

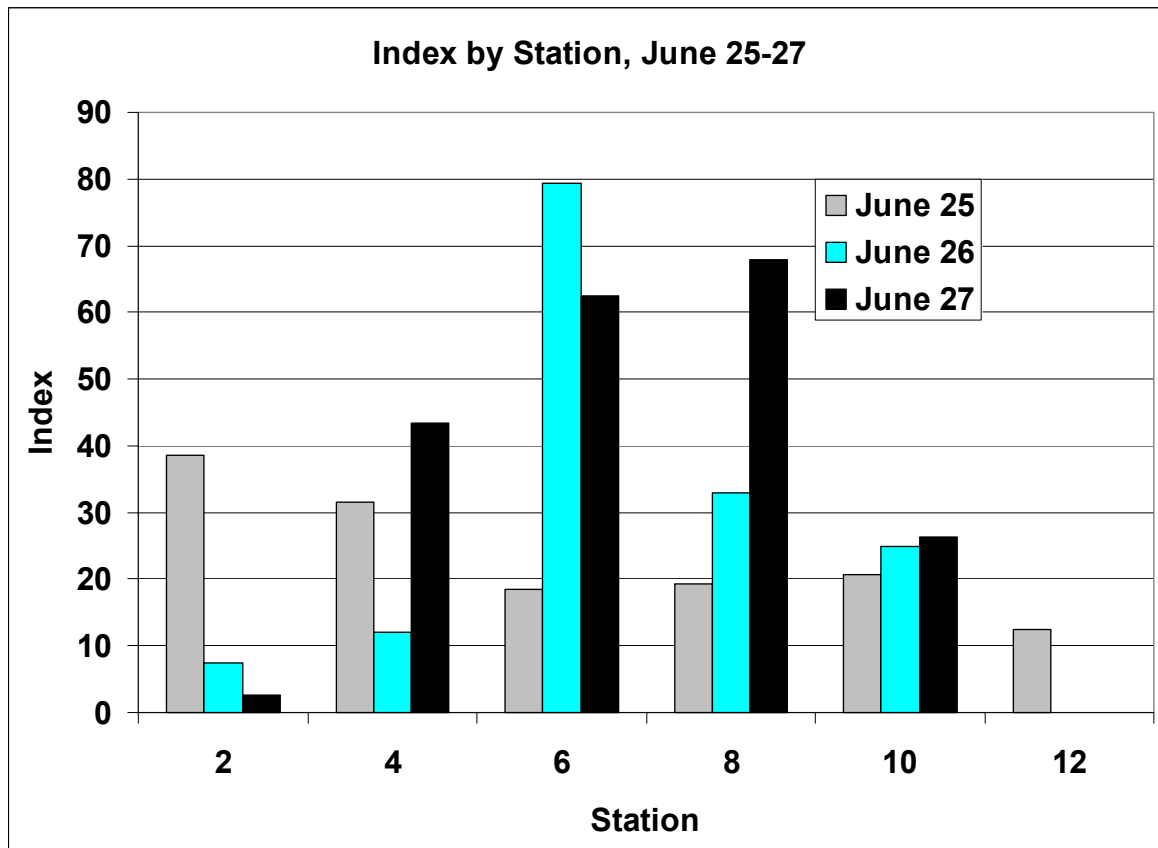
## Port Moller Test Fishery, Update #15, June 27, 2005.

