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BRISTOL BAY AREA

1962

FIELD SEASON REPORT

Summary of 1962 Season

With the joint prediction for the overall Bristol Bay run having demonstrated its reliability again in 1961, the plans of all concerned for this season were centered about the "most probable" return of approximately 9½ million red salmon forecast for 1962. The expected return to the individual districts exhibited wide degrees of variation from "normal" production and most operators and fishermen were prepared for an unusual degree of mobility and flexibility in their operations, since it is generally recognized that predictions for individual districts are less reliable than for the Bay as a whole.

Reference to the table of Bristol Bay license statistics for the years 1960-1962 will clearly indicate the status of the assembled effort. It will be readily observed that there was a marked reduction in the amount of non-resident gear present this season in comparison with 1961.

Because the level of the anticipated return in some districts was below the point where both a desirable escapement and a healthy fishery could be expected, the Board of Fish and Game had considered escapement goals for the guidance of the Department staff. Both minimum goals to be observed in the event that the poor expectations materialized and goals representing the range desired under more favorable circumstances were discussed and approved. A summary of the prediction and the 1962 management objectives will be found at the end of this narrative. It is followed immediately by a preliminary listing of the catch and escapement obtained during the past season. Discrepancies between figures shown in the accompanying summary and those listed for the benefit of the Board in a similar sheet last December are primarily the result of revisions in the prediction necessitated by (1) the discovery (in the spring of 1962) of an error in the original prediction for the Egegik district and (2) refinements in the Nushagak district.

Some minor changes in the preliminary catch figures can also be expected when the I B M processing of the fish tickets is completed. The escapement figures for the Naknek & Kvichak rivers can also be expected to increase when interpolation is completed for periods during which turbid water was experienced. The present listed escapements for these rivers can be considered as minimums.

NAKNEK-KVICHAK DISTRICT

Management preparations here included for the first time the use of a test-fishing vessel in the waters immediately outside the fishing area. This, coupled with the test-fishing operation above the inner Kvichak boundary, permitted the staff to ascertain the presence and follow the movement of each significant body of fish to appear in the area. Reference to the sheet indicating the fishing periods in this district, together with those listing the district catches and Kvichak River escapement will reveal the manner in which fishing was carefully controlled until escapement goals had been met. The size of the overall run to the district closely approximated the magnitude predicted and the fishery was allowed to harvest a portion from each major school. The final division between catch and escapement permitted realization of a maximum harvest while obtaining escapements within the desired range in the two major rivers of the district.

Credit for obtaining the good Naknek River escapement is due to the regulation creating a Naknek Section, which was adopted by the Board last year, thus enabling a large degree of separate management for this river. The restriction on drift fishing within this Section was not lifted until July 10. Without such protection, only a very unsatisfactory seeding would have been secured here.

As forecast in the prediction, the run this year to the Alagnak (Branch) River was at a reduced level.

This years run was again noteworthy for its early peak and rapid decline.

NUSHAGAK DISTRICT

Runs to all spawning systems in the Nushagak district were expected to be very poor. Early fishing appeared to bear out the prediction, with some indications that the return might be even less than forecast. Accordingly, fishing was restricted to one day during the first week of the traditional red salmon season.

Because of the restricted fishing time, many transfers were made to other districts. When a good run of fish materialized in the second week, the small fleet remaining enjoyed exceptionally good fishing. Escapement into Wood River was obtained from the peak of the run and few further restrictions were necessary.

Unfortunately, the Wood River return was the only one to exceed the prediction. Runs to all other Nushagak systems were even less than expected. Biologically desirable escapement was attained only in the Wood River system.

The Nushagak run may be considered large only in that it exceeded expectations. Generally satisfactory catches by Nushagak fishermen were possible only because of the small fleet present at the peak of the run.

EGEGIK DISTRICT

Because of the extremely low prediction, the local recommendation for a sharply-curtailed fishing area confined to set-netting was placed in effect there this year. Though the prediction was subsequently revised upward from 400,000 to 700,000, this did not provide any reason for altering the nature of intended management prior to the season, since the latter figure still did not exceed the minimum desired escapement range.

Contrary to expectations, the run showed excellent strength from the very beginning, with heavy escapement being realized along with generous catches. Because of this indication that a normal run was developing, the fishing area was expended somewhat and drift gear was permitted to enter during the period which commenced on June 30. The fishery itself then continued in an orderly fashion with alternating openings and closures, until the desired escapement had been obtained.

