Hello Chairman Morisky and the Board,

My name is Elbridge Walker and I want to talk about Proposals 103 and 125. With concerns of Northern District stocks easing, we need to establish a fair and workable Management Plan for all groups and I feel Proposals 103 and 125 work well together to accomplish this. Please note the Lake comparisons on the wall I want to show you. When we look at huge area differences alone comparing the Kenai system of 40,000 acres to other lakes in the Bristol Bay area such as Becharof at 290,000 acres, and Naknek at 155,000 acres. It is very apparent we are putting far too many spawners in the Kenai system. Becharof is over 7 times larger, Naknek 4 times larger, both have clearer water, both with escapement goals of 800,000 – 2,000,000 fish. When looking at the Kenai, Becharof and Naknek systems by satellite, Kenai has far less sun penetration capability, as the satellite imagery shows. Common sense should tell us we are putting far too many spawners in the Kenai System just by a shear area, water clarity and temperature comparison. Historical data I have provided you shows that far less spawners in the 70's produced more than we do now. Small, Kenai 2 year exiting juvenile's are now the new norm. Gone are the years of the large 1 year exiting juvenile's. Size from every study I have found shows decreasing juvenile size at river exit, thus making them much more vulnerable in the ocean and smaller at maturity. Gone are the 5+ Return Per Spawner days. Using the Didson converted numbers, it shows 800,000 spawners as the top of the yield curve (sMax), as, in 1977 951,000 spawners was a bust in '81. Then 1982 and 1983, with between 750,000-800,000 spawners shows to be the maximum yield possible by extra large returns from 1987-1989. Spawner Escapements in '78 and '79 of 373,000 and 511,000 return big from 1982-1984, which, shows the bottom of the sustainable yield curve (sMsy) at 400,000. Therefore, I would like to propose that a new Optimum Spawning Goal/Range of 400,000-800,000 sockeyes be established for the Kenai Late-Run Sockeye ending August 15th, and managed accordingly to accomplish the largest returns that will benefit all user groups. Angler participation can't catch surpluses that are too large and only in the river for a short period. It is past time to stop trying to create impossible miracles from a system that is far too small to continually put over a million spawners in. Millions of fish have been wasted. Last we need to move the mile 19 Sonar to

somewhere around RM 4-6 and add sonars before Kenai and Skilak Lakes to understand the rivers diversity. (End of Testimony)

Amendments to Proposal 103

With Sport catch data provided at the meeting showing the average yearly sockeye sport catch from RM 19 upstream is approximately 285,000 sockeye annually. Knowing that, the Kenai in-river escapement goals need to be slightly altered.

In Proposal 103 for runs under 3.5 million sockeye, amend (c) (1) (A) to: "The Department shall manage for an in river goal above RM19 of 750,000-950,000 sockeye, with a target of 850,000 in river sockeye.

With projected runs above 3.5 million sockeye, amend (c) (2) (A) to read: The Department shall manage for an in-river goal above RM 19 of 850,000-1,100,000, with a target escapement of 1,000,000 sockeye.

Amendment to Proposal 125

In proposal 125 change f), in its entirety, to read: from August 3rd, until August 15th or closed by EO, the drift fishery will be open every Thursday from 7:00am until 7:00pm in Area 1 and the Kenai and Kasilof expanded sections. On Mondays the drift fishery will be open in Area 3 and/or 4, and the Kenai and Kasilof Expanded Sections. This section may be amended to allow additional fishing time by EO if over 1,000,000 spawners have passed RM 19.

Policy #77-27-FB

COMPREHENSIVE MANAGEMENT POLICY FOR THE UPPER COOK INLET

The dramatically increasing population of the Cook Inlet area has resulted in increasing competition between recreational and commercial fishermen for the Cook Inlet salmon stocks. Concurrently, urbanization and associated road construction has increased recreational angler effort and may adversely affect fisheries habitat. As a result the Board of Fisheries has determined that a policy must now be determined for the long-term management of the Cook Inlet salmon stocks. This policy should rest upon the following considerations:

