|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **APPENDIX 1. ICE HARBOR ADULT FISHWAY INSPECTIONS** | | | | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **DATES:** | 2-Mar | 6-Mar | 7-Mar | 8-Mar | 13-Mar | 14-Mar | 15-Mar | 20-Mar | 21-Mar | 23-Mar |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.2 | 1.2 | 1.6 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.7 | 438.4 | 439.0 | 438.8 | 438.8 | 439.0 | 440.0 | 438.0 | 437.9 | 438.9 |
| Exit Pool | 438.7 | 438.4 | 438.9 | 438.8 | 438.8 | 439.0 | 440.0 | 438.0 | 437.8 | 438.8 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.2 | 434.2 | 434.3 | 434.2 | 434.3 |
| U S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.8 | 438.5 | 438.9 | 438.8 | 438.8 | 439.0 | 440.0 | 437.9 | 437.8 | 438.8 |
| Exit Pool | 438.7 | 438.5 | 438.9 | 438.8 | 438.8 | 439.0 | 440.0 | 437.9 | 437.8 | 438.7 |
| Makeup Diffuser | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 345.4 | 346.0 | 346.2 | 346.1 | 350.4 | 349.8 | 350.8 | 353.1 | 353.9 | 353.6 |
| North Pwrh SG2 | 344.8 | 345.5 | 345.5 | 345.3 | 350.0 | 349.4 | 350.4 | 353.1 | 353.8 | 353.2 |
| North Shore SG30 | 344.3 | 345.4 | 345.1 | 344.7 | 348.1 | 347.5 | 349.5 | 352.0 |  | 351.9 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 343.4 | 344.4 | 344.8 | 344.4 | 348.9 | 348.4 | 349.5 | 352.0 | 352.8 | 352.0 |
| North Pwrh SG1 | 343.4 | 344.4 | 344.5 | 344.2 | 348.9 | 348.3 | 349.4 | 352.0 | 352.8 | 352.0 |
| North Shore SG29 | 343.0 | 344.3 | 343.3 | 343.4 | 347.5 | 346.5 | 348.0 | 350.5 |  | 350.5 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 336.6 | 334.8 | 334.7 | 336.4 | 342.2 | 340.8 | 341.0 | 344.5 | 344.8 | 344.8 |
| NFE 2 | 334.7 | 334.7 | 334.7 | 335.5 | 336.5 | 336.5 | 336.5 | 338.4 | 338.4 | 338.4 |
| NSE 1 | 333.8 | 333.6 | 334.6 | 332.8 | 333.8 | 333.8 | 337.6 | 342.9 |  | 341.9 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.2 | 1.3 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Ladder Weirs | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 2.0 | 1.6 | 1.4 | 1.7 | 1.5 | 1.4 | 1.3 | 1.1 | 1.1 | 1.6 |
| North Powerhouse | 1.4 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 1.2 |
| North Shore | 1.3 | 1.1 | 1.8 | 1.3 | 0.6 | 1.0 | 1.5 | 1.5 | 0.0 | 1.4 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 6.8 | 9.6 | 10.1 | 8.0 | 6.7 | 7.6 | 8.5 | 7.5 | 8.0 | 7.2 |
| NFE 2 | 8.7 | 9.7 | 9.8 | 8.7 | 12.4 | 11.8 | 12.9 | 13.6 | 14.4 | 13.6 |
| NSE 1 | 9.2 | 10.7 | 8.7 | 10.6 | 13.7 | 12.7 | 10.4 | 7.6 | 0.0 | 8.6 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | NO | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | NO | YES | YES | YES | NO | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | NO | YES | YES | YES | NO | NO | YES | NO | YES | NO |
| NFE 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| NSE 1 | YES | YES | YES | YES | YES | YES | YES | NO | SILL | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **OUT OF CRITERIA SITUATIONS BY INCREMENTS - THESE SHOULD MATCH THE "NOs" ABOVE.** | | | | | | | |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 27-Mar | 28-Mar | 30-Mar | 3-Apr | 4-Apr | 5-Apr | 10-Apr | 11-Apr | 12-Apr | 17-Apr |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.5 | 1.5 | 0.9 | 0.9 | 1.0 | 1.7 | 1.8 | 1.4 | 1.5 | 1.4 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.4 | 438.1 | 437.5 | 437.6 | 437.4 | 437.6 | 438.7 | 437.3 | 437.6 | 437.7 |
| Exit Pool | 437.3 | 438.0 | 437.4 | 437.6 | 437.4 | 437.5 | 438.7 | 437.3 | 437.6 | 437.7 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.2 | 434.3 | 434.3 | 434.2 | 434.3 | 434.3 | 434.2 |
| U S Picketed Leads | 381.2 | 381.2 | 381.3 | 381.2 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.3 | 438.1 | 437.4 | 437.6 | 437.3 | 437.5 | 437.6 | 437.3 | 437.6 | 437.6 |
| Exit Pool | 437.2 | 438.0 | 437.4 | 437.5 | 437.3 | 437.4 | 437.5 | 437.3 | 437.6 | 437.5 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.3 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 351.9 | 351.0 | 351.3 | 351.0 | 351.4 | 350.5 | 349.7 | 348.0 | 350.9 | 348.0 |
| North Pwrh SG2 | 351.9 | 350.8 | 351.3 | 350.9 | 350.9 | 350.3 | 349.4 | 347.4 | 350.4 | 347.6 |
| North Shore SG30 | 350.8 | 349.7 | 349.4 | 349.3 | 349.9 | 348.9 | 348.0 | 346.3 | 349.5 | 345.8 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 350.2 | 349.2 | 349.9 | 349.2 | 349.2 | 348.9 | 348.6 | 346.4 | 349.4 | 346.4 |
| North Pwrh SG1 | 350.1 | 349.0 | 349.8 | 349.1 | 348.8 | 348.7 | 348.4 | 346.3 | 349.4 | 346.3 |
| North Shore SG29 | 349.1 | 349.0 | 347.7 | 347.5 | 347.6 | 347.5 | 346.6 | 345.0 | 347.8 | 344.2 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 342.1 | 340.9 | 340.4 | 340.4 | 340.4 | 341.4 | 338.6 | 336.1 | 340.1 | 336.2 |
| NFE 2 | 340.1 | 340.1 | 340.8 | 341.0 | 341.0 | 336.3 | 336.0 | 336.0 | 336.0 | 336.0 |
| NSE 1 | 341.9 | 340.9 | 339.7 | 339.5 | 339.0 | 337.5 | 336.8 | 336.8 | 336.6 | 334.1 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.2 | 1.3 | 1.3 | 1.2 | 1.3 | 1.3 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.7 | 1.8 | 1.4 | 1.8 | 2.2 | 1.6 | 1.1 | 1.6 | 1.5 | 1.6 |
| North Powerhouse | 1.8 | 1.8 | 1.5 | 1.8 | 2.1 | 1.6 | 1.0 | 1.1 | 1.0 | 1.3 |
| North Shore | 1.7 | 0.7 | 1.7 | 1.8 | 2.3 | 1.4 | 1.4 | 1.3 | 1.7 | 1.6 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 8.1 | 8.3 | 9.5 | 8.8 | 8.8 | 7.5 | 10.0 | 10.3 | 9.3 | 10.2 |
| NFE 2 | 10.0 | 8.9 | 9.0 | 8.1 | 7.8 | 12.4 | 12.4 | 10.3 | 13.4 | 10.3 |