### Daily Summary, Port Moller sockeye test fishery, 2005.

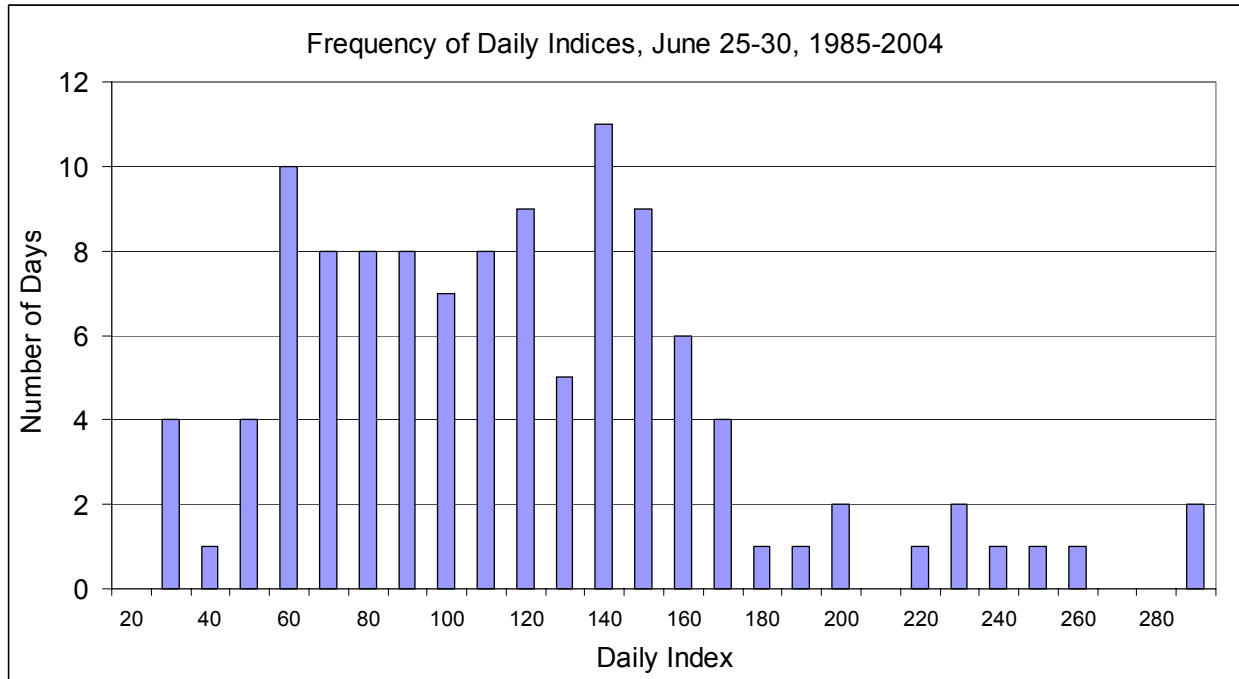
Date	Sockeye Catch by Station						Avg fish length (mm) <sup>a</sup>	Avg. Temp (°C)	Traditional Index <sup>b</sup>		Comments
	2	4	6	8	10	12			Daily	Cum.	
9-Jun	1	1	0	2	0	-	580				
10 Jun <sup>d</sup>	-	-	5	5	9	-	580	9.4	6		Stn 8&10 fished twice (stn avgs shown)
11-Jun	6	-	-	-	-	-	568	8.0	13	13	Cum. starts; short day - training on 10th
12-Jun	-	-	-	-	-	-		8.0	13	27	No fishing; strong westerly wind
13-Jun	2	0	0	5	10	-	566	9.8	5	32	Calm to light NW winds
14-Jun	-	1	9	41	-	-	552	9.0	42	73	Variable winds. Troubles at stn 10.
15-Jun	4	10	13	31	13	1	559	10.5	39	112	Clear, light SE wind on transect
16 Jun <sup>e</sup>	-	-	-	-	-	43	555	10.0	39	151	Technical difficulties at stn 12.
17-Jun	-	-	-	-	-	-			40	191	Repairs in port; index from interpolation
18-Jun	-	-	-	-	-	-			42	233	Repairs in port
19-Jun	-	-	-	-	-	-			44	277	Repairs in port
20-Jun	-	1	67	23	11	26	564	8.0	45	322	Overcast, wind SE 20
21 Jun <sup>f</sup>	-	-	-	14	2	19	566	8.0	21	343	Technical difficulties.
22 Jun <sup>g</sup>	-	57	45	25	20	14	553	8.0	87	430	Broken overcast, wind NW10
23-Jun	5	61	58	29	10	-	558	8.3	79	509	Overcast, wind SE 20
24-Jun	9	63	84	26	42	36	555	8.1	88	597	Broken overcast, wind SE 20
25-Jun	86	64	38	38	40	29	562	9.0	102	699	Ocast, some rain, wind W10
26-Jun	15	21	185	80	44	-	557	9.9	132	831	Mostly clear, light variable winds
<b>27-Jun</b>	<b>5</b>	<b>91</b>	<b>127</b>	<b>138</b>	<b>56</b>	<b>-</b>	<b>560</b>	<b>10.5</b>	<b>195</b>	<b>1,026</b>	Clear, warm, light NW winds
<b>Totals</b>	<b>133</b>	<b>370</b>	<b>631</b>	<b>457</b>	<b>257</b>	<b>168</b>					
<b>Percent<sup>c</sup></b>	<b>7</b>	<b>20</b>	<b>34</b>	<b>25</b>	<b>14</b>						

