140.9 | 20.8 | | 63.7 |
| Jul 10 | | 572 | | 8 | | | 675 | 38 | 31 | 24 | 138.4 | 23.8 | | 63.7 |
| Jul 11 | | 818 | | 8 | | | 703 | 26 | 124 | 17 | 149.2 | 23.3 | | 64.0 |
| Jul 12 | | 748 | | 22 | | | 734 | 16 | 29 | 15 | 158.3 | 23.7 | | 64.2 |
| Jul 13 | | 790 | | 27 | | | 535 | 16 | 41 | 19 | 162.4 | 23.2 | | 64.0 |
| Jul 14 | | 639 | | 26 | | | 415 | 27 | 46 | 11 | 174.3 | 22.1 | | 63.9 |
| Jul 15 | | 483 | | 22 | | | 491 | 31 | 35 | 20 | 150.6 | 21.0 | | 63.1 |
| Jul 16 | | 497 | | 17 | | | 309 | 39 | 20 | 14 | 155.2 | 20.2 | | 63.1 |
| Jul 17 | | 376 | | 9 | | | 417 | 27 | 10 | 27 | 142.1 | 21.9 | | 63.0 |
| Jul 18 | | 594 | | 12 | | | 316 | 43 | 13 | 13 | 142.4 | 20.8 | | 63.3 |
| Jul 19 | | 698 | | 2 | | | 315 | 39 | 22 | 13 | 119.7 | 23.4 | | 62.2 |
| Jul 20 | | 326 | | 10 | | | 247 | 42 | 11 | 24 | 134.2 | 23.5 | | 64.4 |
| Jul 21 | | 507 | | 34 | | | 243 | 60 | 4 | 20 | 132.1 | 24.5 | | 64.6 |
| Jul 22 | | 232 | | 9 | | | 214 | 32 | 18 | 34 | 143.1 | 22.2 | | 64.6 |
| Jul 23 | | 439 | | 16 | | | 258 | 43 | 17 | 27 | 132.1 | 20.5 | | 65.3 |
| Jul 24 | | 385 | | 12 | | | 265 | 90 | 7 | 17 | 124.2 | 23.4 | | 65.1 |
| Jul 25 | | 295 | | 28 | | | 131 | 46 | 6 | 31 | 135.1 | 24.3 | | 65.5 |
| Jul 26 | | 226 | | 9 | | | 116 | 50 | 6 | 21 | 161.7 | 22.2 | | 66.0 |
| Jul 27 | | 376 | | 2 | | | 138 | 67 | 6 | 56 | 154.5 | 21.4 | | 65.8 |
| Jul 28 | | 479 | | 10 | | | 161 | 88 | 3 | 58 | 127.4 | 23.0 | | 66.6 |
| Jul 29 | | 511 | | 20 | | | 75 | 105 | 2 | 65 | 154.6 | 24.0 | | 66.6 |
| Jul 30 | | 360 | | 31 | | | 79 | 96 | 1 | 49 | 140.0 | 22.3 | | 66.2 |
| Jul 31 | | 371 | | 16 | | | 44 | 98 | 2 | 42 | 146.8 | 22.8 | | 66.2 |
| TOTAL | | 17,317 | | 420 | | | 16,812 | 1,217 | 684 | 691 | | | | |
| AVG. | | 559 | | 14 | | | 542 | 39 | 22 | 22 | 138.9 | 22.8 | | 63.6 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 28,264 | 1,057 |
| TOTAL | 33,864 | 1,341 |

| COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|
| 1 | 24,361 | 1,319 | 948 | 762 |

TABLE 141

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 452 | | 14 | 0 | 0 | 25 | 96 | 0 | 56 | 156.4 | 20.6 | | 66.6 |
| Aug 2 | | 348 | | 25 | 0 | 0 | 15 | 70 | 2 | 68 | 141.4 | 19.2 | | 66.7 |
| Aug 3 | | 352 | | 21 | 0 | 0 | 18 | 156 | 16 | 103 | 108.3 | 21.0 | | 66.9 |
| Aug 4 | | 317 | | 32 | 0 | 0 | 14 | 137 | 6 | 168 | 125.1 | 21.9 | | 66.9 |
| Aug 5 | | 278 | | 1 | 0 | 0 | 44 | 150 | 6 | 164 | 87.6 | 21.4 | | 66.9 |
| Aug 6 | | 270 | | 16 | 0 | 0 | 15 | 190 | -2 | 181 | 108.1 | 21.8 | | 67.6 |
| Aug 7 | | 310 | | 24 | 0 | 0 | 18 | 160 | 1 | 148 | 107.1 | 22.8 | | 67.1 |
| Aug 8 | | 224 | | 16 | 0 | 0 | 27 | 114 | 1 | 121 | 133.4 | 21.6 | | 66.9 |
| Aug 9 | | 225 | | 25 | 0 | 0 | 42 | 76 | 1 | 133 | 128.2 | 23.6 | | 67.1 |
| Aug 10 | | 163 | | 6 | 0 | 0 | 14 | 100 | 0 | 138 | 141.9 | 21.5 | | 66.9 |
| Aug 11 | | 200 | | 36 | 0 | 0 | 9 | 142 | 5 | 131 | 100.2 | 21.0 | | 68.4 |
| Aug 12 | | 218 | | 6 | 0 | 0 | 5 | 125 | 1 | 178 | 114.1 | 24.2 | | 66.9 |
| Aug 13 | | 131 | | 14 | 0 | 0 | 7 | 139 | 2 | 110 | 142.8 | 21.3 | | 67.1 |
| Aug 14 | | | 168 | 25 | 0 | 0 | 5 | 137 | 2 | 168 | 138.2 | 21.6 | | 67.5 |
| Aug 15 | | | 94 | 18 | 0 | 0 | 3 | 153 | 1 | 146 | 138.7 | 21.2 | | 67.3 |
| Aug 16 | | | 206 | 16 | 0 | 0 | 8 | 171 | 0 | 153 | 115.6 | 21.5 | | 65.7 |
| Aug 17 | | | 131 | 12 | 2 | 0 | 4 | 193 | 1 | 183 | 97.3 | 21.7 | | 67.8 |
| Aug 18 | | | 128 | 24 | 2 | 1 | 2 | 172 | 4 | 120 | 108.9 | 20.0 | | 67.5 |
| Aug 19 | | | 91 | 6 | 0 | 0 | 2 | 191 | 0 | 188 | 72.6 | 20.4 | | 67.1 |
| Aug 20 | | | 116 | 7 | 0 | 0 | 0 | 134 | 0 | 166 | 87.3 | 21.6 | | 66.9 |
| Aug 21 | | | 244 | 24 | 0 | 0 | 0 | 176 | -1 | 153 | 108.2 | 21.9 | | 67.1 |
| Aug 22 | | | 89 | 26 | 0 | 0 | 0 | 173 | 0 | 115 | 126.6 | 21.7 | | 67.6 |
| Aug 23 | | | 146 | 33 | 1 | 1 | 0 | 182 | 1 | 105 | 122.8 | 21.6 | | 68.2 |
| Aug 24 | | | 208 | 20 | 0 | 0 | 0 | 170 | 0 | 138 | 107.7 | 13.6 | | 67.8 |
| Aug 25 | | | 124 | 21 | 22 | 0 | 0 | 222 | 3 | 122 | 89.8 | 0.8 | | 68.0 |
| Aug 26 | | | 135 | 29 | 2 | 0 | 2 | 266 | 2 | 114 | 72.6 | 0.7 | | 67.3 |
| Aug 27 | | | 53 | 19 | 4 | 0 | 0 | 177 | -1 | 58 | 113.2 | 0.7 | | 66.9 |
| Aug 28 | | | 93 | 34 | 1 | 0 | 3 | 274 | 0 | 56 | 98.9 | 1.4 | | 67.1 |
| Aug 29 | | | 76 | 16 | 1 | 0 | 0 | 274 | 0 | 43 | 98.5 | 0.8 | | 68.0 |
| Aug 30 | | | 152 | 27 | 0 | 1 | 0 | 211 | 0 | 128 | 116.4 | 1.1 | | 68.2 |
| Aug 31 | | | 209 | 66 | 5 | 0 | 0 | 270 | 0 | 105 | 127.4 | 2.0 | | 68.4 |
| TOTAL | | 3,488 | 2,463 | 659 | 40 | 3 | 282 | 5,201 | 51 | 3,960 | | | | |
| AVG. | | 268 | 137 | 21 | 1 | 0 | 9 | 168 | 2 | 128 | 114.0 | 16.7 | | 67.3 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 31,752 | 1,293 |
| FALL | 2,463 | 423 |
| TOTAL | 39,815 | 2,000 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|
| 40 | 4 | 24,643 | 6,520 | 999 | 4,722 |

TABLE 142

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 126 | 53 | 3 | 0 | 0 | 310 | 0 | 88 | 92.9 | 1.3 | | 68.0 |
| Sep 2 | | | 92 | 19 | 2 | 1 | 0 | 229 | 5 | 124 | 75.4 | 1.1 | | 68.4 |
| Sep 3 | | | 145 | 107 | 1 | 1 | 0 | 316 | 0 | 114 | 73.2 | 1.0 | | 68.5 |
| Sep 4 | | | 180 | 60 | 0 | 0 | 0 | 231 | 0 | 176 | 102.0 | 0.5 | | 68.7 |
| Sep 5 | | | 168 | 54 | 9 | 0 | 1 | 300 | 1 | 72 | 90.2 | 0.5 | | 68.4 |
| Sep 6 | | | 136 | 92 | 15 | 0 | 0 | 222 | 1 | 92 | 65.3 | 0.6 | | 57.9 |
| Sep 7 | | | 340 | 80 | 3 | 0 | 0 | 287 | 0 | 85 | 40.4 | 0.7 | | 68.0 |
| Sep 8 | | | 187 | 119 | 4 | 0 | 0 | 289 | 1 | 107 | 40.4 | 0.5 | | 68.2 |
| Sep 9 | | | 451 | 211 | 10 | 0 | -1 | 255 | 2 | 75 | 40.2 | 0.8 | | 67.8 |
| Sep 10 | | | 309 | 89 | 23 | 2 | 0 | 284 | 1 | 147 | 69.6 | 1.1 | | 68.0 |
| Sep 11 | | | 211 | 116 | 14 | 3 | 0 | 212 | 0 | 129 | 77.0 | 0.6 | | 68.4 |
| Sep 12 | | | 384 | 114 | 25 | 2 | 0 | 290 | 0 | 72 | 57.2 | 0.9 | | 68.2 |
| Sep 13 | | | 362 | 87 | 14 | 0 | 0 | 213 | 0 | 74 | 80.4 | 0.9 | | 68.0 |
| Sep 14 | | | 406 | 58 | 11 | 0 | 0 | 194 | 1 | 70 | 72.0 | 0.8 | | 68.4 |
| Sep 15 | | | 325 | 60 | 66 | 1 | 0 | 207 | 1 | 56 | 57.3 | 0.6 | | 68.0 |
| Sep 16 | | | 637 | 312 | 10 | 3 | 0 | 265 | 0 | 99 | 49.5 | 0.7 | | 67.8 |
| Sep 17 | | | 785 | 189 | 31 | 0 | 0 | 157 | 0 | 31 | 58.0 | 1.1 | | 66.9 |
| Sep 18 | | | 631 | 252 | 15 | 2 | 1 | 180 | 0 | 35 | 73.0 | 1.1 | | 66.0 |
| Sep 19 | | | 407 | 49 | 31 | 2 | 0 | 131 | 0 | 26 | 66.2 | 0.9 | | 65.8 |
| Sep 20 | | | 486 | 71 | 42 | 3 | 0 | 167 | 0 | 12 | 65.9 | 0.9 | | 65.5 |
| Sep 21 | | | 722 | 103 | 13 | 0 | 0 | 200 | 0 | 6 | 61.4 | 0.8 | | 65.3 |
| Sep 22 | | | 748 | 92 | 89 | 4 | 0 | 229 | 1 | 27 | 42.0 | 0.7 | | 65.1 |
| Sep 23 | | | 623 | 183 | 98 | 11 | 0 | 237 | 0 | 17 | 40.6 | 0.5 | | 64.0 |
| Sep 24 | | | 421 | 110 | 141 | 23 | 0 | 157 | 1 | 10 | 49.3 | 0.8 | | 61.3 |
| Sep 25 | | | 564 | 125 | 257 | 10 | 0 | 162 | 0 | 14 | 71.3 | 1.1 | | 63.9 |
| Sep 26 | | | 743 | 144 | 165 | 3 | 0 | 198 | 0 | 16 | 68.6 | 0.7 | | 63.5 |
| Sep 27 | | | 528 | 72 | 246 | 18 | 0 | 133 | 0 | 10 | 63.5 | 1.5 | | 37.6 |
| Sep 28 | | | 521 | 38 | 350 | 14 | 0 | 149 | 0 | 20 | 60.4 | 0.9 | | 59.7 |
| Sep 29 | | | 528 | 46 | 329 | 11 | 0 | 181 | 0 | 10 | 41.6 | 0.7 | | 62.4 |
| Sep 30 | | | 344 | 66 | 180 | 0 | 0 | 196 | 0 | 6 | 40.9 | 0.6 | | 61.7 |
| TOTAL | | | 12,510 | 3,171 | 2,197 | 114 | 1 | 6,581 | 15 | 1,820 | | | | |
| AVG. | | | 417 | 106 | 73 | 4 | 0 | 219 | 1 | 61 | 62.9 | 0.8 | | 65.0 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 31,752 | 1,293 |
| FALL | 14,973 | 3,594 |
| TOTAL | 52,325 | 5,171 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|
| 2,237 | 118 | 24,644 | 13,101 | 1,014 | 6,542 |

TABLE 143

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 402 | 81 | 245 | 27 | 0 | 133 | 0 | 11 | 66.9 | 1.0 | | 61.7 |
| Oct 2 | | | 590 | 72 | 422 | 5 | 0 | 202 | 0 | 2 | 67.5 | 1.0 | | 61.7 |
| Oct 3 | | | 481 | 54 | 402 | 30 | 0 | 133 | 0 | 5 | 79.6 | 1.7 | | 61.7 |
| Oct 4 | | | 174 | 24 | 394 | 41 | 0 | 53 | 0 | 6 | 83.2 | 2.7 | | 61.7 |
| Oct 5 | | | 230 | 13 | 320 | 19 | 0 | 88 | 0 | 1 | 72.6 | 1.5 | | 61.2 |
| Oct 6 | | | 118 | 11 | 501 | 50 | 0 | 89 | 0 | 2 | 49.7 | 0.9 | | 60.4 |
| Oct 7 | | | 222 | 22 | 426 | 59 | 0 | 114 | 0 | 1 | 39.1 | 0.5 | | 60.4 |
| Oct 8 | | | 391 | 60 | 167 | 25 | 0 | 72 | 0 | 4 | 62.1 | 1.3 | | 60.3 |
| Oct 9 | | | 506 | 42 | 197 | 7 | 1 | 107 | 0 | 3 | 81.1 | 1.4 | | 60.6 |
| Oct 10 | | | 458 | 61 | 432 | 58 | 0 | 94 | 0 | 0 | 74.8 | 1.0 | | 60.4 |
| Oct 11 | | | 511 | 34 | 574 | 50 | 0 | 137 | 0 | 3 | 89.6 | 0.9 | | 60.1 |
| Oct 12 | | | 388 | 6 | 487 | 20 | 0 | 107 | 0 | 0 | 71.9 | 0.7 | | 60.1 |
| Oct 13 | | | 464 | 27 | 418 | 42 | 0 | 85 | 0 | 2 | 65.9 | 0.7 | | 60.1 |
| Oct 14 | | | 310 | 35 | 369 | 55 | 0 | 66 | 0 | 0 | 51.4 | 0.7 | | 60.0 |
| Oct 15 | | | 186 | 14 | 366 | 9 | 0 | 41 | 0 | 1 | 62.8 | 0.8 | | 60.0 |
| Oct 16 | | | 245 | 11 | 331 | 20 | 0 | 30 | 0 | 5 | 64.8 | 0.8 | | 59.6 |
| Oct 17 | | | 158 | 14 | 202 | 13 | 0 | 26 | 0 | 0 | 85.3 | 0.9 | | 59.4 |
| Oct 18 | | | 110 | 39 | 237 | 14 | 0 | 17 | 0 | 3 | 69.1 | 0.7 | | 59.4 |
| Oct 19 | | | 154 | 22 | 218 | 17 | 0 | 45 | 0 | 1 | 65.0 | 0.8 | | 54.4 |
| Oct 20 | | | 216 | 17 | 164 | 10 | 0 | 64 | 0 | 0 | 62.9 | 0.8 | | 58.8 |
| Oct 21 | | | 81 | 14 | 144 | 10 | 0 | 44 | 0 | 0 | 52.8 | 0.8 | | 58.6 |
| Oct 22 | | | 53 | 0 | 220 | 18 | 0 | 22 | 0 | 0 | 66.4 | 0.8 | | 58.8 |
| Oct 23 | | | 92 | 25 | 144 | 32 | 0 | 17 | 0 | 0 | 68.0 | 1.0 | | 59.0 |
| Oct 24 | | | 182 | 19 | 175 | 5 | 0 | 13 | 0 | 0 | 67.8 | 0.7 | | 58.8 |
| Oct 25 | | | 106 | 10 | 213 | 3 | 0 | 24 | 0 | 0 | 66.8 | 0.8 | | 58.3 |
| Oct 26 | | | 108 | 4 | 221 | 11 | 0 | 24 | 1 | 0 | 63.2 | 1.0 | | 57.8 |
| Oct 27 | | | 98 | 8 | 179 | 5 | 0 | 12 | 0 | 0 | 76.6 | 1.0 | | 57.5 |
| Oct 28 | | | 116 | 0 | 165 | 6 | 0 | 25 | 0 | 0 | 59.2 | 0.7 | | 57.3 |
| Oct 29 | | | 66 | 2 | 228 | 21 | 0 | 25 | 0 | 0 | 64.8 | 0.7 | | 57.1 |
| Oct 30 | | | 143 | 3 | 253 | 0 | 0 | 36 | 0 | 0 | 65.7 | 0.9 | | 56.6 |
| Oct 31 | | | 67 | 4 | 129 | 2 | 0 | 15 | 0 | 0 | 72.3 | 1.0 | | 56.3 |
| TOTALS | | | 7,426 | 748 | 8,943 | 684 | 1 | 1,960 | 1 | 50 | | | | |
| AVG. | | | 240 | 24 | 288 | 22 | 0 | 63 | | 2 | 67.4 | 1.0 | | 59.3 |

* Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 31,752 | 1,293 |
| FALL | 22,399 | 4,342 |
| TOTAL | 59,751 | 5,919 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|
| 11,180 | 802 | 24,645 | 15,061 | 1,015 | 6,592 |

TABLE 144

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **PRIEST RAPIDS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | | | DISCH | SPILL | *TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 43 | 11 | 44 | 3 | | 12 | | 0 | 71.1 | 1.0 | | 56.1 |
| Nov 2 | | | 28 | 20 | 29 | 3 | | 5 | | 0 | 81.7 | 1.0 | | 55.8 |
| Nov 3 | | | 28 | 1 | 28 | 0 | | 11 | | 0 | 65.4 | 1.1 | | 55.8 |
| Nov 4 | | | 21 | 1 | 33 | 0 | | 4 | | 0 | 58.4 | 0.8 | | 56.0 |
| Nov 5 | | | 16 | 0 | 29 | 0 | | 15 | | 0 | 71.6 | 1.0 | | 55.7 |
| Nov 6 | | | 22 | 0 | 35 | 1 | | 4 | | 0 | 71.8 | 0.7 | | 55.3 |
| Nov 7 | | | 10 | 1 | 32 | 2 | | 6 | | 1 | 68.4 | 0.8 | | 55.3 |
| Nov 8 | | | 15 | 2 | 8 | 0 | | 9 | | 0 | 72.9 | 0.8 | | 48.4 |
| Nov 9 | | | 17 | 0 | 18 | 2 | | 5 | | 0 | 59.1 | 0.5 | | 55.0 |
| Nov 10 | | | 8 | 4 | 5 | 3 | | 9 | | 0 | 77.8 | 1.1 | | 54.7 |
| Nov 11 | | | 9 | 0 | 9 | 2 | | 10 | | 0 | 83.1 | 1.1 | | 54.3 |
| Nov 12 | | | 23 | 1 | 5 | 0 | | 20 | | 0 | 89.6 | 1.0 | | 54.0 |
| Nov 13 | | | 8 | 0 | 23 | 2 | | 4 | | 0 | 111.0 | 1.1 | | 53.6 |
| Nov 14 | | | 2 | 0 | 5 | 1 | | 2 | | 0 | 107.8 | 1.2 | | 53.0 |
| Nov 15 | | | 1 | 0 | 5 | 1 | | 6 | | 0 | 117.6 | 0.4 | | 53.2 |
| Nov 16 | | | | | | | | | | | 86.0 | 0.0 | | 53.3 |
| Nov 17 | | | | | | | | | | | 62.4 | 0.0 | | 53.0 |
| Nov 18 | | | | | | | | | | | 55.9 | 0.0 | | 52.6 |
| Nov 19 | | | | | | | | | | | 77.0 | 0.0 | | 52.3 |
| Nov 20 | | | | | | | | | | | 70.7 | 0.0 | | 52.2 |
| Nov 21 | | | | | | | | | | | 87.6 | 0.0 | | 51.6 |
| Nov 22 | | | | | | | | | | | 71.7 | 0.0 | | 51.2 |
| Nov 23 | | | | | | | | | | | 74.0 | 0.0 | | 50.8 |
| Nov 24 | | | | | | | | | | | 80.1 | 0.0 | | 50.5 |
| Nov 25 | | | | | | | | | | | 87.5 | 0.0 | | 49.9 |
| Nov 26 | | | | | | | | | | | 121.6 | 0.0 | | 49.4 |
| Nov 27 | | | | | | | | | | | 115.7 | 0.0 | | 48.9 |
| Nov 28 | | | | | | | | | | | 97.5 | 0.0 | | 48.7 |
| Nov 29 | | | | | | | | | | | 100.0 | 0.0 | | 48.3 |
| Nov 30 | | | | | | | | | | | 99.5 | 0.0 | | 48.0 |
| TOTALS | | | 251 | 41 | 308 | 20 | | 122 | | 1 | | | | |
| AVG. | | | 17 | 3 | 21 | 1 | | 8 | | 0 | 83.2 | 0.5 | | 52.6 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 5,600 | 284 |
| SUMMER | 31,752 | 1,293 |
| FALL | 22,650 | 4,383 |
| TOTAL | 60,002 | 5,960 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | SHAD | LAMPREY |
|---|---|---|---|---|---|
| 11,488 | 822 | 24,645 | 15,183 | 1,015 | 6,593 |