| NSE 1 | 7.2 | 8.1 | 8.0 | 8.0 | 8.6 | 10.0 | 9.8 | 8.2 | 11.2 | 10.1 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | NO | NO | NO | YES | YES | NO | YES | NO |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES |
| North Shore | YES | NO | YES | YES | NO | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | YES | YES | NO | YES | YES | YES | YES |
| NFE 2 | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES |
| NSE 1 | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 19-Apr | 20-Apr | 24-Apr | 25-Apr | 26-Apr | 2-May | 3-May | 4-May | 8-May | 9-May |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.2 | 1.3 | 1.4 | 1.4 | 1.2 | 1.3 | 1.5 | 1.5 | 2.1 | 1.7 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.7 | 437.6 | 437.8 | 437.7 | 437.6 | 437.6 | 437.9 | 438.2 | 438.2 | 438.1 |
| Exit Pool | 437.7 | 437.5 | 437.8 | 437.7 | 437.5 | 437.6 | 437.8 | 438.1 | 438.1 | 438.0 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.2 | 434.2 | 434.3 | 434.3 |
| U S Picketed Leads | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.8 | 437.5 | 437.9 | 437.7 | 437.5 | 437.5 | 437.7 | 438.1 | 438.2 | 438.1 |
| Exit Pool | 437.6 | 437.4 | 437.9 | 437.7 | 437.5 | 437.5 | 437.7 | 438.1 | 438.2 | 438.1 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 348.3 | 348.9 | 348.5 | 349.3 | 349.6 | 348.5 | 348.0 | 348.0 | 351.6 | 351.0 |
| North Pwrh SG2 | 348.1 | 348.7 | 348.2 | 348.9 | 349.3 | 348.2 | 347.4 | 347.7 | 351.4 | 350.6 |
| North Shore SG30 | 347.0 | 347.1 | 347.6 | 347.5 | 348.0 | 346.6 | 345.7 | 346.0 | 350.3 | 349.7 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 347.0 | 347.7 | 347.2 | 347.9 | 348.2 | 347.2 | 346.5 | 346.5 | 350.4 | 349.9 |
| North Pwrh SG1 | 347.0 | 347.6 | 347.0 | 347.7 | 348.2 | 347.1 | 346.0 | 346.4 | 350.4 | 349.5 |
| North Shore SG29 | 345.5 | 345.5 | 346.0 | 345.7 | 346.4 | 345.0 | 344.4 | 344.4 | 349.0 | 348.4 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 336.4 | 337.4 | 336.7 | 338.0 | 338.6 | 337.6 | 336.9 | 337.3 | 342.9 | 341.6 |
| NFE 2 | 336.0 | 336.0 | 336.0 | 336.0 | 336.0 | 336.5 | 336.2 | 336.2 | 336.2 | 336.2 |
| NSE 1 | 334.1 | 334.2 | 334.2 | 334.2 | 334.2 | 334.1 | 334.2 | 334.2 | 337.5 | 338.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.3 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.3 | 1.2 | 1.3 | 1.4 | 1.4 | 1.3 | 1.5 | 1.5 | 1.2 | 1.1 |
| North Powerhouse | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.1 | 1.4 | 1.3 | 1.0 | 1.1 |
| North Shore | 1.5 | 1.6 | 1.6 | 1.8 | 1.6 | 1.6 | 1.3 | 1.6 | 1.3 | 1.3 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 10.6 | 10.3 | 10.5 | 9.9 | 9.6 | 9.6 | 9.6 | 9.2 | 7.5 | 8.3 |
| NFE 2 | 11.0 | 11.6 | 11.0 | 11.7 | 12.2 | 10.6 | 9.8 | 10.2 | 14.2 | 13.3 |
| NSE 1 | 11.4 | 11.3 | 11.8 | 11.5 | 12.2 | 10.9 | 10.2 | 10.2 | 11.5 | 10.1 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | YES | YES | YES | YES | YES | NO | YES |
| NFE 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| NSE 1 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 10-May | 15-May | 16-May | 18-May | 22-May | 23-May | 25-May | 30-May | 31-May | 5-Jun |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.5 | 1.8 | 1.1 | 2.3 | 1.5 | 1.4 | 1.6 | 1.4 | 1.7 | 1.8 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.3 | 438.0 | 438.4 | 438.7 | 438.1 | 438.7 | 438.4 | 438.3 | 438.4 | 438.4 |
| Exit Pool | 438.3 | 438.0 | 438.3 | 438.7 | 438.1 | 438.7 | 438.4 | 438.3 | 438.4 | 438.3 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.2 | 434.2 | 434.3 | 434.2 | 434.2 |
| U S Picketed Leads | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.3 | 438.0 | 438.4 | 438.7 | 438.1 | 438.7 | 438.6 | 438.3 | 438.4 | 438.3 |
| Exit Pool | 438.3 | 438.0 | 438.4 | 438.8 | 438.1 | 438.7 | 438.6 | 438.3 | 438.4 | 438.3 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 351.1 | 350.8 | 350.2 | 348.5 | 347.9 | 348.3 | 350.6 | 349.9 | 351.8 | 350.8 |
| North Pwrh SG2 | 350.7 | 350.4 | 350.0 | 348.0 | 347.3 | 348.0 | 350.2 | 349.6 | 351.5 | 350.5 |
| North Shore SG30 | 349.5 | 349.0 | 349.0 | 347.4 | 345.6 | 346.3 | 348.3 | 348.0 | 350.1 | 350.0 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 349.8 | 349.4 | 348.6 | 346.8 | 346.2 | 346.7 | 349.1 | 348.4 | 350.5 | 349.2 |
| North Pwrh SG1 | 349.5 | 349.2 | 348.7 | 346.6 | 345.9 | 346.5 | 348.8 | 348.5 | 350.5 | 349.2 |
| North Shore SG29 | 348.0 | 347.1 | 347.3 | 344.3 | 344.0 | 344.6 | 346.4 | 346.4 | 348.2 | 348.5 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 341.6 | 341.4 | 339.4 | 337.2 | 336.8 | 337.9 | 340.8 | 339.5 | 342.2 | 341.7 |
| NFE 2 | 336.2 | 336.9 | 337.0 | 336.9 | 336.9 | 336.9 | 336.9 | 336.9 | 337.6 | 337.5 |
| NSE 1 | 338.3 | 339.1 | 338.7 | 338.6 | 334.8 | 334.8 | 339.1 | 336.7 | 338.5 | 338.5 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.3 | 1.4 | 1.6 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.3 | 1.6 |
| North Powerhouse | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 | 1.1 | 1.0 | 1.3 |
| North Shore | 1.5 | 1.9 | 1.7 | 3.1 | 1.6 | 1.7 | 1.9 | 1.6 | 1.9 | 1.5 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 8.2 | 8.0 | 9.2 | 9.6 | 9.4 | 8.8 | 8.3 | 8.9 | 8.3 | 7.5 |
| NFE 2 | 13.3 | 12.3 | 11.7 | 9.7 | 9.0 | 9.6 | 11.9 | 11.6 | 12.9 | 11.7 |
| NSE 1 | 9.7 | 8.0 | 8.6 | 5.7 | 9.2 | 9.8 | 7.3 | 9.7 | 9.7 | 10.0 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | NO | YES | YES | NO | YES | NO | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | NO | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO |
