

# WILLAMETTE FALLS FISHWAY COUNTS

Month January Year 2004

| Date | Hydrological Data |       |       |           | Fall Chinook |      |       |      |           |      | Coho  |      |       |      | Steelhead |      |           |  |
|------|-------------------|-------|-------|-----------|--------------|------|-------|------|-----------|------|-------|------|-------|------|-----------|------|-----------|--|
|      |                   |       |       |           | Adult        |      | Jack  |      | Mini Jack |      | Adult |      | Jack  |      | Summer    |      | Winter    |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily        | Cum. | Daily | Cum. | Daily     | Cum. | Daily | Cum. | Daily | Cum. | Daily     | Cum. |           |  |
|      |                   |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 871       |  |
| 1    | 54,200            | 41    | 50.3  | 1.3       |              |      |       |      |           |      |       |      |       |      |           |      | 2 873     |  |
| 2    | 54,000            | 41    | 50.5  | 1.4       |              |      |       |      |           |      |       |      |       |      |           |      | 9 882     |  |
| 3    | 57,300            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 3 885     |  |
| 4    | 53,000            | 40    | 58.0  | 1.4       |              |      |       |      |           |      |       |      |       |      |           |      | 6 891     |  |
| 5    | 46,000            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 2 893     |  |
| 6    | 39,000            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 1 894     |  |
| 7    | 36,400            | 38    | 55.9  |           |              |      |       |      |           |      |       |      |       |      |           |      | 1 895     |  |
| 8    | 43,800            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 18 913    |  |
| 9    | 55,300            | 39    | 56.4  |           |              |      |       |      |           |      |       |      |       |      |           |      | 27 940    |  |
| 10   | 59,700            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 105 1,045 |  |
| 11   | 60,400            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 111 1,156 |  |
| 12   | 56,300            | 42    | 54.0  | 1.8       |              |      |       |      |           |      |       |      |       |      |           |      | 55 1,211  |  |
| 13   | 51,400            | 42    | 53.4  | 1.8       |              |      |       |      |           |      |       |      |       |      |           |      | 89 1,300  |  |
| 14   | 46,000            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 102 1,402 |  |
| 15   | 49,000            | 44    | 53.3  | 2.4       |              |      |       |      |           |      |       |      |       |      |           |      | 92 1,494  |  |
| 16   | 49,800            | 44    | 53.5  | 2.4       |              |      |       |      |           |      |       |      |       |      |           |      | 160 1,654 |  |
| 17   | 50,000            | 45    | 53.6  | 2.5       |              |      |       |      |           |      |       |      |       |      |           |      | 102 1,756 |  |
| 18   | 43,800            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 81 1,837  |  |
| 19   | 43,000            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 110 1,947 |  |
| 20   | 42,800            | 45    | 53.2  | 3.0       |              |      |       |      |           |      |       |      |       |      |           |      | 123 2,070 |  |
| 21   | 42,700            | 45    | 57.9  | 3.0       |              |      |       |      |           |      |       |      |       |      |           |      | 75 2,145  |  |
| 22   | 40,700            | 44    | 57.8  | 3.2       |              |      |       |      |           |      |       |      |       |      |           |      | 42 2,187  |  |
| 23   | 40,000            | 43    | 57.5  | 3.0       |              |      |       |      |           |      |       |      |       |      |           |      | 51 2,238  |  |
| 24   | 45,300            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 84 2,322  |  |
| 25   | 64,100            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 24 2,346  |  |
| 26   | 62,400            | 44    | 57.7  | 2.0       |              |      |       |      |           |      |       |      |       |      |           |      | 39 2,385  |  |
| 27   | 57,300            | 44    | 56.7  | 1.7       |              |      |       |      |           |      |       |      |       |      |           |      | 26 2,411  |  |
| 28   | 56,800            | 44    | 56.4  | 1.5       |              |      |       |      |           |      |       |      |       |      |           |      | 123 2,534 |  |
| 29   | 65,000            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 69 2,603  |  |
| 30   | 85,300            | 46    | 56.7  | <1.0      |              |      |       |      |           |      |       |      |       |      |           |      | 16 2,619  |  |
| 31   | 85,200            |       |       |           |              |      |       |      |           |      |       |      |       |      |           |      | 13 2,632  |  |