- 1. The ultimate management goal for the Cook Inlet stocks must be their protection and, where feasible, rehabilitation and enhancement. To achieve this biological goal, priorities must be set among beneficial uses of the resource.
- 2. The commercial fishing industry in Cook Inlet is a valuable long-term asset of this state and must be protected, while recognizing the legitimate claims of the non-commercial user.
- 3. Of the salmon stocks in Cook Inlet, the king and silver salmon are the target species for recreational anglers while the chum, pink, and red salmon are the predominant commercial fishery.
- 4. User groups should know what the management plan for salmon stocks will be in order that they can plan their use consistent with that plan. Thus, commercial fishermen must know if they are harvesting stocks which in the long-term will be managed primarily for recreational consumption so that they may plan appropriately. Conversely, as recreational demands increase the recreational user must be aware of what stocks will be managed primarily for commercial harvest in order that he not become overly dependent on these fish for recreational purposes.
- 5. Various agencies should be aware of the long-term management plan so that salmon management needs will be considered when making decisions in areas such as land use planning and highway construction.
- 6. It is imperative that the Department of Fish and Game receive long-range direction in management of these stocks rather than being called upon to respond to annually changing Board directives. Within the Department, divisions such as F.R.E.D., must receive such long-term direction.

Therefore, the Board establishes priorities on the following Look Inlet stocks north of Anchor Point. In so doing it is not the Board's intent to establish exclusive uses of salmon stocks; rather its purpose is to define the primary beneficial use of the stock while permitting secondary uses of the stock to the extent it is consistent with the requirements of the primary user group.

- Stocks which normally move in Cook Inlet to spawning areas prior to June 30, shall be managed primarily as a non-commercial resource.
- 2. Stocks which normally move in Cook Inletafter June 30, shall be managed primarily as a non-recreational resource until August 15; however existing recreational target fish shall only be harvested incidental to the non-recreational use; thereafter stocks moving to spawning areas on the Kenai Peninsula shall be managed primarily as a non-commercial resource. Other stocks shall continue to be managed primarily as a non-recreational resource.

3. The Susitna coho, the Kenai king, and the Kenai coho runs cannot be separated from other stocks which are being managed primarily as non-recreational resources; however, efforts shall be made, consistent with the primary management goal, to minimize the non-recreational catch of these stocks.

Nicholas G. Szabo, Chairman Alaska Board of Fisheries

ADOPTED: December 13, 1977

VOTED: 5-0

Alaska Department of Fish and Sama Division of Commarcial Fisheries P.O. Box 3-2000; Junaau, AK 99302 Compiled 02-Fab-84 (907)455-4210