\*See last page of update for footnotes.

This update contains numbers for today's fishing and the stock composition results from June 22-23 genetics analysis. The crew fished stations 10 through 2 today. The index was 195, which is very good. Station 2 catches were light. The indices were centered at stations 6 and 8 today.

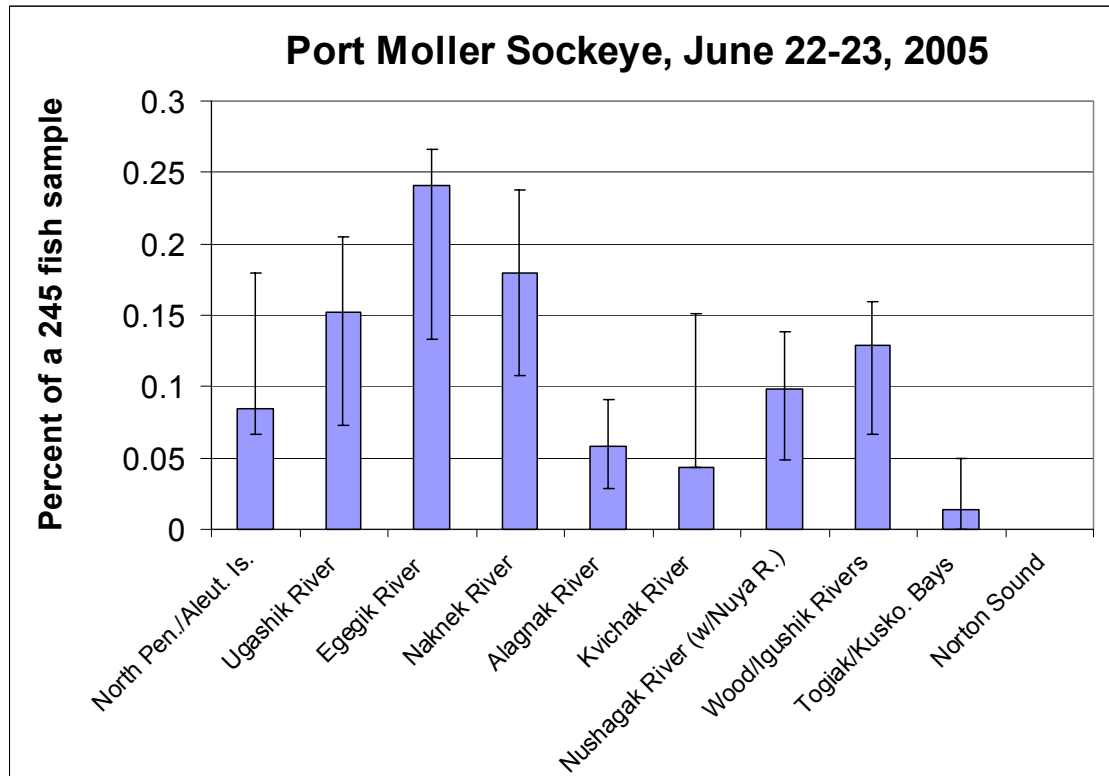


Daily indices above 195 are not terribly common. For the last six days of June, about 9% or 1 in 10 of the dates over the 20-year period yielded an index of greater than 195 (Figure below). For June 27, the previous peak index was 220, which occurred last year (2004).