| NFE 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| NSE 1 | YES | YES | YES | NO | YES | YES | NO | YES | YES | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 6-Jun | 7-Jun | 12-Jun | 13-Jun | 14-Jun | 19-Jun | 21-Jun | 22-Jun | 26-Jun | 27-Jun |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.5 | 1.6 | 1.5 | 1.7 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.7 | 438.5 | 438.0 | 438.1 | 438.4 | 437.7 | 437.6 | 437.5 | 437.7 | 437.6 |
| Exit Pool | 438.6 | 438.5 | 438.0 | 438.1 | 438.4 | 437.7 | 437.5 | 437.5 | 437.6 | 437.5 |
| Makeup Diffuser | 434.3 | 434.2 | 434.3 | 434.3 | 434.3 | 434.2 | 434.3 | 434.2 | 434.3 | 434.2 |
| U S Picketed Leads | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.4 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.4 | 438.9 | 438.0 | 437.8 | 438.4 | 437.7 | 437.5 | 437.5 | 437.6 | 437.6 |
| Exit Pool | 438.4 | 438.9 | 438.0 | 437.7 | 438.3 | 437.7 | 437.5 | 437.5 | 437.5 | 437.6 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 351.2 | 350.2 | 348.4 | 346.4 | 349.1 | 348.0 | 347.6 | 348.0 | 346.7 | 346.9 |
| North Pwrh SG2 | 351.0 | 349.9 | 348.0 | 346.5 | 349.2 | 347.4 | 346.9 | 347.5 | 346.3 | 346.2 |
| North Shore SG30 | 350.0 | 348.0 | 346.8 | 343.0 | 348.0 | 345.3 | 345.3 | 345.4 | 344.8 | 345.4 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 350.0 | 348.8 | 346.9 | 344.8 | 348.0 | 346.1 | 345.8 | 346.1 | 344.7 | 345.2 |
| North Pwrh SG1 | 349.9 | 348.8 | 346.5 | 344.6 | 347.9 | 346.2 | 345.5 | 346.2 | 344.8 | 345.1 |
| North Shore SG29 | 348.9 | 346.6 | 345.1 | 341.3 | 346.8 | 343.8 | 343.6 | 344.3 | 343.8 | 343.8 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 339.9 | 339.5 | 338.4 | 337.8 | 337.1 | 338.4 | 337.3 | 337.6 | 336.6 | 335.8 |
| NFE 2 | 337.4 | 337.0 | 337.3 | 336.2 | 335.7 | 335.6 | 335.7 | 336.5 | 335.4 | 334.7 |
| NSE 1 | 338.0 | 334.8 | 336.0 | 334.3 | 334.7 | 335.2 | 335.1 | 334.1 | 335.8 | 335.7 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 |
| Ladder Weirs | 1.3 | 1.2 | 1.3 | 1.3 | 1.3 | 1.2 | 1.3 | 1.2 | 1.3 | 1.2 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.2 | 1.4 | 1.5 | 1.6 | 1.1 | 1.9 | 1.8 | 1.9 | 2.0 | 1.7 |
| North Powerhouse | 1.1 | 1.1 | 1.5 | 1.9 | 1.3 | 1.2 | 1.4 | 1.3 | 1.5 | 1.1 |
| North Shore | 1.1 | 1.4 | 1.7 | 1.7 | 1.2 | 1.5 | 1.7 | 1.1 | 1.0 | 1.6 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 10.1 | 9.3 | 8.5 | 7.0 | 10.9 | 7.7 | 8.5 | 8.5 | 8.1 | 9.4 |
| NFE 2 | 12.5 | 11.8 | 9.2 | 8.4 | 12.2 | 10.6 | 9.8 | 9.7 | 9.4 | 10.4 |
| NSE 1 | 10.9 | 11.8 | 9.1 | 7.0 | 12.1 | 8.6 | 8.5 | 10.2 | 8.0 | 8.1 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | NO | YES | NO | YES | YES | YES | YES |
| NFE 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| NSE 1 | YES | YES | YES | NO | YES | YES | YES | YES | YES | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 28-Jun | 3-Jul | 5-Jul | 6-Jul | 10-Jul | 11-Jul | 12-Jul | 17-Jul | 18-Jul | 20-Jul |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.6 | 2.1 | 2.1 | 1.8 | 2.5 | 1.9 | 2.1 | 2.3 | 1.7 | 2.5 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.7 | 437.7 | 437.7 | 437.7 | 437.6 | 437.7 | 437.9 | 437.5 | 437.6 | 437.7 |
| Exit Pool | 437.6 | 437.6 | 437.7 | 437.6 | 437.6 | 437.7 | 437.9 | 437.5 | 437.5 | 437.7 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 | 434.2 | 434.2 |
| U S Picketed Leads | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.6 | 437.7 | 437.8 | 437.6 | 437.6 | 437.7 | 438.0 | 437.3 | 437.5 | 437.7 |
| Exit Pool | 437.6 | 437.7 | 437.9 | 437.5 | 437.6 | 437.7 | 438.0 | 437.3 | 437.6 | 437.6 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 346.6 | 344.5 | 345.5 | 344.5 | 342.7 | 342.9 | 342.7 | 343.0 | 342.7 | 343.4 |
| North Pwrh SG2 | 346.0 | 344.1 | 345.0 | 344.0 | 342.1 | 342.5 | 342.1 | 342.4 | 341.9 | 342.8 |
| North Shore SG30 | 345.2 | 344.6 | 344.0 | 344.8 | 343.0 | 342.0 | 342.0 | 341.0 | 341.3 | 341.8 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 345.0 | 342.7 | 343.7 | 342.9 | 340.8 | 341.2 | 341.0 | 341.1 | 340.9 | 341.6 |
| North Pwrh SG1 | 344.8 | 342.7 | 344.0 | 342.8 | 341.0 | 341.2 | 341.1 | 341.0 | 340.4 | 341.6 |
| North Shore SG29 | 343.8 | 343.6 | 340.3 | 342.8 | 338.5 | 340.3 | 340.2 | 339.2 | 339.6 | 340.7 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 335.8 | 333.5 | 333.5 | 333.5 | 333.5 | 333.5 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 334.7 | 333.4 | 333.5 | 333.4 | 332.7 | 332.7 | 332.7 | 332.7 | 332.3 | 332.3 |
| NSE 1 | 335.7 | 335.6 | 335.5 | 335.6 | 335.5 | 332.6 | 332.3 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.6 | 1.8 | 1.8 | 1.6 | 1.9 | 1.7 | 1.7 | 1.9 | 1.8 | 1.8 |
| North Powerhouse | 1.2 | 1.4 | 1.0 | 1.2 | 1.1 | 1.3 | 1.0 | 1.4 | 1.5 | 1.2 |
| North Shore | 1.4 | 1.0 | 3.7 | 2.0 | 4.5 | 1.7 | 1.8 | 1.8 | 1.7 | 1.1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 9.2 | 9.2 | 10.2 | 9.4 | 7.3 | 7.7 | 8.7 | 8.8 | 8.6 | 9.3 |
| NFE 2 | 10.1 | 9.3 | 10.5 | 9.4 | 8.3 | 8.5 | 8.4 | 8.3 | 8.1 | 9.3 |
| NSE 1 | 8.1 | 8.0 | 4.8 | 7.2 | 3.0 | 7.7 | 7.9 | 6.9 | 7.3 | 8.4 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | NO | YES | NO | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | YES | NO | NO | YES | YES | YES | YES |
| NFE 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| NSE 1 | YES | YES | NO | NO | NO | NO | SILL | SILL | SILL | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 24-Jul | 25-Jul | 26-Jul | 1-Aug | 2-Aug | 3-Aug | 7-Aug | 8-Aug | 9-Aug | 14-Aug |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.7 | 2.6 | 2.4 | 2.3 | 2.6 | 2.4 | 2.3 | 2.5 | 2.2 | 2.7 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.6 | 437.6 | 437.8 | 437.5 | 437.9 | 437.7 | 437.7 | 438.0 | 437.4 | 438.5 |