Extremely vocal objection to the entry of drift gear was expressed by a minority of set-netters during the peak of the season. A large percentage of those involved had been recruited into this fishery from other areas. That any operator or fisherman would follow such a program in the face of a year in which all indications pointed to the likelihood that any catch allowed would be taken at the expense of the escapement seems difficult to believe yet this was the case. Approximately 140 sites were originally occupied on contrast to the 60 which had been expected. (In 1961, 51 set-netters were registered here, 29 of whom were Egegik residents.) It was most fortunate that the run exceeded the prediction and developed along normal lines. It should be noted that 140,000 fish of all species, or three times as many as the Board originally indicated were allowable for minimum subsistence requirements, had been taken prior to the staff's action in opening the area to drift fishery.

The 1962 return exceeded the average for the preceding ten year period.

This year marked the fourth consecutive time that the Egegik River has received an escapement at or above our present minimum desired level. In this connection it is interesting to note a comment contained in the Department's Annual Report for 1958, following two years of dangerously low escapement. Speaking of these low years, it was stated:

"Improved and consistent returns cannot be anticipated in these systems until stronger year classes are firmly re-established. A method must be found for determining and insuring the attainment of optimum escapement goals."

It is the opinion of the staff that the flexibility of management which the staff has been permitted by the Board to exercise in the past seasons and which is embodied in its recommendations for the 1963 Regulations constitutes the necessary method for determining and insuring the best possible management for the greatest benefit of the resource and the people of Alaska.

UGASHIK DISTRICT

While a healthy return has been forecast for this river, the number of fish which appeared was less than 1/3 of the amount predicted. In spite of this wide difference, the fishery was harshly restricted and the final escapement surpassed the disappointing catch, minimizing what otherwise could have been a damaging blow to the cycle.

As was the case at Egegik, the information yielded by the test-fishing operation proved to be vital in arriving at management decisions in this district.

TOGLAK DISTRICT

Inasmuch as a smaller-than-usual run was expected and fishing effort had increased, the usual five-day-per-week fishing schedule was reduced early in the season to four days. When escapement counts failed to rise as expected, fishing time was reduced even further, resulting in some improvement. The final escapement total approximated the lower limits of the Department's desired range for years of low return but a further increase of effort here in future low years may result in economic hardship as more drastic restrictions will have to be employed.

The Department's knowledge of the Togiak district is steadily growing but the present program is unable to cover more than the bare essentials. The staff looks forward to the time when this district may be accorded additional attention.

CONCLUSION

Several points are noteworthy in summarizing the 1962 season.

The accuracy of the overall forecast for the Bristol Bay run, which more than justified the faith placed in it, points unmistakably to the value of the extensive research recently concentrated on it. The wide variation, in several instances, from the predictions for individual districts, conversely points up the need for additional efforts here.

In the view of the staff, the outstanding accomplishment the 1962 season was the division of the run to each district into components of catch and escapement in such a way that the escapement goals of the Department were met, insofar as possible, while giving full weight and attention to the economic health of the fishery. The close agreement between the desired goals previously stated and the escapements realized is the best possible evidence that management policy and program is headed in a direction which is producing both present and future benefits for the people of Alaska.

It should also be noted that while this was hailed in many circles as a disaster year for Bristol Bay, the final case pack placed third in size among the management districts of the state and was a strong second in value in competition with record-breaking runs in other districts. Wholesale value of the Bristol Bay fishery exceeded \$16,000,000.00.

BRISTOL BAY LICENSE STATISTICS, 1960-1962

	<u>1960</u>	<u>1961</u>	<u>1962</u>
COMMERCIAL FISHING LICENSES			
Resident	1,422	2,112	1,993
Non-resident	<u>745</u>	<u>1,506</u>	<u>933</u>
Total	2,167	3,618	2,926
VESSEL LICENSES			
Fishing vessels			
Resident	804	1,058	1,031
Non-resident	<u>350</u>	<u>665</u>	<u>386</u>
Total	1,154	1,723	1,417
Scows			
Resident	22	14	30
Non-resident	<u>28</u>	<u>46</u>	<u>19</u>
Total	50	60	49
GEAR LICENSES (1)			
Resident 150 fathom drift	561	674	715
Resident 100 fathom drift	89	106	76
Resident 50 fathom set-net	<u>345</u>	<u>496</u>	<u>619</u>
Total Resident	995	1,276	1,410
Non-resident 150 fathom drift	342	600	383
Non-resident 100 fathom drift	22	38	17
Non-resident 50 fathom set-net	<u>0</u>	<u>10</u>	<u>20</u>
Total non-resident	364	648	420
TOTAL GEAR	1,359	1,924	1,830

(1) Number of licenses, not units of gear.