Tnousands of Fish

YEAR	CHINOOK	SOCKEYE	S P E C I COHO	E S PINK	CHUM	ALL	COMMENTS
1891 1892 1893 1894 1895	30.0 15.5 25.2	170.0 406.3 324.3	34.0 19.0			234.0 441.3 349.5	
1396 1397 1898 1399 1900	13.1 14.1 16.4 17.1 25.7	309.9 354.8 551.2 558.5 535.3	27.6 23.0 83.4 54.9 20.0	37.8		393.3 396.9. 651.0 630.5 632.0	
1901 1902 1903 1904 1905	34.3 49.0 65.0 30.1 17.7	482.4 710.3 564.2 489.3 95.5	9.0 54.9 59.0 23.8	5.6 79.2		531.3 893.4 689.2 543.2 113.2	
1906 1907 1908 1909 1910	22.4 62.9 33.8 59.6 49.0	225.5 460.6 570.8 582.6 840.2	93.5 177.3 94.9 88.4 79.7	64.1 6.4 375.1 3.7 217.7	1.3	405.5 707.3 1,174.6 734.3 1,187.9	
1911 1912 1913 1914 1915	55.8 47.9 63.7 47.6 83.8	1,249.2 1,194.9 1,369.2 1,472.8 1,860.7	81.5	70.7 1,661.9 10.9 1,255.8 19.3	.7 121.6 10.8 39.9 27.8	1,464.3 3,096.8 1,536.1 3,004.4 2,113.6	
1916 1917 1913 1919 1920	62.9 65.5 34.9 23.8 39.5	1,699.3 1,659.9 1,668.4 943.7 1,314.9	210.0 60.8 251.2 172.9 302.4	,682.7 54.3 721.2 43.4 445.5	128.3 78.5 108.2 54.3 97.5	3,783.2 1,913.9 2,783.9 1,238.1 2,199.9	
1921 1922 1923 1924 1925	13.9 31.0 29.9 27.0 51.0	983.6 860.0 1,099.5 1,056.1 1,510.9	20.5 199.9 142.9 187.7 198.1	4.7 637.4 39.1 752.0 11.8	42.4 74.4 23.5 36.8 15.1	1,065.2 1,802.8 1,334.9 2,059.5 1,785.9	
1926 1927 1928 1929 1930	75.6 87.4 69.9 67.7 72.3	1,999.7 1,459.1 1,173.0 1,049.9 917.9	353.2 387.7 522.5 184.9 498.5	536.1 251.9 563.1 376.9	118.5 59.4 101.1 134.6 99.6	3,133.0 2,245.5 2,434.5 1,813.9 2,611.0	Est. from canned; excludes Resurrection Bay Est. from canned; excludes Resurrection Bay Est. from canned; excludes Resurrection Bay
1931 1932 1933 1934 1935	51.4 70.9 59.3 72.4 75.1	805.5 1,132.0 1,336.1 1,815.3 1,355.8	323.3 375.0 188.0 251.3 170.4	472.2 441.1 113.2 930.0 430.5	62.6 64.7 57.2 91.3 161.4	1,720.1 2,083.7 1,753.8 3,160.2 2,193.3	Estimated from canned production Estimated from canned production Estimated from canned production Estimated from canned production No Resurraction Bay fishery
1936 1937 1938 1939 1940	81.1 86.0 57.7 52.7 63.0	2,390.3 1,581.2 2,425.3 2,334.9 1,649.0	328.5 215.7 213.8 163.0 478.1	852.9 487.7 848.7 319.3 2,604.2	264.9 148.9 191.3 231.6 230.8	3,917.7 2,519.4 3,736.8 3,101.6 5,075.1	No Resurrection Bay fishery Res. Bay contribution est. from canned prod. Res. Bay contribution est. from canned prod. Res. Bay contribution est. from canned prod. Estimated from canned production
1941 1942 1943 1944 1945	104.3 95.2 111.4 85.2 59.2	1,293.2 1,540.2 1,468.3 1,939.9 1,556.7	255.6	715.2 965.5 ,457.2 ,815.4 ,368.0	272.3 401.0 301.9 258.8 305.9	2,744.8 3,646.7 3,613.6 4,356.0 3,629.6	
1945 1947 1948 1949 1950	64.3 106.8 105.0 111.3 162.9	1,474.5 1,474.0 2,035.3 2,153.2 2,642.4	443.9 403.1 279.7	,338.7 681.7 ,660.1 433.0 ,132.2	333.6 279.2 439.3 239.6 463.5	3,342.4 2,985.6 4,543.8 3,215.3 4,752.4	
1951 1952 1953 1954 1955	137.5 74.5 89.4 55.3 46.5	2,481.3 1,510.2 1,490.1 1,246.7 1,064.1	227.6 336.7	417.5 2,277.0 550.1 2,460.1 1,285.0	292.3 450.6 536.6 775.7 317.1	3,563.4 4,546.1 2,893.3 4,884.4 2,894.1	

MEMORANDUM

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

To: Denby Lloyd

Director Division of Commercial Fisheries Date: 26 September 1991

File/Disk: MEMO.sum

Phone: (907) 262-9368

From: Kenneth E. Tarbox

Research Project Leader

Commercial Fisheries Division

Soldotna

Subject: 1991 Season Summary

The 1991 Upper Cook Inlet (UCI) salmon season can be characterized as one of regulatory confusion, court ordered fishery closures, reduced volume of fish from previous years, lower prices, and a strike by fishermen. In spite of these perturbations, escapement goals were met and the available harvestable surplus taken by the various user groups.

COMMERCIAL FISHERIES

The 1991 commercial salmon harvest was approximately 2.9 million fish, which is below the long term average harvest of 3.8 million fish (Table 1). In 38 years of records, the 1991 salmon harvest ranked 21st in total fish. The approximate exvessel value of the fishery was 14.6 million dollars.

Sockeye Salmon

Sockeye salmon dominated the harvest with a catch of 2.185 million fish (75 percent of total harvest). The value of the fishery was estimated at 13.0 million dollars or 89 percent of the total salmon exvessel value. The number of fish harvested ranked 10th in the 38 years on record (Table 1).

Escapement objectives were met in all systems in UCI with the exception of Crescent River which fell short of the minimum goal by a few thousand fish (Table 2).

