

## EVOS ANNUAL PROJECT REPORT

**Project Number: 040712**

**Project Title: Research for nutrient-based resource management in watersheds and estuaries**

**PI Name: Dr. Thomas L. Kline, Jr., PWSSC, P.O. Box 705, Cordova, AK 99574, 907-424-5800, tkline@pwssc.gen.ak.us**

**Time Period Covered by Report: 23 August 2004**

Work Performed:

1. Summary of work to date:

### PERIPHYTON STATION DEPLOYMENT

- Mid-May: funding commenced – Wildco Periphyton Collectors (WPCs) ordered. Wildco partial order received mid-June.
- 21 June: Established the following Eyak system monitoring stations and deployed WPCs at each including: Stream Gauge, Spawning Channel, Creek Delta, Nirvana Park, and Mavis Island.
- 22 June: Deployed WPCs at Delta stations (Upper, middle and lower inter-tidal at two locations- 6 stations) being sampled in the existing CRD project from helicopter
- 26 July: Established station in upper reach of Power Creek ~ 100m upstream of the Power station, checked WPC's at stations set up on 22 June; three damaged WPC's recovered from Eyak Lake (one from Nirvana, two from Mavis); observed sockeye salmon in spawning channel; approximately 2 dozen were dead apparently by bears.
- 2 August: Balance of WPC order arrived. 3 August: Established the following McKinley system stations and deployed WPCs at them: Mile 23 Salmon Creek, Lucky Strike (control site), McKinley Lake Cabin adjacent to sockeye spawning site (spawners observed), Skunk Cabbage (near deepest point in McKinnley Lake, Alaganik River - Campsite, Alaganik Slough; noted sulfide smell from Salmon Creek – indication of reduced sulfur and potential source of isotopically depleted sulfur; noted stained water in heavily vegetated embayment and potential source of isotopically depleted carbon – plan on establishing a WPC there.
- FISH SAMPLING- Fish sampling has been in collaboration with other projects as described in the proposal

2. **Future Work:** Summarize work to be performed during the upcoming year, if changed from the original proposal. Describe any proposed changes in objectives, procedural or statistical methods, study area, or schedule. No changes at this time.
3. **Coordination/Collaboration:** Describe efforts undertaken during the reporting period to achieve the coordination and collaboration provisions of the proposal, if applicable. All samples collected thus far have been the result of the collaboration described in the proposal. These samples are listed in Table 1.
4. **Community Involvement/TEK & Resource Management Applications:** Describe efforts undertaken during the reporting period to achieve the community involvement/TEK and resource management application provisions of the proposal, if applicable. NA.
5. **Information Transfer:** No data or results to transfer at this time.
6. **Budget:** No changes in budget at this time.

**Report Prepared By:**            Dr. C. A. Woody and Dr. T. Kline Jr.  
**Project Web Site Address:**    \_\_\_\_\_

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Table 1. Summary of sample collection to date for nutrient –based resource management project, Cordova, Alaska, 2003-2004.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid-eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b>European age</b>
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye01</b>	3330	549	M	64	1.2+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye02</b>	2770	530	M	99	0.1+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye03</b>	3370	555	M	92	1.1+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye04</b>	2280	500	M	66	1.2+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye05</b>	2320	505	M	49	1.2+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye06</b>	2120	497	M	52	1.1+
7/18/2003	ADFG	Eyak Lake-Water Plant	Sockeye	<b>03Sockeye07</b>	3420	580	F	550	1.3
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye08</b>	1600	456	M	50	1.1+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye09</b>	1550	427	M	65	1.1+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye10</b>	1675	437	M	84	1.1+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye11</b>	1900	512	F	220	1.3
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye12</b>	3575	583	M	115	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye13</b>	2450	548	F	510	1.3
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye14</b>	2900	524	F	470	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye15</b>	3175	545	M	78	E.3
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye16</b>	1550	425	M	80	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye17</b>	1625	452	M	89	E.3
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye18</b>	1400	420	M	60	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye19</b>	2225	483	M	75	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye20</b>	1450	446	M	660	1.2+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye21</b>	1750	450	M	82	1.1+
8/8/2003	ADFG	Outflow of Salmon Creek into McKinley Lake	Sockeye	<b>03Sockeye22</b>	2850	562	M	100	E.3
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye23</b>	3820	573	M	112	1.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye24</b>	4020	581	M	74	E.4