| Exit Pool | 437.5 | 437.6 | 437.7 | 437.4 | 437.9 | 437.6 | 437.6 | 437.9 | 437.3 | 438.5 |
| Makeup Diffuser | 434.3 | 434.2 | 434.2 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.4 | 381.3 | 381.4 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.5 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 437.6 | 437.6 | 437.7 | 437.5 | 437.8 | 437.6 | 437.7 | 437.9 | 437.3 | 438.4 |
| Exit Pool | 437.5 | 437.6 | 437.7 | 437.3 | 437.7 | 437.6 | 437.6 | 437.9 | 437.3 | 438.4 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 | 434.2 | 434.1 |
| U S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 | 434.2 | 434.3 | 434.4 | 434.2 | 434.2 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 | 434.2 | 434.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 341.4 | 342.0 | 342.7 | 343.1 | 342.1 | 342.2 | 341.6 | 341.8 | 341.5 | 341.5 |
| North Pwrh SG2 | 341.5 | 341.7 | 342.2 | 342.6 | 341.7 | 341.6 | 341.0 | 341.0 | 341.1 | 341.1 |
| North Shore SG30 | 341.5 | 341.6 | 341.0 | 341.0 | 341.6 | 341.4 | 341.4 | 341.2 | 340.9 | 341.1 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 340.0 | 340.1 | 340.8 | 341.4 | 340.4 | 340.3 | 339.6 | 339.9 | 339.5 | 339.6 |
| North Pwrh SG1 | 340.0 | 340.0 | 340.7 | 341.5 | 340.5 | 340.3 | 339.6 | 339.8 | 339.9 | 339.7 |
| North Shore SG29 | 340.2 | 340.0 | 339.2 | 339.3 | 340.4 | 340.2 | 339.5 | 339.7 | 339.5 | 339.1 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| Ladder Weirs | 1.3 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.1 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.4 | 1.9 | 1.9 | 1.7 | 1.7 | 1.9 | 2.0 | 1.9 | 2.0 | 1.9 |
| North Powerhouse | 1.5 | 1.7 | 1.5 | 1.1 | 1.2 | 1.3 | 1.4 | 1.2 | 1.2 | 1.4 |
| North Shore | 1.3 | 1.6 | 1.8 | 1.7 | 1.2 | 1.2 | 1.9 | 1.5 | 1.4 | 2.0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 7.7 | 7.8 | 8.5 | 9.1 | 8.1 | 8.0 | 7.3 | 7.6 | 7.2 | 7.3 |
| NFE 2 | 7.7 | 7.7 | 8.4 | 9.2 | 8.2 | 8.0 | 7.3 | 7.5 | 7.6 | 7.4 |
| NSE 1 | 7.9 | 7.7 | 6.9 | 7.0 | 8.1 | 7.9 | 7.2 | 7.4 | 7.2 | 6.8 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | SILL | SILL | YES | YES | YES | YES | SILL | SILL | SILL | SILL |
| NFE 2 | SILL | SILL | YES | YES | YES | YES | SILL | SILL | SILL | SILL |
| NSE 1 | SILL | SILL | SILL | SILL | YES | SILL | SILL | SILL | SILL | SILL |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| NFE 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| NSE 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| NFE 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| NSE 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 16-Aug | 17-Aug | 21-Aug | 22-Aug | 23-Aug | 28-Aug | 29-Aug | 31-Aug | 5-Sep | 6-Sep |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.6 | 2.4 | 2.5 | 2.7 | 2.7 | 3.0 | 2.5 | 3.0 | 2.5 | 2.3 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.5 | 438.4 | 438.7 | 438.5 | 438.8 | 438.7 | 438.8 | 438.5 | 439.5 | 439.3 |
| Exit Pool | 438.5 | 438.3 | 438.6 | 438.4 | 438.8 | 438.7 | 438.8 | 438.5 | 439.5 | 439.1 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.6 | 381.4 | 381.3 | 381.4 | 381.3 | 381.3 | 381.4 | 381.4 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.3 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.5 | 438.4 | 438.7 | 438.5 | 438.8 | 438.5 | 438.9 | 438.5 | 439.3 | 439.3 |
| Exit Pool | 438.4 | 438.4 | 438.5 | 438.4 | 438.6 | 438.5 | 438.7 | 438.3 | 439.2 | 439.2 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 | 434.1 | 434.2 |
| U S Picketed Leads | 434.3 | 434.3 | 434.2 | 434.2 | 434.3 | 434.2 | 434.3 | 434.3 | 434.2 | 434.3 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 341.7 | 341.5 | 341.7 | 341.8 | 341.7 | 341.3 | 341.8 | 341.7 | 341.5 | 341.8 |
| North Pwrh SG2 | 341.4 | 341.1 | 341.0 | 341.3 | 341.3 | 340.9 | 341.3 | 340.8 | 341.0 | 341.2 |
| North Shore SG30 | 341.1 | 340.9 | 340.5 | 340.9 | 340.3 | 340.7 | 340.9 | 340.6 | 342.2 | 342.0 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 339.7 | 339.5 | 339.8 | 339.9 | 339.8 | 339.4 | 339.8 | 339.7 | 339.5 | 339.8 |
| North Pwrh SG1 | 339.9 | 339.6 | 339.6 | 340.0 | 340.0 | 339.5 | 340.0 | 339.7 | 339.6 | 340.0 |
| North Shore SG29 | 339.2 | 339.0 | 338.5 | 339.0 | 338.9 | 338.7 | 339.1 | 337.1 | 340.2 | 340.1 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 333.0 | 332.7 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.2 | 0.1 | 0.2 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.1 | 1.2 |
| Counting Station | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 |
| North Powerhouse | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.4 | 1.3 | 1.1 | 1.4 | 1.2 |
| North Shore | 1.9 | 1.9 | 2.0 | 1.9 | 1.4 | 2.0 | 1.8 | 3.5 | 2.0 | 1.9 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 7.4 | 7.2 | 7.5 | 7.6 | 7.5 | 7.1 | 7.5 | 7.4 | 7.2 | 7.5 |
| NFE 2 | 7.6 | 7.3 | 7.3 | 7.7 | 7.7 | 7.2 | 7.7 | 7.4 | 7.3 | 7.7 |
| NSE 1 | 6.9 | 6.7 | 6.2 | 6.7 | 6.6 | 6.4 | 6.8 | 4.8 | 7.2 | 7.4 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL |
| NFE 2 | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL |
| NSE 1 | SILL | SILL | SILL | SILL | SILL | SILL | SILL | SILL | NO | NO |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NSE 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 7-Sep | 11-Sep | 12-Sep | 13-Sep | 18-Sep | 19-Sep | 20-Sep | 25-Sep | 26-Sep | 27-Sep |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.8 | 2.1 | 2.7 | 1.6 | 2.6 | 1.9 | 1.7 | 2.2 | 3.0 | 2.7 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.2 | 439.7 | 438.7 | 439.6 | 438.6 | 438.5 | 438.8 | 439.7 | 439.5 | 439.0 |