TABLE 145

**YEARLY TOTALS OF SALMONIDS COUNTED OVER PRIEST RAPIDS DAM**
**1982 - 2007**

| YEAR | CHINOOK* | STEELHEAD | SOCKEYE | COHO* | TOTALS |
|---|---|---|---|---|---|
| 1982 | 32,051 | 11,160 | 40,461 | 1,810 | 85,482 |
| 1983 | 31,008 | 31,809 | 90,008 | 502 | 153,327 |
| 1984 | 41,425 | 26,213 | 114,761 | 173 | 182,572 |
| 1985 | 62,164 | 34,589 | 118,542 | 219 | 215,514 |
| 1986 | 68,703 | 22,401 | 43,084 | 83 | 134,271 |
| 1987 | 73,214 | 14,011 | 76,578 | 108 | 163,911 |
| 1988 | 53,963 | 10,208 | 51,135 | 68 | 115,374 |
| 1989 | 49,246 | 10,730 | 45,301 | 32 | 105,309 |
| 1990 | 36,257 | 7,830 | 46,331 | 31 | 90,449 |
| 1991 | 31,482 | 13,939 | 71,245 | 22 | 116,688 |
| 1992 | 37,752 | 13,733 | 80,857 | 1 | 132,343 |
| 1993 | 54,552 | 5,460 | 82,963 | 0 | 142,975 |
| 1994 | 32,892 | 6,706 | 12,385 | 0 | 51,983 |
| 1995 | 30,548 | 4,358 | 9,186 | 3 | 44,095 |
| 1996 | 27,325 | 8,324 | 29,422 | 5 | 65,076 |
| 1997 | 33,036 | 8,948 | 45,412 | 26 | 87,422 |
| 1998 | 29,415 | 5,837 | 10,769 | 18 | 46,039 |
| 1999 | 57,054 | 8,277 | 16,432 | 55 | 81,818 |
| 2000 | 91,223 | 11,331 | 89,547 | 378 | 192,479 |
| 2001 | 139,929 | 30,090 | 111,326 | 11,189 | 292,534 |
| 2002 | 161,510 | 15,895 | 47,883 | 1,555 | 226,843 |
| 2003 | 160,433 | 17,652 | 36,551 | 5,216 | 219,852 |
| 2004 | 134,620 | 18,727 | 124,943 | 5,624 | 283,914 |
| 2005 | 109,429 | 12,472 | 74,563 | 1,260 | 197,724 |
| 2006 | 87,086 | 10,408 | 26,710 | 3,813 | 128,017 |
| 2007 | 65,962 | 15,183 | 24,645 | 12,310 | 118,100 |
| Totals | 1,732,279 | 376,291 | 1,521,040 | 44,501 | 3,674,111 |
| 10-Year Average | 103,666 | 14,587 | 56,337 | 4,142 | 178,732 |

*Jacks included

TABLE 146

**MONTHLY COUNT OF STEELHEAD**
**PRIEST RAPIDS DAM: 1960 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960 | | | | 159 | 651 | 25 | 318 | 2,255 | 3,190 | 1,229 | | | 7,827 |
| 1961 | | | | 52 | 208 | 43 | 381 | 1,480 | 4,650 | 1,753 | | | 8,567 |
| 1962 | | | | 133 | 530 | 74 | 329 | 2,027 | 4,925 | 1,306 | | | 9,324 |
| 1963 | | | | 183 | 564 | 109 | 336 | 2,922 | 3,344 | 1,816 | | | 9,274 |
| 1964 | | | | 85 | 196 | 44 | 261 | 1,986 | 2,649 | 770 | | | 5,991 |
| 1965 | | | | 129 | 298 | 91 | 649 | 2,498 | 3,868 | 1,508 | | | 9,041 |
| 1966 | | | | 189 | 252 | 296 | 1,194 | 2,775 | 5,549 | 2,751 | | | 13,006 |
| 1967 | | | | 213 | 381 | 62 | 411 | 1,686 | 2,109 | 2,492 | | | 7,354 |
| 1968 | | | | 530 | 1,112 | 24 | 185 | 1,954 | 4,950 | 1,769 | | | 10,524 |
| 1969 | | | | 120 | 670 | 105 | 566 | 1,598 | 2,544 | 1,047 | | | 6,650 |
| 1970 | | | | 85 | 195 | 27 | 197 | 1,129 | 3,053 | 872 | | | 5,558 |
| 1971 | | | | 46 | 440 | 61 | 185 | 2,043 | 6,241 | 2,086 | | | 11,102 |
| 1972 | | | | 163 | 552 | 42 | 318 | 1,992 | 2,190 | 1,172 | | | 6,429 |
| 1973 | | | | 132 | 160 | 56 | 788 | 1,738 | 3,254 | 871 | | | 6,999 |
| 1974 | | | | 45 | 129 | 229 | 504 | 845 | 945 | 392 | | | 3,089 |
| 1975 | | | | 3 | 37 | 99 | 214 | 670 | 1,187 | 252 | | | 2,462 |
| 1976 | | | | 3 | 133 | 246 | 531 | 1,873 | 5,462 | 1,000 | | | 9,248 |
| 1977 | | | | 178 | 200 | 209 | 1,029 | 1,963 | 4,519 | 1,706 | | | 9,804 |
| 1978 | | | | 72 | 134 | 214 | 532 | 1,143 | 1,869 | 581 | | | 4,545 |
| 1979 | | | | 13 | 127 | 30 | 585 | 3,082 | 3,174 | 1,398 | | | 8,409 |
| 1980 | | | | 232 | 203 | 17 | 179 | 1,815 | 4,721 | 1,263 | 94 | | 8,524 |
| 1981 | | | | 75 | 144 | 105 | 445 | 2,414 | 4,127 | 1,545 | 133 | 24 | 9,012 |
| 1982 | 5 | 32 | 70 | 136 | 86 | 46 | 331 | 3,126 | 5,345 | 1,805 | 163 | 15 | 11,160 |
| 1983 | 5 | 9 | 52 | 40 | 11 | 12 | 599 | 8,660 | 18,272 | 3,534 | 602 | 13 | 31,809 |
| 1984 | 28 | 4 | 92 | 142 | 145 | 224 | 2,534 | 8,840 | 11,907 | 2,030 | 256 | 11 | 26,213 |
| 1985 | 2 | 11 | 74 | 351 | 326 | 856 | 5,319 | 11,063 | 14,693 | 1,659 | 235 | | 34,589 |
| 1986 | | | | 82 | 100 | 262 | 3,637 | 10,584 | 5,647 | 1,856 | 233 | | 22,401 |
| 1987 | | | | 42 | 71 | 124 | 1,954 | 5,741 | 4,311 | 1,495 | 273 | | 14,011 |
| 1988 | | | | 48 | 108 | 239 | 1,234 | 3,119 | 4,016 | 1,176 | 268 | | 10,208 |
| 1989 | | | | 36 | 50 | 133 | 1,361 | 3,499 | 4,581 | 872 | 198 | | 10,730 |
| 1990 | | | | 24 | 52 | 130 | 1,282 | 2,616 | 3,060 | 551 | 115 | | 7,830 |
| 1991 | | | | 31 | 73 | 66 | 1,406 | 4,041 | 6,301 | 1,768 | 253 | | 13,939 |
| 1992 | | | | 60 | 152 | 313 | 2,328 | 3,261 | 6,265 | 1,227 | 127 | | 13,733 |
| 1993 | | | | 34 | 41 | 125 | 993 | 1,733 | 2,013 | 471 | 40 | | 5,450 |
| 1994 | | | | 7 | 13 | 78 | 902 | 1,286 | 3,087 | 1,269 | 64 | | 6,706 |
| 1995 | | | | 4 | 20 | 30 | 540 | 1,316 | 2,062 | 363 | 23 | | 4,358 |
| 1996 | | | | 9 | 14 | 35 | 546 | 3,234 | 3,810 | 627 | 49 | | 8,324 |
| 1997 | | | | 5 | 17 | 39 | 574 | 2,822 | 4,176 | 1,224 | 91 | | 8,948 |
| 1998 | | | | 7 | 9 | 40 | 806 | 935 | 2,976 | 1,005 | 59 | | 5,837 |
| 1999 | | | | 6 | 19 | 72 | 588 | 3,361 | 3,543 | 633 | 55 | | 8,277 |
| 2000 | | | | 2 | 13 | 155 | 1,895 | 3,786 | 4,825 | 598 | 57 | | 11,331 |
| 2001 | | | | 14 | 11 | 326 | 4,426 | 10,368 | 12,136 | 2,607 | 202 | | 30,090 |
| 2002 | | | | 22 | 15 | 134 | 3,225 | 7,442 | 4,101 | 874 | 82 | | 15,895 |
| 2003 | | | | 7 | 2 | 95 | 2,924 | 5,198 | 8,009 | 1,362 | 55 | | 17,652 |
| 2004 | | | | 7 | 79 | 516 | 3,438 | 2,687 | 10,905 | 1,042 | 53 | | 18,727 |
| 2005 | | | | 7 | 7 | 150 | 1,691 | 2,986 | 5,715 | 1,805 | 111 | | 12,472 |
| 2006 | | | | 18 | 26 | 87 | 983 | 2,934 | 5,583 | 723 | 54 | | 10,408 |
| 2007 | | | | 10 | 41 | 51 | 1,217 | 5,201 | 6,581 | 1,960 | 122 | | 15,183 |
| TOTAL | 40 | 56 | 288 | 3,991 | 8,817 | 6,546 | 56,870 | 161,727 | 242,440 | 64,115 | 4,067 | 63 | 549,020 |
| 10-Year Average | | | | 10 | 22 | 163 | 2,119 | 4,490 | 6,437 | 1,261 | 85 | | 14,587 |

# ROCK ISLAND DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| Jan 1 – Apr 13 | Video recording 24 hours per day/7 days a week (except during annual maintenance period).<br>Video counting daily from 0700 to 1530 hours Pacific Standard Time, starting March 13. |
| Apr 14 – Nov 15 | Video recording 24 hours per day/7 days a week.<br>Video counting daily from 0700 to 1530 hours Pacific Standard Time. |
| Nov 16 – Dec 31 | No video recording or fish counting during this period. |

## FISH LADDER OPERATING SCHEDULE

***Left Bank Ladder***

| | |
|---|---|
| Jan 1 – Jan 21 | Fishway in service. |
| Jan 22 – Feb 4 | Fishway out of service for 2006/2007 annual maintenance. |
| Feb 5 – Dec 31 | Fishway in service. |

***Middle Ladder***

| | |
|---|---|
| Jan 1 – Jan 8 | Fishway in service. |
| Jan 9 – Jan 30 | Fishway out of service for 2006/2007 annual maintenance. |
| Jan 31 – Dec 31 | Fishway in service. |

***Right Bank Ladder***

| | |
|---|---|
| Jan 1 – Jan 8 | Fishway out of service for 2006/2007 annual maintenance. |
| Jan 9 – Dec 2 | Fishway in service. |
| Dec 3 – Dec 31 | Fishway out of service for 2007/2008 annual maintenance. |

## FISHWAY ACTIVITIES

The Rock Island Bypass Trap was operated by the Washington Department of Fish and Wildlife from April 1 through August 31, 2007. Juvenile fish were sampled daily during this time period.

The adult fish PIT tag system was operational throughout the 2007 adult fish migration. PIT tag detections from all three fishways were uploaded daily to PTAGIS.

In 2007, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rock Island Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Monitoring will occur through June 2009.

TABLE 147

**MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCK ISLAND DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | 61 | 5,525 | 8,598 | 22,926 | 6,754 | 2,395 | 1,194 | 206 | | 47,659 |
| STEELHEAD | | | | 27 | 25 | 33 | 830 | 4,378 | 5,943 | 1,888 | 172 | | 13,296 |
| SOCKEYE | | | | | | 3,293 | 21,416 | 406 | 5 | 2 | | | 25,122 |
| COHO | | | | | | | | 2 | 2,243 | 13,977 | 930 | | 17,152 |
| PINK | | | | | | | | | | | | | |
| TOTAL | | | | 88 | 5,550 | 11,924 | 45,172 | 11,540 | 10,586 | 17,061 | 1,308 | | 103,229 |
| LAMPREY | | | | | | 5 | 75 | 802 | 413 | 4 | | | 1,299 |
| BULL TROUT | | | | | 4 | 18 | 21 | 3 | | | | | 46 |

TABLE 148

**MONTHLY FISH PASSAGE SUMMARY REPORT** **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | | | | | | | | | | | | 167.3 | 0.0 | * | 41.0 |
| Apr 2 | | | | | | | | | | | | 179.3 | 0.0 | * | 41.0 |
| Apr 3 | | | | | | | | | | | | 194.2 | 0.0 | * | 41.0 |
| Apr 4 | | | | | | | | | | | | 187.2 | 0.0 | * | 41.0 |
| Apr 5 | | | | | | | | | | | | 174.7 | 0.0 | * | 41.0 |
| Apr 6 | | | | | | | | | | | | 155.2 | 0.0 | * | 42.1 |
| Apr 7 | | | | | | | | | | | | 144.9 | 0.0 | * | 42.1 |
| Apr 8 | | | | | | | | | | | | 146.2 | 0.0 | * | 42.1 |
| Apr 9 | | | | | | | | | | | | 141.4 | 0.0 | * | 43.0 |
| Apr 10 | | | | | | | | | | | | 140.4 | 0.0 | * | 43.0 |
| Apr 11 | | | | | | | | | | | | 150.1 | 0.0 | * | 43.0 |
| Apr 12 | | | | | | | | | | | | 148.6 | 0.0 | * | 43.0 |
| Apr 13 | | | | | | | | | | | | 158.5 | 0.0 | * | 43.0 |
| Apr 14 | 2 | | | | | | | 3 | 3 | | | 172.3 | 0.0 | 13.0 | 44.4 |
| Apr 15 | 0 | | | | | | | 4 | 1 | | | 140.8 | 0.0 | 12.6 | 44.1 |
| Apr 16 | 0 | | | | | | | 2 | 0 | | | 151.2 | 0.0 | 12.6 | 44.4 |
| Apr 17 | 0 | | | | | | | 0 | 0 | | | 160.4 | 16.6 | 12.6 | 44.8 |
| Apr 18 | 0 | | | | | | | 0 | 0 | | | 158.4 | 16.5 | 12.6 | 44.8 |
| Apr 19 | 0 | | | | | | | 0 | 0 | | | 164.8 | 15.8 | 12.6 | 45.0 |
| Apr 20 | 1 | | | | | | | 2 | 0 | | | 163.6 | 16.5 | 13.4 | 45.1 |
| Apr 21 | 0 | | | | | | | 2 | 2 | | | 154.4 | 14.9 | 13.6 | 45.3 |
| Apr 22 | 3 | | | | | | | 0 | 0 | | | 121.1 | 13.6 | 13.6 | 45.7 |
| Apr 23 | 2 | | | | | | | 1 | 0 | | | 163.4 | 16.5 | 12.6 | 46.0 |
| Apr 24 | 1 | | | | | | | 1 | 1 | | | 160.1 | 16.0 | 16.6 | 46.4 |
| Apr 25 | 0 | | | | | | | 3 | 1 | | | 165.5 | 16.1 | 16.4 | 46.8 |
| Apr 26 | 0 | | | | | | | 0 | 0 | | | 160.2 | 16.2 | 15.6 | 47.1 |
| Apr 27 | 5 | | | | | | | 2 | 0 | | | 159.6 | 16.1 | 15.0 | 47.1 |
| Apr 28 | 8 | | | | | | | 1 | 0 | | | 148.1 | 16.1 | 15.0 | 47.5 |
| Apr 29 | 12 | | | | | | | 5 | 3 | | | 128.9 | 13.4 | 15.0 | 47.5 |
| Apr 30 | 27 | | | | | | | 1 | 0 | | | 169.4 | 17.0 | 15.0 | 47.5 |
| TOTAL | 61 | | | | | | | 27 | 11 | | | | | | |
| AVG. | 4 | | | | | | | 2 | 1 | | | 157.7 | 7.4 | 14.0 | 44.2 |

*Data unavailable

TABLE 149

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 22 | | | 0 | | | | 2 | 1 | 0 | | 163.0 | 16.1 | 11.0 | 47.8 |
| May 2 | 12 | | | 0 | | | | 1 | 1 | 0 | | 154.8 | 16.1 | 11.0 | 47.8 |
| May 3 | 48 | | | 0 | | | | 2 | 1 | 0 | | 159.9 | 16.9 | 15.6 | 48.0 |
| May 4 | 137 | | | 1 | | | | 2 | 1 | 0 | | 180.3 | 16.1 | 15.6 | 48.0 |
| May 5 | 86 | | | 1 | | | | 0 | 0 | 0 | | 165.8 | 18.1 | 15.4 | 47.8 |
| May 6 | 105 | | | 7 | | | | 0 | 0 | 0 | | 158.0 | 14.4 | 16.0 | 48.2 |
| May 7 | 131 | | | 7 | | | | 1 | 1 | 0 | | 188.3 | 19.6 | 16.0 | 48.7 |
| May 8 | 170 | | | 6 | | | | 1 | 1 | 0 | | 210.6 | 21.9 | 16.6 | 49.3 |
| May 9 | 145 | | | 2 | | | | 1 | 0 | 0 | | 183.4 | 20.7 | 17.0 | 49.5 |
| May 10 | 146 | | | 8 | | | | 2 | 2 | 0 | | 168.2 | 20.0 | 8.0 | 49.6 |
| May 11 | 159 | | | 4 | | | | 1 | 1 | 0 | | 156.6 | 17.7 | 8.2 | 50.2 |
| May 12 | 121 | | | 4 | | | | 4 | 2 | 0 | | 153.6 | 16.6 | 9.6 | 50.4 |
| May 13 | 245 | | | 16 | | | | 0 | 0 | 0 | | 165.0 | 12.8 | 12.0 | 50.5 |
| May 14 | 367 | | | 29 | | | | 1 | 0 | 0 | | 151.5 | 18.3 | 8.0 | 50.5 |
| May 15 | 241 | | | 29 | | | | 0 | 0 | 0 | | 167.8 | 17.0 | 8.2 | 50.7 |
| May 16 | 137 | | | 24 | | | | 4 | 1 | 1 | | 170.3 | 16.3 | 11.4 | 50.9 |
| May 17 | 124 | | | 24 | | | | 0 | 0 | 0 | | 167.2 | 16.4 | 11.4 | 51.4 |
| May 18 | 260 | | | 65 | | | | 0 | 0 | 0 | | 165.8 | 15.6 | 12.5 | 51.6 |
| May 19 | 184 | | | 46 | | | | 0 | 0 | 0 | | 150.3 | 13.9 | 12.0 | 52.0 |
| May 20 | 128 | | | 42 | | | | 1 | 1 | 0 | | 147.8 | 11.9 | 11.5 | 52.0 |
| May 21 | 200 | | | 87 | | | | 0 | 0 | 0 | | 164.4 | 17.2 | 10.5 | 52.0 |
| May 22 | 123 | | | 88 | | | | 0 | 0 | 0 | | 171.6 | 17.2 | 10.5 | 51.6 |
| May 23 | 156 | | | 80 | | | | 0 | 0 | 0 | | 161.9 | 17.3 | 10.0 | 51.8 |
| May 24 | 157 | | | 66 | | | | 0 | 0 | 0 | | 173.6 | 16.8 | 10.0 | 52.5 |
| May 25 | 136 | | | 88 | | | | 1 | 0 | 1 | | 167.4 | 16.1 | 12.0 | 52.5 |
| May 26 | 123 | | | 111 | | | | 1 | 0 | 1 | | 177.5 | 16.2 | 11.8 | 52.9 |
| May 27 | 74 | | | 73 | | | | 0 | 0 | 0 | | 170.7 | 13.9 | 12.5 | 53.2 |
| May 28 | 112 | | | 97 | | | | 0 | 0 | 0 | | 171.8 | 15.4 | 12.5 | 53.4 |
| May 29 | 96 | | | 86 | | | | 0 | 0 | 0 | | 176.5 | 18.0 | 14.5 | 54.1 |
| May 30 | 67 | | | 66 | | | | 0 | 0 | 1 | | 173.8 | 16.1 | 14.5 | 54.0 |
| May 31 | 65 | | | 91 | | | | 0 | 0 | 0 | | 164.2 | 17.2 | 14.0 | 54.1 |
| TOTAL | 4,277 | | | 1,248 | | | | 25 | 13 | 4 | | | | | |
| AVG. | 138 | | | 40 | | | | 1 | 0 | | | 167.8 | 16.7 | 12.3 | 50.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|---|---|
| SPRING | 4,338 | 1,248 | 52 | 24 | 4 |