The main season started with essentially all drift gill net fishermen and a large portion of the set gill fishermen on strike because of reduced prices. However, with the settlement of the price dispute in Bristol Bay, increasing numbers of salmon entering UCI, and higher prices the fishery commenced in full on 8 July. Before this, escapement rates into the Kasilof River had exceeded those necessary to achieve escapement objectives and additional fishing time was granted south of the Blanchard line (Table 3). As the season progressed it was obvious that the total sockeye salmon return was lower than expected. Therefore, restrictions on the commercial salmon fishery would be necessary to meet escapement

Table 1. Upper Cook Inlet commercial salmon harvest by species, 1954-1991.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1954	63,780	1,207,046	321,525	2,189,207	510,068	4,291,72
1955	45,926	1,027,528	170,777	101,680	248,343	1,594,25
1956	64,977	1,258,789	198,189	1,595,375	782,051	3,899,38
1957	42,158	643,712	125,434	21,228	1,001,470	1,834,00
1958	22,727	477,392	239,765	1,648,548	471,697	2,860,12
1959	32,651	612,676	106,312	12,527	300,319	1,064,48
1960	27,512	923,314	311,461	1,411,605	659,997	3,333,88
1961	19,737	1,162,303	117,778	34,017	349,628	1,683,46
1962	20,210	1,147,573	350,324	2,711,689	970,582	5,200,37
1963	17,536	942,980	197,140	30,436	387,027	1,575,11
1964	4,531	970,055	452,654	3,231,961	1,079,084	5,738,28
1965	9,741	1,412,350	153,619	23,963	316,444	1,916,11
1966	8,544	1,852,114	289,837	2,005,745	532,756	4,688,99
1967	7,859	1,380,062	177,729	32,229	296,837	1,894,7
1968	4,536	1,104,904	469,850	2,278,197	1,119,114	4,976,6
1969	12,407	692,244	100,962	34,030	269,842	1,109,4
1970	8,358	746,634	279,989	826,639	800,829	2,662,4
1971	19,765	636,798	100,636	35,624	327,029	1,119,8
1972	16,086	879,724	80,933	628,576	630,016	2,235,3
1973	5,194	670,025	104,373	326,183	667,561	1,773,3
1974	6,586	497,160	200,125	484,035	396,938	1,584,8
1975	4,773	678,736	221,739	335,629	950,981	2,191,8
1976	10,867	1,664,131	208,710	1,256,743	469,806	3,610,2
1977	14,792	2,052,511	192,599	553,855	1,233,722	4,047,4
1978	17,302	2,621,667	219,360	1,689,098	571,959	5,119,3
1979	13,738	924,415	265,166	72,982	650,357	1,926,6
1980	13,795	1,573,637	271,378	1,786,430	390,810	4,036,0
1981	12,240	1,439,235	485,148	127,169	833,549	2,897,3 6,299,1
1982	20,870	3,259,864	793,937	790,648	1,433,866	6,771,8
1983	20,634	5,049,733	516,322	70,327	1,114,858	3,860,8
1984	10,041	2,105,860	449,903	617,298	680,089	5,612,2
1985	24,086	4,060,260	667,213	87,828	772,829	8,017,5
1986	39,240	4,787,982	756,830	1,299,360	1,134,173	10,450,1
1987	39,661	9,500,186	451,404	109,801	349,132	8,601,9
1988	29,060	6,834,342	560,022	469,972	708,573	5,566,0
1989	26,742	5,010,698	339,201	67,430	122,027	5,075,0
1990	16,105	3,604,064	500,026	603,630	351,197 280,544	2,906,9
*1991	13,890	2,185,641	410,526	16,367	200,544	
verage	20,754	2,042,062	312,076	779,423	635,950	3,790,2

^{*} Preliminary inseason values through 8/26.

Escapement goals and counts of sockeye salmon in selected streams of Upper Cook Inlet, 1968-1991.