| Exit Pool | 439.2 | 439.6 | 438.6 | 439.6 | 438.6 | 438.5 | 438.8 | 439.6 | 439.4 | 438.9 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.3 | 381.3 | 381.4 | 381.4 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.2 | 439.7 | 438.6 | 439.6 | 438.6 | 438.5 | 438.7 | 439.8 | 439.4 | 439.0 |
| Exit Pool | 439.0 | 439.3 | 438.3 | 439.3 | 438.6 | 438.5 | 437.8 | 439.8 | 439.4 | 439.0 |
| Makeup Diffuser | 434.1 | 434.1 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 | 434.1 | 434.1 | 434.1 |
| U S Picketed Leads | 434.2 | 434.2 | 434.3 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 |
| D S Picketed Leads | 434.1 | 434.1 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 | 434.1 | 434.2 | 434.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 341.9 | 342.3 | 342.7 | 341.8 | 342.7 | 343.1 | 342.9 | 342.0 | 341.9 | 342.1 |
| North Pwrh SG2 | 341.8 | 341.5 | 342.1 | 341.5 | 342.2 | 342.5 | 342.2 | 341.0 | 341.4 | 341.8 |
| North Shore SG30 | 341.5 | 342.5 | 342.5 | 341.5 | 342.8 | 343.1 | 342.8 | 341.8 | 342.0 | 341.6 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 340.1 | 340.5 | 340.9 | 339.8 | 341.1 | 341.5 | 341.1 | 340.0 | 340.0 | 340.2 |
| North Pwrh SG1 | 340.3 | 340.2 | 340.8 | 339.9 | 341.0 | 341.3 | 341.0 | 339.6 | 340.0 | 340.3 |
| North Shore SG29 | 339.8 | 341.0 | 340.9 | 339.8 | 341.3 | 341.6 | 341.3 | 340.0 | 340.1 | 340.2 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 332.3 | 332.3 | 332.5 | 332.3 | 332.3 | 332.4 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.5 | 333.0 | 333.2 | 332.3 | 333.3 | 333.3 | 333.3 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.2 | 0.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.8 | 1.8 | 1.8 | 2.0 | 1.6 | 1.6 | 1.8 | 2.0 | 1.9 | 1.9 |
| North Powerhouse | 1.5 | 1.3 | 1.3 | 1.6 | 1.2 | 1.2 | 1.2 | 1.4 | 1.4 | 1.5 |
| North Shore | 1.7 | 1.5 | 1.6 | 1.7 | 1.5 | 1.5 | 1.5 | 1.8 | 1.9 | 1.4 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 7.8 | 8.2 | 8.6 | 7.5 | 8.8 | 9.2 | 8.8 | 7.7 | 7.7 | 7.9 |
| NFE 2 | 8.0 | 7.9 | 8.3 | 7.6 | 8.7 | 8.9 | 8.7 | 7.3 | 7.7 | 8.0 |
| NSE 1 | 7.3 | 8.0 | 7.7 | 7.5 | 8.0 | 8.3 | 8.0 | 7.7 | 7.8 | 7.9 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | NO | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | SILL | YES | YES | SILL | YES | YES | YES | SILL | SILL | SILL |
| NFE 2 | YES | SILL | YES | SILL | YES | YES | YES | SILL | SILL | YES |
| NSE 1 | NO | YES | NO | SILL | YES | YES | YES | SILL | SILL | SILL |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| NSE 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| NFE 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| NSE 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 2-Oct | 3-Oct | 5-Oct | 10-Oct | 11-Oct | 12-Oct | 16-Oct | 17-Oct | 19-Oct | 23-Oct |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 1.5 | 2.5 | 2.1 | 2.5 | 2.4 | 2.6 | 2.7 | 2.4 | 2.3 | 2.3 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.9 | 438.8 | 438.6 | 439.4 | 439.2 | 438.8 | 439.7 | 438.8 | 439.3 | 439.2 |
| Exit Pool | 438.8 | 438.8 | 438.6 | 439.3 | 439.2 | 438.8 | 439.6 | 438.8 | 439.3 | 439.2 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.4 | 381.4 | 381.3 | 381.3 | 381.3 | 381.3 | 381.3 | 381.4 | 381.4 | 381.4 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.6 | 438.8 | 438.5 | 439.3 | 439.2 | 438.8 | 439.6 | 438.6 | 439.3 | 439.1 |
| Exit Pool | 438.6 | 438.8 | 438.6 | 439.3 | 439.2 | 438.9 | 439.6 | 438.7 | 439.3 | 439.1 |
| Makeup Diffuser | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 |
| U S Picketed Leads | 434.3 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.3 |
| D S Picketed Leads | 434.2 | 434.2 | 434.2 | 434.1 | 434.2 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 342.8 | 342.8 | 343.1 | 341.5 | 342.0 | 341.4 | 341.8 | 341.9 | 341.7 | 342.6 |
| North Pwrh SG2 | 342.3 | 342.4 | 342.6 | 340.9 | 341.4 | 341.1 | 341.5 | 341.3 | 341.3 | 342.0 |
| North Shore SG30 | 342.7 | 343.0 | 343.0 | 341.5 | 341.9 | 341.7 | 341.8 | 341.4 | 341.4 | 342.6 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 341.1 | 341.2 | 341.4 | 339.5 | 340.0 | 339.4 | 339.9 | 340.0 | 339.7 | 340.8 |
| North Pwrh SG1 | 341.0 | 341.1 | 341.4 | 339.4 | 340.0 | 339.5 | 340.0 | 339.7 | 339.8 | 340.7 |
| North Shore SG29 | 341.3 | 341.5 | 341.5 | 339.7 | 340.2 | 339.7 | 340.0 | 339.6 | 339.9 | 341.0 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 332.4 | 332.3 | 332.4 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 333.3 | 333.4 | 333.1 | 332.6 | 333.1 | 332.8 | 332.8 | 332.3 | 332.3 | 333.0 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | 0.0 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 |
| Counting Station | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.7 | 1.6 | 1.7 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 1.8 |
| North Powerhouse | 1.3 | 1.3 | 1.2 | 1.5 | 1.4 | 1.6 | 1.5 | 1.6 | 1.5 | 1.3 |
| North Shore | 1.4 | 1.5 | 1.5 | 1.8 | 1.7 | 2.0 | 1.8 | 1.8 | 1.5 | 1.6 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 8.8 | 8.9 | 9.1 | 7.2 | 7.7 | 7.1 | 7.6 | 7.7 | 7.4 | 8.5 |
| NFE 2 | 8.6 | 8.8 | 9.0 | 7.1 | 7.7 | 7.2 | 7.7 | 7.4 | 7.5 | 8.4 |
| NSE 1 | 8.0 | 8.1 | 8.4 | 7.1 | 7.1 | 6.9 | 7.2 | 7.3 | 7.6 | 8.0 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | SILL | SILL | SILL | SILL | SILL | SILL | YES |