TABLE 150

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 89 | | | 60 | | | 0 | 0 | 0 | 2 | 0 | 162.0 | 16.6 | 15.0 | 54.1 |
| Jun 2 | 60 | | | 93 | | | 0 | 1 | 1 | 0 | 0 | 155.9 | 29.8 | 13.5 | 55.2 |
| Jun 3 | 107 | | | 82 | | | 0 | 0 | 0 | 0 | 0 | 129.5 | 28.0 | 13.5 | 55.9 |
| Jun 4 | 38 | | | 46 | | | 0 | 0 | 0 | 0 | 0 | 168.8 | 35.6 | 14.0 | 56.8 |
| Jun 5 | 47 | | | 55 | | | 0 | 2 | 2 | 0 | 0 | 183.1 | 36.0 | 13.5 | 56.3 |
| Jun 6 | 81 | | | 72 | | | 0 | 0 | 0 | 0 | 0 | 157.7 | 35.2 | 13.2 | 55.6 |
| Jun 7 | 60 | | | 61 | | | 0 | 0 | 0 | 0 | 0 | 173.7 | 35.1 | 5.0 | 55.2 |
| Jun 8 | 63 | | | 45 | | | 0 | 0 | 0 | 3 | 0 | 194.0 | 40.1 | 5.8 | 55.6 |
| Jun 9 | 42 | | | 21 | | | 1 | 0 | 0 | 1 | 0 | 182.6 | 36.8 | 4.4 | 55.9 |
| Jun 10 | 68 | | | 27 | | | 2 | 0 | 0 | 0 | 0 | 168.0 | 32.4 | 4.8 | 55.0 |
| Jun 11 | 65 | | | 36 | | | 0 | 1 | 1 | 1 | 0 | 179.5 | 37.5 | 5.2 | 54.9 |
| Jun 12 | 81 | | | 39 | | | 3 | 1 | 0 | 2 | 0 | 179.3 | 35.3 | 5.8 | 55.2 |
| Jun 13 | 90 | | | 49 | | | 2 | 1 | 0 | 2 | 0 | 164.1 | 34.2 | 6.0 | 56.5 |
| Jun 14 | 63 | | | 39 | | | 6 | 1 | 1 | 0 | 0 | 168.3 | 34.7 | 11.0 | 57.0 |
| Jun 15 | 84 | | | 24 | | | 6 | 1 | 0 | 0 | 0 | 174.8 | 33.1 | 11.4 | 57.4 |
| Jun 16 | 75 | | | 21 | | | 5 | 0 | 0 | 0 | 0 | 170.6 | 30.4 | 11.0 | 57.0 |
| Jun 17 | 123 | | | 48 | | | 14 | 0 | 0 | 0 | 1 | 142.9 | 25.5 | 9.8 | 57.2 |
| Jun 18 | 213 | | | 57 | | | 25 | 1 | 1 | 0 | 0 | 135.9 | 33.7 | 9.0 | 57.7 |
| Jun 19 | 187 | | | 22 | | | 23 | 0 | 0 | 1 | 0 | 166.4 | 32.9 | 11.5 | 57.7 |
| Jun 20 | 275 | | | 77 | | | 34 | 2 | 0 | 1 | 1 | 164.2 | 30.0 | 11.6 | 58.6 |
| Jun 21 | 225 | | | 58 | | | 40 | 3 | 3 | 1 | 0 | 164.9 | 32.0 | 12.0 | 58.5 |
| Jun 22 | 335 | | | 48 | | | 68 | 1 | 1 | 1 | 0 | 160.5 | 29.4 | 11.6 | 58.6 |
| Jun 23 | 354 | | | 86 | | | 116 | 0 | 0 | 0 | 2 | 133.2 | 27.0 | 10.8 | 58.6 |
| Jun 24 | | 105 | | 37 | | | 112 | 0 | 0 | 0 | 0 | 105.7 | 23.3 | 11.2 | 59.2 |
| Jun 25 | | 832 | | 88 | | | 251 | 2 | 2 | 2 | 0 | 139.1 | 32.8 | 11.8 | 59.2 |
| Jun 26 | | 756 | | 87 | | | 386 | 4 | 0 | 0 | 0 | 138.0 | 28.2 | 12.2 | 59.7 |
| Jun 27 | | 749 | | 120 | | | 434 | 1 | 0 | 0 | 0 | 157.2 | 27.8 | 12.6 | 59.9 |
| Jun 28 | | 437 | | 91 | | | 466 | 6 | 6 | 0 | 1 | 142.8 | 27.9 | 12.6 | 59.7 |
| Jun 29 | | 400 | | 74 | | | 466 | 3 | 1 | 0 | 0 | 150.5 | 28.9 | 13.5 | 59.5 |
| Jun 30 | | 690 | | 141 | | | 833 | 2 | 2 | 1 | 0 | 123.2 | 23.1 | 13.5 | 59.5 |
| TOTAL | 2,825 | 3,969 | | 1,804 | | | 3,293 | 33 | 21 | 18 | 5 | | | | |
| AVG. | 123 | 567 | | 60 | | | 110 | 1 | 1 | 1 | 0 | 157.9 | 31.1 | 10.6 | 57.3 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 7,163 | 2,414 |
| SUMMER | 3,969 | 638 |
| TOTALS | 11,132 | 3,052 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 3,293 | 85 | 45 | 22 | 5 |

TABLE 151

**MONTHLY FISH PASSAGE SUMMARY REPORT** **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 688 | | 160 | | | 975 | 2 | 1 | 1 | 0 | 116.7 | 19.1 | 13.0 | 59.7 |
| Jul 2 | | 841 | | 108 | | | 911 | 7 | 4 | 0 | 1 | 130.5 | 28.3 | 13.5 | 60.3 |
| Jul 3 | | 1,076 | | 150 | | | 1,513 | 4 | 2 | 0 | 0 | 109.4 | 30.0 | 15.2 | 61.0 |
| Jul 4 | | 747 | | 133 | | | 1,684 | 10 | 5 | 0 | 2 | 127.8 | 25.7 | 15.5 | 61.3 |
| Jul 5 | | 832 | | 120 | | | 1,774 | 8 | 5 | 1 | 3 | 146.6 | 27.8 | 15.5 | 61.7 |
| Jul 6 | | 836 | | 146 | | | 1,288 | 10 | 6 | 1 | 1 | 126.9 | 23.6 | 15.8 | 62.2 |
| Jul 7 | | 1,190 | | 191 | | | 2,010 | 10 | 5 | 0 | 3 | 115.5 | 21.2 | 15.4 | 62.4 |
| Jul 8 | | 879 | | 217 | | | 1,806 | 17 | 8 | 2 | 1 | 105.2 | 17.1 | 15.0 | 62.6 |
| Jul 9 | | 551 | | 154 | | | 1,167 | 20 | 8 | 3 | 3 | 137.6 | 27.1 | 15.0 | 63.1 |
| Jul 10 | | 656 | | 163 | | | 1,161 | 7 | 5 | 1 | 0 | 144.4 | 30.9 | 14.8 | 63.5 |
| Jul 11 | | 598 | | 188 | | | 904 | 14 | 8 | 1 | 2 | 153.4 | 30.2 | 14.8 | 63.5 |
| Jul 12 | | 703 | | 110 | | | 698 | 21 | 14 | 0 | 3 | 156.9 | 27.7 | 15.2 | 63.1 |
| Jul 13 | | 676 | | 123 | | | 717 | 30 | 12 | 0 | 1 | 161.6 | 28.3 | 14.5 | 62.6 |
| Jul 14 | | 531 | | 119 | | | 720 | 20 | 8 | 0 | 0 | 163.5 | 28.1 | 14.5 | 62.4 |
| Jul 15 | | 750 | | 190 | | | 591 | 24 | 9 | 2 | 1 | 145.8 | 20.5 | 15.5 | 62.8 |
| Jul 16 | | 697 | | 174 | | | 443 | 11 | 7 | 0 | 1 | 148.2 | 29.1 | 15.5 | 63.1 |
| Jul 17 | | 635 | | 138 | | | 385 | 24 | 14 | 0 | 1 | 126.4 | 30.0 | 15.8 | 63.7 |
| Jul 18 | | 363 | | 132 | | | 322 | 23 | 11 | 0 | 3 | 132.3 | 29.1 | 15.6 | 63.7 |
| Jul 19 | | 546 | | 103 | | | 294 | 32 | 13 | 0 | 3 | 135.3 | 27.8 | 15.8 | 63.3 |
| Jul 20 | | 796 | | 154 | | | 325 | 27 | 18 | 3 | 3 | 141.2 | 23.9 | 17.5 | 63.3 |
| Jul 21 | | 533 | | 110 | | | 268 | 35 | 15 | 4 | 1 | 132.1 | 21.9 | 17.2 | 63.1 |
| Jul 22 | | 450 | | 108 | | | 185 | 39 | 21 | 0 | 0 | 116.6 | 21.2 | 17.2 | 63.5 |
| Jul 23 | | 415 | | 130 | | | 238 | 44 | 27 | 0 | 2 | 127.9 | 26.3 | 17.4 | 64.0 |
| Jul 24 | | 327 | | 82 | | | 239 | 49 | 25 | 1 | 1 | 138.5 | 29.1 | 17.5 | 64.4 |
| Jul 25 | | 373 | | 67 | | | 198 | 38 | 18 | 1 | 4 | 144.2 | 28.6 | 17.5 | 64.9 |
| Jul 26 | | 358 | | 76 | | | 150 | 33 | 23 | 0 | 3 | 153.3 | 29.4 | 17.5 | 65.1 |
| Jul 27 | | 366 | | 108 | | | 139 | 43 | 15 | 0 | 5 | 144.7 | 28.4 | 16.0 | 65.1 |
| Jul 28 | | 324 | | 90 | | | 94 | 56 | 32 | 0 | 6 | 115.5 | 24.1 | 15.8 | 64.9 |
| Jul 29 | | 336 | | 82 | | | 88 | 48 | 27 | 0 | 6 | 113.4 | 22.7 | 15.5 | 65.1 |
| Jul 30 | | 430 | | 97 | | | 70 | 60 | 35 | 0 | 9 | 133.3 | 28.6 | 15.5 | 65.1 |
| Jul 31 | | 394 | | 106 | | | 59 | 64 | 26 | 0 | 6 | 153.9 | 27.3 | 16.0 | 65.7 |
| TOTAL | | 18,897 | | 4,029 | | | 21,416 | 830 | 427 | 21 | 75 | | | | |
| AVG. | | 610 | | 130 | | | 691 | 27 | 14 | 1 | 2 | 135.4 | 26.2 | 15.7 | 63.2 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 7,163 | 2,414 |
| SUMMER | 22,866 | 4,667 |
| TOTALS | 30,029 | 7,081 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 24,709 | 915 | 472 | 43 | 80 |

TABLE 152

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 307 | | 103 | 0 | 0 | 50 | 57 | 25 | 0 | 4 | 144.7 | 29.4 | 16.8 | 66.0 |
| Aug 2 | | 368 | | 78 | 0 | 0 | 43 | 85 | 52 | 1 | 7 | 108.3 | 26.6 | 16.5 | 66.2 |
| Aug 3 | | 367 | | 102 | 0 | 0 | 28 | 74 | 39 | 0 | 8 | 127.8 | 25.2 | 16.6 | 66.2 |
| Aug 4 | | 398 | | 78 | 0 | 0 | 63 | 81 | 44 | 2 | 15 | 122.1 | 21.9 | 16.8 | 65.8 |
| Aug 5 | | 274 | | 61 | 0 | 0 | 32 | 104 | 63 | 0 | 7 | 83.8 | 21.8 | 16.8 | 66.6 |
| Aug 6 | | 274 | | 83 | 0 | 0 | 26 | 109 | 55 | 0 | 14 | 110.0 | 27.4 | 17.1 | 66.7 |
| Aug 7 | | 272 | | 84 | 0 | 0 | 28 | 104 | 54 | 0 | 29 | 119.4 | 27.2 | 17.0 | 66.9 |
| Aug 8 | | 232 | | 77 | 0 | 0 | 17 | 131 | 68 | 0 | 26 | 120.8 | 24.1 | 17.2 | 66.7 |
| Aug 9 | | 207 | | 84 | 0 | 0 | 15 | 128 | 82 | 0 | 16 | 132.7 | 24.0 | 17.0 | 66.4 |
| Aug 10 | | 199 | | 64 | 0 | 0 | 7 | 113 | 55 | 0 | 20 | 126.7 | 24.4 | 17.2 | 66.2 |
| Aug 11 | | 151 | | 60 | 0 | 0 | 11 | 130 | 62 | 0 | 31 | 111.0 | 23.4 | 17.5 | 66.2 |
| Aug 12 | | 117 | | 50 | 0 | 0 | 4 | 96 | 37 | 0 | 26 | 104.1 | 22.2 | 17.0 | 66.6 |
| Aug 13 | | 146 | | 64 | 0 | 0 | 7 | 116 | 66 | 0 | 28 | 138.2 | 26.1 | 16.5 | 66.9 |
| Aug 14 | | 143 | | 56 | 0 | 0 | 6 | 115 | 57 | 0 | 35 | 137.6 | 24.5 | 17.0 | 66.9 |
| Aug 15 | | 98 | | 54 | 0 | 0 | 3 | 107 | 52 | 0 | 28 | 130.7 | 26.2 | 17.5 | 67.3 |
| Aug 16 | | 126 | | 51 | 0 | 0 | 7 | 132 | 66 | 0 | 20 | 89.7 | 21.6 | 17.5 | 67.3 |
| Aug 17 | | 88 | | 36 | 0 | 0 | 9 | 113 | 59 | 0 | 28 | 101.5 | 20.3 | 17.4 | 67.3 |
| Aug 18 | | 113 | | 47 | 0 | 0 | 9 | 132 | 60 | 0 | 33 | 79.9 | 18.1 | 17.2 | 67.6 |
| Aug 19 | | 99 | | 30 | 0 | 0 | 6 | 122 | 70 | 0 | 17 | 59.1 | 17.8 | 17.5 | 67.8 |
| Aug 20 | | 115 | | 60 | 0 | 0 | 5 | 142 | 67 | 0 | 23 | 116.4 | 23.6 | 17.5 | 67.5 |
| Aug 21 | | 103 | | 50 | 0 | 0 | 3 | 174 | 76 | 0 | 25 | 121.9 | 17.9 | 17.5 | 67.3 |
| Aug 22 | | 70 | | 19 | 0 | 0 | 4 | 155 | 80 | 0 | 28 | 115.6 | 0.1 | 17.6 | 67.1 |
| Aug 23 | | 119 | | 36 | 0 | 0 | 3 | 158 | 82 | 0 | 49 | 110.2 | 0.0 | 17.0 | 67.1 |
| Aug 24 | | 133 | | 42 | 0 | 0 | 3 | 182 | 78 | 0 | 20 | 112.0 | 0.0 | 17.5 | 67.3 |
| Aug 25 | | 91 | | 22 | 0 | 0 | 6 | 191 | 104 | 0 | 30 | 82.7 | 0.0 | 17.5 | 67.3 |
| Aug 26 | | 128 | | 53 | 0 | 0 | 2 | 197 | 86 | 0 | 24 | 59.4 | 0.0 | 17.0 | 67.6 |
| Aug 27 | | 94 | | 42 | 0 | 0 | 3 | 218 | 92 | 0 | 38 | 102.0 | 0.0 | 17.0 | 67.6 |
| Aug 28 | | 78 | | 29 | 0 | 0 | 1 | 243 | 112 | 0 | 31 | 102.1 | 0.0 | 17.0 | 67.8 |
| Aug 29 | | 47 | | 21 | 0 | 0 | 3 | 206 | 90 | 0 | 45 | 112.4 | 0.0 | 17.2 | 68.0 |
| Aug 30 | | 55 | | 24 | 1 | 0 | 0 | 198 | 79 | 0 | 54 | 127.8 | 0.0 | 16.8 | 68.2 |
| Aug 31 | | 56 | | 26 | 0 | 1 | 2 | 265 | 107 | 0 | 43 | 123.2 | 0.0 | 17.2 | 68.5 |
| TOTAL | | 5,068 | | 1,686 | 1 | 1 | 406 | 4,378 | 2,119 | 3 | 802 | | | | |
| AVG. | | 163 | | 54 | 0 | 0 | 13 | 141 | 68 | 0 | 26 | 110.8 | 15.9 | 17.1 | 67.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 7,163 | 2,414 |
| SUMMER | 27,934 | 6,353 |
| TOTALS | 35,097 | 8,767 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 1 | 1 | 25,115 | 5,293 | 2,591 | 46 | 882 |

TABLE 153

**MONTHLY FISH PASSAGE SUMMARY REPORT** **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | 48 | | 17 | 0 | 0 | 3 | 205 | 103 | | 33 | 82.3 | 0.0 | 17.2 | 68.2 |
| Sep 2 | | | 109 | 27 | 1 | 0 | 0 | 190 | 79 | | 33 | 69.5 | 0.0 | 17.2 | 68.2 |
| Sep 3 | | | 79 | 22 | 2 | 2 | 0 | 185 | 80 | | 22 | 70.9 | 0.0 | 17.4 | 68.2 |
| Sep 4 | | | 65 | 34 | 0 | 3 | 0 | 252 | 103 | | 17 | 67.6 | 0.0 | 17.4 | 68.5 |
| Sep 5 | | | 66 | 24 | 0 | 0 | 0 | 227 | 106 | | 20 | 78.6 | 0.0 | 17.5 | 68.7 |
| Sep 6 | | | 49 | 26 | 0 | 1 | 0 | 306 | 152 | | 44 | 48.7 | 0.0 | 17.2 | 68.9 |
| Sep 7 | | | 37 | 40 | 0 | 2 | 0 | 226 | 87 | | 14 | 58.0 | 0.0 | 17.0 | 68.7 |
| Sep 8 | | | 38 | 20 | 1 | 2 | 0 | 167 | 76 | | 13 | 57.6 | 0.0 | 17.0 | 68.7 |
| Sep 9 | | | 55 | 20 | 1 | 0 | 0 | 211 | 70 | | 23 | 47.8 | 0.0 | 17.0 | 68.5 |
| Sep 10 | | | 92 | 19 | 2 | 9 | 1 | 238 | 97 | | 12 | 69.0 | 0.0 | 17.8 | 68.5 |
| Sep 11 | | | 90 | 28 | 1 | 4 | 0 | 231 | 103 | | 19 | 67.4 | 0.0 | 18.0 | 68.5 |
| Sep 12 | | | 94 | 30 | 18 | 16 | 0 | 249 | 78 | | 25 | 69.7 | 0.0 | 18.0 | 68.5 |
| Sep 13 | | | 78 | 32 | 9 | 11 | 0 | 206 | 84 | | 25 | 66.3 | 0.0 | 17.6 | 68.4 |
| Sep 14 | | | 60 | 46 | 6 | 5 | 0 | 215 | 67 | | 9 | 66.6 | 0.0 | 17.4 | 68.2 |
| Sep 15 | | | 47 | 34 | 16 | 4 | 0 | 265 | 69 | | 22 | 53.7 | 0.0 | 17.6 | 68.0 |
| Sep 16 | | | 48 | 19 | 26 | 6 | 0 | 142 | 59 | | 14 | 52.7 | 0.0 | 17.4 | 67.6 |
| Sep 17 | | | 49 | 39 | 15 | 9 | 0 | 123 | 44 | | 20 | 61.0 | 0.0 | 17.4 | 67.1 |
| Sep 18 | | | 53 | 27 | 25 | 5 | 0 | 170 | 73 | | 4 | 59.9 | 0.0 | 17.0 | 66.7 |
| Sep 19 | | | 88 | 16 | 47 | 13 | 0 | 254 | 89 | | 10 | 67.6 | 0.0 | 17.2 | 66.6 |
| Sep 20 | | | 44 | 16 | 32 | 8 | 1 | 207 | 84 | | 9 | 55.6 | 0.0 | 16.5 | 66.2 |
| Sep 21 | | | 47 | 19 | 26 | 8 | 0 | 199 | 68 | | 2 | 47.4 | 0.0 | 16.6 | 65.8 |
| Sep 22 | | | 57 | 12 | 53 | 18 | 0 | 175 | 59 | | 2 | 39.0 | 0.0 | 16.0 | 65.7 |
| Sep 23 | | | 47 | 24 | 82 | 20 | 0 | 243 | 103 | | 0 | 37.5 | 0.0 | 17.0 | 64.9 |
| Sep 24 | | | 34 | 45 | 80 | 9 | 0 | 198 | 75 | | 8 | 71.0 | 0.0 | 16.5 | 64.6 |
| Sep 25 | | | 27 | 14 | 104 | 6 | 0 | 152 | 63 | | 2 | 67.0 | 0.0 | 17.0 | 65.1 |
| Sep 26 | | | 46 | 14 | 299 | 21 | 0 | 196 | 58 | | 3 | 65.3 | 0.0 | 17.0 | 64.8 |
| Sep 27 | | | 35 | 29 | 208 | 13 | 0 | 144 | 70 | | 6 | 66.8 | 0.0 | 16.5 | 64.8 |
| Sep 28 | | | 16 | 10 | 226 | 4 | 0 | 120 | 58 | | 1 | 46.8 | 0.0 | 16.6 | 64.6 |
| Sep 29 | | | 45 | 7 | 444 | 10 | 0 | 141 | 43 | | 0 | 40.1 | 0.0 | 16.6 | 63.5 |
| Sep 30 | | | 22 | 20 | 303 | 7 | 0 | 106 | 37 | | 1 | 46.9 | 0.0 | 16.2 | 66.4 |
| TOTAL | | 48 | 1,617 | 730 | 2,027 | 216 | 5 | 5,943 | 2,337 | | 413 | | | | |
| AVG. | | | 56 | 24 | 68 | 7 | 0 | 198 | 78 | | 14 | 59.9 | 0.0 | 17.1 | 67.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 7,163 | 2,414 |
| SUMMER | 27,982 | 6,370 |
| FALL | 1,617 | 713 |
| TOTALS | 36,762 | 9,497 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 2,028 | 217 | 25,120 | 11,236 | 4,928 | 46 | 1,295 |