Year	Kenai i	River	Kasilof	River	fish Creek		
	Escapement Goal	Escapement Estimate	Escapement Goal	Escapement Estimate	Escapement Goal	Escapement Estimate ²	
		99 000	0	93,000	0	19,616	
1968	0	88,000 57,000	75,000	46,000	0	12,456	
1969	150,000	53,000 73,000	75,000	37,000	0	25,000	
1970	150,000	75,000	75,000		0	31,900	
1971	150,000		75,000-150,000	112,000	0	6,98	
1972	150,000-250,000	318,000 767,000	75,000-150,000	40,600	C	2,70	
1973	150,000-250,000	367,000	75,000-150,000	64,000	0	16,22	
1974	150,000-250,000	161,000	75,000-150,000	48,000	0	29,88	
1975	150,000-250,000	142,000	75,000-150,000	140,000	0	14,03	
1976	150,000-250,000	380,000	75,000-150,000	155,000	0	5,18	
1977	150,000-250,000	708,000	75,000-150,000	117,000	0	3,55	
1978	350,000-500,000	399,000	75,000-150,000	152,000	0	68,73	
1979	350,000-500,000	285,000	75,000-150,000	187,000	Ö.	62,82	
1980	350,000-500,000	464,000	75,000-150,000	257,000	Õ	50,47	
1981	350,000-500,000	408,000	75,000-150,000	180,000	50,000	28,16	
1982	350,000-500,000	620,000	75,000-150,000	210,000	50,000	118,79	
1983	350,000-500,000	630,000	75,000-150,000	232,000	50,000	192,35	
1984	350,000-500,000	345,000	75,000-150,000	503,000	50,000	68,57	
1985	350,000-500,000	501,000	75,000-150,000		50,000	29,80	
1986	350,000-500,000	501,000	150,000-250,000	276,000	50,000	91,21	
1987	400,000-700,000	1,597,000	150,000-250,000	249,000	50,000	71,60	
1988	400,000-700,000	1,021,500	150,000-250,000	202,000	50,000	67,22	
1989	400,000-700,000	1,599,959	150,000-250,000	158,206	50,000	50,00	
1990	400,000-700,000	658,908	150,000-250,000	144,289	50,000	50,50	
1991	400,000-700,000	645,000	150,000-250,000	238,000	30,000	,-	

	Susitna (River	Crescent	River	Packers Creek		
Year	Escapement Goal	Escapement Estimate	Escapement Goal	Escapement Estimate ¹	Escapement Goal	Escapement Estimate ²	
			^	N/C	0	N/C	
1978	200,000	94,000	0		ň	N/C	
1979	200,000	157,000	50,000	87,000	ŏ	16,477	
1980	200,000	191,080	50,000	91,000	•	13,024	
1981	200,000	340,000	50,000	41,000	Ů	15,687	
1982	200,000	216,000 ³	50,000	59,000	Ü	18,403	
1983	200,000	112,0004	50,000	92,000	Ü	30,684	
	200,000	194,000 ⁵	50,000	118,000	D .	36,850	
1984	200,000	228,0005	50,000	129,000	Ō		
1985		92,000°	50,000-100,000	N/A	0	29,604	
1986	200,000	66,000 ⁶	50,000-100,000	119,000	0	35,401	
1987	200,000	52,347°	50,000-100,000	57,716	15,000-25,000	18,607	
1988	100,000-150,000	26,341	50,000-100,000	71,064	15,000-25,000	22,304	
1989	100,000-150,000	96,269 ⁶	50,000-100,000	52,180	15,000-25,000	29,154	
1990	100,000-150,000	140,379 ⁶ 105,000 ⁶	50,000-100,000	44,500	15,000-25,000	36,389	
1991	100,000-150,000	105,000	30,555 100,555	,			

Derived from sonar counters unless otherwise noted.

Weir counts.

Poor field conditions make this a minimum estimate; mark/recapture estimate from Su-Hydro studies was

^{265,000.}Minimum estimate. Combining Yentna sonar with Sunshine Station mark/recapture estimate yields 176,000.

Yentna River sonar count combined with Sunshine Station mark/recapture estimate.

Yentna River only.

