

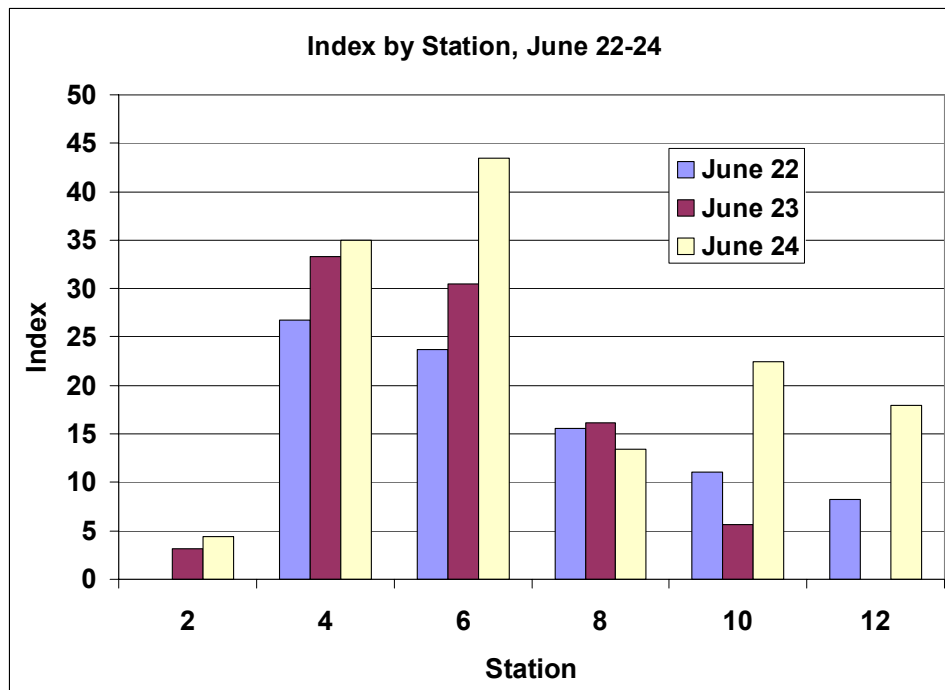
Port Moller Test Fishery, Update #12, June 24, 2005.

Daily Summary, Port Moller sockeye test fishery, 2005.

Date	Sockeye Catch by Station						Avg fish length (mm) ^a	Avg. Temp (°C)	Traditional Index ^b		Comments
	2	4	6	8	10	12			Daily	Cum.	
9-Jun	1	1	0	2	0	-	580				
10 Jun ^d	-	-	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 ^e	-	-	-	-	-	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 ^f	-	-	-	14	2	19	566	8.0	21	343	Technical difficulties.
22 Jun ^g	-	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
Totals	27	194	281	201	117	139					
Percent ^c	3	24	34	25	14						

*See last page of update for footnotes.

The crew fished stations 2 through 12 yesterday and plan the reverse today (they caught 29 sockeye and 4 chum at station 12 this morning). The index (based on stations 2 through 8) was 88, which is very close to average for this date. A total of 260 fish were caught and all the samples are now in Port Moller. The distribution across the transect shifted a little offshore yesterday from the two previous days.



Chum – the boat caught 37 chum yesterday and the year-to-date chum catch at PM is 142 fish. By this point last year (and having fished more sets) we had caught 60 chum. A range in chum catch by this date is typically from 40 to 150. Had we more fully fished the mid June period, we would have been in the range of 160 to 200 chum this year. The largest to date chum catch was in 1994, when they caught 222 by June 24, and the next highest was 1996 with 186 chum.

Average length continues to hover between the mid 550s and mid 560s with a modest trend toward mid 550s (~15-25 % 2-ocean). The latest age results are as follows:

**Alaska Department of Fish and Game
2005 Age Composition Summary**

Age composition as of
6/25/2005 (weighted by daily index, which could be daily catch, escapement,
or test fish index)

Sockeye Salmon

Egegik Catch			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/17	53,737	527			2.7	33.8		29.6	32.8
6/19	43,705	410			1.0	38.5		20.5	39.3
Total	97,442	937	0.0	0.0	1.9	35.9	0.00	25.5	35.7
Forecast					3.8	35.9		17.4	43

Naknek River SHA Catch			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/20	8,657	175			5.1	79.4		4.6	9.7
6/21	1,390	104			4.8	76.0	1.9	1.9	14.4
Total	10,047	279	0.0	0.0	5.1	78.9	0.3	4.2	10.4
Forecast					9.0	66.2		3.7	21.0