TABLE 154

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 24 | 22 | 262 | 27 | 0 | 108 | 36 | | 2 | 67.8 | 0.0 | 16.0 | 63.1 |
| Oct 2 | | | 29 | 25 | 408 | 8 | 0 | 134 | 51 | | 0 | 74.0 | 0.0 | 16.4 | 63.1 |
| Oct 3 | | | 36 | 24 | 486 | 13 | 0 | 157 | 65 | | 2 | 77.7 | 0.0 | 16.4 | 62.6 |
| Oct 4 | | | 18 | 26 | 386 | 19 | 0 | 117 | 54 | | 0 | 63.9 | 0.0 | 16.4 | 63.1 |
| Oct 5 | | | 23 | 9 | 411 | 8 | 0 | 112 | 55 | | 0 | 74.2 | 0.0 | 17.4 | 61.5 |
| Oct 6 | | | 34 | 22 | 490 | 6 | 0 | 115 | 35 | | 0 | 38.6 | 0.0 | 17.8 | 61.7 |
| Oct 7 | | | 26 | 14 | 542 | 29 | 0 | 65 | 28 | | 0 | 41.9 | 0.0 | 17.8 | 61.7 |
| Oct 8 | | | 19 | 8 | 370 | 6 | 0 | 53 | 23 | | 0 | 75.4 | 0.0 | 18.0 | 61.7 |
| Oct 9 | | | 32 | 18 | 393 | 12 | 0 | 63 | 18 | | 0 | 73.5 | 0.0 | 16.2 | 61.5 |
| Oct 10 | | | 23 | 8 | 419 | 7 | 0 | 79 | 24 | | 0 | 76.0 | 0.0 | 16.7 | 61.7 |
| Oct 11 | | | 40 | 30 | 786 | 13 | 2 | 93 | 32 | | 0 | 74.6 | 0.0 | 16.7 | 61.5 |
| Oct 12 | | | 53 | 22 | 835 | 11 | 0 | 87 | 23 | | 0 | 65.7 | 0.0 | 15.8 | 61.7 |
| Oct 13 | | | 24 | 15 | 531 | 10 | 0 | 73 | 27 | | 0 | 48.6 | 0.0 | 16.4 | 61.5 |
| Oct 14 | | | 21 | 7 | 598 | 7 | 0 | 34 | 14 | | 0 | 55.0 | 0.0 | 17.0 | 61.7 |
| Oct 15 | | | 21 | 4 | 788 | 4 | 0 | 57 | 14 | | 0 | 76.7 | 0.0 | 17.2 | 61.9 |
| Oct 16 | | | 23 | 13 | 1,076 | 16 | 0 | 101 | 13 | | 0 | 72.7 | 0.0 | 17.0 | 62.1 |
| Oct 17 | | | 16 | 11 | 534 | 11 | 0 | 45 | 10 | | 0 | 68.7 | 0.0 | 17.2 | 61.7 |
| Oct 18 | | | 26 | 4 | 509 | 10 | 0 | 26 | 9 | | 0 | 72.7 | 0.0 | 16.8 | 61.5 |
| Oct 19 | | | 30 | 19 | 503 | 10 | 0 | 59 | 11 | | 0 | 66.2 | 0.0 | 16.6 | 60.8 |
| Oct 20 | | | 20 | 9 | 356 | 6 | 0 | 36 | 18 | | 0 | 55.1 | 0.0 | 16.2 | 60.8 |
| Oct 21 | | | 16 | 9 | 416 | 16 | 0 | 38 | 16 | | 0 | 45.7 | 0.0 | 16.2 | 60.1 |
| Oct 22 | | | 25 | 14 | 227 | 4 | 0 | 24 | 9 | | 0 | 64.3 | 0.0 | 16.5 | 59.5 |
| Oct 23 | | | 22 | 24 | 271 | 8 | 0 | 22 | 6 | | 0 | 63.6 | 0.0 | 16.5 | 59.5 |
| Oct 24 | | | 17 | 14 | 308 | 4 | 0 | 37 | 10 | | 0 | 65.9 | 0.0 | 17.0 | 59.9 |
| Oct 25 | | | 25 | 19 | 359 | 3 | 0 | 22 | 4 | | 0 | 82.6 | 0.0 | 17.5 | 59.4 |
| Oct 26 | | | 21 | 11 | 220 | 12 | 0 | 35 | 13 | | 0 | 78.8 | 0.0 | 17.7 | 59.0 |
| Oct 27 | | | 16 | 5 | 249 | 6 | 0 | 25 | 3 | | 0 | 58.8 | 0.0 | 17.6 | 58.8 |
| Oct 28 | | | 29 | 10 | 142 | 4 | 0 | 21 | 9 | | 0 | 47.9 | 0.0 | 17.8 | 58.3 |
| Oct 29 | | | 19 | 8 | 401 | 8 | 0 | 21 | 5 | | 0 | 71.1 | 0.0 | 18.0 | 58.5 |
| Oct 30 | | | 6 | 5 | 54 | 3 | 0 | 8 | 3 | | 0 | 75.2 | 0.0 | 17.8 | 58.5 |
| Oct 31 | | | 18 | 13 | 338 | 8 | 0 | 21 | 9 | | 0 | 83.1 | 0.0 | 18.2 | 58.1 |
| TOTAL | | | 752 | 442 | 13,668 | 309 | 2 | 1,888 | 647 | | 4 | | | | |
| AVG. | | | 24 | 14 | 441 | 10 | 0 | 61 | 21 | | 0 | 66.3 | 0.0 | 17.0 | 60.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 7,163 | 2,414 |
| SUMMER | 27,982 | 6,370 |
| FALL | 2,369 | 1,155 |
| TOTALS | 37,514 | 9,939 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 15,696 | 526 | 25,122 | 13,124 | 5,575 | 46 | 1,299 |

TABLE 155

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCK ISLAND PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 10 | 9 | 253 | 0 | | 10 | 3 | | | 69.4 | 0.0 | 18.2 | 57.7 |
| Nov 2 | | | 16 | 1 | 140 | 2 | | 7 | 3 | | | 82.6 | 0.0 | 18.0 | 57.4 |
| Nov 3 | | | 13 | 5 | 148 | 2 | | 22 | 6 | | | 47.7 | 0.0 | 17.8 | 57.4 |
| Nov 4 | | | 12 | 4 | 94 | 3 | | 8 | 2 | | | 46.7 | 0.0 | 18.2 | 56.8 |
| Nov 5 | | | 21 | 3 | 86 | 4 | | 12 | 4 | | | 61.8 | 0.0 | 17.8 | 56.8 |
| Nov 6 | | | 12 | 0 | 35 | 3 | | 17 | 5 | | | 73.7 | 0.0 | 17.2 | 56.5 |
| Nov 7 | | | 8 | 3 | 31 | 2 | | 8 | 1 | | | 72.5 | 0.0 | 17.2 | 56.5 |
| Nov 8 | | | 16 | 1 | 29 | 1 | | 4 | 1 | | | 62.9 | 0.0 | 17.4 | 56.1 |
| Nov 9 | | | 12 | 0 | 26 | 2 | | 10 | 3 | | | 92.3 | 0.0 | 17.4 | 55.9 |
| Nov 10 | | | 11 | 1 | 13 | 0 | | 19 | 7 | | | 90.4 | 0.0 | 17.0 | 55.8 |
| Nov 11 | | | 8 | 2 | 20 | 1 | | 10 | 5 | | | 76.9 | 0.0 | 17.0 | 55.9 |
| Nov 12 | | | 5 | 0 | 13 | 0 | | 8 | 4 | | | 99.4 | 0.0 | 17.2 | 55.8 |
| Nov 13 | | | 10 | 3 | 7 | 1 | | 16 | 4 | | | 101.3 | 0.0 | 17.2 | 55.4 |
| Nov 14 | | | 7 | 1 | 6 | 0 | | 8 | 4 | | | 113.7 | 0.0 | 17.2 | 55.0 |
| Nov 15 | | | 10 | 2 | 7 | 1 | | 13 | 4 | | | 100.0 | 0.0 | 17.2 | 55.0 |
| Nov 16 | | | | | | | | | | | | 52.5 | 0.0 | * | * |
| Nov 17 | | | | | | | | | | | | 60.4 | 0.0 | * | * |
| Nov 18 | | | | | | | | | | | | 64.5 | 0.0 | * | * |
| Nov 19 | | | | | | | | | | | | 88.5 | 0.0 | * | * |
| Nov 20 | | | | | | | | | | | | 73.6 | 0.0 | * | * |
| Nov 21 | | | | | | | | | | | | 81.0 | 0.0 | * | * |
| Nov 22 | | | | | | | | | | | | 63.2 | 0.0 | * | * |
| Nov 23 | | | | | | | | | | | | 79.4 | 0.0 | * | * |
| Nov 24 | | | | | | | | | | | | 87.9 | 0.0 | * | * |
| Nov 25 | | | | | | | | | | | | 85.6 | 0.0 | * | * |
| Nov 26 | | | | | | | | | | | | 118.1 | 0.0 | * | * |
| Nov 27 | | | | | | | | | | | | 90.8 | 0.0 | * | * |
| Nov 28 | | | | | | | | | | | | 106.1 | 0.0 | * | * |
| Nov 29 | | | | | | | | | | | | 97.2 | 0.0 | * | * |
| Nov 30 | | | | | | | | | | | | 94.9 | 0.0 | * | * |
| TOTAL | | | 171 | 35 | 908 | 22 | | 172 | 56 | | | | | | |
| AVG. | | | 11 | 2 | 61 | 1 | | 11 | 4 | | | 81.2 | 0.0 | 17.5 | 56.3 |

*Data unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|---|---|---|
| SPRING | 7,163 | 2,414 | 16,604 | 548 | 25,122 | 13,296 | 5,631 | 46 | 1,299 |
| SUMMER | 27,982 | 6,370 | | | | | | | |
| FALL | 2,540 | 1,190 | | | | | | | |
| TOTALS | 37,685 | 9,974 | | | | | | | |

TABLE 156

**MONTHLY COUNT OF STEELHEAD**

**ROCK ISLAND DAM 1981 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981 | | | | | | 30 | 282 | 1,886 | 2,338 | 2,493 | 347 | | 7,376 |
| 1982 | | | | 118 | 113 | 8 | 157 | 2,246 | 4,260 | 2,785 | 192 | | 9,879 |
| 1983 | | | | 53 | 36 | 18 | 579 | 5,811 | 16,942 | 5,619 | 608 | | 29,666 |
| 1984 | | | | 88 | 220 | 180 | 1,962 | 7,925 | 10,507 | 3,687 | 527 | | 25,096 |
| 1985 | | | | 106 | 393 | 729 | 4,886 | 6,588 | 16,089 | 2,889 | 319 | | 31,999 |
| 1986 | | | | 145 | 168 | 192 | 3,383 | 10,036 | 5,883 | 2,731 | 347 | | 22,885 |
| 1987 | | | | 100 | 94 | 112 | 1,242 | 4,900 | 4,095 | 1,842 | 347 | | 12,732 |
| 1988 | | | | 193 | 156 | 173 | 737 | 2,813 | 3,446 | 1,523 | 200 | | 9,241 |
| 1989 | | | | 135 | 73 | 66 | 847 | 2,685 | 3,999 | 1,355 | 191 | | 9,351 |
| 1990 | | | | 55 | 46 | 99 | 953 | 2,385 | 2,577 | 736 | 93 | | 6,944 |
| 1991 | | | | 30 | 51 | 45 | 916 | 3,322 | 4,194 | 2,165 | 204 | | 10,927 |
| 1992 | | | | 86 | 193 | 315 | 1,603 | 2,821 | 5,714 | 1,599 | 145 | | 12,476 |
| 1993 | | | | 97 | 88 | 87 | 1,427 | 546 | 1,930 | 597 | 57 | | 4,829 |
| 1994 | | | | 29 | 16 | 50 | 631 | 1,151 | 2,181 | 1,437 | 125 | | 5,620 |
| 1995 | | | | 23 | 35 | 44 | 421 | 951 | 2,153 | 510 | 38 | | 4,175 |
| 1996 | | | | 17 | 34 | 27 | 303 | 2,224 | 3,701 | 920 | 79 | | 7,305 |
| 1997 | | | | 19 | 22 | 7 | 300 | 2,343 | 3,461 | 1,466 | 108 | | 7,726 |
| 1998 | | | | 20 | 13 | 29 | 449 | 726 | 2,486 | 1,141 | 98 | | 4,962 |
| 1999 | | | | 17 | 22 | 37 | 377 | 2,429 | 2,900 | 540 | 40 | | 6,362 |
| 2000 | | | | 18 | 5 | 74 | 1,356 | 3,299 | 4,974 | 727 | 63 | | 10,516 |
| 2001 | | | | 49 | 23 | 185 | 3,094 | 9,380 | 12,129 | 3,461 | 292 | | 28,613 |
| 2002 | | | | 53 | 20 | 85 | 2,327 | 6,374 | 5,144 | 1,200 | 79 | | 15,282 |
| 2003 | | | | 17 | 17 | 51 | 1,664 | 4,233 | 9,339 | 2,061 | 127 | | 17,509 |
| 2004 | | | | 50 | 108 | 363 | 2,518 | 2,983 | 11,794 | 1,658 | 73 | | 19,547 |
| 2005 | | | | 30 | 29 | 135 | 1,423 | 3,362 | 5,925 | 1,422 | 83 | | 12,409 |
| 2006 | | | | 44 | 19 | 23 | 693 | 2,332 | 5,175 | 1,032 | 64 | | 9,382 |
| 2007 | | | | 27 | 25 | 33 | 830 | 4,378 | 5,943 | 1,888 | 172 | | 13,296 |
| Total | | | | 1,619 | 2,019 | 3,197 | 35,360 | 100,129 | 159,279 | 49,484 | 5,018 | | 356,105 |
| 10-Year Average | | | | 33 | 28 | 102 | 1,473 | 3,950 | 6,581 | 1,513 | 109 | | 13,788 |

# ROCKY REACH DAM

## FISH COUNTING SCHEDULE

| | |
|---|---|
| Jan 1 - Apr 13 | Video recording 24 hours per day/7 days a week (except during annual maintenance period).<br>Video counting daily from 0700 to 1530 hours Pacific Standard Time, starting March 13. |
| Apr 14 - Nov 15 | Video recording 24 hours per day/7 days a week.<br>Video counting daily from 0700 to 1530 hours Pacific Standard Time. |
| Nov 16 - Dec 31 | No video recording or fish counting during this period. |

## FISH LADDER OPERATING SCHEDULE

| | |
|---|---|
| Jan 1 to Feb 28 | Fishway out of service for 2006/2007 annual maintenance. |
| Mar 1 to Dec 2 | Fishway in service. |
| Dec 3 to Dec 31 | Fishway out of service for 2007/2008 annual maintenance. |

## FISHWAY ACTIVITIES

The adult fish PIT tag system was operational throughout the 2007 adult fish migration. PIT tag detections in the fishway were uploaded daily to PTAGIS.

The juvenile fish bypass system was operated for fish passage from April 1 to August 31, 2007. Juvenile fish sampling occurred over the same time frame. The annual bypass (biological) evaluation included an acoustic tag survival study and collection of data on species composition and fish condition.

In 2007, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rocky Reach Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Monitoring will occur through June 2009.

TABLE 157

**MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCKY REACH DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | 13 | 2,427 | 3,732 | 18,538 | 6,894 | 1,730 | 1,063 | 184 | | 34,581 |
| STEELHEAD | | | | 93 | 75 | 46 | 507 | 2,777 | 4,247 | 2,227 | 174 | | 10,146 |
| SOCKEYE | | | | | | 1,734 | 18,425 | 504 | 17 | 3 | | | 20,683 |
| COHO | | | | | | | | 1 | 199 | 4,073 | 465 | | 4,738 |
| PINK | | | | | | | | | | | | | 0 |
| TOTAL | | | | 106 | 2,502 | 5,512 | 37,470 | 10,176 | 6,193 | 7,366 | 823 | | 70,148 |
| LAMPREY | | | | | | | 31 | 328 | 181 | 1 | | | 541 |
| BULL TROUT | | | | 1 | 30 | 28 | 12 | 2 | 1 | 3 | | | 77 |

TABLE 158

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **APRIL 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Apr 1 | BEGIN COUNTING 14 APRIL | | | | | | | | | | | 162.9 | 7.7 | * | * |
| Apr 2 | | | | | | | | | | | | 178.0 | 23.8 | * | * |
| Apr 3 | | | | | | | | | | | | 195.2 | 39.1 | * | * |
| Apr 4 | | | | | | | | | | | | 189.0 | 32.3 | * | * |
| Apr 5 | | | | | | | | | | | | 173.4 | 11.2 | * | * |
| Apr 6 | | | | | | | | | | | | 152.2 | 0.9 | * | * |
| Apr 7 | | | | | | | | | | | | 138.9 | 0.0 | * | * |
| Apr 8 | | | | | | | | | | | | 139.6 | 0.0 | * | * |
| Apr 9 | | | | | | | | | | | | 142.5 | 0.0 | * | * |
| Apr 10 | | | | | | | | | | | | 133.9 | 0.0 | * | * |
| Apr 11 | | | | | | | | | | | | 149.3 | 10.0 | * | 43.2 |
| Apr 12 | | | | | | | | | | | | 142.7 | 7.8 | * | 43.3 |
| Apr 13 | | | | | | | | | | | | 154.7 | 5.0 | * | 43.3 |
| Apr 14 | 0 | | | | | | | 3 | 3 | 0 | | 166.3 | 14.4 | 10.0 | 39.7 |
| Apr 15 | 0 | | | | | | | 2 | 0 | 0 | | 133.9 | 0.0 | 10.0 | 43.7 |
| Apr 16 | 0 | | | | | | | 8 | 2 | 0 | | 151.6 | 4.6 | 10.0 | 43.7 |
| Apr 17 | 0 | | | | | | | 8 | 4 | 0 | | 153.0 | 3.9 | 10.0 | 44.1 |
| Apr 18 | 0 | | | | | | | 8 | 4 | 0 | | 158.9 | 12.3 | 11.0 | 44.1 |
| Apr 19 | 0 | | | | | | | 7 | 4 | 0 | | 160.8 | 8.8 | 11.0 | 44.8 |
| Apr 20 | 0 | | | | | | | 6 | 3 | 0 | | 161.0 | 12.0 | 12.5 | 44.6 |
| Apr 21 | 0 | | | | | | | 4 | 2 | 0 | | 149.1 | 0.0 | 12.5 | 44.4 |
| Apr 22 | 0 | | | | | | | 7 | 5 | 1 | | 118.2 | 0.7 | 12.5 | 44.4 |
| Apr 23 | 1 | | | | | | | 4 | 3 | 0 | | 162.5 | 12.4 | 14.0 | 45.5 |
| Apr 24 | 1 | | | | | | | 8 | 2 | 0 | | 157.8 | 11.1 | 15.0 | 45.7 |
| Apr 25 | 0 | | | | | | | 9 | 4 | 0 | | 161.9 | 7.7 | 15.0 | 45.1 |
| Apr 26 | 0 | | | | | | | 8 | 5 | 0 | | 152.5 | 2.7 | 15.0 | 46.4 |
| Apr 27 | 0 | | | | | | | 5 | 2 | 0 | | 158.5 | 12.3 | 13.0 | 46.9 |
| Apr 28 | 0 | | | | | | | 3 | 1 | 0 | | 140.2 | 0.2 | 13.0 | 46.9 |
| Apr 29 | 4 | | | | | | | 1 | 0 | 0 | | 124.0 | 3.5 | 13.0 | 47.1 |
| Apr 30 | 7 | | | | | | | 2 | 1 | 0 | | 165.9 | 9.4 | 13.0 | 46.6 |
| TOTAL | 13 | | | | | | | 93 | 45 | 1 | | | | | |
| AVG. | | | | | | | | 5 | 3 | 0 | | 154.3 | 8.5 | 12.4 | 44.7 |