## WILLAMETTE FALLS FISHWAY COUNTS

Month March

Year 2004

| Date | Hydrological Data |       |       |           | Spring Chinook |      |       |      |           |      | Coho  |      |       |      | Steelhead |       |        |  |
|------|-------------------|-------|-------|-----------|----------------|------|-------|------|-----------|------|-------|------|-------|------|-----------|-------|--------|--|
|      |                   |       |       |           | Adult          |      | Jack  |      | Mini Jack |      | Adult |      | Jack  |      | Summer    |       | Winter |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily          | Cum. | Daily | Cum. | Daily     | Cum. | Daily | Cum. | Daily | Cum. | Daily     | Cum.  |        |  |
|      |                   |       |       |           |                |      |       |      |           |      |       |      |       |      |           | 5,362 |        |  |
| 1    | 25,600            | 46    | 56.9  | 2.0       | 0              | 0    |       |      |           |      |       |      |       | 3    | 3         | 152   | 5,514  |  |
| 2    | 25,600            | 47    | 56.9  | 2.0       | 0              | 0    |       |      |           |      |       |      |       | 6    | 9         | 91    | 5,605  |  |
| 3    | 23,300            | 47    | 56.8  | 2.3       | 0              | 0    |       |      |           |      |       |      |       | 3    | 12        | 40    | 5,645  |  |
| 4    | 21,500            | 47    | 56.6  | 2.3       | 0              | 0    |       |      |           |      |       |      |       | 7    | 19        | 50    | 5,695  |  |
| 5    | 24,800            | 47    | 56.6  | 2.5       | 0              | 0    |       |      |           |      |       |      |       | 3    | 22        | 21    | 5,716  |  |
| 6    | 25,800            |       |       |           | 0              | 0    |       |      |           |      |       |      |       | 4    | 26        | 38    | 5,754  |  |
| 7    | 26,900            |       |       |           | 1              | 1    |       |      |           |      |       |      |       | 8    | 34        | 47    | 5,801  |  |
| 8    | 25,100            | 47    | 56.7  | 3.6       | 0              | 1    |       |      |           |      |       |      |       | 18   | 52        | 114   | 5,915  |  |
| 9    | 23,100            | 49    | 56.4  | 3.8       | 1              | 2    |       |      |           |      |       |      |       | 24   | 76        | 196   | 6,111  |  |
| 10   | 21,600            | 49    | 56.2  | 4.3       | 0              | 2    |       |      |           |      |       |      |       | 10   | 86        | 74    | 6,185  |  |
| 11   | 22,300            | 50    | 56.1  | 4.3       | 0              | 2    |       |      |           |      |       |      |       | 14   | 100       | 79    | 6,264  |  |
| 12   | 20,300            | 50    | 56.0  | 4.5       | 3              | 5    |       |      |           |      |       |      |       | 20   | 120       | 100   | 6,364  |  |
| 13   | 19,300            |       |       |           | 1              | 6    |       |      |           |      |       |      |       | 21   | 141       | 75    | 6,439  |  |
| 14   | 18,400            |       |       |           | 1              | 7    |       |      |           |      |       |      |       | 20   | 161       | 92    | 6,531  |  |
| 15   | 17,800            | 50    | 55.5  | 5.2       | 1              | 8    |       |      |           |      |       |      |       | 18   | 179       | 92    | 6,623  |  |
| 16   | 17,200            | 50    | 55.5  | 5.2       | 6              | 14   |       |      |           |      |       |      |       | 84   | 263       | 187   | 6,810  |  |
| 17   | 16,200            | 51    | 55.4  | 5.5       | 8              | 22   |       |      |           |      |       |      |       | 69   | 332       | 235   | 7,045  |  |
| 18   | 15,100            | 51    | 55.2  | 5.6       | 10             | 32   |       |      |           |      |       |      |       | 84   | 416       | 167   | 7,212  |  |
| 19   | 14,300            | 51    | 55.0  | 5.5       | 4              | 36   |       |      |           |      |       |      |       | 57   | 473       | 105   | 7,317  |  |
| 20   | 14,800            |       |       |           | 3              | 39   |       |      |           |      |       |      |       | 39   | 512       | 80    | 7,397  |  |
| 21   | 13,600            |       |       |           | 3              | 42   |       |      |           |      |       |      |       | 25   | 537       | 61    | 7,458  |  |
| 22   | 13,100            | 51    | 54.8  | 5.4       | 27             | 69   |       |      |           |      |       |      |       | 92   | 629       | 154   | 7,612  |  |
| 23   | 12,800            | 51    | 54.7  | 5.4       | 20             | 89   |       |      |           |      |       |      |       | 73   | 702       | 201   | 7,813  |  |
| 24   | 12,700            | 52    | 54.7  | 5.3       | 37             | 126  |       |      |           |      |       |      |       | 59   | 761       | 172   | 7,985  |  |
| 25   | 13,100            | 53    | 54.7  | 5.0       | 27             | 153  |       |      |           |      |       |      |       | 98   | 859       | 200   | 8,185  |  |
| 26   | 13,000            | 53    | 54.8  | 5.0       | 6              | 159  |       |      |           |      |       |      |       | 24   | 883       | 77    | 8,262  |  |
| 27   | 14,200            |       |       |           | 17             | 176  |       |      |           |      |       |      |       | 32   | 915       | 62    | 8,324  |  |
| 28   | 16,000            |       |       |           | 15             | 191  |       |      |           |      |       |      |       | 28   | 943       | 46    | 8,370  |  |
| 29   | 15,900            | 50    | 55.5  | 3.8       | 21             | 212  |       |      |           |      |       |      |       | 42   | 985       | 59    | 8,429  |  |
| 30   | 15,300            | 51    | 55.3  | 3.6       | 23             | 235  |       |      |           |      |       |      |       | 54   | 1,039     | 93    | 8,522  |  |
| 31   | 16,300            |       |       |           | 78             | 313  |       |      |           |      |       |      |       | 91   | 1,130     | 124   | 8,646  |  |



