SEMI-ANNUAL REPORT
JANUARY 1 - JUNE 30 2006

**Project Title:** Atlantic Salmon Monitoring in Washington State

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**Funding:** Pacific States Marine Fisheries Commission and National Oceanic and Atmospheric Administration

INTRODUCTION

In 1999, the Pacific States Marine Fisheries Commission (PSMFC) established a program with the mission to prevent the negative impacts associated with aquatic nuisance species (ANS). This program includes ANS education and outreach, monitoring programs, research and inter-jurisdictional planning, coordination and grant administration. Funding for the program comes from Wallop Breaux (Sportfish Aid in Restoration), Bonneville Power Administration, NOAA Fisheries, and the U. S. Fish and Wildlife Services. The Program’s primary focus is on two ANS Vectors; recreational watercraft and ballast water. In addition to educating recreational boaters and fishermen, the program includes outreach to marinas and other water dependent industries. Species addressed by the program include mitten crab, zebra mussel, green crab, and Atlantic salmon. Other species of concern include the New Zealand mudsnail, sea squirts, Asian carp, and Spartina (cordgrass). To accomplish their goals, PSMFC cooperates and contracts with numerous entities, including the Washington Department of Fish and Wildlife.

In 2003, with NOAA funding, the Pacific States Marine Fisheries Commission began funding WDFW to undertake snorkel surveys for Atlantic salmon juveniles and adults. The program was expanded to include foot and float boat surveys during the winter months. In the initial year 35 rivers and creeks were surveyed, and several hundred juvenile Atlantic salmon were discovered in Scatter Creek below a commercial hatchery outfall. Initial scale and otolith studies of the 109 captured indicated the fish were probably hatchery escapees.

Subsequent contracts and amendments have extended the surveys through December 31, 2006. As of July 11, 2006 the database indicated a grand total of four hundred ninety-two surveys have been completed in one hundred and forty-four streams and rivers. A recent review of the database that eliminated duplicate information and blank entries corrected the number of streams and rivers surveyed as of that date to one hundred thirty-five. The new 2006 contract extends the surveys through December 31, 2007, using a reduced staff.

METHODS

The majority of the snorkel surveys were conducted in the summer, and some of the fall and winters months. On rare occasions backpack electrofishing was used as an alternative to snorkeling for a sampling method. Streams that could not be surveyed by snorkel teams due to
water conditions were surveyed on foot, float boat, foot/hook and line, or float boat/hook and line. Foot, hook and line, and via float boat surveys for returning adults were conducted on streams and rivers during spawning seasons, and when water conditions were not suitable for snorkeling. Surveys under this contract focused primarily on rivers and streams near net pen and hatchery facilities, although efforts were made to survey streams that had not been surveyed under the previous contract.

The survey crew enters survey data into an Access database weekly, and all species observed are listed and identified as adult or juvenile. Length, weight, stomach contents, scale, and otolith samples are taken from any Atlantics captured, and analysis results are entered into the database. Two juvenile Atlantic salmon have been captured during this contract period.

RESULTS

FOOT & FLOAT SURVEYS

Between December 23, 2005 and July 11, 2006 twenty-six surveys were conducted on foot, foot/hook and line, via float boat, or via float boat/hook and line due to poor visibility or flood conditions. No Atlantic salmon or Atlantic salmon carcasses have been observed to date on these surveys. This brings the total number of foot or float surveys conducted to one hundred fifty-five. Between December 23, 2005 and January 16, 2006 no sampling was done due to weather conditions extremely high, turbid, and fast water flows in the rivers and streams. At these times conditions have been such that no type of sampling method is safe.

SNORKEL SURVEYS & RESULTS

Between December 23, 2005 and July 11, 2006 thirty-two snorkel and one backpack electrofishing survey were conducted in eighteen rivers and streams. During this time period eleven juvenile (fry to parr) Atlantic salmon were observed and two captured (75 mm and 40 mm) from Scatter Creek, where the majority of Atlantic salmon had been found in past years.