| NFE 2 | YES | YES | YES | SILL | SILL | SILL | SILL | SILL | SILL | YES |
| NSE 1 | YES | YES | YES | NO | NO | NO | NO | SILL | SILL | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NFE 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NSE 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| NFE 2 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| NSE 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 24-Oct | 26-Oct | 30-Oct. | 31-Oct | 2-Nov | 6-Nov | 7-Nov | 8-Nov | 14-Nov | 15-Nov |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.6 | 2.1 | 2.9 | 2.7 | 2.4 | 2.4 | 2.6 | 2.9 | 2.7 | 3.1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.0 | 439.1 | 439.3 | 439.2 | 439.5 | 439.4 | 439.0 | 439.0 | 439.6 | 439.1 |
| Exit Pool | 439.0 | 439.1 | 439.3 | 439.2 | 439.4 | 439.4 | 439.0 | 439.0 | 439.6 | 439.1 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.2 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.3 | 381.3 | 381.3 | 381.4 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.1 | 438.8 | 439.1 | 439.2 | 439.5 | 439.5 | 439.0 | 439.0 | 439.6 | 438.9 |
| Exit Pool | 439.1 | 439.0 | 439.2 | 439.3 | 439.4 | 439.5 | 439.0 | 439.0 | 439.6 | 438.9 |
| Makeup Diffuser | 434.2 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 |
| U S Picketed Leads | 434.3 | 434.3 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 |
| D S Picketed Leads | 434.2 | 434.2 | 434.1 | 434.1 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 341.7 | 343.2 | 342.0 | 342.0 | 341.9 | 342.0 | 341.5 | 341.1 | 342.5 | 341.5 |
| North Pwrh SG2 | 341.2 | 342.7 | 341.5 | 341.5 | 341.4 | 341.3 | 341.0 | 340.7 | 342.0 | 340.8 |
| North Shore SG30 | 341.6 | 342.4 | 341.7 | 341.8 | 341.4 | 341.6 | 341.1 | 341.0 | 342.3 | 340.9 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 339.7 | 341.5 | 340.0 | 340.0 | 339.9 | 340.0 | 339.7 | 339.1 | 340.7 | 339.1 |
| North Pwrh SG1 | 339.8 | 341.5 | 340.0 | 340.1 | 340.0 | 340.0 | 339.6 | 339.3 | 340.7 | 339.2 |
| North Shore SG29 | 339.7 | 341.3 | 340.0 | 340.1 | 340.0 | 340.0 | 339.3 | 339.1 | 340.6 | 338.9 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NFE 2 | 332.3 | 332.4 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.7 | 332.4 | 332.5 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | -0.2 | -0.1 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ladder Weirs | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 |
| Counting Station | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 2.0 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 | 1.8 | 2.0 | 1.8 | 2.4 |
| North Powerhouse | 1.4 | 1.2 | 1.5 | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 | 1.3 | 1.6 |
| North Shore | 1.9 | 1.1 | 1.7 | 1.7 | 1.4 | 1.6 | 1.8 | 1.9 | 1.7 | 2.0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 7.4 | 9.2 | 7.7 | 7.7 | 7.6 | 7.7 | 7.4 | 6.8 | 8.4 | 6.8 |
| NFE 2 | 7.5 | 9.1 | 7.7 | 7.8 | 7.7 | 7.7 | 7.3 | 7.0 | 8.4 | 6.9 |
| NSE 1 | 7.0 | 8.9 | 7.5 | 7.8 | 7.7 | 7.7 | 7.0 | 6.8 | 8.3 | 6.6 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | SILL | YES | SILL | SILL | SILL | SILL | SILL | SILL | YES | SILL |
| NFE 2 | SILL | YES | SILL | SILL | SILL | SILL | SILL | SILL | YES | SILL |
| NSE 1 | NO | YES | NO | SILL | SILL | SILL | SILL | SILL | YES | SILL |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| NFE 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| NSE 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| NFE 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| NSE 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 16-Nov | 20-Nov | 21-Nov | 22-Nov | 27-Nov | 28-Nov | 29-Nov | 4-Dec | 5-Dec | 6-Dec |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.8 | 2.8 | 2.5 | 3.4 | 2.3 | 2.3 | 2.5 | 2.6 | 2.6 | 2.8 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.0 | 439.0 | 439.2 | 439.4 | 438.6 | 438.7 | 438.9 | 439.0 | 439.0 | 439.0 |
| Exit Pool | 439.0 | 439.0 | 439.2 | 439.4 | 438.6 | 438.7 | 438.9 | 438.9 | 439.0 | 438.9 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 438.7 | 439.0 | 439.3 | 439.4 | 438.6 | 438.7 | 438.9 | 438.9 | 438.9 | 438.9 |
| Exit Pool | 438.7 | 439.0 | 439.2 | 439.3 | 438.6 | 438.8 | 439.0 | 438.9 | 439.0 | 438.9 |
| Makeup Diffuser | 434.0 | 434.2 | 434.2 | 434.1 | 434.1 | 434.0 | 434.1 | 434.3 | 434.3 | 434.2 |
| U S Picketed Leads | 434.0 | 434.2 | 434.2 | 434.1 | 434.1 | 434.0 | 434.1 | 434.3 | 434.3 | 434.2 |
| D S Picketed Leads | 434.0 | 434.2 | 434.2 | 434.1 | 434.1 | 434.0 | 434.1 | 434.3 | 434.3 | 434.2 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 342.4 | 341.7 | 341.7 | 341.5 | 342.7 | 342.9 | 343.8 | 342.0 | 343.0 | 342.7 |
| North Pwrh SG2 | 341.5 | 341.1 | 341.3 | 341.0 | 342.1 | 342.4 | 343.1 | 341.3 | 342.5 | 342.0 |
| North Shore SG30 | 341.6 | 341.2 | 341.3 | 341.2 | 342.2 | 342.4 | 343.3 | 341.7 | 341.9 | 342.5 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 340.4 | 339.7 | 339.8 | 339.5 | 341.0 | 341.3 | 342.2 | 340.1 | 341.4 | 341.0 |
| North Pwrh SG1 | 340.2 | 339.7 | 339.9 | 339.5 | 340.9 | 341.3 | 342.0 | 340.0 | 341.5 | 340.8 |
| North Shore SG29 | 340.2 | 339.6 | 339.7 | 339.5 | 341.0 | 341.2 | 341.8 | 340.0 | 340.2 | 341.0 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.4 | 332.3 | 332.5 | 332.3 |
| NFE 2 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.9 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.3 | 332.3 | 332.2 | 332.3 | 332.3 | 332.3 | 332.7 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** | |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | -0.1 | -0.1 | 0.0 | -0.1 | 0.0 |