## WILLAMETTE FALLS FISHWAY COUNTS

Month     May     Year     2004    

| Date | Hydrological Data |       |       |           | Spring Chinook |        |       |      |           |      | Coho  |      |       |      | Steelhead |        |        |        |
|------|-------------------|-------|-------|-----------|----------------|--------|-------|------|-----------|------|-------|------|-------|------|-----------|--------|--------|--------|
|      |                   |       |       |           | Adult          |        | Jack  |      | Mini Jack |      | Adult |      | Jack  |      | Summer    |        | Winter |        |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily          | Cum.   | Daily | Cum. | Daily     | Cum. | Daily | Cum. | Daily | Cum. | Daily     | Cum.   |        |        |
|      |                   |       |       |           |                | 34,574 |       | 90   |           | 8    |       |      |       |      | 6,919     |        | 11,395 |        |
| 1    | 14,600            |       |       |           | 3,362          | 37,936 | 19    | 109  | 0         | 8    |       |      |       |      | 398       | 7,317  | 57     | 11,452 |
| 2    | 15,000            |       |       |           | 2,503          | 40,439 | 11    | 120  | 0         | 8    |       |      |       |      | 277       | 7,594  | 59     | 11,511 |
| 3    | 15,200            | 61    | 54.9  | 4.8       | 1,832          | 42,271 | 17    | 137  | 0         | 8    |       |      |       |      | 193       | 7,787  | 25     | 11,536 |
| 4    | 15,300            | 61    | 54.8  | 5.4       | 1,980          | 44,251 | 10    | 147  | 0         | 8    |       |      |       |      | 255       | 8,042  | 18     | 11,554 |
| 5    | 15,300            | 61    | 54.9  | 5.9       | 1,827          | 46,078 | 19    | 166  | 0         | 8    |       |      |       |      | 196       | 8,238  | 40     | 11,594 |
| 6    | 16,000            | 60    | 54.9  | 6.0       | 1,560          | 47,638 | 19    | 185  | 0         | 8    |       |      |       |      | 157       | 8,395  | 19     | 11,613 |
| 7    | 16,000            | 60    | 54.9  | 6.0       | 2,823          | 50,461 | 25    | 210  | 0         | 8    |       |      |       |      | 545       | 8,940  | 59     | 11,672 |
| 8    | 15,500            |       |       |           | 2,062          | 52,523 | 19    | 229  | 0         | 8    |       |      |       |      | 332       | 9,272  | 19     | 11,691 |
| 9    | 15,200            |       |       |           | 2,015          | 54,538 | 26    | 255  | 0         | 8    |       |      |       |      | 253       | 9,525  | 40     | 11,731 |
| 10   | 14,800            | 59    | 54.9  | 5.6       | 2,104          | 56,642 | 16    | 271  | 0         | 8    |       |      |       |      | 389       | 9,914  | 28     | 11,759 |
| 11   | 15,000            | 58    | 54.9  | 5.6       | 2,148          | 58,790 | 18    | 289  | 0         | 8    |       |      |       |      | 324       | 10,238 | 31     | 11,790 |
| 12   | 15,400            | 57    | 55.1  | 5.8       | 1,703          | 60,493 | 12    | 301  | 0         | 8    |       |      |       |      | 432       | 10,670 | 11     | 11,801 |
| 13   | 15,900            | 57    | 55.1  | 5.8       | 1,482          | 61,975 | 9     | 310  | 0         | 8    |       |      |       |      | 428       | 11,098 | 9      | 11,810 |
| 14   | 15,600            | 57    | 55.1  | 5.8       | 2,079          | 64,054 | 9     | 319  | 3         | 11   |       |      |       |      | 691       | 11,789 | 18     | 11,828 |
| 15   | 14,800            |       |       |           | 1,710          | 65,764 | 16    | 335  | 9         | 20   |       |      |       |      | 455       | 12,244 | 14     | 11,842 |
| 16   | 14,150            |       |       |           | 1,469          | 67,233 | 13    | 348  | 0         | 20   |       |      |       |      | 403       | 12,647 |        |        |
| 17   | 14,000            | 58    | 54.4  | 6.0       | 1,292          | 68,525 | 14    | 362  | 0         | 20   |       |      |       |      | 417       | 13,064 |        |        |
| 18   | 13,800            | 59    | 54.3  | 6.0       | 1,504          | 70,029 | 19    | 381  | 2         | 22   |       |      |       |      | 483       | 13,547 |        |        |
| 19   | 13,900            | 59    | 54.3  | 5.8       | 1,522          | 71,551 | 16    | 397  | 0         | 22   |       |      |       |      | 357       | 13,904 |        |        |
| 20   | 15,000            | 60    | 54.1  | 5.8       | 1,567          | 73,118 | 8     | 405  | 18        | 40   |       |      |       |      | 486       | 14,390 |        |        |
| 21   | 15,100            | 60    | 54.0  | 6.0       | 1,291          | 74,409 | 2     | 407  | 7         | 47   |       |      |       |      | 578       | 14,968 |        |        |
| 22   | 14,500            |       |       |           | 923            | 75,332 | 14    | 421  | 12        | 59   |       |      |       |      | 418       | 15,386 |        |        |
| 23   | 14,400            |       |       |           | 1,150          | 76,482 | 17    | 438  | 0         | 59   |       |      |       |      | 416       | 15,802 |        |        |
| 24   | 15,000            | 59    | 53.3  | 5.8       | 711            | 77,193 | 16    | 454  | 0         | 59   |       |      |       |      | 238       | 16,040 |        |        |
| 25   | 14,600            | 59    | 53.0  | 5.8       | 776            | 77,969 | 21    | 475  | 1         | 60   |       |      |       |      | 346       | 16,386 |        |        |
| 26   | 13,900            | 60    | 54.4  | 5.4       | 873            | 78,842 | 18    | 493  | 3         | 63   |       |      |       |      | 475       | 16,861 |        |        |
| 27   | 14,000            | 60    | 53.9  | 6.0       | 942            | 79,784 | 14    | 507  | 24        | 87   |       |      |       |      | 536       | 17,397 |        |        |
| 28   | 14,200            |       |       |           | 726            | 80,510 | 6     | 513  | 2         | 89   |       |      |       |      | 438       | 17,835 |        |        |
| 29   | 26,100            |       |       |           | 583            | 81,093 | 8     | 521  | 2         | 91   |       |      |       |      | 472       | 18,307 |        |        |
| 30   | 29,700            |       |       |           | 503            | 81,596 | 11    | 532  | 14        | 105  |       |      |       |      | 499       | 18,806 |        |        |
| 31   | 25,600            | 55    | 51.8  | 4.5       | 197            | 81,793 | 0     | 532  | 0         | 105  |       |      |       |      | 474       | 19,280 |        |        |