To date, surveys have been conducted in the streams and rivers listed below. Those with an asterisk (*) have been surveyed more than once and those with a pound (#) have had foot, backpack electrofishing, hook and line, or float boat surveys conducted. Those in bold were surveyed between December 23, 2005 and July 11, 2006.

Table 1 List of all Rivers and Streams that have been surveyed as of July 11, 2006

<table>
<thead>
<tr>
<th>Abernathy Creek</th>
<th>Greenwater River #</th>
<th>Rock Creek (King) * #</th>
</tr>
</thead>
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<tr>
<td>Beaver Creek</td>
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<td>Hamma Hamma River</td>
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<td>Bogachiel River * #</td>
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<td>Boulder Creek</td>
<td>Hoko River * #</td>
<td>Samish River</td>
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<td>Buck Creek</td>
<td>Hood Canal #</td>
<td>Saratoga Passage * #</td>
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<td>Burley Creek</td>
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<tr>
<td>Canyon Creek</td>
<td>Issaquah Creek #</td>
<td>Satsop River (Middle fork) *</td>
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<tr>
<td>Canyon River</td>
<td>Jackman Creek</td>
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<tr>
<td>Carbon River</td>
<td>Johns River *</td>
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<td>Cascade River *</td>
<td>Kalama River * #</td>
<td>Scatter Creek * #</td>
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<td>Kapowsin Creek</td>
<td>Seiku River * #</td>
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<td>Skagit River *</td>
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<td>Lewis River * #</td>
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<td>Lewis River (East Fork) *</td>
<td>Skookumchuck River * #</td>
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<td>Skykomish River * #</td>
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<td>Lincoln Creek #</td>
<td>Snoqualmie River * #</td>
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<td>Clark Creek #</td>
<td>Lummi River</td>
<td>Solduc River * #</td>
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<td>South Prairie Creek * #</td>
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<td>Nemah River (North Fork)</td>
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<td>Thompson Creek #</td>
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<td>Newaukum River * #</td>
<td>Tilton River * #</td>
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<td>Nisqually River * #</td>
<td>Tokul Creek * #</td>
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<td>Dewatto River *</td>
<td>Ohop Creek</td>
<td>Toutle River * #</td>
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<td>Olequa Creek</td>
<td>Union River * #</td>
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<td>Unnamed Creek #</td>
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<td>Goble Creek * #</td>
<td>Racehorse Creek</td>
<td>Woods Creek #</td>
</tr>
<tr>
<td>Green River * #</td>
<td>Rock Creek (Thurston)</td>
<td>Wynoochee River * #</td>
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</table>
REPORTED ATLANTIC SALMON CATCHES

The Washington Department of Fish and Wildlife tracks commercial and recreational fisheries through the use of “Catch Cards” that are distributed with licenses and stamps for various fisheries. The data includes all fish that are taken, including aquaculture production and imported fish as well as those caught by commercial fishermen. It is the obligation of the licensee to turn in their catch cards at the end of the season. Commercial catches have been recorded in several Puget Sound Rivers near net-pen facilities or the processing plant located near the mouth of the Duwamish. Of the thirteen commercial catch cards that were shown to this project last year, ten were caught in Elliott Bay and the Duwamish River, near the processing plant on Harbor Island. Analysis of scales included on catch cards indicated that all of the fish were hatchery grown.

Recreational catch-cards no longer specifically list Atlantic salmon, leaving it up to the individual to write them in if they recognize the species. In addition to Atlantics listed, “Unknown” salmon have been recorded in several rivers that we consider to be primary due to their proximity to net pens or hatcheries, including; Chehalis, Skookumchuck, Wynoochee,
Humptulips, Willapa, Green-Duwamish, Puyallup, Skagit, and Snohomish rivers. They are not included in the chart below. Snorkel and spawning surveys have been conducted in these rivers and have never found Atlantic salmon or carcasses.