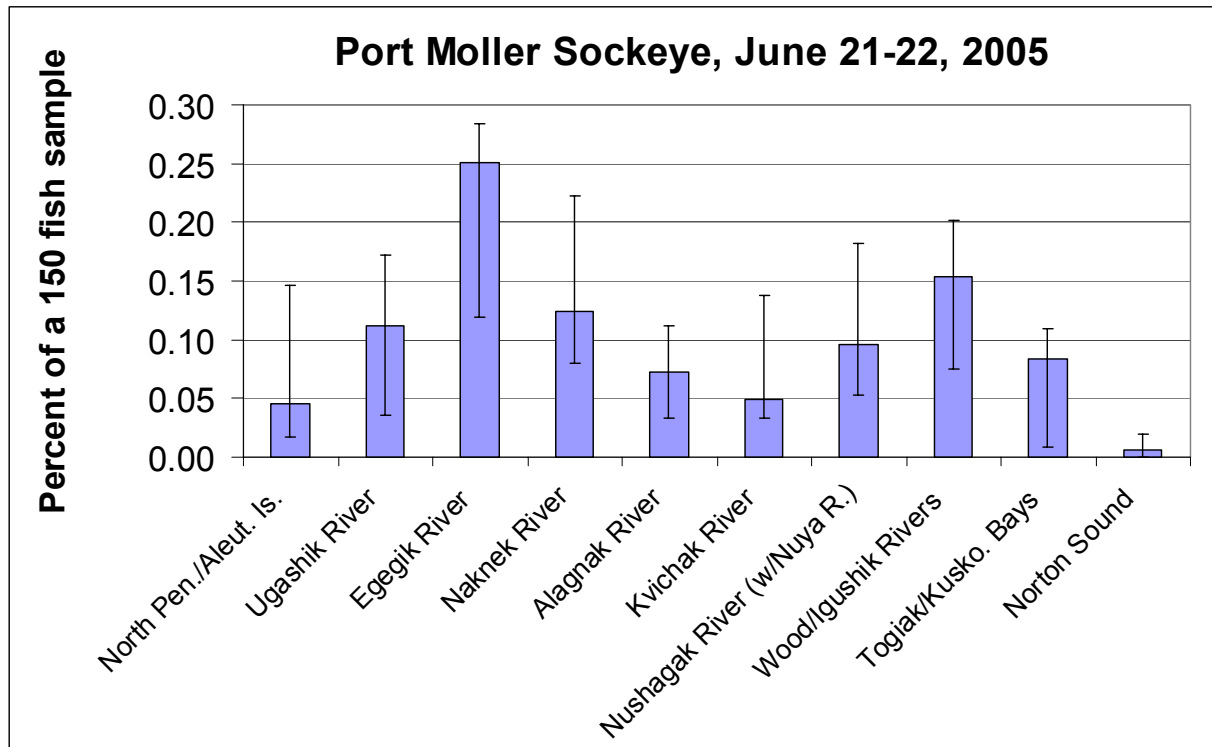
Nushagak Catch			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/21	110,704	184		1.6	20.7	72.3		1.6	1.6
Total	110,704	184	0.0	1.6	20.7	72.3	0.0	1.6	1.6
Forecast				6.0	15.4	68.5		0.6	0.6

Nushagak Escapement			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/8 - 6/14	2,397	7			14.3	85.7			
Total	2,397	7	0.0	0.0	14.3	85.7	0.0	0.0	0.0
Forecast				6.0	15.4	68.5		0.6	0.6

Ugashik Catch			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/17	6,252	214		1.4	2.3	63.1		6.1	26.2
Total	6,252	214	0.0	1.4	2.3	63.1	0.0	6.1	26.2
Forecast					19.9	42.1		23.5	14.4

Port Moller Offshore Test Fish			AGE COMPOSITION						
Date	Daily Index	Sample Size	0.2	0.3	1.2	1.3	2.1	2.2	2.3
6/10	6	28		3.6	10.7	60.7		10.7	14.3
6/11	13	5				60.0			40.0
6/13	5	13				23.1		7.7	69.2
6/14	42	39				53.9		20.5	25.6
6/15	39	60		1.7	3.3	51.7		15.0	26.7
6/16	39	107		0.9	0.9	54.2		8.4	33.6
6/20	45	106			4.7	60.4		17.0	17.9
6/21	21	25		4.0	12.0	68.0		4.0	12.0
6/22	87	144		0.7	12.5	59.7		13.2	13.2
6/23	79	143		1.4	5.6	57.3		11.9	23.8
Total	376	670	0.0	1.0	5.9	57.2	0.0	12.8	22.5
Forecast				0.3	18.0	48.7		10.3	22.2

The genetic samples from June 21-22 have been analyzed. The results showed a similar pattern as last time and are somewhat similar to the preseason forecast. Note this sample represents about twice as many fish in the run as the last sample did.



Of the ~138 Bristol Bay bound fish:

Ugashik	13%
Egegik	29%
Naknek	14%
Alagnak	8%
Kvichak	6%
Nushagak	11%
Wood/Igu	18%
Nush District	29% (combined)

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

The genetic samples from 22-23 made it to the lab late yesterday and results should be available on Monday.

Footnotes for the Daily Summary table:

- ^a 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).
- ^b Traditional index based on stations 2,4,6, and 8 (stn 8 weighted double, stn 10 not used).
- ^c Percent of the boat's cumulative sockeye catch for stations 2-10 by station.
- ^d 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.
- ^e 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.
- ^f The daily index is based on station 8 and a recent average of stns 2,4,6 as a percent of stn 8.
- ^g 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 Demitri 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.