\* Steelhead were only counted as Summer Steelhead beginning on May 16.



## WILLAMETTE FALLS FISHWAY COUNTS

Month July

Year 2004

| Date | Hydrological Data |       |       |           | Spring Chinook |        |       |      |           |       | Coho  |      |       |      | Steelhead |        |        |  |
|------|-------------------|-------|-------|-----------|----------------|--------|-------|------|-----------|-------|-------|------|-------|------|-----------|--------|--------|--|
|      |                   |       |       |           | Adult          |        | Jack  |      | Mini Jack |       | Adult |      | Jack  |      | Summer    |        | Winter |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily          | Cum.   | Daily | Cum. | Daily     | Cum.  | Daily | Cum. | Daily | Cum. | Daily     | Cum.   |        |  |
|      |                   |       |       |           |                | 93,661 |       | 714  |           | 678   |       |      |       |      |           | 29,185 |        |  |
| 1    | 7,700             |       |       |           | 360            | 94,021 | 1     | 715  | 84        | 762   |       |      |       |      | 337       | 29,522 |        |  |
| 2    | 7,400             | 71    | 54.4  |           | 187            | 94,208 | 2     | 717  | 52        | 814   |       |      |       |      | 268       | 29,790 |        |  |
| 3    | 7,500             |       |       |           | 122            | 94,330 | 1     | 718  | 13        | 827   |       |      |       |      | 128       | 29,918 |        |  |
| 4    | 7,400             |       |       |           | 88             | 94,418 | 0     | 718  | 27        | 854   |       |      |       |      | 115       | 30,033 |        |  |
| 5    | 7,600             |       |       |           | 133            | 94,551 | 4     | 722  | 35        | 889   |       |      |       |      | 112       | 30,145 |        |  |
| 6    | 7,400             | 72    | 54.4  |           | 99             | 94,650 | 2     | 724  | 32        | 921   |       |      |       |      | 111       | 30,256 |        |  |
| 7    | 7,300             | 71    | 54.5  | 5.4       | 106            | 94,756 | 1     | 725  | 19        | 940   |       |      |       |      | 124       | 30,380 |        |  |
| 8    | 7,300             | 70    | 54.5  | 5.4       | 114            | 94,870 | 1     | 726  | 33        | 973   |       |      |       |      | 181       | 30,561 |        |  |
| 9    | 7,300             | 71    | 54.4  | 5.6       | 83             | 94,953 | 4     | 730  | 26        | 999   |       |      |       |      | 152       | 30,713 |        |  |
| 10   | 7,200             |       |       |           | 70             | 95,023 | 3     | 733  | 28        | 1,027 |       |      |       |      | 219       | 30,932 |        |  |
| 11   | 7,300             |       |       |           | 90             | 95,113 | 1     | 734  | 17        | 1,044 |       |      |       |      | 166       | 31,098 |        |  |
| 12   | 7,400             | 70    | 54.4  | 5.4       | 85             | 95,198 | 0     | 734  | 19        | 1,063 |       |      |       |      | 128       | 31,226 |        |  |
| 13   | 7,400             | 70    | 54.5  | 5.5       | 125            | 95,323 | 2     | 736  | 31        | 1,094 |       |      |       |      | 189       | 31,415 |        |  |
| 14   | 7,200             | 71    | 54.5  | 5.6       | 84             | 95,407 | 1     | 737  | 17        | 1,111 |       |      |       |      | 171       | 31,586 |        |  |
| 15   | 7,100             | 71    | 54.5  | 5.6       | 66             | 95,473 | 1     | 738  | 15        | 1,126 |       |      |       |      | 140       | 31,726 |        |  |
| 16   | 7,100             | 72    | 54.4  | 5.8       | 101            | 95,574 | 4     | 742  | 40        | 1,166 |       |      |       |      | 176       | 31,902 |        |  |
| 17   | 6,800             |       |       |           | 72             | 95,646 | 0     | 742  | 9         | 1,175 |       |      |       |      | 127       | 32,029 |        |  |
| 18   | 7,000             |       |       |           | 51             | 95,697 | 2     | 744  | 8         | 1,183 |       |      |       |      | 86        | 32,115 |        |  |
| 19   | 7,100             | 74    | 54.4  | 5.7       | 16             | 95,713 | 1     | 745  | 1         | 1,184 |       |      |       |      | 54        | 32,169 |        |  |
| 20   | 7,100             | 74    | 54.5  | 5.7       | 16             | 95,729 | 1     | 746  | 1         | 1,185 |       |      |       |      | 21        | 32,190 |        |  |
| 21   | 7,100             | 74    | 54.5  | 5.8       | 11             | 95,740 | 0     | 746  | 3         | 1,188 |       |      |       |      | 23        | 32,213 |        |  |
| 22   | 6,900             | 74    | 54.4  | 6.0       | 20             | 95,760 | 0     | 746  | 8         | 1,196 |       |      |       |      | 21        | 32,234 |        |  |
| 23   | 6,800             | 74    | 54.3  | 6.0       | 8              | 95,768 | 0     | 746  | 3         | 1,199 |       |      |       |      | 16        | 32,250 |        |  |
| 24   | 6,600             |       |       |           | 11             | 95,779 | 0     | 746  | 6         | 1,205 |       |      |       |      | 20        | 32,270 |        |  |
| 25   | 6,900             |       |       |           | 6              | 95,785 | 0     | 746  | 2         | 1,207 |       |      |       |      | 16        | 32,286 |        |  |
| 26   | 7,000             |       |       |           | 5              | 95,790 | 0     | 746  | 0         | 1,207 |       |      |       |      | 7         | 32,293 |        |  |
| 27   | 7,000             | 75    | 54.3  | 6.5       | 3              | 95,793 | 0     | 746  | 1         | 1,208 |       |      |       |      | 9         | 32,302 |        |  |
| 28   | 6,900             | 76    | 54.3  | 6.5       | 2              | 95,795 | 0     | 746  | 0         | 1,208 |       |      |       |      | 6         | 32,308 |        |  |
| 29   | 7,000             | 77    | 54.3  | 6.6       | 0              | 95,795 | 0     | 746  | 0         | 1,208 |       |      |       |      | 1         | 32,309 |        |  |
| 30   | 7,000             | 76    | 54.4  | 6.6       | 0              | 95,795 | 0     | 746  | 1         | 1,209 |       |      |       |      | 3         | 32,312 |        |  |
| 31   | 6,900             |       |       |           | 0              | 95,795 | 0     | 746  | 0         | 1,209 |       |      |       |      | 3         | 32,315 |        |  |