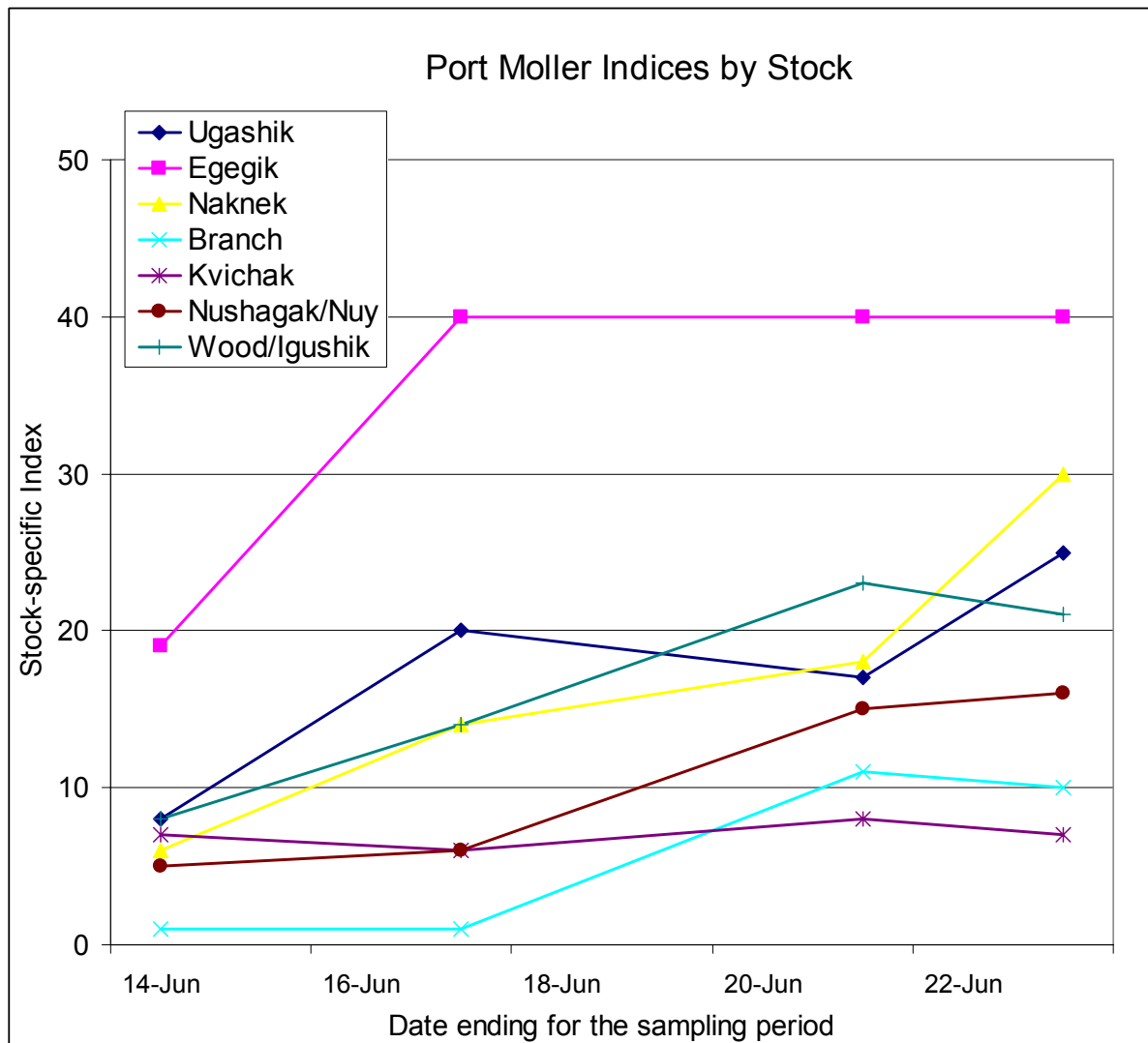
They caught another 42 chum for the day.

Stock composition estimates for June 22-23 are shown below.