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Table 1. Continued.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid- eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b><u>European age</u></b>
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye25</b>	3020	532	M	79	E.3
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye26</b>	3770	557	M	64	1.1+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye27</b>	3770	593	M	104	2.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye28</b>	1920	427	M	106	1.1+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye29</b>	3170	542	M	92	1.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye30</b>	1970	498	F	282	1.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye31</b>	2420	517	F	405	1.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye32</b>	2170	471	M	46	1.1+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye33</b>	1370	420	M	54	E.2
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye34</b>	2670	526	F	350	1.2+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye35</b>	2470	526	F	300	E.3
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye36</b>	1245	415	M	92	1.1+
8/15/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye37</b>	1120	397	M	51	1.1+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye38</b>	1820	464	F	300	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye39</b>	1345	417	M	76	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye40</b>	1795	450	M	99	1.1+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye41</b>	1820	464	M	104	1.1+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye42</b>	1295	421	M	72	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye43</b>	1620	451	M	77	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye44</b>	1470	436	M	74	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye45</b>	1500	434	M	84	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye46</b>	1720	474	F	275	E.3
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye47</b>	1880	480	F	235	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye48</b>	1545	434	M	104	E.4
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye49</b>	1700	456	M	132	1.1+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye50</b>	1510	459	F	208	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye51</b>	1820	481	F	255	1.2+
8/22/2003	ADFG	Power Creek	Sockeye	<b>03Sockeye52</b>	1320	432	M	64	1.2+

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Table 1. Continued.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid-eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b>European age</b>
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye53</b>	3445	530	M	65.95	0.1+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye54</b>	2640	550	F	495	1.2+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye55</b>	2945	542	F	690	1.2+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye56</b>	4420	610	M	114	1.3
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye57</b>	2845	558	F	440	1.2+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye58</b>	3770	582	M	64	2.1+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye59</b>	3720	570	M	99	1.1+
9/4/2003	ADFG	Eyak Lake-Middle Arm	Sockeye	<b>03Sockeye60</b>	2745	545	F	630	1.2+
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho01</b>	3520	587	M	194	1.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho02</b>	4570	651	M	214	2.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho03</b>	4170	664	F	900	2.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho04</b>	1245	445	M	94	1.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho05</b>	1640	487	M	130	1.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho06</b>	1770	487	M	95	2.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho07</b>	5010	674	F	825	2.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho08</b>	2095	521	M	168	1.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho09</b>	1980	507	M	138	1.1
9/16/2003	Gordie Reeves	Salmon Creek	Coho	<b>03Coho10</b>	2330	542	F	480	2.1
9/22/2003	Powers	Hartney Bay	Coho	<b>03Coho11</b>	3720	687	F	980	1.1
9/22/2003	Powers	Hartney Bay	Coho	<b>03Coho12</b>	1920	591	F	470	E.3
9/23/2003	Powers/Cox	Ibeck Creek	Coho	<b>03Coho13</b>	2870	572	F	500	1.1
9/23/2003	Powers/Cox	Ibeck Creek	Coho	<b>03Coho14</b>	3570	608	F	680	1.1
9/23/2003	Powers/Cox	Ibeck Creek	Coho	<b>03Coho15</b>	2620	573	F	425	1.1
9/23/2003	Powers/Cox	Ibeck Creek	Coho	<b>03Coho16</b>	3120	603	F	380	1.1
9/24/2003	Powers/Grabo	Ibeck Creek	Coho	<b>03Coho17</b>	3320	629	F	632	2.1
9/24/2003	Powers/Grabo	Ibeck Creek	Coho	<b>03Coho18</b>	4820	665	M	280	2.1
9/26/2003	Powers/Ba	Ibeck Creek	Coho	<b>03Coho19</b>	3820	631	M	270	1.1
9/26/2003	Powers/Ba	Ibeck Creek	Coho	<b>03Coho20</b>	3320	610	M	235	1.1