## WILLAMETTE FALLS FISHWAY COUNTS

Month August Year 2004

| Date | Hydrological Data |       |       |           | Spring / Fall Chinook |        |       |      |           |       | Coho  |      |       |      | Steelhead |        |        |  |
|------|-------------------|-------|-------|-----------|-----------------------|--------|-------|------|-----------|-------|-------|------|-------|------|-----------|--------|--------|--|
|      |                   |       |       |           | Adult                 |        | Jack  |      | Mini Jack |       | Adult |      | Jack  |      | Summer    |        | Winter |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily                 | Cum.   | Daily | Cum. | Daily     | Cum.  | Daily | Cum. | Daily | Cum. | Daily     | Cum.   |        |  |
|      |                   |       |       |           |                       | 95,795 |       | 0    |           | 1,209 |       | 0    |       | 0    |           | 32,315 |        |  |
| 1    | 7,100             |       |       |           | 1                     | 95,796 | 1     | 1    | 0         | 1,209 | 0     | 0    | 0     | 0    | 0         | 32,315 |        |  |
| 2    | 7,300             | 75    | 54.5  | 5.8       | 2                     | 95,798 | 0     | 0    | 1         | 1,210 | 0     | 0    | 0     | 0    | 0         | 32,315 |        |  |
| 3    | 7,000             |       |       |           | 0                     | 95,798 | 0     | 0    | 0         | 1,210 | 0     | 0    | 0     | 0    | 1         | 32,316 |        |  |
| 4    | 7,100             | 75    | 54.5  | 5.9       | 1                     | 95,799 | 1     | 1    | 0         | 1,210 | 0     | 0    | 0     | 0    | 0         | 32,316 |        |  |
| 5    | 7,100             |       |       |           | 1                     | 95,800 | 0     | 1    | 2         | 1,212 | 0     | 0    | 0     | 0    | 1         | 32,317 |        |  |
| 6    | 7,100             | 73    | 54.5  | 5.6       | 3                     | 95,803 | 1     | 2    | 7         | 1,219 | 0     | 0    | 0     | 0    | 3         | 32,320 |        |  |
| 7    | 7,200             |       |       |           | 27                    | 95,830 | 0     | 2    | 3         | 1,222 | 0     | 0    | 0     | 0    | 4         | 32,324 |        |  |
| 8    | 7,300             |       |       |           | 17                    | 95,847 | 0     | 2    | 11        | 1,233 | 0     | 0    | 0     | 0    | 20        | 32,344 |        |  |
| 9    | 7,300             | 71    | 54.5  | 6.0       | 20                    | 95,867 | 0     | 2    | 6         | 1,239 | 0     | 0    | 0     | 0    | 20        | 32,364 |        |  |
| 10   | 7,200             | 71    | 54.7  | 6.1       | 26                    | 95,893 | 4     | 6    | 5         | 1,244 | 0     | 0    | 0     | 0    | 18        | 32,382 |        |  |
| 11   | 6,900             |       |       |           | 20                    | 95,913 | 1     | 7    | 1         | 1,245 | 0     | 0    | 0     | 0    | 31        | 32,413 |        |  |
| 12   | 7,000             | 72    | 54.3  | 6.2       | 22                    | 95,935 | 2     | 9    | 12        | 1,257 | 0     | 0    | 0     | 0    | 23        | 32,436 |        |  |
| 13   | 7,000             |       |       |           | 21                    | 95,956 | 0     | 9    | 6         | 1,263 | 0     | 0    | 0     | 0    | 11        | 32,447 |        |  |