The stock composition results are interesting and generally consistent with the preseason forecast, as are the indices to date. The stock composition data should be used cautiously – we are working on the “frontier” with this effort. As mentioned in an earlier update, these represent a good characterization of the fish that were caught in the PM test net. The extent to which they represent the inshore return is not fully understood or known. We expect there may be some of what is called misallocation of fish from Egegik to Ugashik, although it wouldn’t be really large. Alagnak is showing up reasonably well in these samples all things considered, suggesting that it is bigger than typical runs a few years ago (i.e., before the stock went into the 2 to 6 million range).

We are working on representing these composition data across time and across station. Adding these dimensions adds to the information the data yield. Below is an approach that Dr. John Clark (ADF&G) has contributed. The approach converts the period-specific indices and the stock composition estimates to provide a stock-specific index by period. The approach may allow us to detect signals like when particular stocks have peaked at Port Moller. The next sample results, which cover 24-25 are due Wednesday (29 June)



The crew will have to deliver sometime between 1am and 5am tonight/tomorrow so tomorrow’s stations will be done later in the day than in recent days.

**Port Moller Cumulative Index by Date, 1985-2005.**

Date	1985	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000*	2001	2002	2003	2004	2005	Min	Avg	Max	Avg. daily
6/11	8	8	7	17	7	6	18	18	4	33	22	13	6	16	21	31	24	28	8	<b>13</b>	4	<b>15</b>	33	
6/12	13	15	16	43	19	13	37	29	7	62	43	30	11	33	89	52	51	56	22	<b>27</b>	7	<b>34</b>	89	18
6/13	28	22	28	67	32	19	56	57	12	99	67	42	16	46	147	89	93	100	49	<b>32</b>	12	<b>56</b>	147	23
6/14	51	30	40	85	43	25	76	146	21	186	120	67	27	53	191	124	116	145	57	<b>73</b>	21	<b>84</b>	191	28
6/15	91	43	56	111	61	42	122	208	38	248	159	97	50	67	256	155	220	199	107	<b>112</b>	38	<b>123</b>	256	38
6/16	142	53	74	137	84	66	176	293	55	337	257	144	85	83	306	259	304	257	144	<b>151</b>	53	<b>171</b>	337	49
6/17	244	61	82	194	100	106	182	382	66	400	315	190	128	90	352	422	374	327	200	<b>191</b>	61	<b>222</b>	422	50
6/18	284	71	89	297	143	164	296	472	101	552	391	217	150	114	421	489	445	357	222	<b>233</b>	71	<b>278</b>	552	56
6/19	323	85	95	380	184	245	428	562	146	689	447	299	178	181	476	649	499	422	239	<b>277</b>	85	<b>344</b>	689	66
6/20	343	138	114	468	225	305	540	681	183	762	552	386	224	255	543	752	562	526	251	<b>322</b>	114	<b>411</b>	762	67
6/21	398	151	128	550	267	404	658	824	269	878	653	441	266	352	584	871	679	597	338	<b>343</b>	128	<b>490</b>	878	79
6/22	479	223	154	644	313	561	783	1012	379	975	730	543	320	414	684	1046	773	694	393	<b>430</b>	154	<b>585</b>	1046	95
6/23	553	296	181	733	374	657	927	1135	531	1110	818	637	363	514	808	1125	887	764	416	<b>509</b>	181	<b>675</b>	1135	90
6/24	616	383	231	799	511	837	1068	1234	648	1214	918	730	423	704	896	1227	1018	835	498	<b>597</b>	231	<b>778</b>	1234	103
6/25	637	469	253	857	665	891	1178	1466	743	1356	1020	806	471	853	981	1361	1166	887	639	<b>699</b>	253	<b>879</b>	1466	100
6/26	717	607	305	885	771	946	1226	1624	854	1509	1152	888	523	949	1042	1470	1297	950	792	<b>831</b>	305	<b>974</b>	1624	95
6/27	771	668	353	955	908	1077	1334	1783	995	1633	1261	1029	582	1022	1110	1607	1427	1007	1012	<b>1025</b>	353	<b>1081</b>	1783	107
6/28	947	808	386	1072	1192	1146	1453	1973	1144	1815	1371	1183	659	1186	1199	1747	1536	1078	1179	386	<b>1214</b>	1973	134	
6/29	1109	883	472	1166	1389	1241	1586	2085	1279	2033	1449	1297	776	1267	1265	1830	1663	1123	1283	472	<b>1326</b>	2085	112	
6/30	1279	956	523	1261	1632	1261	1812	2372	1538	2179	1580	1421	867	1392	1333	1931	1773	1196	1380	523	<b>1457</b>	2372	131	
7/1	1307	983	568	1354	1804	1340	1981	2547	1699	2365	1684	1504	986	1516	1386	2010	1838	1427	568	<b>1572</b>	2547	115		
7/2	1351	1010	614	1448	1960	1390	2066	2789	1866	2537	1838	1637	1034	1647	1437	2105	1909	1516	614	<b>1675</b>	2789	103		
7/3	1429	1043	637	1566	2182	1564	2228	2849	1990	2725	1955	1871	1165	1805	1494	2202	1965	1613	637	<b>1794</b>	2849	118		
7/4	1505	1073	659	1761	2284	1629	2333	2928	2187	2874	2139	1947	1247	1933	1527	2255	2022	1663	659	<b>1887</b>	2928	93		
7/5	1603	1104	707	1901	2345	1756	2443	3028	2330	2995	2247	2079	1377	2054	1572	2308	2122	1770	707	<b>1986</b>	3028	99		
Run Size (millions)	36	27	23	44	48	42	45	52	50	61	37	19	18	39	23	22	17	26	43					