| Ladder Weirs | 1.0 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.3 | 1.3 | 1.2 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 2.0 | 2.0 | 1.9 | 2.0 | 1.7 | 1.6 | 1.6 | 1.9 | 1.6 | 1.7 |
| North Powerhouse | 1.3 | 1.4 | 1.4 | 1.5 | 1.2 | 1.1 | 1.1 | 1.3 | 1.0 | 1.2 |
| North Shore | 1.4 | 1.6 | 1.6 | 1.7 | 1.2 | 1.2 | 1.5 | 1.7 | 1.7 | 1.5 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 8.1 | 7.4 | 7.5 | 7.2 | 8.7 | 9.0 | 9.8 | 7.8 | 8.9 | 8.7 |
| NFE 2 | 7.9 | 7.4 | 7.6 | 7.2 | 8.6 | 9.0 | 9.1 | 7.7 | 9.2 | 8.5 |
| NSE 1 | 7.9 | 7.3 | 7.5 | 7.2 | 8.7 | 8.9 | 9.1 | 7.7 | 7.9 | 8.7 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | SILL | SILL | SILL | YES | YES | YES | SILL | YES | YES |
| NFE 2 | SILL | SILL | SILL | SILL | YES | YES | YES | SILL | YES | YES |
| NSE 1 | SILL | SILL | SILL | SILL | YES | YES | YES | SILL | SILL | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| NFE 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| NSE 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| NFE 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| NSE 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** | | | |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** | | |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATES:** | 7-Dec | 11-Dec | 12-Dec | 13-Dec | 18-Dec | 19-Dec | 21-Dec | 26-Dec | 27-Dec | 28-Dec |
|  |  |  |  |  |  |  |  |  |  |  |
| **CHANNEL VELOCITIES** |  |  |  |  |  |  |  |  |  |  |
| **IN SOUTH FISHWAY:** | 2.3 | 2.5 | 2.3 | 2.3 | 3.1 | 2.3 | 2.7 | 2.2 | 3.2 | 2.6 |
|  |  |  |  |  |  |  |  |  |  |  |
| **ELEVATIONS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.3 | 438.8 | 438.9 | 438.6 | 438.4 | 439.0 | 438.7 | 438.4 | 439.5 | 438.8 |
| Exit Pool | 439.3 | 438.7 | 438.9 | 438.6 | 438.4 | 439.0 | 438.7 | 438.3 | 439.4 | 438.7 |
| Makeup Diffuser | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 | 434.3 |
| U S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| D S Picketed Leads | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 | 381.2 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Forebay | 439.4 | 438.7 | 438.9 | 438.6 | 438.2 | 438.9 | 438.6 | 438.3 | 439.5 | 438.7 |
| Exit Pool | 439.4 | 438.7 | 438.9 | 438.7 | 438.2 | 439.0 | 438.7 | 438.4 | 439.5 | 438.8 |
| Makeup Diffuser | 434.2 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.2 | 434.1 |
| U S Picketed Leads | 434.2 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.2 | 434.1 |
| D S Picketed Leads | 434.2 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.1 | 434.2 | 434.2 | 434.1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG4 | 343.0 | 342.5 | 343.4 | 342.8 | 341.3 | 342.6 | 343.2 | 342.4 | 341.8 | 343.0 |
| North Pwrh SG2 | 342.5 | 342.1 | 342.7 | 342.1 | 340.7 | 342.0 | 342.6 | 341.8 | 341.4 | 342.4 |
| North Shore SG30 | 342.5 | 342.1 | 342.5 | 342.3 | 341.0 | 342.1 | 342.6 | 342.0 | 341.9 | 342.5 |
| **Tailwater** |  |  |  |  |  |  |  |  |  |  |
| South Pwrh SG3 | 341.3 | 340.8 | 341.6 | 341.1 | 339.0 | 340.8 | 341.5 | 340.7 | 340.1 | 341.4 |
| North Pwrh SG1 | 341.3 | 340.8 | 341.6 | 341.0 | 339.0 | 340.7 | 341.5 | 340.7 | 340.2 | 341.3 |
| North Shore SG29 | 341.2 | 340.8 | 341.4 | 340.8 | 339.1 | 340.8 | 341.4 | 340.8 | 340.3 | 341.3 |
| **Entrance Weirs** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 332.4 | 332.3 | 332.7 | 332.3 | 332.3 | 332.3 | 333.3 | 332.5 | 332.3 | 332.8 |
| NFE 2 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| NSE 1 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 | 332.3 |
| **DIFFERENTIALS/DEPTHS:** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Ladder Weirs | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | -0.1 | -0.1 | 0.0 | -0.1 |
| Ladder Weirs | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | 1.2 | 1.1 | 1.2 | 1.2 | 1.1 |
| Counting Station | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1.7 | 1.7 | 1.8 | 1.7 | 2.3 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 |
| North Powerhouse | 1.2 | 1.3 | 1.1 | 1.1 | 1.7 | 1.3 | 1.1 | 1.1 | 1.2 | 1.1 |
| North Shore | 1.3 | 1.3 | 1.1 | 1.5 | 1.9 | 1.3 | 1.2 | 1.2 | 1.6 | 1.2 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 8.9 | 8.5 | 8.9 | 8.8 | 6.7 | 8.5 | 8.2 | 8.2 | 7.8 | 8.6 |
| NFE 2 | 9.0 | 8.5 | 9.3 | 8.7 | 6.7 | 8.4 | 9.2 | 8.4 | 7.9 | 9.0 |
| NSE 1 | 8.9 | 8.5 | 9.1 | 8.5 | 6.8 | 8.5 | 9.1 | 8.5 | 8.0 | 9.0 |
| **CRITERIA POINTS:** |  |  |  |  |  |  |  |  |  |  |
| **Channel Velocities** | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Ladder Weirs | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Counting Station | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES |
| North Powerhouse | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| North Shore | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | YES | YES | YES | YES | SILL | YES | YES | YES | SILL | YES |
| NFE 2 | YES | YES | YES | YES | SILL | YES | YES | YES | SILL | YES |