| 14   | 7,000             |       |       |           | 12                    | 95,968 | 1     | 10   | 2         | 1,265 | 0     | 0    | 0     | 0    | 2         | 32,449 |        |  |
| 15   | 7,000             |       |       |           | 0                     | 95,968 | 0     | 10   | 3         | 1,268 | 0     | 0    | 0     | 0    | 1         | 32,450 |        |  |
| 16   | 7,000             | 75    | 54.3  | 6.3       | 1                     | 1      | 0     | 0    | 1         | 1,269 | 0     | 0    | 0     | 0    | 1         | 32,451 |        |  |
| 17   | 7,100             |       |       |           | 3                     | 4      | 0     | 0    | 1         | 1,270 | 0     | 0    | 0     | 0    | 1         | 32,452 |        |  |
| 18   | 7,200             | 75    | 54.4  | 6.6       | 0                     | 4      | 0     | 0    | 0         | 1,270 | 0     | 0    | 0     | 0    | 2         | 32,454 |        |  |
| 19   | 7,100             | 74    | 54.4  | 6.4       | 1                     | 5      | 0     | 0    | 0         | 1,270 | 0     | 0    | 0     | 0    | 0         | 32,454 |        |  |
| 20   | 7,000             | 74    | 54.4  | 6.2       | 0                     | 5      | 0     | 0    | 0         | 1,270 | 0     | 0    | 0     | 0    | 0         | 32,454 |        |  |
| 21   | 7,000             |       |       |           | 1                     | 6      | 0     | 0    | 0         | 1,270 | 0     | 0    | 0     | 0    | 0         | 32,454 |        |  |
| 22   | 7,100             |       |       |           | 1                     | 7      | 0     | 0    | 1         | 1,271 | 0     | 0    | 0     | 0    | 0         | 32,454 |        |  |
| 23   | 7,600             | 73    | 54.5  | 6.3       | 0                     | 7      | 0     | 0    | 0         | 1,271 | 0     | 0    | 0     | 0    | 4         | 32,458 |        |  |
| 24   | 8,300             | 72    | 54.7  | 6.1       | 7                     | 14     | 2     | 2    | 0         | 1,271 | 0     | 0    | 0     | 0    | 12        | 32,470 |        |  |
| 25   | 7,200             | 71    | 54.7  | 5.8       | 11                    | 25     | 1     | 3    | 2         | 1,273 | 0     | 0    | 0     | 0    | 20        | 32,490 |        |  |
| 26   | 9,000             | 69    | 55.2  | 5.6       | 22                    | 47     | 1     | 4    | 3         | 1,276 | 1     | 1    | 0     | 0    | 38        | 32,528 |        |  |
| 27   | 10,100            | 67    | 55.7  | 5.7       | 9                     | 56     | 0     | 4    | 1         | 1,277 | 0     | 1    | 0     | 0    | 50        | 32,578 |        |  |
| 28   | 9,500             |       |       |           | 40                    | 96     | 0     | 4    | 4         | 1,281 | 3     | 4    | 1     | 1    | 106       | 32,684 |        |  |
| 29   | 8,500             |       |       |           | 24                    | 120    | 0     | 4    | 0         | 1,281 | 1     | 5    | 1     | 2    | 83        | 32,767 |        |  |
| 30   | 8,200             | 66    | 54.9  | 4.7       | 22                    | 142    | 4     | 8    | 0         | 1,281 | 5     | 10   | 1     | 3    | 32        | 32,799 |        |  |
| 31   | 8,100             | 67    | 54.7  | 4.8       | 29                    | 171    | 1     | 9    | 0         | 1,281 | 2     | 12   | 1     | 4    | 44        | 32,843 |        |  |

\*Chinook were counted as Fall Chinook beginning on Aug 16.