*Footnotes for the Daily Summary table:*

- <sup>a</sup> To put the *average for the entire catch* into perspective, 3-ocean fish typically range from 560 to 580 and 2-ocean fish from 500 to 530 mm (length measured from middle of the eye to the fork of the tail).
- <sup>b</sup> Traditional index based on stations 2,4,6, and 8 (stn 8 weighted double, stn 10 not used).
- <sup>c</sup> Percent of the boat's cumulative sockeye catch for stations 2-10 by station.
- <sup>d</sup> As part of training new crew, stations 8 and 10 were fished twice. Catches were 0&10 and 13&5 for stns 8 and 10.
- <sup>e</sup> There were actually 141 fish caught at station 12 over a ~3-hour soak. The 43 fish represents the catch per average soak time, which is ~54 min. This was done to not exaggerate the size of the 141 fish catch relative to other sets.
- <sup>f</sup> The daily index is based on station 8 and a recent average of stns 2,4,6 as a percent of stn 8.
- <sup>g</sup> Daily index is based on an estimate of station 2 index = station 4 index on same date (& using stnd method in footnote b).

This year's Port Moller project is being managed and staffed by the Bristol Bay Science and Research Institute. Including the genetics analysis, the out-of-pocket cost of the project is about \$150,000. The project was funded by ADF&G (60%), 10 processing companies (25%) and BBSRI (15%).

The PM vessels sets a 200 fathom 5 1/8" mesh net for about one hour at each station. Station 2 is the nearshore station and is 33 nm offshore from PM; the remaining stations fished are 10 nm apart. Station 10 is 73 nm offshore. Station 12 is 83 nm and station 14 is 93 nm offshore from PM. They typically fish stations on the way out on day one, spend the night offshore and fish the same stations on the way back on day two of a two-day trip.

Greg Buck manages the Port Moller test fishery program. Technicians Zachary Babb and Demetri Gust conduct the sampling on the *F/V Deliverance* and BBSRI's Executive Director Michael Link prepares project updates. These updates are provided by BBSRI as a public service to fishermen and processors. Although none of this would have been possible without the help of ADF&G personnel and funding, the interpretations contained in these updates are not "official" ADF&G interpretations of any of the Port Moller test fishery data.

Fred West (ADF&G) manages the scale ageing operation in King Salmon and provides timely summaries of age composition from the Port Moller catch. Chris Habicht (ADF&G) manages the genetic stock identification component of the project and he works with Dr. Jim Seeb (ADF&G) to analyze the genetics data. Dr. John Clark (ADF&G's chief fishery scientist) was instrumental in the doubling of the ADF&G funding contribution to the PM test fishery program this year.