*Data Unavailable

TABLE 159

**MONTHLY FISH PASSAGE SUMMARY REPORT** **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MAY 2006**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 7 | | | 0 | | | | 6 | 3 | 0 | | 158.5 | 5.6 | 13.0 | 46.0 |
| May 2 | 3 | | | 0 | | | | 1 | 1 | 0 | | 148.0 | 5.6 | 13.0 | 46.6 |
| May 3 | 13 | | | 0 | | | | 4 | 2 | 0 | | 156.7 | 3.8 | 13.0 | 46.9 |
| May 4 | 7 | | | 0 | | | | 2 | 2 | 0 | | 176.9 | 22.6 | 13.5 | 46.9 |
| May 5 | 33 | | | 0 | | | | 4 | 4 | 0 | | 160.4 | 3.3 | 13.5 | 46.9 |
| May 6 | 38 | | | 0 | | | | 4 | 2 | 1 | | 152.8 | 0.0 | 13.5 | 47.5 |
| May 7 | 63 | | | 0 | | | | 1 | 0 | 0 | | 192.1 | 25.2 | 13.0 | 47.8 |
| May 8 | 35 | | | 0 | | | | 1 | 1 | 0 | | 208.9 | 22.3 | 13.0 | 48.0 |
| May 9 | 91 | | | 0 | | | | 5 | 3 | 1 | | 174.3 | 0.0 | 13.0 | 48.4 |
| May 10 | 49 | | | 1 | | | | 3 | 0 | 0 | | 161.4 | 0.0 | 13.0 | 48.6 |
| May 11 | 67 | | | 3 | | | | 5 | 3 | 1 | | 147.2 | 0.0 | 12.0 | 48.9 |
| May 12 | 73 | | | 2 | | | | 3 | 1 | 0 | | 149.1 | 0.0 | 11.0 | 48.9 |
| May 13 | 65 | | | 1 | | | | 4 | 2 | 0 | | 155.2 | 0.0 | 8.0 | 49.6 |
| May 14 | 109 | | | 4 | | | | 5 | 0 | 0 | | 141.8 | 0.0 | 8.0 | 49.6 |
| May 15 | 156 | | | 3 | | | | 2 | 0 | 1 | | 160.8 | 0.0 | 8.5 | 49.6 |
| May 16 | 98 | | | 5 | | | | 1 | 0 | 3 | | 161.9 | 0.0 | 8.5 | 50.2 |
| May 17 | 76 | | | 7 | | | | 0 | 0 | 2 | | 156.1 | 0.5 | 7.5 | 50.2 |
| May 18 | 123 | | | 23 | | | | 2 | 0 | 1 | | 156.5 | 0.0 | 7.0 | 50.9 |
| May 19 | 63 | | | 25 | | | | 2 | 1 | 2 | | 140.5 | 0.0 | 7.5 | 50.9 |
| May 20 | 105 | | | 35 | | | | 2 | 0 | 0 | | 136.3 | 0.0 | 8.0 | 50.9 |
| May 21 | 42 | | | 17 | | | | 4 | 2 | 1 | | 158.5 | 0.0 | 4.5 | 50.9 |
| May 22 | 82 | | | 35 | | | | 0 | 0 | 1 | | 163.9 | 0.0 | 4.0 | 50.9 |
| May 23 | 95 | | | 32 | | | | 3 | 1 | 3 | | 155.5 | 0.0 | 6.0 | 51.1 |
| May 24 | 48 | | | 28 | | | | 0 | 0 | 3 | | 168.5 | 0.0 | 4.5 | 51.8 |
| May 25 | 81 | | | 18 | | | | 1 | 1 | 0 | | 160.9 | 0.0 | 4.5 | 51.6 |
| May 26 | 72 | | | 30 | | | | 2 | 1 | 1 | | 171.8 | 0.0 | 6.0 | 52.3 |
| May 27 | 46 | | | 49 | | | | 3 | 1 | 1 | | 162.8 | 0.0 | 7.0 | 52.7 |
| May 28 | 46 | | | 84 | | | | 2 | 1 | 3 | | 161.9 | 0.0 | 8.0 | 52.3 |
| May 29 | 42 | | | 55 | | | | 2 | 0 | 2 | | 171.1 | 0.0 | 9.5 | 53.2 |
| May 30 | 42 | | | 45 | | | | 0 | 0 | 2 | | 165.3 | 0.0 | 9.0 | 53.2 |
| May 31 | 21 | | | 34 | | | | 1 | 1 | 1 | | 154.5 | 0.0 | 9.0 | 54.0 |
| TOTAL | 1,891 | | | 536 | | | | 75 | 33 | 30 | | | | | |
| AVG. | 61 | | | 17 | | | | 2 | 1 | | | 161.0 | 2.9 | 9.3 | 49.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|---|---|
| SPRING | 1,904 | 536 | 168 | 78 | 31 |

TABLE 160

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 44 | | | 39 | | | 0 | 2 | 1 | 1 | | 153.0 | 5.0 | 9.0 | 54.1 |
| Jun 2 | 35 | | | 30 | | | 0 | 2 | 1 | 1 | | 144.8 | 14.3 | 9.0 | 54.3 |
| Jun 3 | 28 | | | 26 | | | 1 | 2 | 2 | 2 | | 115.2 | 11.2 | 9.0 | 55.2 |
| Jun 4 | 39 | | | 47 | | | 0 | 1 | 1 | 3 | | 156.5 | 19.1 | 7.5 | 55.9 |
| Jun 5 | 22 | | | 23 | | | 0 | 0 | 0 | 0 | | 167.3 | 17.3 | 7.5 | 55.2 |
| Jun 6 | 20 | | | 19 | | | 0 | 1 | 1 | 1 | | 144.1 | 14.9 | 6.0 | 54.9 |
| Jun 7 | 19 | | | 41 | | | 0 | 3 | 1 | 0 | | 169.9 | 21.5 | 5.0 | 54.3 |
| Jun 8 | 22 | | | 43 | | | 0 | 1 | 0 | 2 | | 189.0 | 27.9 | 5.0 | 55.6 |
| Jun 9 | 17 | | | 20 | | | 0 | 0 | 0 | 1 | | 176.3 | 16.5 | 5.0 | 54.1 |
| Jun 10 | 15 | | | 20 | | | 0 | 0 | 0 | 0 | | 163.7 | 14.2 | 5.5 | 54.1 |
| Jun 11 | 11 | | | 14 | | | 0 | 0 | 0 | 1 | | 173.9 | 16.7 | 8.5 | 54.0 |
| Jun 12 | 25 | | | 8 | | | 2 | 2 | 2 | 3 | | 173.2 | 15.1 | 8.5 | 54.5 |
| Jun 13 | 25 | | | 11 | | | 2 | 0 | 0 | 2 | | 158.9 | 14.5 | 11.5 | 55.6 |
| Jun 14 | 27 | | | 11 | | | 0 | 2 | 1 | 2 | | 162.8 | 15.6 | 11.5 | 55.6 |
| Jun 15 | 14 | | | 11 | | | 1 | 3 | 1 | 1 | | 173.3 | 23.7 | 11.5 | 55.6 |
| Jun 16 | 42 | | | 6 | | | 5 | 1 | 0 | 0 | | 163.9 | 17.4 | 12.0 | 56.3 |
| Jun 17 | 32 | | | 5 | | | 8 | 1 | 1 | 2 | | 135.6 | 11.1 | 12.0 | 56.3 |
| Jun 18 | 37 | | | 4 | | | 10 | 2 | 1 | 0 | | 131.2 | 14.5 | 12.0 | 56.8 |
| Jun 19 | 46 | | | 6 | | | 13 | 0 | 0 | 4 | | 162.7 | 14.6 | 12.0 | 56.8 |
| Jun 20 | 40 | | | 4 | | | 16 | 1 | 1 | 0 | | 159.8 | 13.8 | 12.0 | 57.6 |
| Jun 21 | 142 | | | 9 | | | 27 | 1 | 0 | 0 | | 161.3 | 14.4 | 12.0 | 57.9 |
| Jun 22 | 132 | | | 6 | | | 39 | 2 | 1 | 1 | | 153.7 | 13.1 | 12.0 | 57.9 |
| Jun 23 | 119 | | | 9 | | | 50 | 3 | 1 | 0 | | 123.8 | 12.1 | 12.0 | 58.3 |
| Jun 24 | | 164 | | 15 | | | 67 | 3 | 2 | 0 | | 102.2 | 10.5 | 13.5 | 58.3 |
| Jun 25 | | 212 | | 12 | | | 110 | 0 | 0 | 1 | | 135.1 | 14.2 | 15.0 | 58.3 |
| Jun 26 | | 245 | | 20 | | | 147 | 0 | 0 | 0 | | 133.6 | 11.5 | 15.0 | 57.6 |
| Jun 27 | | 552 | | 28 | | | 229 | 0 | 0 | 0 | | 149.7 | 12.2 | 15.0 | 58.3 |
| Jun 28 | | 195 | | 26 | | | 219 | 4 | 1 | 0 | | 139.9 | 11.2 | 15.0 | 59.0 |
| Jun 29 | | 541 | | 32 | | | 345 | 4 | 1 | 0 | | 145.7 | 12.7 | 15.0 | 58.8 |
| Jun 30 | | 289 | | 36 | | | 443 | 5 | 4 | 0 | | 115.8 | 9.9 | 15.0 | 58.8 |
| TOTAL | 953 | 2,198 | | 581 | | | 1,734 | 46 | 24 | 28 | | | | | |
| AVG. | 41 | 314 | | 19 | | | 58 | 2 | 1 | 1 | | 151.2 | 14.7 | 10.7 | 56.3 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,857 | 948 |
| SUMMER | 2,198 | 169 |
| TOTALS | 5,055 | 1,117 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|
| 1,734 | 214 | 102 | 59 |

TABLE 161

**MONTHLY FISH PASSAGE SUMMARY REPORT** **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 469 | | 41 | | | 543 | 7 | 4 | 0 | 0 | 112.7 | 8.4 | 16.0 | 59.5 |
| Jul 2 | | 430 | | 73 | | | 761 | 5 | 4 | 2 | 0 | 123.1 | 13.0 | 17.5 | 59.5 |
| Jul 3 | | 446 | | 59 | | | 601 | 7 | 1 | 0 | 0 | 106.8 | 13.3 | 17.5 | 60.4 |
| Jul 4 | | 885 | | 114 | | | 1,256 | 1 | 1 | 0 | 0 | 122.6 | 11.4 | 17.5 | 60.4 |
| Jul 5 | | 314 | | 83 | | | 1,425 | 8 | 2 | 0 | 0 | 141.9 | 17.5 | 15.5 | 61.0 |
| Jul 6 | | 534 | | 131 | | | 1,333 | 7 | 2 | 0 | 0 | 118.7 | 11.1 | 15.5 | 61.0 |
| Jul 7 | | 749 | | 145 | | | 1,297 | 4 | 2 | 3 | 1 | 107.8 | 9.0 | 15.5 | 61.0 |
| Jul 8 | | 892 | | 151 | | | 1,415 | 7 | 3 | 1 | 1 | 98.6 | 7.0 | 16.5 | 62.1 |
| Jul 9 | | 312 | | 57 | | | 486 | 6 | 5 | 0 | 1 | 134.1 | 12.1 | 16.0 | 62.4 |
| Jul 10 | | 105 | | 57 | | | 895 | 9 | 0 | 0 | 1 | 140.6 | 12.9 | 16.0 | 63.0 |
| Jul 11 | | 729 | | 176 | | | 1,453 | 11 | 6 | 0 | 0 | 149.7 | 12.7 | 16.0 | 62.8 |
| Jul 12 | | 637 | | 223 | | | 1,067 | 7 | 0 | 2 | 0 | 151.9 | 12.8 | 16.0 | 62.2 |
| Jul 13 | | 505 | | 128 | | | 727 | 9 | 7 | 1 | 0 | 158.8 | 12.4 | 16.0 | 61.5 |
| Jul 14 | | 480 | | 152 | | | 736 | 15 | 6 | 0 | 1 | 157.5 | 12.3 | 16.0 | 61.9 |
| Jul 15 | | 569 | | 173 | | | 670 | 20 | 6 | 0 | 1 | 144.0 | 8.3 | 17.0 | 61.9 |
| Jul 16 | | 511 | | 146 | | | 553 | 13 | 7 | 0 | 0 | 143.7 | 12.6 | 18.0 | 62.1 |
| Jul 17 | | 595 | | 150 | | | 382 | 11 | 5 | 0 | 0 | 123.8 | 12.5 | 18.0 | 62.8 |
| Jul 18 | | 57 | | 58 | | | 177 | 12 | 4 | 1 | 2 | 128.9 | 13.1 | 18.0 | 61.9 |
| Jul 19 | | 210 | | 84 | | | 248 | 11 | 3 | 0 | 0 | 131.1 | 13.2 | 18.0 | 62.4 |
| Jul 20 | | 750 | | 210 | | | 419 | 26 | 6 | 0 | 0 | 139.7 | 10.0 | 18.0 | 62.4 |
| Jul 21 | | 845 | | 164 | | | 304 | 25 | 13 | 0 | 0 | 127.8 | 9.1 | 18.0 | 62.4 |
| Jul 22 | | 406 | | 125 | | | 278 | 21 | 6 | 0 | 2 | 112.1 | 8.9 | 18.0 | 63.3 |
| Jul 23 | | 250 | | 108 | | | 219 | 23 | 6 | 0 | 2 | 127.7 | 11.5 | 18.0 | 63.3 |
| Jul 24 | | 447 | | 166 | | | 230 | 23 | 13 | 0 | 1 | 136.0 | 12.2 | 18.0 | 64.0 |
| Jul 25 | | 341 | | 127 | | | 208 | 25 | 12 | 1 | 2 | 143.4 | 12.4 | 17.0 | 64.4 |
| Jul 26 | | 493 | | 105 | | | 196 | 35 | 12 | 0 | 3 | 151.4 | 12.7 | 16.5 | 64.4 |
| Jul 27 | | 465 | | 97 | | | 131 | 28 | 11 | 1 | 2 | 143.0 | 12.7 | 16.5 | 64.2 |
| Jul 28 | | 320 | | 91 | | | 146 | 28 | 11 | 0 | 5 | 113.0 | 11.3 | 16.5 | 64.2 |
| Jul 29 | | 279 | | 79 | | | 82 | 22 | 9 | 0 | 0 | 113.1 | 10.3 | 16.5 | 64.2 |
| Jul 30 | | 293 | | 91 | | | 87 | 45 | 17 | 0 | 3 | 133.1 | 12.6 | 17.0 | 64.4 |
| Jul 31 | | 487 | | 169 | | | 100 | 36 | 10 | 0 | 3 | 153.4 | 11.5 | 17.5 | 64.8 |
| TOTALS | | 14,805 | | 3,733 | | | 18,425 | 507 | 194 | 12 | 31 | | | | |
| AVG. | | 478 | | 120 | | | 594 | 16 | 6 | | 1 | 131.9 | 11.6 | 16.9 | 62.4 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,857 | 948 |
| SUMMER | 17,003 | 3,902 |
| TOTAL | 19,860 | 4,850 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 20,159 | 721 | 296 | 71 | 31 |

TABLE 162

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 364 | | 101 | | 0 | 78 | 42 | 16 | 0 | 7 | 143.2 | 11.6 | 17.5 | 64.9 |
| Aug 2 | | 179 | | 70 | | 0 | 34 | 49 | 22 | 0 | 3 | 106.8 | 11.4 | 17.5 | 65.7 |
| Aug 3 | | 175 | | 80 | | 0 | 38 | 48 | 24 | 0 | 1 | 127.7 | 10.3 | 17.5 | 65.8 |
| Aug 4 | | 638 | | 127 | | 0 | 41 | 61 | 30 | 0 | 2 | 118.8 | 9.8 | 17.5 | 65.8 |
| Aug 5 | | 281 | | 88 | | 0 | 19 | 31 | 13 | 0 | 2 | 82.3 | 10.0 | 17.5 | 65.8 |
| Aug 6 | | 428 | | 80 | | 0 | 35 | 79 | 35 | 0 | 2 | 107.1 | 11.8 | 17.5 | 66.0 |
| Aug 7 | | 300 | | 64 | | 0 | 25 | 84 | 36 | 0 | 3 | 119.7 | 11.3 | 17.0 | 66.2 |
| Aug 8 | | 263 | | 73 | | 0 | 31 | 78 | 41 | 0 | 3 | 122.3 | 10.5 | 17.0 | 66.0 |
| Aug 9 | | 301 | | 60 | | 0 | 26 | 67 | 29 | 0 | 13 | 133.7 | 10.1 | 17.0 | 65.7 |
| Aug 10 | | 247 | | 82 | | 0 | 17 | 69 | 25 | 0 | 5 | 123.8 | 10.5 | 17.0 | 65.7 |
| Aug 11 | | 107 | | 46 | | 0 | 12 | 67 | 26 | 0 | 9 | 111.6 | 9.7 | 17.0 | 65.8 |
| Aug 12 | | 180 | | 52 | | 0 | 14 | 62 | 23 | 0 | 14 | 106.7 | 10.1 | 17.0 | 65.8 |
| Aug 13 | | 153 | | 37 | | 0 | 12 | 77 | 41 | 0 | 10 | 137.0 | 11.6 | 17.0 | 65.8 |
| Aug 14 | | 85 | | 46 | | 0 | 8 | 58 | 20 | 0 | 8 | 138.5 | 10.4 | 17.0 | 66.0 |
| Aug 15 | | 74 | | 50 | | 0 | 15 | 79 | 38 | 0 | 9 | 129.3 | 10.9 | 17.0 | 66.6 |
| Aug 16 | | 100 | | 37 | | 0 | 11 | 59 | 26 | 0 | 24 | 90.2 | 9.1 | 17.0 | 66.6 |
| Aug 17 | | 190 | | 40 | | 0 | 12 | 91 | 39 | 0 | 5 | 100.2 | 8.6 | 17.0 | 67.1 |
| Aug 18 | | 10 | | 7 | | 0 | 5 | 49 | 21 | 0 | 6 | 80.3 | 7.3 | 17.0 | 67.1 |
| Aug 19 | | 146 | | 40 | | 0 | 6 | 50 | 23 | 1 | 11 | 60.0 | 8.6 | 18.0 | 67.8 |
| Aug 20 | | 201 | | 56 | | 0 | 23 | 149 | 68 | 0 | 24 | 116.2 | 9.7 | 19.0 | 67.5 |
| Aug 21 | | 66 | | 27 | | 0 | 8 | 89 | 38 | 0 | 16 | 122.6 | 8.0 | 19.0 | 66.2 |
| Aug 22 | | 118 | | 43 | | 0 | 6 | 136 | 63 | 0 | 19 | 112.4 | 0.0 | 19.0 | 66.2 |
| Aug 23 | | 62 | | 24 | | 0 | 8 | 108 | 41 | 0 | 19 | 113.7 | 0.0 | 19.0 | 67.6 |
| Aug 24 | | 120 | | 27 | | 0 | 3 | 120 | 53 | 0 | 12 | 111.7 | 0.0 | 19.0 | 67.6 |
| Aug 25 | | 99 | | 26 | | 0 | 1 | 101 | 58 | 0 | 5 | 81.3 | 0.0 | 19.0 | 67.6 |
| Aug 26 | | 106 | | 28 | | 1 | 4 | 124 | 47 | 0 | 30 | 59.7 | 0.0 | 19.0 | 67.6 |
| Aug 27 | | 117 | | 23 | | 0 | 6 | 165 | 66 | 1 | 5 | 104.0 | 0.0 | 19.0 | 67.6 |
| Aug 28 | | 66 | | 21 | | 0 | 2 | 110 | 52 | 0 | 29 | 100.9 | 0.0 | 19.0 | 68.0 |
| Aug 29 | | 97 | | 28 | | 0 | 1 | 173 | 72 | 0 | 5 | 113.1 | 0.0 | 19.0 | 68.0 |
| Aug 30 | | 50 | | 12 | | 0 | 2 | 147 | 59 | 0 | 3 | 130.9 | 0.0 | 19.0 | 68.0 |
| Aug 31 | | 56 | | 20 | | 0 | 1 | 155 | 72 | 0 | 24 | 122.9 | 0.5 | 19.0 | 68.2 |
| TOTAL | | 5,379 | | 1,515 | | 1 | 504 | 2,777 | 1,217 | 2 | 328 | | | | |
| AVG. | | 174 | | 49 | | 0 | 16 | 90 | 39 | 0 | 11 | 110.6 | 6.8 | 17.9 | 66.7 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,857 | 948 |
| SUMMER | 22,382 | 5,417 |
| TOTALS | 25,239 | 6,365 |

| COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|
| 1 | 20,663 | 3,498 | 1,513 | 73 | 359 |