# WILLAMETTE FALLS FISHWAY COUNTS

Month October Year 2004

| Date | Hydrological Data |       |       |           | Fall Chinook |      |       |      |           |       | Coho  |       |       |      | Steelhead |        |        |  |
|------|-------------------|-------|-------|-----------|--------------|------|-------|------|-----------|-------|-------|-------|-------|------|-----------|--------|--------|--|
|      |                   |       |       |           | Adult        |      | Jack  |      | Mini Jack |       | Adult |       | Jack  |      | Summer    |        | Winter |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily        | Cum. | Daily | Cum. | Daily     | Cum.  | Daily | Cum.  | Daily | Cum. | Daily     | Cum.   |        |  |
|      |                   |       |       |           |              | 670  |       | 116  |           | 1,289 |       | 2271  |       | 499  |           | 33,287 |        |  |
| 1    | 9,700             | 62    | 54.7  | 6.7       | 1            | 671  | 0     | 116  | 0         | 1,289 | 44    | 2,315 | 2     | 501  | 7         | 33,294 |        |  |
| 2    | 9,800             |       |       |           | 0            | 671  | 0     | 116  | 0         | 1,289 | 30    | 2,345 | 0     | 501  | 9         | 33,303 |        |  |
| 3    | 10,000            |       |       |           | 0            | 671  | 0     | 116  | 0         | 1,289 | 56    | 2,401 | 7     | 508  | 3         | 33,306 |        |  |
| 4    | 10,000            | 61    | 54.9  | 6.4       | 0            | 671  | 0     | 116  | 0         | 1,289 | 33    | 2,434 | 1     | 509  | 1         | 33,307 |        |  |
| 5    | 9,900             |       |       |           | 0            | 671  | 0     | 116  | 0         | 1,289 | 20    | 2,454 | 1     | 510  | 2         | 33,309 |        |  |
| 6    | 10,000            | 61    | 54.7  | 6.2       | 0            | 671  | 0     | 116  | 0         | 1,289 | 37    | 2,491 | 0     | 510  | 4         | 33,313 |        |  |
| 7    | 10,600            | 61    | 54.7  | 6.6       | 0            | 671  | 0     | 116  | 0         | 1,289 | 31    | 2,522 | 0     | 510  | 3         | 33,316 |        |  |
| 8    | 11,300            | 62    | 54.8  | 6.5       | 1            | 672  | 0     | 116  | 0         | 1,289 | 19    | 2,541 | 0     | 510  | 1         | 33,317 |        |  |
| 9    | 11,900            |       |       |           | 0            | 672  | 0     | 116  | 0         | 1,289 | 20    | 2,561 | 3     | 513  | 1         | 33,318 |        |  |
| 10   | 13,800            |       |       |           | 0            | 672  | 0     | 116  | 0         | 1,289 | 24    | 2,585 | 2     | 515  | 1         | 33,319 |        |  |
| 11   | 13,500            | 63    | 55.1  | 6.3       | 0            | 672  | 0     | 116  | 0         | 1,289 | 36    | 2,621 | 2     | 517  | 4         | 33,323 |        |  |
| 12   | 13,500            | 59    | 55.1  | 6.3       | 0            | 672  | 0     | 116  | 0         | 1,289 | 16    | 2,637 | 0     | 517  | 1         | 33,324 |        |  |
| 13   | 13,100            | 58    | 55.1  | 6.2       | 0            | 672  | 0     | 116  | 0         | 1,289 | 15    | 2,652 | 0     | 517  | 1         | 33,325 |        |  |
| 14   | 11,700            |       |       |           | 0            | 672  | 0     | 116  | 0         | 1,289 | 18    | 2,670 | 4     | 521  | 3         | 33,328 |        |  |
| 15   | 11,700            | 59    | 55.1  | 6.2       | 0            | 672  | 0     | 116  | 0         | 1,289 | 15    | 2,685 | 0     | 521  | 6         | 33,334 |        |  |
| 16   | 11,700            |       |       |           | 0            | 672  | 0     | 116  | 0         | 1,289 | 15    | 2,700 | 0     | 521  | 13        | 33,347 |        |  |
| 17   | 11,400            |       |       |           | 0            | 672  | 0     | 116  | 0         | 1,289 | 18    | 2,718 | 0     | 521  | 11        | 33,358 |        |  |
| 18   | 11,800            | 59    | 55.0  | 5.1       | 0            | 672  | 0     | 116  | 0         | 1,289 | 15    | 2,733 | 0     | 521  | 9         | 33,367 |        |  |
| 19   | 13,400            | 58    | 55.1  | 5.1       | 1            | 673  | 0     | 116  | 0         | 1,289 | 3     | 2,736 | 0     | 521  | 5         | 33,372 |        |  |
| 20   | 15,300            | 57    | 55.9  | 4.9       | 0            | 673  | 0     | 116  | 0         | 1,289 | 4     | 2,740 | 0     | 521  | 10        | 33,382 |        |  |
| 21   | 14,800            | 56    | 56.0  | 4.8       | 0            | 673  | 0     | 116  | 0         | 1,289 | 2     | 2,742 | 0     | 521  | 5         | 33,387 |        |  |
| 22   | 14,900            |       |       |           | 0            | 673  | 0     | 116  | 0         | 1,289 | 14    | 2,756 | 0     | 521  | 6         | 33,393 |        |  |
| 23   | 15,900            |       |       |           | 0            | 673  | 0     | 116  | 0         | 1,289 | 7     | 2,763 | 0     | 521  | 4         | 33,397 |        |  |
| 24   | 17,300            |       |       |           | 0            | 673  | 0     | 116  | 0         | 1,289 | 2     | 2,765 | 0     | 521  | 5         | 33,402 |        |  |
| 25   | 17,500            | 52    | 55.6  | 5.8       | 0            | 673  | 0     | 116  | 0         | 1,289 | 5     | 2,770 | 0     | 521  | 6         | 33,408 |        |  |
| 26   | 17,000            | 52    | 55.4  | 5.8       | 0            | 673  | 0     | 116  | 0         | 1,289 | 2     | 2,772 | 0     | 521  | 5         | 33,413 |        |  |
| 27   | 17,500            | 51    | 55.7  | 5.6       | 0            | 673  | 0     | 116  | 0         | 1,289 | 6     | 2,778 | 0     | 521  | 7         | 33,420 |        |  |
| 28   | 17,200            | 49    | 55.7  | 5.2       | 0            | 673  | 0     | 116  | 0         | 1,289 | 2     | 2,780 | 0     | 521  | 5         | 33,425 |        |  |
| 29   | 17,400            | 49    | 55.9  | 5.2       | 0            | 673  | 0     | 116  | 0         | 1,289 | 0     | 2,780 | 0     | 521  | 2         | 33,427 |        |  |
| 30   | 17,600            |       |       |           | 0            | 673  | 0     | 116  | 0         | 1,289 | 6     | 2,786 | 0     | 521  | 4         | 33,431 |        |  |
| 31   | 18,700            |       |       |           | 0            | 673  | 0     | 116  | 0         | 1,289 | 5     | 2,791 | 0     | 521  | 9         | 33,440 |        |  |