·		Harvest							
Year	Spawners	Reium	RS	Y ield	Rate	Run	Harvest		
1968	115,545	960,169	8.3	844,624	0.88				
1969	72.901	430.947	5.9	358,046	0.83				
1970	101,794	550,923	5.4	449,129	0.82				
1971	406,714	986,397	2.4	579,683	0.59				
1972	431,058	2,547,851	5.9	2,116,793	0.83		107		
1973	507,072	2,125,986	4.2	1,618,914	0.76				
1974	209,836	788,067	3.8	578,231	0.73		504 000		
1975	184,262	1,055,373	5.7	871,111	0.83	485,350	301,088		
1976	507,440	1,506,012	3.0	998,572	0.66	1,374,607	867,167		
1977	951,038	3,112,620	3.3	2,161,582	0.69	2,268,567	1,317,529		
1978	511,781	3,785,040	7.4	3,273,259	0.86	2,096,342	1,584,561		
1979	373,810	1,321,039	3.5	947,229	0.72	797,838	424,028		
1980	615,382	2,673,295	4.3	2,057,913	0.77	1,481,394	866,012		
	535,524	2.464.323	4.6	1,928,799	0.78	1,176,410	640,886		
1981 1982	755,672	9,587,700	12.7	8,832,028	0.92	2,766,442	2,010,770		
	792,765	9,486,794	12.0	8,694,029	0.92	3,981,411	3,188,646		
1983	446,297	3,859,109	8.6	3,412,812	0.88	1,286,678	840,381		
1984	573,761	2,587,921	4.5	2,014,160	0.78	2,496,016	1,922,255		
1985	555,207	2,165,138	3.9	1.609.931	0.74	2,945,961	2,390,754		
1986	۰۶۰بدرو 2,011,657	10,356,627	5.1	8,344,970	0.81	9,391,896	7,380,239		
1987	2,011,657 1,212,865	2,546,639	2.1	1,333,774	0.52	6,054,519	4,841,65		
1988		4,458,679	2.2	2,432,060	0.55	6,656,274	4,629,65		
1989	2,026,619	1,507,693	1.9	713,077	0.47	3,224,183	65,429		
1990	794,616	4,436,074	6.1	3,708,928	0.84	2,182,082	1,454,93		
1991	727,146	4,271,576	3.5	3.064,194	0.72	8,235,298	7,027,91		
1992	1,207,382	1,689,779	1.7	692,086	0.41	4,446,195	3,448,50		
1993	997, 69 3	3,052,634	2.3	1,742,965	0.57	3,886,918	2,577,24		
1994	1,309,669	1,899,870	2.4	1.123,023	0.59	2,628,555	1,851,70		
1995	776,847	2.261,757	2.3	1,298,649	0.57	3,696,067	2,732,95		
1996	963,108	3,626,402	2.7	2,260,726	0.62	4,610,042	3,244,36		
1997	1,365,676	4,465,328	4.8	3,536,238	0.79	1,902,219	973,12		
1998	929,090	5,755,063	6.1	4,805,786	0.84	2,984,568	2,035,29		
1999	949,276	7,05 8,3 33	10.1	6,361,435	0.90	1,314,779	1,117,88		
2000	696,89 9	1, 69 7,957	2.3	959,728	0.57	2,189,670	1,451,44		
2001	738,229		3.2	2,502,096	0.69	3,466,762	2,340,14		
2002	1,126,616	3,628,712 1,919,813	1.4	517,521	0.27	4,439,571	3,037,2		
2003	1,402,292	3,236,600	1.9	1,546,053	0.48	5,705,141	4,014,5		
2004	1,690,547	4,804,018	2.9	3,150,015	0.66	6,109,173	4,455,1		
2005	1,654,003	5,006,280	2.6	3,114,190	0.62	2,848,597	956,5		
2006	1,892,090	4,378,678	4.5	3,414,435	0.78	3,601,777	2,637,5		
2007	964,243		4.8	2,671,592	0.79	2.082,431	1,373,6		
2008	708,805	3,380,397	4.5	2,961,339	0.78	2,430,414	1,582,2		
2009		3,809,455	3.5	2,587,086	0.71	3,596,458	2,558,1		
2010		3,625,388	3.5	3,233,082	0.72	6,263,091	4,982,3		
2011	1,280,733	4,513,815	1.2	277,212	0.19	4,769,681	3,556,7		
2012		1,490,134	1.2	تفلامتهاء ونف	0.13	3,628,121	2,647,9		
2013						3.404.034	2,185,6		
2014						3,819,016	2,418,6		
2015						3,711,842	2,593,6		
2016						2,595,720	1,538,9		
2017	1,056,773					1,867,998	1,036,9		

Note: Shaded area indicates 1968-1978 brood years were used in earlier spawner-recruit analyses.