TABLE 163

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | 18 | | 12 | 0 | 0 | 0 | 104 | 48 | 0 | 9 | 81.3 | 1.9 | 19.0 | 68.2 |
| Sep 2 | | | 58 | 28 | 0 | 0 | 1 | 113 | 42 | 0 | 7 | 69.3 | 0.0 | 19.0 | 68.4 |
| Sep 3 | | | 50 | 17 | 0 | 1 | 1 | 151 | 67 | 0 | 12 | 72.3 | 0.0 | 19.0 | 68.2 |
| Sep 4 | | | 97 | 14 | 0 | 1 | 2 | 176 | 68 | 0 | 14 | 68.9 | 0.0 | 19.5 | 68.5 |
| Sep 5 | | | 36 | 23 | 0 | 0 | 0 | 121 | 61 | 0 | 21 | 78.1 | 0.0 | 19.5 | 68.9 |
| Sep 6 | | | 61 | 23 | 0 | 1 | 0 | 127 | 53 | 0 | 19 | 46.9 | 0.0 | 19.5 | 69.6 |
| Sep 7 | | | 81 | 21 | 0 | 0 | 0 | 95 | 45 | 0 | 7 | 55.9 | 0.0 | 19.5 | 68.7 |
| Sep 8 | | | 32 | 23 | 0 | 0 | 3 | 189 | 87 | 0 | 12 | 56.9 | 0.0 | 19.5 | 69.3 |
| Sep 9 | | | 28 | 21 | 0 | 0 | 0 | 147 | 60 | 0 | 6 | 48.0 | 0.0 | 19.5 | 69.4 |
| Sep 10 | | | 26 | 11 | 0 | 0 | 0 | 61 | 18 | 0 | 16 | 71.0 | 0.0 | 19.5 | 69.1 |
| Sep 11 | | | 34 | 15 | 0 | 3 | 0 | 144 | 59 | 0 | 8 | 66.2 | 0.0 | 19.5 | 69.1 |
| Sep 12 | | | 66 | 19 | 1 | 1 | 1 | 204 | 78 | 0 | 7 | 70.9 | 0.0 | 19.5 | 68.5 |
| Sep 13 | | | 54 | 22 | 0 | 0 | 0 | 153 | 58 | 0 | 4 | 65.5 | 0.0 | 19.5 | 68.4 |
| Sep 14 | | | 62 | 31 | 0 | 0 | 1 | 236 | 89 | 0 | 1 | 65.8 | 0.0 | 19.5 | 68.2 |
| Sep 15 | | | 28 | 21 | 2 | 1 | 0 | 136 | 46 | 0 | 7 | 54.1 | 0.0 | 19.5 | 68.0 |
| Sep 16 | | | 5 | 16 | 2 | 1 | 0 | 108 | 40 | 0 | 4 | 52.3 | 0.0 | 19.5 | 68.0 |
| Sep 17 | | | 10 | 14 | 0 | 1 | 0 | 76 | 25 | 0 | 5 | 62.0 | 0.0 | 19.5 | 67.1 |
| Sep 18 | | | 16 | 21 | 4 | 0 | 0 | 188 | 60 | 0 | 3 | 62.5 | 0.0 | 19.5 | 67.1 |
| Sep 19 | | | 30 | 37 | 3 | 0 | 1 | 97 | 38 | 1 | 2 | 67.4 | 0.0 | 19.5 | 66.7 |
| Sep 20 | | | 40 | 23 | 4 | 2 | 0 | 136 | 46 | 0 | 1 | 55.9 | 0.0 | 19.5 | 66.4 |
| Sep 21 | | | 24 | 34 | 6 | 2 | 0 | 170 | 64 | 0 | 5 | 46.7 | 0.0 | 19.5 | 66.0 |
| Sep 22 | | | 49 | 25 | 6 | 1 | 0 | 159 | 55 | 0 | 5 | 39.1 | 0.0 | 19.5 | 65.8 |
| Sep 23 | | | 42 | 25 | 8 | 0 | 1 | 116 | 42 | 0 | 3 | 39.0 | 2.9 | 19.5 | 64.9 |
| Sep 24 | | | 29 | 27 | 2 | 0 | 1 | 140 | 50 | 0 | 0 | 74.2 | 0.0 | 19.5 | 64.6 |
| Sep 25 | | | 18 | 18 | 13 | 2 | 0 | 208 | 74 | 0 | 0 | 64.9 | 0.0 | 19.5 | 64.6 |
| Sep 26 | | | 30 | 22 | 10 | 1 | 2 | 109 | 40 | 0 | 1 | 65.2 | 0.0 | 19.5 | 64.8 |
| Sep 27 | | | 17 | 27 | 16 | 5 | 3 | 202 | 52 | 0 | 2 | 67.6 | 0.0 | 19.5 | 64.8 |
| Sep 28 | | | 23 | 22 | 29 | 4 | 0 | 160 | 70 | 0 | 0 | 46.1 | 0.0 | 19.5 | 64.8 |
| Sep 29 | | | 9 | 21 | 35 | 1 | 0 | 104 | 48 | 0 | 0 | 38.3 | 0.0 | 19.5 | 64.0 |
| Sep 30 | | | 15 | 9 | 30 | 0 | 0 | 117 | 33 | 0 | 0 | 45.3 | 0.0 | 19.5 | 63.5 |
| TOTAL | | 18 | 1,070 | 642 | 171 | 28 | 17 | 4,247 | 1,616 | 1 | 181 | | | | |
| AVG. | | | 37 | 21 | 6 | 1 | 1 | 142 | 54 | 0 | 6 | 59.9 | 0.2 | 19.5 | 67.1 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,857 | 948 |
| SUMMER | 22,400 | 5,429 |
| FALL | 1,070 | 630 |
| TOTALS | 26,327 | 7,007 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 171 | 29 | 20,680 | 7,745 | 3,129 | 74 | 540 |

TABLE 164

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 30 | 18 | 91 | 1 | 1 | 241 | 76 | 0 | 1 | 68.0 | 0.3 | 19.5 | 63.3 |
| Oct 2 | | | 19 | 10 | 76 | 0 | 1 | 101 | 40 | 0 | 0 | 72.9 | 0.0 | 19.5 | 63.0 |
| Oct 3 | | | 16 | 17 | 86 | 2 | 0 | 141 | 47 | 0 | 0 | 74.1 | 0.0 | 19.5 | 62.6 |
| Oct 4 | | | 23 | 19 | 92 | 3 | 0 | 190 | 55 | 0 | 0 | 63.2 | 0.0 | 19.5 | 62.4 |
| Oct 5 | | | 18 | 10 | 121 | 0 | 0 | 123 | 43 | 0 | 0 | 73.1 | 0.0 | 19.5 | 62.4 |
| Oct 6 | | | 25 | 14 | 68 | 0 | 0 | 81 | 30 | 0 | 0 | 35.6 | 0.0 | 19.5 | 62.1 |
| Oct 7 | | | 18 | 26 | 71 | 1 | 0 | 98 | 37 | 0 | 0 | 40.2 | 0.0 | 19.5 | 62.1 |
| Oct 8 | | | 56 | 15 | 182 | 2 | 0 | 90 | 23 | 0 | 0 | 74.2 | 0.0 | 19.5 | 61.5 |
| Oct 9 | | | 19 | 9 | 145 | 5 | 1 | 108 | 39 | 0 | 0 | 73.3 | 0.0 | 19.5 | 61.5 |
| Oct 10 | | | 30 | 19 | 151 | 6 | 0 | 78 | 28 | 0 | 0 | 72.5 | 0.0 | 19.5 | 61.5 |
| Oct 11 | | | 15 | 14 | 130 | 1 | 0 | 80 | 23 | 0 | 0 | 73.1 | 0.0 | 19.5 | 61.5 |
| Oct 12 | | | 20 | 25 | 157 | 1 | 0 | 75 | 18 | 1 | 0 | 65.0 | 0.0 | 19.5 | 61.5 |
| Oct 13 | | | 16 | 13 | 208 | 2 | 0 | 79 | 21 | 0 | 0 | 46.3 | 0.0 | 21.0 | 62.1 |
| Oct 14 | | | 22 | 11 | 216 | 6 | 0 | 56 | 17 | 0 | 0 | 54.4 | 0.0 | 23.0 | 62.1 |
| Oct 15 | | | 47 | 7 | 176 | 4 | 0 | 66 | 12 | 0 | 0 | 75.5 | 0.0 | 23.0 | 62.1 |
| Oct 16 | | | 19 | 14 | 174 | 3 | 0 | 51 | 16 | 0 | 0 | 71.0 | 0.0 | 23.0 | 62.1 |
| Oct 17 | | | 15 | 12 | 289 | 0 | 0 | 66 | 21 | 0 | 0 | 66.1 | 0.0 | 23.0 | 62.1 |
| Oct 18 | | | 16 | 11 | 233 | 3 | 0 | 48 | 24 | 0 | 0 | 71.5 | 0.0 | 23.0 | 61.2 |
| Oct 19 | | | 19 | 18 | 222 | 1 | 0 | 55 | 21 | 0 | 0 | 64.9 | 0.0 | 23.0 | 61.2 |
| Oct 20 | | | 22 | 17 | 142 | 3 | 0 | 37 | 13 | 0 | 0 | 53.6 | 0.0 | 23.0 | 61.2 |
| Oct 21 | | | 17 | 7 | 90 | 1 | 0 | 18 | 8 | 0 | 0 | 43.6 | 0.0 | 23.0 | 60.3 |
| Oct 22 | | | 27 | 17 | 107 | 6 | 0 | 35 | 12 | 0 | 0 | 63.8 | 11.9 | 23.0 | 59.5 |
| Oct 23 | | | 19 | 17 | 135 | 0 | 0 | 46 | 13 | 0 | 0 | 60.5 | 0.0 | 23.0 | 59.9 |
| Oct 24 | | | 27 | 9 | 64 | 1 | 0 | 24 | 11 | 0 | 0 | 64.2 | 0.9 | 23.0 | 59.9 |
| Oct 25 | | | 20 | 18 | 110 | 6 | 0 | 71 | 25 | 1 | 0 | 79.9 | 0.0 | 23.0 | 59.4 |
| Oct 26 | | | 8 | 4 | 124 | 1 | 0 | 52 | 15 | 0 | 0 | 74.6 | 0.0 | 23.0 | 59.4 |
| Oct 27 | | | 26 | 6 | 86 | 0 | 0 | 55 | 22 | 0 | 0 | 54.5 | 0.0 | 23.0 | 59.0 |
| Oct 28 | | | 7 | 8 | 74 | 3 | 0 | 24 | 7 | 0 | 0 | 45.0 | 0.0 | 23.0 | 59.0 |
| Oct 29 | | | 23 | 6 | 52 | 0 | 0 | 10 | 5 | 0 | 0 | 66.1 | 0.0 | 23.0 | 58.6 |
| Oct 30 | | | 12 | 7 | 80 | 2 | 0 | 10 | 5 | 1 | 0 | 73.6 | 0.0 | 23.0 | 58.5 |
| Oct 31 | | | 12 | 2 | 55 | 2 | 0 | 18 | 6 | 0 | 0 | 82.6 | 0.0 | 23.0 | 57.0 |
| TOTAL | | | 663 | 400 | 4,007 | 66 | 3 | 2,227 | 733 | 3 | 1 | | | | |
| AVG. | | | 21 | 13 | 129 | 2 | 0 | 72 | 24 | 0 | 0 | 64.4 | 0.4 | 21.6 | 61.0 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,857 | 948 |
| SUMMER | 22,400 | 5,429 |
| FALL | 1,733 | 1,030 |
| TOTALS | 26,990 | 7,407 |

| COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|
| 4,178 | 95 | 20,683 | 9,972 | 3,862 | 77 | 541 |

TABLE 165

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **ROCKY REACH PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 10 | 4 | 100 | 2 | | 13 | 6 | | | 69.8 | 0.0 | 23.0 | 57.7 |
| Nov 2 | | | 10 | 10 | 89 | 1 | | 23 | 6 | | | 82.4 | 0.0 | 23.0 | 57.7 |
| Nov 3 | | | 14 | 3 | 74 | 0 | | 10 | 2 | | | 44.3 | 0.0 | 23.0 | 57.4 |
| Nov 4 | | | 25 | 7 | 48 | 0 | | 14 | 5 | | | 45.4 | 0.0 | 23.0 | 57.0 |
| Nov 5 | | | 13 | 4 | 30 | 1 | | 11 | 3 | | | 61.0 | 0.0 | 23.0 | 57.0 |
| Nov 6 | | | 3 | 2 | 24 | 1 | | 8 | 2 | | | 74.4 | 0.0 | 23.0 | 57.0 |
| Nov 7 | | | 8 | 1 | 22 | 0 | | 6 | 0 | | | 70.1 | 0.0 | 23.0 | 56.1 |
| Nov 8 | | | 10 | 1 | 11 | 0 | | 6 | 2 | | | 62.9 | 0.0 | 23.0 | 56.1 |
| Nov 9 | | | 6 | 0 | 6 | 0 | | 8 | 3 | | | 94.9 | 0.1 | 23.0 | 55.8 |
| Nov 10 | | | 7 | 2 | 15 | 0 | | 12 | 3 | | | 89.6 | 0.0 | 23.0 | 55.8 |
| Nov 11 | | | 5 | 3 | 11 | 0 | | 11 | 2 | | | 74.2 | 0.0 | 23.0 | 55.9 |
| Nov 12 | | | 10 | 2 | 8 | 1 | | 11 | 2 | | | 99.6 | 0.0 | 23.0 | 55.6 |
| Nov 13 | | | 3 | 0 | 3 | 0 | | 20 | 10 | | | 100.7 | 0.0 | 23.0 | 55.4 |
| Nov 14 | | | 13 | 3 | 10 | 1 | | 13 | 8 | | | 114.9 | 0.2 | 23.0 | 55.4 |
| Nov 15 | | | 4 | 1 | 5 | 2 | | 8 | 2 | | | 94.0 | 0.0 | 23.0 | 55.4 |
| Nov 16 | | | | | | | | | | | | 52.6 | 0.0 | * | * |
| Nov 17 | | | | | | | | | | | | 58.8 | 0.0 | * | * |
| Nov 18 | | | | | | | | | | | | 61.8 | 0.0 | * | * |
| Nov 19 | | | | | | | | | | | | 87.0 | 0.0 | * | * |
| Nov 20 | | | | | | | | | | | | 76.1 | 0.0 | * | * |
| Nov 21 | | | | | | | | | | | | 79.4 | 0.0 | * | * |
| Nov 22 | | | | | | | | | | | | 60.3 | 0.0 | * | * |
| Nov 23 | | | | | | | | | | | | 79.6 | 0.0 | * | * |
| Nov 24 | | | | | | | | | | | | 88.4 | 0.0 | * | * |
| Nov 25 | | | | | | | | | | | | 84.4 | 3.5 | * | * |
| Nov 26 | | | | | | | | | | | | 119.2 | 0.0 | * | * |
| Nov 27 | | | | | | | | | | | | 89.6 | 0.0 | * | * |
| Nov 28 | | | | | | | | | | | | 107.5 | 0.0 | * | * |
| Nov 29 | | | | | | | | | | | | 93.0 | 0.0 | * | * |
| Nov 30 | | | | | | | | | | | | 93.1 | 0.0 | * | * |
| TOTAL | | | 141 | 43 | 456 | 9 | | 174 | 56 | | | | | | |
| AVG. | | | 9 | 3 | 30 | 1 | | 12 | 4 | | | 80.3 | 0.1 | 23.0 | 56.4 |

*Data unavailable

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | COHO JACK | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|---|---|---|
| SPRING | 2,857 | 948 | 4,634 | 104 | 20,683 | 10,146 | 3,918 | 77 | 541 |
| SUMMER | 22,400 | 5,429 | | | | | | | |
| FALL | 1,874 | 1,073 | | | | | | | |
| TOTALS | 27,131 | 7,450 | | | | | | | |

TABLE 166

**MONTHLY COUNT OF STEELHEAD**

**ROCKY REACH DAM: 1981 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981 | | | | | | 14 | 173 | 1,309 | 1,827 | 1,691 | 300 | | 5,314 |
| 1982 | | | | 137 | 116 | 5 | 73 | 1,192 | 2,863 | 1,735 | 120 | | 6,241 |
| 1983 | | | | 31 | 18 | 2 | 334 | 3,525 | 11,329 | 4,048 | 411 | | 19,698 |
| 1984 | | | | 41 | 174 | 127 | 1,032 | 5,564 | 7,263 | 2,589 | 438 | | 17,228 |
| 1985 | | | | 63 | 273 | 523 | 3,547 | 4,152 | 11,133 | 2,646 | 381 | | 22,718 |
| 1986 | | | | 61 | 178 | 160 | 2,003 | 6,072 | 4,225 | 2,222 | 236 | | 15,157 |
| 1987 | | | | 67 | 75 | 80 | 567 | 2,574 | 2,361 | 1,210 | 244 | | 7,178 |
| 1988 | | | | 99 | 108 | 108 | 493 | 1,498 | 2,439 | 820 | 112 | | 5,677 |
| 1989 | | | | 62 | 41 | 30 | 458 | 1,442 | 2,721 | 1,134 | 151 | | 6,039 |
| 1990 | | | | 24 | 31 | 33 | 534 | 1,809 | 1,889 | 646 | 67 | | 5,033 |
| 1991 | | | | 19 | 26 | 63 | 584 | 2,346 | 2,996 | 1,473 | 138 | | 7,645 |
| 1992 | | | | 50 | 138 | 203 | 1,026 | 1,861 | 3,051 | 1,093 | 94 | | 7,516 |
| 1993 | | | | 49 | 52 | 24 | 346 | 869 | 1,066 | 379 | 31 | | 2,816 |
| 1994 | | | | 12 | 11 | 30 | 301 | 578 | 1,002 | 821 | 63 | | 2,818 |
| 1995 | | | | 18 | 12 | 9 | 147 | 398 | 827 | 315 | 32 | | 1,758 |
| 1996 | | | | 23 | 26 | 12 | 179 | 1,585 | 2,868 | 969 | 112 | | 5,774 |
| 1997 | | | | 40 | 15 | 1 | 192 | 1,789 | 2,901 | 1,576 | 208 | | 6,722 |
| 1998 | | | | 71 | 18 | 23 | 281 | 671 | 2,025 | 1,127 | 226 | | 4,442 |
| 1999 | | | | 35 | 16 | 46 | 198 | 1,518 | 2,361 | 557 | 84 | | 4,815 |
| 2000 | | | | 62 | 22 | 34 | 679 | 2,276 | 4,289 | 835 | 78 | | 8,275 |
| 2001 | | | | 83 | 33 | 83 | 1,861 | 6,843 | 9,827 | 3,025 | 290 | | 22,045 |
| 2002 | | | | 152 | 33 | 49 | 1,441 | 4,631 | 4,103 | 1,332 | 112 | | 11,853 |
| 2003 | | | | 46 | 4 | 40 | 1,154 | 3,393 | 6,649 | 2,211 | 153 | | 13,650 |
| 2004 | | | | 177 | 142 | 244 | 1,847 | 2,571 | 7,748 | 1,650 | 201 | | 14,580 |
| 2005 | | | | 278 | 85 | 60 | 762 | 2,430 | 4,589 | 1,423 | 83 | | 9,710 |
| 2006 | | | | 117 | 34 | 14 | 401 | 1,774 | 4,557 | 1,028 | 199 | | 8,124 |
| 2007 | | | | 93 | 75 | 46 | 507 | 2,777 | 4,247 | 2,227 | 174 | | 10,146 |
| Total | | | | 1,910 | 1,756 | 2,063 | 21,120 | 67,447 | 113,156 | 40,782 | 4,738 | | 252,972 |
| 10-Year Average | | | | 111 | 46 | 64 | 913 | 2,888 | 5,040 | 1,542 | 160 | | 10,764 |

# WELLS DAM

## FISH COUNTING SCHEDULE

Adult counting schedules at Wells are from May 1 through November 15. Fish passage is assessed by reviewing a videotape record made the previous day. Passage by species and ladder is made for each hour of the day. Counts between 1967 and 1997 were reported for 16 hours (0500 – 2100 PST). Starting in 1998, as per the request of the Wells Coordinating Committee, counts were reported in a 24 hour (0000 – 2400) format. Either format is available upon request from Douglas PUD. Chinook are separated into three populations based upon date of passage through the ladders; spring Chinook (May 1 to June 28), summer Chinook (June 29 to August 28), and fall Chinook (August 29 to November 15). Starting on May 1, 2004, records of passage were made for 12 months of the year. While reports to the Corps are during the historic period of May 1 – November 15, records of passage outside these dates are available from the Douglas PUD upon request.

## FISH LADDER OPERATING SCHEDULE

Annual maintenance is performed on the ladders at Wells to clean the ladder of debris and service the attraction flow pumps. During this time, the ladders are taken out of service and de-watered. The dates of this work in 2007 were as follows:

**East Ladder**
January 1 – March 8 Inspection & Maintenance
December 1 – 31 (Outage will extend into 2008)

**West Ladder**
March 12 – 30 Inspection and Maintenance

## ADULT PASSAGE FACILITIES

The two fish ladders at Wells Dam are conventional staircase type fish ladders with 73 pools. The ladders are located at the east and west endwall of the dam. The lower 56 pools discharge a constant 48 cfs dropping one foot at each pool into the attraction chamber in the lower ladder. Discharge from pool 73 through pool 57 is through two 30 inch by 16 1/2 inch submerged orifices. Discharge from pool 56 to pool 1 is over a seven foot wide overflow section in the wall between pools with additional flow through two 18 inch by 15 inch submerged orifices. Pools 67 and 68 have adult PIT-tag detection weirs that interrogate passage of all adults just prior to the ladder exit. Information on PIT-tag detection of adults using both east and west ladders is found on the PTAGIS web page (http://www.pittag.org/web/Adult/index.html). Pool No. 64 of both fishways contains facilities for counting fish. The main features of this facility are a counting room with an observation window adjacent to the fish ladder, a telescoping gate and light panel are used to guide the fish closer to the observation window. At pool 40 are provisions for sorting and trapping various species of fish. The fisheries agencies and tribes

develop broodstock collection protocols at the beginning of each season for collection of spring and summer chinook, sockeye and coho salmon and summer steelhead. These plans are submitted for review by the fisheries agencies and tribes that serve on the Wells Habitat Conservation Plan Coordinating Committee.

At the bottom of the fish ladder, projecting downstream from the line of the hydrocombine, is the portion of the endwall structure which incorporates the functions of fish attraction and collection. Two-turbine pumps deliver attraction flow to the water supply chamber located adjacent to the ladder. The total flow from the turbine pump(s) plus the 48 cfs coming down the ladder from the reservoir is discharged to the tailwater through a single fish attraction opening per ladder. These openings are eight-foot wide vertical slot openings with vertical miter gates. Originally an additional set of side gates were provided. Ladder entrances were designed to have the side gate be open at 2 – 4' and the end gate would automatically adjust its width to maintain a one foot differential in the collection chamber. Since July 1970, the side gate has been set at a four foot opening with the end gate fixed at six feet. A 1.5 foot differential is maintained as the two turbine pumps adjust output. On June 29, 2000, the joint fisheries parties agreed to have the side entrances permanently closed. This decision was based upon several years of radio telemetry studies with various species of anadromous fish that showed improved passage times with the side gates closed.

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## JUVENILE PASSAGE FACILITES

The juvenile bypass at Wells Dam uses the hydrocombine design of the dam by modifying five of the eleven spill bays. The even number spill bays are partially constricted with barriers that improve the attraction flow from the forebay into the spill bay area. Up to 11,000 cfs of water is made available for bypass flow during the juvenile migration.