| NSE 1 | YES | YES | YES | YES | SILL | YES | YES | YES | YES | YES |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: YES** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ladder Weirs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Counting Station | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| North Powerhouse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Shore | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| NFE 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| NSE 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: NO** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Channel Velocities** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Differentials** |  |  |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Collection Channels** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **CRITERIA POINTS: SILL** | **(Output = 0, 1, or NA)** | | |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| NFE 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| NSE 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (more than 0.2 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.11 - 0.2 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **South Ladder Differentials (0.01 - 0.1 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (0.11 - 0.2 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Ladder Differentials (more than 0.2 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.11 - 0.2 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too low)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | Not applicable. | |  |  |  |  |  |  |  |  |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | Not applicable. | |  |  |  |  |  |  |  |  |
| **North Ladder Differentials (0.01 - 0.1 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (0.11 - 0.2 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Ladder Differentials (more than 0.2 too high)** |  |  |  |  |  |  |  |  |  |  |
| Ladder Exit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ladder Weirs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Counting Station | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Channel/Tailwater Differentials (<0.80)** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.80 - 0.89)** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (0.90 - 0.99):** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.01 - 2.10)** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (2.11 - 2.20)** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Channel/Tailwater Differentials (>2.20)** |  |  |  |  |  |  |  |  |  |  |
| South Shore | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| North Powerhouse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Shore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (more than 0.2 too low)** |  |  |  |  |  |  |  |  |  |  |
| SFE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(<7.80)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.11 - 0.2 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.80 - 7.89)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Entrance Weir Depths (0.01 - 0.1 too low)** | | |  |  |  |  |  |  |  |  |
| SFE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFE 2 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NSE 1 **(7.90 - 7.99)** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ICE HARBOR** |  |  |  | **----------Not Enough Depth----------** |  |  | **----------Too Much Depth----------** |  |
| **Criteria and** | **No. in** | **% In** | **No./%** | **No./%** | **No./%** | **No./%** | **No./%** | **No./%** |
| **Locations** | **Criteria/** | **Criteria/** | **Within** | **Within** | **>0.2** | **Within** | **Within** | **>0.2** |
|  | **No. on Sill/** | **% On** | **0.01-0.1** | **0.11-0.2** | **Foot** | **0.01-0.1** | **0.11-0.2** | **Foot** |
|  | **No. of** | **Sill** | **Foot** | **Foot** |  | **Foot** | **Foot** |  |
|  | **Inspections** |  |  |  |  |  |  |  |
| **Channel Velocities** | 115 | 88.5 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
|  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
|  | 130 |  |  |  |  |  |  |  |
| **Differentials** |  |  |  |  |  |  |  |  |
| **South Fish Ladder** |  |  |  |  |  |  |  |  |
| Ladder Exit | 130 | 100.0 | \*\*\* | \*\*\* | \*\*\* | 0 | 0 | 0 |
|  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| Ladder Weirs | 130 | 100.0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| Counting Station | 130 | 100.0 | \*\*\* | \*\*\* | \*\*\* | 0 | 0 | 0 |
|  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| **North Fish Ladder** |  |  |  |  |  |  |  |  |
| Ladder Exit | 129 | 99.2 | \*\*\* | \*\*\* | \*\*\* | 0 | 0 | 1 |
|  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.8 |
|  | 130 |  |  |  |  |  |  |  |
| Ladder Weirs | 130 | 100.0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| Counting Station |  | 0.0 | \*\*\* | \*\*\* | \*\*\* | 0 | 0 | 0 |
|  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| **Collection Channels** |  |  |  |  |  |  |  |  |
| South Shore | 127 | 97.7 | 0 | 0 | 0 | 0 | 1 | 2 |
|  | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 |
|  | 130 |  |  |  |  |  |  |  |
| North Powerhouse | 129 | 99.2 | 0 | 0 | 0 | 1 | 0 | 0 |
|  | \*\*\* | \*\*\* | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
|  | 130 |  |  |  |  |  |  |  |
| North Shore | 122 | 93.8 | 0 | 0 | 3 | 0 | 0 | 5 |
|  | \*\*\* | \*\*\* | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 3.8 |
|  | 130 |  |  |  |  |  |  |  |
| **Weir Depths** |  |  |  |  |  |  |  |  |
| SFE 1 | 75 | 57.7 | 0 | 0 | 0 | \*\*\* | \*\*\* | \*\*\* |
|  | 43 | 33.1 | 0.0 | 0.0 | 0.0 | \*\*\* | \*\*\* | \*\*\* |
|  | 130 |  |  |  |  |  |  |  |
| NFE 2 | 87 | 66.9 | 0 | 1 | 0 | \*\*\* | \*\*\* | \*\*\* |
|  | 42 | 32.3 | 0.0 | 0.8 | 0.0 | \*\*\* | \*\*\* | \*\*\* |
|  | 130 |  |  |  |  |  |  |  |
| NSE 1 | 69 | 53.1 | 12 | 0 | 19 | \*\*\* | \*\*\* | \*\*\* |
|  | 42 | 32.3 | 9.2 | 0.0 | 14.6 | \*\*\* | \*\*\* | \*\*\* |
|  | 130 |  |  |  |  |  |  |  |