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Table 1. Continued.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid- eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b><u>European age</u></b>
9/26/2003	Powers/Ba	Ibeck Creek	Coho	<b>03Coho21</b>	3970	628	F	400	1.1
9/26/2003	Powers/Ba	Ibeck Creek	Coho	<b>03Coho22</b>	2670	563	F	190	1.1
9/26/2003	Powers/Grabo	Ibeck Creek	Coho	<b>03Coho23</b>	5320	677	F	980	1.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho24</b>	4570	662	M	320	2.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho25</b>	2570	567	M	130	1.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho26</b>	5851	696	M	300	2.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho27</b>	2970	616	F	510	1.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho28</b>	3320	637	F	630	1.1
9/28/2003	Powers/Grabo	Elsner Creek	Coho	<b>03Coho29</b>	2270	558	M	120	2.1
9/29/2003	Powers/Grabo	Goose Meadow	Coho	<b>03Coho30</b>	3420	619	F	670	1.1
9/29/2003	Powers/Grabo	Goose Meadow	Coho	<b>03Coho31</b>	4.35	67	/	/	1.0
9/24/2003	Powers	Alaganik	Coho	<b>03Coho32</b>	3.89	66	/	/	1.0
9/24/2003	Powers	Alaganik	Coho	<b>03Coho33</b>	2.53	60	/	/	1.0
10/1/2003	Powers/Grabo	Flemming Spit	Coho	<b>03Coho34</b>	2970	534	F	460	1.1
10/1/2003	Powers/Grabo	Flemming Spit	Coho	<b>03Coho35</b>	3570	607	F	500	1.1
10/1/2003	Powers/Grabo	Flemming Spit	Coho	<b>03Coho36</b>	4420	630	M	190	1.1
10/2/2003	Powers/Grabo	Power Creek	Coho	<b>03Coho37</b>	1300	512	M	360	1.2
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho38</b>	4670	641	F	1000	E.3
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho39</b>	3920	607	F	900	2.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho40</b>	4195	616	F	900	2.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho41</b>	2320	530	M	120	1.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho42</b>	2350	530	F	360	E.3
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho43</b>	2720	622	M	N/A	2.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho44</b>	6667	683	M	380	1.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho45</b>	6486	679	M	230	1.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho46</b>	3420	584	F	900	1.1
#####	Lang/Senear	Middle Arm	Coho	<b>03Coho47</b>	5443	638	F	1125	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho48</b>	3795	638	F	900	2.1

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Table 1. Continued.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid-eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b>European age</b>
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho49</b>	3145	616	M	170	E.3
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho50</b>	3920	635	F	850	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho51</b>	2145	575	M	30	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho52</b>	2795	556	F	560	1.1
10/8/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho53</b>	2820	578	M	95	E.3
10/8/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho54</b>	2295	533	M	160	E.3
10/8/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho55</b>	2620	556	M	135	1.1
10/8/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho56</b>	2470	552	M	140	1.1
10/8/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho57</b>	4470	638	F	680	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho58</b>	4717	673	F	914	E.3
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho59</b>	2585	565	F	520	2.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho60</b>	4340	635	M	275	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho61</b>	4765	654	F	915	1.1
10/7/2003	Lang/Reeves	18 Mile Creek	Coho	<b>03Coho62</b>	2180	499	M	180	1.1
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho63</b>	3080	578	F	680	1.1
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho64</b>	3445	603	M	170	1.1
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho65</b>	2925	575	F	450	E.3
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho66</b>	4830	657	F	885	E.3
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho67</b>	4860	692	F	1040	2.1
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho68</b>	3220	603	F	650	1.1
10/6/2003	Lang/Reeves	Goose Meadow	Coho	<b>03Coho69</b>	3390	597	F	765	1.1
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye001</b>	1855	460	m	75	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye002</b>	1610	440	m	70	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye003</b>	2795	532	f	460	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye004</b>	2100	495	m	70	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye005</b>	1410	430	m	75	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye006</b>	2250	496	m	75	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye007</b>	3215	576	f	430	

Table 1. Continued.

<b>date collected</b>	<b>collector</b>	<b>location</b>	<b>species</b>	<b>ID#</b>	<b>wt (g)</b>	<b>mid- eye to fork (mm)</b>	<b>Sex</b>	<b>Weight Gonads (g)</b>	<b><u>European age</u></b>
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye008</b>	1585	451	m	100	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye009</b>	2525	536	f	310	
6/29/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye010</b>	1665	441	m	105	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye011</b>	1380	429	m	40	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye012</b>	1912	445	m	125	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye013</b>	1852	481	m	86	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye014</b>	2312	524	m	90	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye015</b>	2168	469	m	158	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye016</b>	4016	581	m	136	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye017</b>	3402	550	m	84	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye018</b>	3050	539	f	470	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye019</b>	2582	524	f	432	
7/2/2004	ADF&G	Eyak Lake-S.beach	Sockeye	<b>04sockeye020</b>	1382	445	m	44	
6/18/2004	PWSSC	Eyak	coho						