The operation of the bypass in 2007 was coordinated with the Wells Habitat Conservation Plan Coordinating Committee and with the Wells Coordinating Committee. In the past hydroacoustics and fyke netting have provided information on real time data of the fish migration. The fixed dates agreed to by both committees were established from 21 years of hydroacoustic and 14 years of species composition information collected on juvenile run patterns at Wells Dam. The spring period ran from April 12 through June 13 for a total of 63 days and a total discharge of 1.4 MAF, or 7.1% of total project discharge. The summer bypass started on June 14 and ran through August 26 for a total of 75 days and a project discharge of 1.2 MAF or 6.6% of the total discharge.

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## MISCELLANEOUS

In 2007, radio telemetry receivers were located at Wells Dam to monitor bull trout radio-tagged by the USFWS. Antenna and receiving units were installed at Wells Dam as well as in neighboring tributaries. The monitoring of bull trout at Wells is being done through a cooperative effort with the US Fish and Wildlife Service.

Starting in 2006, the District, with fisheries agencies and tribes that serve on the HCP Coordinating Committee, sought a way to reduce delay for ascending adult salmon and steelhead through the Fish Collection Gallery at the base of the fish ladder at Wells Dam. In 2007, a flow directing baffle was placed at weir 1, at the very start of the east fish ladder. This structure had been engineered in a hydraulics lab to provide better attraction flows for the fish. From July through October, summer Chinook were collected from the ladder and fitted with radio tags and returned to the tailrace of Wells Dam. As these fish ascended the dam, their timing through both fishways was compared. The study did indicate that fish ascended faster on the side with the flow guiding baffle. The HCP-Coordinating Committee members supported the District's desire to install a second baffle on the west ladder during the winter maintenance period for 2007 – 08.

TABLE 167

**MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER WELLS DAM**
**2007**

| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHINOOK* | | | | | 1,092 | 1,984 | 11,437 | 5,367 | 1,272 | 1,027 | 101 | | 22,280 |
| STEELHEAD | | | | | 45 | 18 | 250 | 1,605 | 3,332 | 2,033 | 217 | | 7,500 |
| SOCKEYE | | | | | | 731 | 20,310 | 1,184 | 18 | 30 | | | 22,273 |
| COHO | | | | | | | | | 11 | 1,849 | 572 | | 2,432 |
| TOTAL | | | | | 1,137 | 2,733 | 31,997 | 8,156 | 4,633 | 4,939 | 890 | | 54,485 |
| LAMPREY | | | | | | | | 13 | 22 | | | | 35 |
| BULL TROUT | | | | | 23 | 29 | 6 | 1 | | | | | 59 |

***Jacks included**

TABLE 168

**MONTHLY FISH PASSAGE SUMMARY REPORT** **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **MAY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| May 1 | 0 | | | 0 | | | | 4 | 3 | 0 | | 154.9 | 13.0 | 12.0 | 46.7 |
| May 2 | 0 | | | 0 | | | | 4 | 2 | 0 | | 143.3 | 10.3 | 12.0 | 46.6 |
| May 3 | 1 | | | 0 | | | | 1 | 1 | 0 | | 161.4 | 15.6 | 11.0 | 46.6 |
| May 4 | 6 | | | 0 | | | | 4 | 3 | 0 | | 177.4 | 36.9 | 11.0 | 46.7 |
| May 5 | 1 | | | 0 | | | | 1 | 0 | 0 | | 157.7 | 17.3 | 11.0 | 47.2 |
| May 6 | 2 | | | 0 | | | | 0 | 0 | 0 | | 155.0 | 9.8 | 11.0 | 47.6 |
| May 7 | 5 | | | 0 | | | | 2 | 2 | 0 | | 193.7 | 39.5 | 13.0 | 47.7 |
| May 8 | 17 | | | 0 | | | | 4 | 4 | 0 | | 197.7 | 60.8 | 13.0 | 48.0 |
| May 9 | 16 | | | 0 | | | | 4 | 1 | 0 | | 166.7 | 10.0 | 13.0 | 48.6 |
| May 10 | 5 | | | 0 | | | | 2 | 0 | 0 | | 159.2 | 10.9 | 13.0 | 48.8 |
| May 11 | 12 | | | 0 | | | | 2 | 1 | 0 | | 145.1 | 13.0 | 13.0 | 49.2 |
| May 12 | 10 | | | 0 | | | | 3 | 3 | 0 | | 154.5 | 20.2 | 13.0 | 49.0 |
| May 13 | 15 | | | 0 | | | | 2 | 1 | 0 | | 142.0 | 33.8 | 13.0 | 49.0 |
| May 14 | 16 | | | 1 | | | | 0 | 0 | 1 | | 148.0 | 13.2 | 13.0 | 49.4 |
| May 15 | 33 | | | 0 | | | | 1 | 0 | 0 | | 166.1 | 16.4 | 13.0 | 49.9 |
| May 16 | 24 | | | 2 | | | | 1 | 0 | 0 | | 162.5 | 18.7 | 9.0 | 50.1 |
| May 17 | 14 | | | 5 | | | | 0 | 0 | 0 | | 147.3 | 15.0 | 9.0 | 50.5 |
| May 18 | 51 | | | 5 | | | | 0 | 0 | 1 | | 150.5 | 19.7 | 9.0 | 50.6 |
| May 19 | 44 | | | 2 | | | | 1 | 0 | 0 | | 135.5 | 12.5 | 9.0 | 50.7 |
| May 20 | 23 | | | 7 | | | | 2 | 2 | 1 | | 132.4 | 12.3 | 7.0 | 50.5 |
| May 21 | 28 | | | 7 | | | | 0 | 0 | 0 | | 160.3 | 22.4 | 6.0 | 50.5 |
| May 22 | 21 | | | 14 | | | | 2 | 2 | 1 | | 155.9 | 14.6 | 6.0 | 51.0 |
| May 23 | 34 | | | 14 | | | | 0 | 0 | 2 | | 157.2 | 13.6 | 6.0 | 51.0 |
| May 24 | 86 | | | 23 | | | | 1 | 1 | 1 | | 169.8 | 23.6 | 6.0 | 51.6 |
| May 25 | 62 | | | 16 | | | | 0 | 0 | 5 | | 165.4 | 20.6 | 8.0 | 51.9 |
| May 26 | 63 | | | 42 | | | | 0 | 0 | 1 | | 169.9 | 30.2 | 8.0 | 52.2 |
| May 27 | 47 | | | 36 | | | | 0 | 0 | 3 | | 159.5 | 17.9 | 8.0 | 52.4 |
| May 28 | 24 | | | 25 | | | | 0 | 0 | 0 | | 160.2 | 15.8 | 10.0 | 52.5 |
| May 29 | 26 | | | 37 | | | | 3 | 1 | 2 | | 171.6 | 16.4 | 10.0 | 53.2 |
| May 30 | 56 | | | 58 | | | | 0 | 0 | 4 | | 164.0 | 24.1 | 10.0 | 53.3 |
| May 31 | 34 | | | 22 | | | | 1 | 1 | 1 | | 151.3 | 14.1 | 8.0 | 53.4 |
| TOTAL | 776 | | | 316 | | | | 45 | 28 | 23 | | | | | |
| AVG. | 25 | | | 10 | | | | 1 | 1 | 1 | | 159.2 | 19.7 | 10.1 | 49.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|---|---|
| SPRING | 776 | 316 | 45 | 28 | 23 |

TABLE 169

**MONTHLY FISH PASSAGE SUMMARY REPORT** **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JUNE 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jun 1 | 54 | | | 36 | | | 0 | 2 | 2 | 1 | | 153.7 | 16.6 | 8.0 | 54.2 |
| Jun 2 | 46 | | | 21 | | | 0 | 0 | 0 | 3 | | 135.0 | 12.8 | 8.0 | 55.0 |
| Jun 3 | 30 | | | 27 | | | 0 | 0 | 0 | 2 | | 113.4 | 10.9 | 8.0 | 55.4 |
| Jun 4 | 40 | | | 36 | | | 0 | 0 | 0 | 6 | | 161.2 | 13.7 | 8.0 | 55.3 |
| Jun 5 | 24 | | | 24 | | | 0 | 0 | 0 | 2 | | 157.0 | 16.3 | 7.0 | 54.6 |
| Jun 6 | 9 | | | 11 | | | 0 | 0 | 0 | 0 | | 142.3 | 10.0 | 8.0 | 54.5 |
| Jun 7 | 51 | | | 39 | | | 0 | 0 | 0 | 0 | | 176.4 | 13.1 | 5.0 | 54.4 |
| Jun 8 | 18 | | | 19 | | | 0 | 0 | 0 | 0 | | 191.4 | 29.2 | 5.0 | 54.2 |
| Jun 9 | 7 | | | 16 | | | 0 | 0 | 0 | 0 | | 175.4 | 14.6 | 6.0 | 53.8 |
| Jun 10 | 47 | | | 36 | | | 0 | 0 | 0 | 2 | | 161.5 | 10.8 | 4.0 | 54.2 |
| Jun 11 | 29 | | | 20 | | | 0 | 2 | 2 | 0 | | 175.7 | 12.2 | 4.0 | 55.3 |
| Jun 12 | 14 | | | 14 | | | 0 | 1 | 1 | 0 | | 169.1 | 10.0 | 4.0 | 56.0 |
| Jun 13 | 14 | | | 18 | | | 1 | 2 | 2 | 0 | | 160.0 | 10.0 | 8.0 | 56.0 |
| Jun 14 | 17 | | | 10 | | | 3 | 1 | 0 | 2 | | 163.7 | 10.0 | 9.0 | 56.2 |
| Jun 15 | 8 | | | 10 | | | 1 | 0 | 0 | 3 | | 183.1 | 23.6 | 9.0 | 56.2 |
| Jun 16 | 23 | | | 11 | | | 0 | 0 | 0 | 0 | | 158.8 | 11.4 | 9.0 | 56.2 |
| Jun 17 | 12 | | | 4 | | | 1 | 0 | 0 | 1 | | 131.0 | 9.6 | 9.0 | 56.3 |
| Jun 18 | 4 | | | 5 | | | 1 | 0 | 0 | 0 | | 143.3 | 10.0 | 9.0 | 57.0 |
| Jun 19 | 25 | | | 11 | | | 6 | 1 | 0 | 0 | | 164.3 | 10.0 | 11.0 | 57.1 |
| Jun 20 | 20 | | | 11 | | | 8 | 1 | 1 | 2 | | 164.0 | 10.3 | 11.0 | 57.1 |
| Jun 21 | 25 | | | 3 | | | 12 | 0 | 0 | 0 | | 165.2 | 12.1 | 11.0 | 57.4 |
| Jun 22 | 20 | | | 8 | | | 14 | 0 | 0 | 2 | | 147.8 | 9.2 | 11.0 | 58.1 |
| Jun 23 | 122 | | | 6 | | | 9 | 1 | 1 | 0 | | 120.4 | 7.9 | 10.0 | 58.6 |
| Jun 24 | 50 | | | 4 | | | 27 | 0 | 0 | 1 | | 103.5 | 7.9 | 10.0 | 58.6 |
| Jun 25 | 42 | | | 4 | | | 40 | 0 | 0 | 1 | | 140.4 | 10.0 | 6.0 | 58.4 |
| Jun 26 | 27 | | | 7 | | | 65 | 0 | 0 | 0 | | 143.3 | 16.3 | 10.0 | 58.4 |
| Jun 27 | 263 | | | 9 | | | 83 | 4 | 4 | 0 | | 147.0 | 8.4 | 10.0 | 58.2 |
| Jun 28 | 224 | | | 16 | | | 131 | 0 | 0 | 0 | | 147.1 | 8.7 | 12.0 | 58.2 |
| Jun 29 | | 159 | | 21 | | | 170 | 1 | 1 | 1 | | 146.6 | 9.3 | 12.0 | 58.5 |
| Jun 30 | | 97 | | 6 | | | 159 | 2 | 0 | 0 | | 118.4 | 8.1 | 10.0 | 58.9 |
| TOTAL | 1,265 | 256 | | 463 | | | 731 | 18 | 14 | 29 | | | | | |
| AVG. | 45 | 128 | | 15 | | | 24 | 1 | 0 | 1 | | 152.0 | 12.1 | 8.4 | 56.4 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,041 | 752 |
| SUMMER | 256 | 27 |
| TOTAL | 2,297 | 779 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|
| 731 | 63 | 42 | 52 |

TABLE 170

**MONTHLY FISH PASSAGE SUMMARY REPORT** **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **JULY 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Jul 1 | | 285 | | 13 | | | 339 | 2 | 1 | 1 | | 112.8 | 7.9 | 10.0 | 59.5 |
| Jul 2 | | 88 | | 9 | | | 328 | 2 | 2 | 0 | | 119.9 | 8.1 | 10.0 | 59.5 |
| Jul 3 | | 324 | | 30 | | | 465 | 3 | 1 | 0 | | 115.7 | 8.2 | 10.0 | 59.8 |
| Jul 4 | | 593 | | 84 | | | 789 | 2 | 0 | 0 | | 121.9 | 8.2 | 10.0 | 60.3 |
| Jul 5 | | 259 | | 34 | | | 647 | 2 | 1 | 0 | | 146.8 | 16.0 | 12.0 | 60.7 |
| Jul 6 | | 247 | | 31 | | | 943 | 3 | 2 | 0 | | 112.7 | 8.8 | 12.0 | 61.1 |
| Jul 7 | | 319 | | 61 | | | 1,469 | 3 | 1 | 1 | | 106.3 | 7.9 | 12.0 | 61.4 |
| Jul 8 | | 172 | | 63 | | | 1,037 | 3 | 1 | 1 | | 95.6 | 6.7 | 10.0 | 61.5 |
| Jul 9 | | 453 | | 60 | | | 709 | 4 | 2 | 0 | | 134.9 | 9.8 | 12.0 | 61.6 |
| Jul 10 | | 618 | | 94 | | | 1,201 | 4 | 1 | 1 | | 145.9 | 10.0 | 12.0 | 61.0 |
| Jul 11 | | 112 | | 28 | | | 1,348 | 3 | 0 | 1 | | 152.3 | 10.0 | 12.0 | 60.7 |
| Jul 12 | | 504 | | 103 | | | 1,252 | 7 | 4 | 0 | | 155.0 | 10.0 | 12.0 | 60.8 |
| Jul 13 | | 192 | | 67 | | | 1,227 | 3 | 1 | 0 | | 160.6 | 10.0 | 12.0 | 61.0 |
| Jul 14 | | 309 | | 69 | | | 1,202 | 5 | 3 | 0 | | 153.5 | 10.0 | 12.0 | 61.1 |
| Jul 15 | | 801 | | 134 | | | 948 | 10 | 0 | 0 | | 146.4 | 8.9 | 10.0 | 61.9 |
| Jul 16 | | 124 | | 47 | | | 732 | 4 | 1 | 0 | | 143.4 | 10.0 | 12.0 | 62.1 |
| Jul 17 | | 101 | | 74 | | | 523 | 7 | 5 | 0 | | 132.5 | 10.0 | 12.0 | 61.8 |
| Jul 18 | | 125 | | 63 | | | 648 | 3 | 2 | 0 | | 133.5 | 11.7 | 12.0 | 61.7 |
| Jul 19 | | 262 | | 103 | | | 619 | 9 | 7 | 0 | | 130.0 | 7.8 | 12.0 | 61.7 |
| Jul 20 | | 213 | | 35 | | | 468 | 10 | 5 | 1 | | 139.9 | 10.8 | 12.0 | 62.0 |
| Jul 21 | | 626 | | 98 | | | 466 | 7 | 4 | 0 | | 127.2 | 8.3 | 14.0 | 62.1 |
| Jul 22 | | 163 | | 46 | | | 410 | 7 | 1 | 0 | | 110.2 | 7.9 | 12.0 | 62.7 |
| Jul 23 | | 328 | | 101 | | | 329 | 11 | 7 | 0 | | 135.1 | 9.5 | 12.0 | 63.3 |
| Jul 24 | | 309 | | 41 | | | 390 | 11 | 5 | 0 | | 135.4 | 8.5 | 14.0 | 63.4 |
| Jul 25 | | 204 | | 75 | | | 379 | 21 | 9 | 0 | | 148.5 | 12.8 | 14.0 | 63.3 |
| Jul 26 | | 411 | | 145 | | | 405 | 24 | 12 | 0 | | 152.8 | 10.0 | 14.0 | 63.4 |
| Jul 27 | | 243 | | 106 | | | 242 | 14 | 7 | 0 | | 139.7 | 9.0 | 14.0 | 63.5 |
| Jul 28 | | 259 | | 91 | | | 197 | 31 | 17 | 0 | | 108.0 | 7.6 | 14.0 | 64.0 |
| Jul 29 | | 219 | | 73 | | | 214 | 15 | 8 | 0 | | 112.2 | 7.7 | 14.0 | 64.5 |
| Jul 30 | | 233 | | 71 | | | 187 | 8 | 6 | 0 | | 138.6 | 10.3 | 16.0 | 64.7 |
| Jul 31 | | 264 | | 28 | | | 197 | 12 | 9 | 0 | | 155.0 | 9.3 | 16.0 | 64.7 |
| TOTAL | | 9,360 | | 2,077 | | | 20,310 | 250 | 125 | 6 | | | | | |
| AVG. | | 302 | | 67 | | | 655 | 8 | 4 | 0 | | 133.0 | 9.4 | 12.3 | 61.9 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,041 | 752 |
| SUMMER | 9,616 | 2,104 |
| TOTAL | 11,657 | 2,856 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT |
|---|---|---|---|
| 21,041 | 313 | 167 | 58 |

TABLE 171

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **AUGUST 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Aug 1 | | 174 | | 67 | | | 133 | 12 | 8 | 0 | 0 | 140.4 | 8.6 | 14.0 | 64.6 |
| Aug 2 | | 110 | | 40 | | | 111 | 28 | 12 | 0 | 0 | 114.3 | 8.3 | 14.0 | 65.1 |
| Aug 3 | | 455 | | 86 | | | 199 | 44 | 18 | 0 | 0 | 130.9 | 8.5 | 15.0 | 65.1 |
| Aug 4 | | 168 | | 42 | | | 76 | 33 | 18 | 0 | 0 | 115.5 | 8.2 | 12.0 | 65.2 |
| Aug 5 | | 45 | | 24 | | | 52 | 27 | 18 | 0 | 0 | 86.7 | 6.4 | 12.0 | 65.8 |
| Aug 6 | | 317 | | 110 | | | 60 | 24 | 11 | 1 | 0 | 107.9 | 7.2 | 12.0 | 65.6 |
| Aug 7 | | 332 | | 131 | | | 63 | 29 | 11 | 0 | 0 | 123.4 | 8.2 | 14.0 | 65.3 |
| Aug 8 | | 188 | | 88 | | | 35 | 35 | 19 | 0 | 0 | 125.9 | 8.1 | 14.0 | 65.4 |
| Aug 9 | | 262 | | 95 | | | 89 | 65 | 35 | 0 | 0 | 140.4 | 8.9 | 14.0 | 65.4 |
| Aug 10 | | 212 | | 96 | | | 77 | 46 | 26 | 0 | 0 | 120.1 | 8.6 | 14.0 | 65.8 |
| Aug 11 | | 112 | | 53 | | | 41 | 37 | 17 | 0 | 0 | 121.4 | 7.9 | 14.0 | 66.1 |
| Aug 12 | | 75 | | 36 | | | 27 | 49 | 23 | 0 | 1 | 108.7 | 7.4 | 14.0 | 66.0 |
| Aug 13 | | 72 | | 31 | | | 40 | 21 | 8 | 0 | 0 | 134.7 | 8.4 | 13.0 | 65.9 |
| Aug 14 | | 79 | | 35 | | | 28 | 21 | 10 | 0 | 0 | 142.4 | 9.0 | 14.0 | 66.1 |
| Aug 15 | | 78 | | 31 | | | 16 | 36 | 23 | 0 | 0 | 128.1 | 7.9 | 14.0 | 66.5 |
| Aug 16 | | 38 | | 38 | | | 14 | 48 | 27 | 0 | 1 | 93.1 | 6.8 | 16.0 | 66.6 |
| Aug 17 | | 61 | | 40 | | | 13 | 57 | 28 | 0 | 0 | 100.0 | 7.5 | 14.0 | 66.7 |
| Aug 18 | | 53 | | 46 | | | 5 | 42 | 26 | 0 | 1 | 78.5 | 6.2 | 12.0 | 66.9 |
| Aug 19 | | 69 | | 36 | | | 9 | 40 | 21 | 0 | 1 | 68.9 | 5.6 | 12.0 | 66.7 |
| Aug 20 | | 40 | | 21 | | | 10 | 25 | 10 | 0 | 0 | 119.1 | 8.7 | 13.0 | 66.3 |
| Aug 21 | | 151 | | 71 | | | 21 | 40 | 18 | 0 | 0 | 127.6 | 8.1 | 14.0 | 66.3 |
| Aug 22 | | 33 | | 44 | | | 15 | 39 | 19 | 0 | 0 | 108.6 | 7.5 | 12.0 | 66.2 |
| Aug 23 | | 78 | | 36 | | | 23 | 78 | 39 | 0 | 1 | 120.4 | 8.1 | 12.0 | 66.5 |
| Aug 24 | | 60 | | 28 | | | 10 | 66 | 38 | 0 | 0 | 116.0 | 7.8 | 12.0 | 67.3 |
| Aug 25 | | 32 | | 10 | | | 4 | 88 | 48 | 0 | 1 | 79.4 | 5.2 | 14.0 | 67.5 |
| Aug 26 | | 120 | | 38 | | | 2 | 96 | 42 | 0 | 1 | 64.6 | 5.5 | 14.0 | 67.4 |
| Aug 27 | | 34 | | 22 | | | 1 | 74 | 26 | 0 | 2 | 104.0 | 0.0 | 14.0 | 67.5 |
| Aug 28 | | 180 | | 74 | | | 4 | 76 | 33 | 0 | 1 | 103.2 | 0.0 | 14.0 | 67.4 |
| Aug 29 | | | 33 | 24 | | | 2 | 71 | 27 | 0 | 1 | 122.2 | 0.0 | 14.0 | 67.5 |
| Aug 30 | | | 27 | 31 | | | 1 | 95 | 51 | 0 | 1 | 134.9 | 0.0 | 14.0 | 67.1 |
| Aug 31 | | | 111 | 44 | | | 3 | 163 | 88 | 0 | 1 | 125.1 | 0.5 | 14.0 | 67.3 |
| TOTAL | | 3,628 | 171 | 1,568 | | | 1,184 | 1,605 | 798 | 1 | 13 | | | | |
| AVG. | | 130 | 57 | 51 | | | 38 | 52 | 26 | 0 | 0 | 113.1 | 6.4 | 13.5 | 66.3 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,041 | 752 |
| SUMMER | 13,244 | 3,573 |
| FALL | 171 | 99 |
| TOTAL | 15,456 | 4,424 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 22,225 | 1,918 | 965 | 59 | 13 |