# WILLAMETTE FALLS FISHWAY COUNTS

Month December                      Year 2004

| Date | Hydrological Data |       |       |           | Fall Chinook |      |       |      |           |      | Coho  |       |       |      | Steelhead |      |        |  |
|------|-------------------|-------|-------|-----------|--------------|------|-------|------|-----------|------|-------|-------|-------|------|-----------|------|--------|--|
|      |                   |       |       |           | Adult        |      | Jack  |      | Mini Jack |      | Adult |       | Jack  |      | Summer    |      | Winter |  |
|      | Flow              | Temp. | Hwtr. | Turbidity | Daily        | Cum. | Daily | Cum. | Daily     | Cum. | Daily | Cum.  | Daily | Cum. | Daily     | Cum. |        |  |
|      |                   |       |       |           |              |      |       |      |           |      | 2,846 | 524   |       |      |           | 157  |        |  |
| 1    | 12,600            | 39    | 54.0  | 5.3       |              |      |       |      |           |      | 0     | 2,846 | 0     | 524  |           | 6    | 163    |  |
| 2    | 12,600            | 40    | 54.0  | 5.4       |              |      |       |      |           |      | 1     | 2,847 | 0     | 524  |           | 2    | 165    |  |
| 3    | 12,100            | 39    | 54.0  | 5.4       |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 1    | 166    |  |
| 4    | 10,800            |       |       |           |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 3    | 169    |  |
| 5    | 10,600            |       |       |           |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 6    | 175    |  |
| 6    | 10,600            | 38    | 54.2  | 5.4       |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 6    | 181    |  |
| 7    | 11,500            | 38    | 54.3  | 5.3       |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 7    | 188    |  |
| 8    | 16,900            | 39    | 54.8  | 5.2       |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 4    | 192    |  |
| 9    | 33,300            | 39    | 57.1  | 2.2       |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 8    | 200    |  |
| 10   | 58,300            | 42    | 54.5  | <1.0      |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 6    | 206    |  |
| 11   | 62,100            |       |       |           |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 5    | 211    |  |
| 12   | 64,700            |       |       |           |              |      |       |      |           |      | 0     | 2,847 | 0     | 524  |           | 11   | 222    |  |
| 13   | 58,300            | 42    | 54.5  | <1.0      |              |      |       |      |           |      | 1     | 2,848 | 0     | 524  |           | 13   | 235    |  |
| 14   | 51,200            | 42    | 52.5  | <1.0      |              |      |       |      |           |      | 1     | 2,849 | 0     | 524  |           | 20   | 255    |  |
| 15   | 48,300            | 42    | 57.6  | <1.0      |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 15   | 270    |  |
| 16   | 45,900            | 42    | 57.1  | <1.0      |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 4    | 274    |  |
| 17   | 39,600            | 40    | 56.5  | <1.0      |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 18   | 292    |  |
| 18   | 33,300            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 20   | 312    |  |
| 19   | 28,200            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 9    | 321    |  |
| 20   | 25,500            | 39    | 56.0  | 1.0       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 31   | 352    |  |
| 21   | 23,500            | 38    | 55.7  | 1.0       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 10   | 362    |  |
| 22   | 22,600            | 38    | 55.5  | 2.0       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 9    | 371    |  |
| 23   | 21,900            | 37    | 55.4  | 2.5       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 10   | 381    |  |
| 24   | 21,000            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 21   | 402    |  |
| 25   | 19,400            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 23   | 425    |  |
| 26   | 18,600            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 21   | 446    |  |
| 27   | 18,800            | 37    | 55.0  | 4.3       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 11   | 457    |  |
| 28   | 18,200            | 37    | 55.0  | 4.3       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 20   | 477    |  |
| 29   | 17,000            | 37    | 54.8  | 4.0       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 26   | 503    |  |
| 30   | 16,900            | 37    | 54.7  | 4.0       |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 18   | 521    |  |
| 31   | 16,700            |       |       |           |              |      |       |      |           |      | 0     | 2,849 | 0     | 524  |           | 18   | 539    |  |