Table 2. Catch Card Records for Atlantic Salmon from 1999 through early 2005
* "Take home" is presumed to be recreational fishery reports.

<table>
<thead>
<tr>
<th>Batch/Year</th>
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<th>Fish</th>
<th>Pounds</th>
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<td>12152118</td>
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<td>COMMERCIAL</td>
<td>4</td>
<td>27</td>
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<td>IMPORT</td>
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<td>7</td>
<td>63</td>
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<td>1999</td>
<td>TEST FISHING</td>
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<td>33</td>
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<td>60715</td>
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<td>16696840</td>
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<td>COMMERCIAL</td>
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<td>222553</td>
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<td>TAKE HOME</td>
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<td>13</td>
</tr>
<tr>
<td>2001</td>
<td>TEST FISHING</td>
<td>1</td>
<td>9</td>
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<tr>
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<td>18</td>
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<td>22723739</td>
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<td>IMPORT</td>
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<td>AQUACULTURE</td>
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<td>IMPORT</td>
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<td>2004</td>
<td>TAKE HOME</td>
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<td>2005</td>
<td>IMPORT</td>
<td>N/A</td>
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</table>

REPORTED ESCAPES

There have been no reported escapes since February 10, 2005, when it was reported that approximately 2500 juvenile Atlantic salmon escaped from the Hope Island net pens. One of the survey teams visited the area on February 15, 2005. They were unable to efficiently survey the
area because the net pen was 200 yards offshore and the surrounding area was all private property.

ANALYSIS

We have re-surveyed Scatter Creek numerous times this season. We did not observe or capture an Atlantic out of Scatter Creek between August 17, 2004 and May 22, 2006. Most likely, the hatchery drained their retention ponds (the source of escapees) or installed the proper gates on the outflow channel that stopped outmigration. On May 23, 2006 we started to observed juvenile Atlantic salmon again in Scatter Creek. The creek has been surveyed seven times between May 23, 2006 and July 6, 2006 resulting in observing eleven and capturing two (75mm and 40 mm) juvenile Atlantic salmon.
### APPENDIX - STREAMS SURVEYED BETWEEN JANUARY 1, 2006 AND JULY 11, 2006

<table>
<thead>
<tr>
<th>Stream Name</th>
<th>County</th>
<th>Date</th>
<th>Sampling method</th>
<th>Start Lat</th>
<th>Start Long</th>
<th>End Lat</th>
<th>End Long</th>
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<tbody>
<tr>
<td>Abernathy Creek</td>
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<td>2/23/2006</td>
<td>Snorkel</td>
<td>123.09.816</td>
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<td>Cedar River</td>
<td>King</td>
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<td>Snorkel</td>
<td>122.02.320</td>
<td>47.24.279</td>
<td>122.03.803</td>
<td>47.26.380</td>
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<tr>
<td>Chehalis River</td>
<td>Lewis</td>
<td>2/10/2006</td>
<td>Float</td>
<td>123.18.200</td>
<td>46.34.169</td>
<td>123.16.369</td>
<td>46.37.872</td>
</tr>
<tr>
<td>Chehalis River</td>
<td>Lewis</td>
<td>2/16/2006</td>
<td>Float</td>
<td>122.39.065</td>
<td>46.43.174</td>
<td>123.07.057</td>
<td>46.48.444</td>
</tr>
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<td>Chehalis River</td>
<td>Lewis</td>
<td>3/1/2006</td>
<td>Float</td>
<td>123.18.200</td>
<td>46.34.169</td>
<td>123.16.369</td>
<td>46.37.872</td>
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<td>Chehalis River</td>
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<td>Float hook/line</td>
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<td>46.37.872</td>
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<td>Float</td>
<td>Mouth of Blue Cr</td>
<td>Teledo Bridge</td>
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<td>Mason</td>
<td>5/3/2006</td>
<td>Snorkel</td>
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