TABLE 172

**MONTHLY FISH PASSAGE SUMMARY REPORT** **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **SEPTEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Sep 1 | | | 25 | 28 | 0 | | 2 | 113 | 58 | | 0 | 73.3 | 0.5 | 14.0 | 67.7 |
| Sep 2 | | | 72 | 31 | 0 | | 2 | 140 | 76 | | 1 | 69.7 | 0.0 | 14.0 | 67.9 |
| Sep 3 | | | 69 | 25 | 0 | | 0 | 147 | 73 | | 1 | 73.3 | 0.0 | 14.0 | 68.1 |
| Sep 4 | | | 17 | 20 | 0 | | 0 | 38 | 22 | | 0 | 69.2 | 0.0 | 14.0 | 68.4 |
| Sep 5 | | | 22 | 16 | 0 | | 1 | 62 | 29 | | 1 | 73.4 | 0.0 | 14.0 | 68.3 |
| Sep 6 | | | 20 | 19 | 0 | | 2 | 93 | 45 | | 0 | 50.8 | 0.0 | 14.0 | 68.4 |
| Sep 7 | | | 69 | 40 | 0 | | 2 | 136 | 76 | | 2 | 56.6 | 0.0 | 14.0 | 67.8 |
| Sep 8 | | | 56 | 39 | 0 | | 1 | 108 | 48 | | 1 | 54.8 | 0.0 | 14.0 | 67.4 |
| Sep 9 | | | 32 | 22 | 0 | | 2 | 83 | 38 | | 3 | 51.9 | 0.0 | 14.0 | 67.5 |
| Sep 10 | | | 38 | 23 | 0 | | 0 | 120 | 58 | | 3 | 68.2 | 0.0 | 14.0 | 67.3 |
| Sep 11 | | | 15 | 19 | 0 | | 0 | 85 | 50 | | 0 | 62.9 | 0.0 | 14.0 | 67.2 |
| Sep 12 | | | 46 | 33 | 0 | | 2 | 109 | 38 | | 0 | 73.0 | 0.0 | 14.0 | 67.0 |
| Sep 13 | | | 18 | 31 | 0 | | 0 | 117 | 49 | | 0 | 66.0 | 0.0 | 14.0 | 66.6 |
| Sep 14 | | | 19 | 7 | 0 | | 0 | 125 | 67 | | 1 | 63.0 | 0.0 | 14.0 | 66.6 |
| Sep 15 | | | 9 | 13 | 0 | | 0 | 119 | 53 | | 0 | 54.9 | 0.0 | 15.0 | 66.7 |
| Sep 16 | | | 27 | 31 | 0 | | 0 | 253 | 115 | | 0 | 48.8 | 0.0 | 15.0 | 66.2 |
| Sep 17 | | | 17 | 12 | 0 | | 0 | 89 | 42 | | 0 | 62.7 | 0.0 | 14.0 | 66.0 |
| Sep 18 | | | 8 | 18 | 0 | | 0 | 81 | 35 | | 0 | 64.3 | 0.0 | 14.0 | 66.3 |
| Sep 19 | | | 7 | 7 | 0 | | 1 | 111 | 44 | | 0 | 64.7 | 0.0 | 14.0 | 66.0 |
| Sep 20 | | | 4 | 8 | 0 | | 0 | 101 | 41 | | 3 | 54.9 | 0.0 | 14.0 | 65.8 |
| Sep 21 | | | 4 | 9 | 0 | | 0 | 55 | 23 | | 3 | 50.3 | 0.0 | 14.0 | 65.4 |
| Sep 22 | | | 23 | 18 | 0 | | 0 | 114 | 54 | | 0 | 42.6 | 0.0 | 14.0 | 65.1 |
| Sep 23 | | | 22 | 13 | 1 | | 0 | 115 | 51 | | 3 | 38.5 | 0.0 | 14.0 | 65.0 |
| Sep 24 | | | 4 | 10 | 0 | | 0 | 55 | 21 | | 0 | 73.0 | 0.0 | 14.0 | 64.7 |
| Sep 25 | | | 5 | 12 | 0 | | 0 | 68 | 35 | | 0 | 64.0 | 0.0 | 14.0 | 64.5 |
| Sep 26 | | | 3 | 11 | 0 | | 0 | 84 | 28 | | 0 | 67.7 | 0.0 | 14.0 | 64.6 |
| Sep 27 | | | 19 | 13 | 1 | | 1 | 206 | 83 | | 0 | 73.0 | 0.0 | 14.0 | 64.5 |
| Sep 28 | | | 12 | 13 | 2 | | 2 | 134 | 60 | | 0 | 48.1 | 0.0 | 14.0 | 64.4 |
| Sep 29 | | | 7 | 17 | 3 | | 0 | 126 | 55 | | 0 | 39.3 | 0.0 | 14.0 | 64.1 |
| Sep 30 | | | 13 | 12 | 4 | | 0 | 145 | 68 | | 0 | 47.3 | 0.0 | 14.0 | 63.6 |
| TOTAL | | | 702 | 570 | 11 | | 18 | 3,332 | 1,535 | | 22 | | | | |
| AVG. | | | 23 | 19 | 0 | | 1 | 111 | 51 | | 1 | 60.0 | 0.0 | 14.1 | 66.3 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK |
|---|---|---|
| SPRING | 2,041 | 752 |
| SUMMER | 13,244 | 3,573 |
| FALL | 873 | 669 |
| TOTAL | 16,158 | 4,994 |

| COHO ADULT |
|---|
| 11 |

| SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|
| 22,243 | 5,250 | 2,500 | 59 | 35 |

TABLE 173

**MONTHLY FISH PASSAGE SUMMARY REPORT** — **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** — **OCTOBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Oct 1 | | | 9 | 9 | 4 | | 0 | 69 | 31 | | | 65.9 | 0.0 | 14.0 | 63.3 |
| Oct 2 | | | 5 | 6 | 1 | | 2 | 92 | 42 | | | 73.9 | 0.0 | 14.0 | 63.2 |
| Oct 3 | | | 8 | 10 | 6 | | 4 | 64 | 25 | | | 73.1 | 0.0 | 14.0 | 63.2 |
| Oct 4 | | | 13 | 13 | 18 | | 5 | 143 | 57 | | | 66.6 | 0.0 | 14.0 | 62.7 |
| Oct 5 | | | 19 | 14 | 11 | | 6 | 205 | 86 | | | 70.4 | 0.0 | 14.0 | 62.5 |
| Oct 6 | | | 15 | 8 | 10 | | 2 | 82 | 38 | | | 35.4 | 0.0 | 14.0 | 62.6 |
| Oct 7 | | | 35 | 19 | 45 | | 3 | 146 | 61 | | | 39.0 | 0.0 | 14.0 | 62.5 |
| Oct 8 | | | 22 | 9 | 10 | | 1 | 50 | 21 | | | 76.9 | 0.0 | 14.0 | 62.6 |
| Oct 9 | | | 14 | 5 | 9 | | 0 | 59 | 27 | | | 70.5 | 0.0 | 14.0 | 62.6 |
| Oct 10 | | | 18 | 10 | 16 | | 1 | 74 | 29 | | | 73.5 | 0.0 | 16.0 | 63.0 |
| Oct 11 | | | 13 | 12 | 40 | | 2 | 55 | 17 | | | 72.9 | 0.0 | 16.0 | 63.0 |
| Oct 12 | | | 27 | 23 | 37 | | 1 | 112 | 47 | | | 67.3 | 0.1 | 16.0 | 62.9 |
| Oct 13 | | | 43 | 10 | 67 | | 3 | 61 | 24 | | | 47.7 | 0.0 | 16.0 | 62.8 |
| Oct 14 | | | 37 | 17 | 66 | | 0 | 101 | 39 | | | 53.5 | 0.0 | 16.0 | 62.7 |
| Oct 15 | | | 63 | 19 | 55 | | 0 | 68 | 19 | | | 75.0 | 0.0 | 14.0 | 62.5 |
| Oct 16 | | | 66 | 24 | 74 | | 0 | 103 | 33 | | | 71.7 | 0.0 | 14.0 | 62.5 |
| Oct 17 | | | 65 | 23 | 86 | | 0 | 54 | 15 | | | 65.9 | 0.0 | 14.0 | 62.4 |
| Oct 18 | | | 40 | 8 | 57 | | 0 | 58 | 15 | | | 66.9 | 0.0 | 14.0 | 61.8 |
| Oct 19 | | | 34 | 9 | 166 | | 0 | 63 | 29 | | | 66.3 | 0.0 | 14.0 | 61.4 |
| Oct 20 | | | 24 | 21 | 75 | | 0 | 39 | 21 | | | 52.2 | 0.0 | 14.0 | 61.0 |
| Oct 21 | | | 24 | 17 | 88 | | 0 | 23 | 7 | | | 38.9 | 0.0 | 14.0 | 60.8 |
| Oct 22 | | | 24 | 15 | 105 | | 0 | 18 | 7 | | | 68.3 | 4.1 | 16.0 | 60.6 |
| Oct 23 | | | 13 | 8 | 119 | | 0 | 32 | 12 | | | 61.5 | 0.0 | 14.0 | 60.4 |
| Oct 24 | | | 10 | 8 | 81 | | 0 | 32 | 14 | | | 65.0 | 0.1 | 14.0 | 60.9 |
| Oct 25 | | | 3 | 6 | 118 | | 0 | 43 | 16 | | | 79.9 | 0.0 | 14.0 | 60.5 |
| Oct 26 | | | 5 | 5 | 74 | | 0 | 26 | 13 | | | 77.1 | 0.0 | 14.0 | 60.0 |
| Oct 27 | | | 7 | 7 | 98 | | 0 | 51 | 27 | | | 52.6 | 0.0 | 14.0 | 59.6 |
| Oct 28 | | | 6 | 2 | 83 | | 0 | 33 | 11 | | | 45.0 | 0.0 | 14.0 | 59.5 |
| Oct 29 | | | 4 | 0 | 101 | | 0 | 27 | 17 | | | 68.1 | 0.0 | 13.0 | 59.2 |
| Oct 30 | | | 5 | 4 | 64 | | 0 | 19 | 9 | | | 72.9 | 0.0 | 13.0 | 58.8 |
| Oct 31 | | | 14 | 1 | 65 | | 0 | 31 | 17 | | | 81.3 | 0.0 | 14.0 | 58.7 |
| TOTAL | | | 685 | 342 | 1,849 | | 30 | 2,033 | 826 | | | | | | |
| AVG. | | | 22 | 11 | 60 | | 1 | 66 | 27 | | | 64.4 | 0.1 | 14.3 | 61.6 |

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|---|---|
| SPRING | 2,041 | 752 | 1,860 | 22,273 | 7,283 | 3,326 | 59 | 35 |
| SUMMER | 13,244 | 3,573 | | | | | | |
| FALL | 1,558 | 1,011 | | | | | | |
| TOTAL | 16,843 | 5,336 | | | | | | |

TABLE 174

**MONTHLY FISH PASSAGE SUMMARY REPORT** **WELLS PROJECT**

**U.S. ARMY ENGINEER DISTRICT, PORTLAND** **NOVEMBER 2007**

| | FISH COUNTS | | | | | | | | | | | RIVER CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK ADULT | | | CHINOOK | COHO | COHO | | | WILD | BULL | | DISCH | SPILL | TURBIDITY | |
| DATE | SPRING | SUMMER | FALL | JACK | ADULT | JACK | SOCKEYE | STEELHEAD | STEELHEAD | TROUT | LAMPREY | KCFS | KCFS | SECCHI | DEG F |
| Nov 1 | | | 10 | 2 | 85 | | | 18 | 6 | | | 68.8 | 0.0 | 14.0 | 58.3 |
| Nov 2 | | | 11 | 2 | 77 | | | 23 | 8 | | | 86.5 | 0.0 | 14.0 | 57.9 |
| Nov 3 | | | 7 | 5 | 60 | | | 17 | 10 | | | 39.4 | 0.0 | 14.0 | 57.7 |
| Nov 4 | | | 6 | 6 | 89 | | | 11 | 4 | | | 41.0 | 0.0 | 14.0 | 57.4 |
| Nov 5 | | | 11 | 2 | 64 | | | 21 | 7 | | | 67.5 | 0.0 | 14.0 | 57.1 |
| Nov 6 | | | 8 | 6 | 49 | | | 21 | 5 | | | 74.2 | 0.0 | 14.0 | 56.7 |
| Nov 7 | | | 3 | 0 | 38 | | | 16 | 5 | | | 63.2 | 0.0 | 14.0 | 57.1 |
| Nov 8 | | | 2 | 2 | 19 | | | 10 | 4 | | | 67.1 | 0.0 | 14.0 | 56.9 |
| Nov 9 | | | 3 | 0 | 17 | | | 9 | 2 | | | 96.7 | 0.1 | 15.0 | 56.8 |
| Nov 10 | | | 2 | 0 | 25 | | | 16 | 8 | | | 87.5 | 0.0 | 16.0 | 56.8 |
| Nov 11 | | | 1 | 0 | 9 | | | 10 | 3 | | | 74.7 | 0.0 | 15.0 | 56.6 |
| Nov 12 | | | 4 | 1 | 21 | | | 10 | 4 | | | 101.7 | 0.3 | 15.0 | 56.2 |
| Nov 13 | | | 3 | 0 | 9 | | | 9 | 5 | | | 98.3 | 0.0 | 15.0 | 55.8 |
| Nov 14 | | | 2 | 0 | 6 | | | 15 | 5 | | | 117.2 | 0.2 | 14.0 | 55.6 |
| Nov 15 | | | 2 | 0 | 4 | | | 11 | 8 | | | 87.6 | 0.0 | 15.0 | 55.3 |
| Nov 16 | | | | | | | | | | | | 57.3 | 0.0 | * | 55.0 |
| Nov 17 | | | | | | | | | | | | 56.3 | 0.0 | * | 54.8 |
| Nov 18 | | | | | | | | | | | | 62.1 | 0.0 | * | 54.5 |
| Nov 19 | | | | | | | | | | | | 83.6 | 0.0 | * | 54.1 |
| Nov 20 | | | | | | | | | | | | 79.5 | 0.1 | * | 53.9 |
| Nov 21 | | | | | | | | | | | | 80.3 | 0.0 | * | 53.8 |
| Nov 22 | | | | | | | | | | | | 53.9 | 0.0 | * | 53.4 |
| Nov 23 | | | | | | | | | | | | 84.4 | 0.0 | * | 52.5 |
| Nov 24 | | | | | | | | | | | | 87.8 | 0.0 | * | 51.9 |
| Nov 25 | | | | | | | | | | | | 84.3 | 2.0 | * | 51.9 |
| Nov 26 | | | | | | | | | | | | 120.4 | 0.1 | * | 51.6 |
| Nov 27 | | | | | | | | | | | | 87.0 | 0.0 | * | 51.3 |
| Nov 28 | | | | | | | | | | | | 111.0 | 0.0 | * | 51.0 |
| Nov 29 | | | | | | | | | | | | 94.9 | 0.0 | * | 51.0 |
| Nov 30 | | | | | | | | | | | | 90.7 | 0.0 | * | 51.0 |
| TOTALS | | | 75 | 26 | 572 | | | 217 | 84 | | | | | | |
| AVG. | | | 5 | 2 | 38 | | | 14 | 6 | | | 80.2 | 0.1 | 14.5 | 54.8 |

*Data unavailable.

| RUN YEAR TOTALS TO DATE | CHINOOK ADULT | CHINOOK JACK | COHO ADULT | SOCKEYE | STEELHEAD | WILD STEELHEAD | BULL TROUT | LAMPREY |
|---|---|---|---|---|---|---|---|---|
| SPRING | 2,041 | 752 | 2,432 | 22,273 | 7,500 | 3,410 | 59 | 35 |
| SUMMER | 13,244 | 3,573 | | | | | | |
| FALL | 1,633 | 1,037 | | | | | | |
| TOTAL | 16,918 | 5,362 | | | | | | |

TABLE 175

**MONTHLY COUNT OF STEELHEAD**
**WELLS DAM: 1976 - 2007**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1976 | | | | | 44 | 37 | 56 | 530 | 1964 | 1856 | 156 | | 4,643 |
| 1977 | | | | | 37 | 22 | 38 | 1,034 | 818 | 2,849 | 526 | | 5,324 |
| 1978 | | | | | 177 | 32 | 12 | 399 | 432 | 528 | | | 1,580 |
| 1979 | | | | | 72 | 2 | 22 | 1,212 | 938 | 1,040 | 355 | | 3,641 |
| 1980 | | | | | 202 | 24 | 15 | 382 | 1,032 | 1,358 | 413 | | 3,426 |
| 1981 | | | | | 139 | 23 | 107 | 212 | 1,702 | 1,401 | 513 | | 4,097 |
| 1982 | | | | | 149 | 7 | 67 | 814 | 2,428 | 3,733 | 730 | | 7,928 |
| 1983 | | | | | 26 | 2 | 145 | 1,891 | 10,728 | 5,294 | 1,327 | | 19,413 |
| 1984 | | | | | 153 | 32 | 766 | 5,024 | 6,545 | 3,298 | 778 | | 16,596 |
| 1985 | | | | | 220 | 401 | 2,675 | 3,387 | 9,822 | 2,821 | 541 | | 19,867 |
| 1986 | | | | | 65 | 102 | 1,515 | 4,994 | 3,833 | 2,391 | 403 | | 13,303 |
| 1987 | | | | | 13 | 29 | 413 | 1,897 | 1,668 | 1,236 | 237 | | 5,493 |
| 1988 | | | | | 85 | 103 | 357 | 1,273 | 1,797 | 785 | | | 4,400 |
| 1989 | | | | | 43 | 11 | 351 | 1,168 | 2,223 | 804 | | | 4,600 |
| 1990 | | | | | 20 | 16 | 283 | 1,093 | 1,630 | 702 | 104 | | 3,848 |
| 1991 | | | | | 14 | 8 | 361 | 2,054 | 3,078 | 1,923 | 313 | | 7,751 |
| 1992 | | | | | 86 | 168 | 892 | 1,448 | 2,946 | 1,346 | 181 | | 7,067 |
| 1993 | | | | | 48 | 10 | 240 | 706 | 883 | 490 | 23 | | 2,400 |
| 1994 | | | | | 7 | 8 | 240 | 442 | 670 | 695 | 121 | | 2,183 |
| 1995 | | | | | 5 | 6 | 77 | 160 | 509 | 188 | ** | | 945 |
| 1996 | | | | | 11 | 7 | 79 | 764 | 2,099 | 921 | 246 | | 4,127 |
| 1997 | | | | | 38 | 6 | 82 | 868 | 1,758 | 1,199 | 156 | | 4,107 |
| 1998 | | | | | 5 | 3 | 161 | 363 | 1,031 | 995 | 110 | | 2,668 |
| 1999 | | | | | 13 | 33 | 106 | 903 | 1,941 | 446 | 62 | | 3,504 |
| 2000 | | | | | 23 | 6 | 309 | 1,338 | 3,661 | 857 | 86 | | 6,280 |
| 2001 | | | | | 30 | 34 | 947 | 5,404 | 8,326 | 3,339 | 403 | | 18,483 |
| 2002 | | | | | 66 | 33 | 957 | 3,630 | 3,388 | 1,244 | 157 | | 9,475 |
| 2003 | | | | | 21 | 10 | 456 | 2,346 | 4,618 | 2,320 | 192 | | 9,963 |
| 2004 | | | | | 74 | 56 | 916 | 1,709 | 5,039 | 1,401 | 122 | | 9,317 |
| 2005 | | | | | 63 | 14 | 366 | 1,590 | 3,287 | 1,738 | 145 | | 7,203 |
| 2006 | | | | | 28 | 16 | 138 | 922 | 4,017 | 1,248 | 305 | | 6,674 |
| 2007 | | | | | 45 | 18 | 250 | 1,605 | 3,332 | 2,033 | 217 | | 7,500 |
| TOTAL | | | | | 2,022 | 1,279 | 13,399 | 51,562 | 98,143 | 52,479 | 8,922 | | 227,806 |
| 10-Year Average | | | | | 37 | 22 | 461 | 1,981 | 3,864 | 1,562 | 180 | | 8,107 |

****Wells Dam did not count in November of 1995.**