SUMMARY OF 1962 BRISTOL BAY ESCAPEMENT GOALS

	<u>Predicted Return</u>	<u>1962 Goal</u>	<u>Desired Range</u>
<u>Naknek-Kvichak District</u>			
Kvichak	5,465,000	2,500,000	2,500,000-3,500,000
Naknek	700,000	400,000	750,000-1,250,000
Alagnak (Branch)	135,000	60,000	250,000- 750,000
Total	6,300,000	2,960,000	3,500,000-5,500,000
<u>Nushagak District</u>			
Wood River	750,000	450,000	700,000- 800,000
Igushik River	145,000	60,000	150,000- 250,000
Tikchik Lakes	90,000	30,000	50,000- 150,000
Snake River	5,000	5,000	5,000- 30,000
Nushagak-Mulchatna	10,000	15,000	15,000 - 40,000
Total	1,000,000	560,000	920,000-1,270,000
<u>Egegik District</u>	700,000	350,000	750,000-1,150,000
<u>Ugashik District</u> (Including Mother Goose Lake)	1,700,000	750,000	500,000-1,000,000
<u>Togiak District</u> (Including Kulukak Section)	*	80,000	80,000- 150,000
Bristol Bay Total	9,700,000*	4,700,000	5,750,000-9,070,000

*

No specific prediction for the Togiak district has yet been included in the joint Bristol Bay prediction. A smaller-than-usual run was expected, however.

PRELIMINARY
BRISTOL BAY RED SALMON
CATCH AND ESCAPEMENT, 1962

	<u>Escapement</u>		<u>Catch</u>	<u>Total Run</u>
	<u>System</u>	<u>District</u>		
Naknek-Kvichak Dist.				
Kvichak	2,580,572			
Naknek	722,062			
Alagnak	<u>90,630</u>			
		3,393,264	2,357,336	5,750,600
Nushagak District				
Wood River	873,888			
Igushik	15,660			
Tikchik Lakes	37,592			
Snake River	1,760			
Nushagak-Mulchatna	<u>8,500</u>			
		937,400	1,432,079	2,369,479
Egegik District		1,027,482	640,874	1,668,356
Ugashik District				
Ugashik Lakes	255,426			
Mother Goose	<u>33,250</u>			
		288,676	251,015	539,691
Togiak District				
Togiak Lakes	47,352			
Togiak Tributaries	14,600			
Kulukak Section	<u>9,600</u>			
		71,552	97,687	169,239
<hr/>				
Total Bristol Bay		5,718,374	4,778,991	10,497,365

PRELIMINARY NAKNEK-KVICHAK DISTRICT CATCHES - 1962

<u>Period</u>	<u>Reds</u>	<u>Kings</u>	<u>Chums</u>	<u>Pinks</u>	<u>Cohoes</u>	<u>Total</u>
Thru June 23	27,077	3,750	3,378			34,205
June 25 - 26	299,061	1,087	7,867			308,015
June 30	328,592	442	5,553			334,587
July 5	482,422	383	11,950			494,755
July 7	313,591	261	16,322			330,174
July 9	208,163	205	20,428			228,796
July 10 - 14	571,330	810	47,226	7		619,373
July 15 - 21	117,663	713	58,344	4,261	1,121	182,102
July 23 - 28	8,017	129	19,689	13,293	5	41,133
July 29 - Aug. 4	209	2	175	1,393	43	1,822
Aug. 6 - 11						
TOTAL	2,356,125	7,782	190,932	18,954	1,169	2,574,962

PRELIMINARY NUSHAGAK DISTRICT CATCHES - 1962

<u>Period</u>	<u>Kings</u>	<u>Reds</u>	<u>Chums</u>	<u>Pinks</u>	<u>Coho</u> s	<u>Total</u>
Jun 4 - 9	11,494	4	134			11 532
Jun 11 - 16	14,916	369	1,703	1		16 989
Jun 18 - 23	20,799	22,936	37,836	3		81 574
Jun 23 - 26	8,839	36,049	55,166	2		100 056
Jul 2 - 3	2,128	443,210	23,002	20		468 360
Jul 5 - 6	1,071	409,134	51,081	78		461 364
Jul 7 - 14	1,035	442,117	76,442	35,312	23	554 929
Jul 15 - 21	555	62,906	26,928	418,587	1,487	510 463
Jul 23 - 28	170	12,077	7,923	408,013	8,698	436 881
Jul 30 - Aug. 4	30	3,274	637	44,058	10,660	58 659
Aug 6 - 11	4	3	31	593	3,447	4 078
Aug 13 - 18	<u>1</u>	<u> </u>	<u>3</u>	<u>65</u>	<u>4,170</u>	<u>4 239</u>
TOTAL	61,042	1,432,079	280,886	906,732	28,485	2709 224

PRELIMINARY EGEKIK DISTRICT CATCHES - 1962

<u>Period</u>	<u>Reds</u>	<u>Kings</u>	<u>Chums</u>	<u>Pinks</u>	<u>Cohoes</u>	<u>Total</u>
Thru June 23	37,750	1,246	4,676			43,672
June 25 - 26	35,844	126	1,441			37,411
June 28	37,202	89	687			37,978
June 29 - 30	29,316	22	453			29,791
June 30 - 7/1	112,565	121	1,753			114,439
July 2	67,231	107	1,323			68,661
July 4	110,881	44	2,920			113,845
July 7 - 8	100,977	76	3,206			104,259
July 10 - 14	72,520	100	4,022		11	76,653
July 14 - 21	35,727	83	3,166	4		38,980
July 23 - 28	736	2	77			815
July 30 - Aug. 4	75		15	22	274	386
Aug. 6 - 11	<u>50</u>	<u> </u>	<u>10</u>	<u>1</u>	<u>342</u>	<u>403</u>
TOTAL	640,874	2,016	23,749	27	627	667,293

PRELIMINARY UGASHIK DISTRICT CATCHES - 1962

<u>Period</u>	<u>Reds</u>	<u>Kings</u>	<u>Chums</u>	<u>Pinks</u>	<u>Cohoes</u>	<u>Total</u>
Thru June 23	9,144	2,289	1,555			12,988
June 25 - 26	8,414	263	2,032			10,709
July 2 - 3	65,806	164	5,043			71,013
July 6	56,465	72	2,239			58,776
July 10	59,230	48	3,786			63,064
July 12	20,272	28	1,329			21,629
July 18 - 21	25,907	64	4,834	196		31,001
July 23 - 28	3,079	3	1,031			4,113
July 30 - Aug. 4	2,339	6	1,249			3,594
Aug. 6 - 11	<u>309</u>	<u>1</u>	<u>176</u>	<u> </u>	<u>139</u>	<u>625</u>
TOTAL	250,965	2,938	23,274	196	139	277,512

PRELIMINARY TOGIAK DISTRICT CATCHES - 1962

<u>Period</u>	<u>Kings</u>	<u>Reds</u>	<u>Chums</u>	<u>Pinks</u>	<u>Cohoes</u>	<u>Total</u>
June 4 - 9	268	11				279
June 11 - 16	872	80	79			1,031
June 18 - 23	1,928	2,501	2,488	8		6,925
June 25 - 30	2,538	15,014	29,009	63		46,624
July 2 - 7	2,119	20,678	47,559	82		70,438
July 9 - 14	922	32,441	55,040	180		88,583
July 16 - 21	97	15,729	20,542	402	2	36,772
July 23 - 28	28	8,461	5,868	602	5	14,964
July 30 - Aug. 4	5	2,772	561	126	2	3,466
Aug. 6 - 11	_____	_____	28	19	10	57
TOTAL	8,777	97,687	161,174	1,482	19	269,139

Daily Red Salmon Counts--Kvichak River Escapement
1958 - 1962

Date	1958	1959	1960	1961	1962
6/21		308	402		
6/22		623	135	120	584
6/23	0	307	312	120	486
6/24	0	99	90	120	708
6/25	0	212	--	264	276
6/26	24	941	18	3,378	780
6/27	29	416	186	51,192	5,922
6/28	58	1,133	2,322	88,884	5,670
6/29	515	440	1,776	134,934	3,366
6/30	582	1,098	1,998	122,316	5,724
7/ 1	174	588	9,747	78,510	29,868
7/ 2	1,485	384	155,394	33,804	153,798
7/ 3	960	1,152	221,586	270,726	123,996
7/ 4	153	7,872	361,572	232,488	43,758
7/ 5	129	49,612	384,012	375,048	91,842
7/ 6	48	51,288	359,946	470,478	242,700
7/ 7	29,328	48,780	586,728	420,846	509,478
7/ 8	161,109	30,758	644,058	261,840	413,238
7/ 9	148,760	12,524	702,966	146,634	537,216
7/10	44,945	19,097	727,644	72,684	329,652
7/11	24,802	32,627	1,075,212	169,254	50,370
7/12	3,575	21,285	1,332,329	128,100	2,424
7/13	2,241	52,818	1,046,130	200,028	2,526
7/14	3,966	88,226	972,978	161,700	4,014
7/15	43,458	90,994	943,860	125,376	2,538
7/16	47,559	55,343	1,001,322	48,552	2,904
7/17	5,946	23,398	1,116,582	14,634	5,514
7/18	1,530	16,093	1,262,790	24,546	3,978
7/19	879	17,357	928,770	26,826	1,392
7/20	1,017	13,225	529,158	10,848	360
7/21	2,673	9,140	115,725	5,166	684
7/22	834	5,637	39,345	8,628	282
7/23	2,130	5,631	36,324	6,393	714
7/24	2,274	3,801	22,457	4,038	942
7/25	999	1,514	9,678	2,760	570
7/26	357	2,119	8,808	2,508	870
7/27	543	2,189		960	1,140
7/28	938	2,592		642	396
7/29	384	1,800		264	204
7/30	381	390		180	
7/31				60	
8/ 1		6,189*	27,640*		
TOTAL	534,785	685,615	14,630,000	3,705,849	2,580,884

* Estimated Late Season Migration

Daily Red Salmon Counts--Branch (Alagnak) River Escapement
1957-1962

Date	1957	1958	1959	1960	1961	1962
6/21						
22						
23						
24						
25						
26				6	--	
27			--	0	735	
28	--		375	6	2,214	
29	66		1,128	0	8,295	
30	694	--	1,143	54	4,968	150
7/ 1	1,521	234	258	2,652	276	444
2	1,586	234	870	72,018	150	5,340
3	430	426	1,350	120,792	3,102	3,252
4	1,266	48	27,198	37,926	21,402	3,643
5	203	0	68,544	13,170	11,364	4,788
6	997	1,044	68,650	50,700	5,292	27,870
7	2,640	4,320	82,179	162,516	588	24,060
8	1,422	17,646	25,017	199,386	324	11,994
9	3,378	23,682	19,455	185,598	216	2,718
10	10,842	9,444	28,791	134,592	372	1,752
11	18,174	1,830	3,174	81,912	462	672
12	28,470	1,236	53,655	32,910	1,770	786
13	14,205	390	96,355	22,860	7,998	252
14	4,912	5,484	124,545	15,582	10,512	72
15	4,668	19,146	112,694	23,706	2,880	168
16	7,090	4,518	24,462	45,150	804	900
17	3,114	1,854	6,734	20,610	144	864
18	1,356	678	26,973	8,598	906	606
19	5,562	636	20,553	3,204	1,344	222
20	3,384	168	10,443	1,668	408	24
21	1,050	918	5,040	2,682	474	6
22	1,228	444	4,365	1,182	522	36
23	1,424	66	1,623	570	840	6
24	3,846	36	759	276	438	
25	1,140	114	2,331	180	714	
26	1,104	12	4,404	12	144	
27	372	0	1,884	12	48	
28	204	18	141	Tower discont.	60	
29	247	24	216	--	144	
30	--	--	132	--	126	
TOTAL	126,595	94,650	825,421	1,240,53-	90,030	90,630

Daily Rec Salmon Counts--Naknek Rive. Escapement
1958 - 1962

Date	1958	1959	1960	1961	1962
6/21		18			
6/22		858			
6/23		156			
6/24		2,688			
6/25	0	1,182	0		6
6/26	0	594	0	11,166	7,122
6/27	174	7,437	0	13,044	1,578
6/28	18	7,113	0	4,044	1,434
6/29	474	429	582	2,028	10,974
6/30	660	7,542	8,376	1,296	74,286
7/1	258	22,875	89,502	1,218	20,214
7/2	3,108	68,895	31,890	1,836	10,956
7/3	4,296	177,099	11,322	99,042	20,112
7/4	9,456	166,311	20,058	12,258	21,666
7/5	8,352	177,054	9,642	10,034	293,712
7/6	59,016	132,645	147,228	4,266	128,514
7/7	56,676	51,144	95,916	1,674	115,938
7/8	36,690	80,364	62,976	5,472	6,024
7/9	20,244	119,436	90,828	5,592	2,412
7/10	11,550	43,386	36,144	13,668	1,116
7/11	5,364	103,233	15,828	34,302	1,182
7/12	3,306	460,839	19,698	52,218	1,194
7/13	4,032	284,553	20,904	27,228	2,142
7/14	23,718	112,880	11,568	10,260	954
7/15	8,592	32,440	39,972	3,000	66
7/16	2,448	27,036	36,444	5,556	792
7/17	2,316	47,244	10,830	8,664	372
7/18	2,136	26,973	14,088	5,922	216
7/19	2,430	19,132	9,432	684	18
7/20	2,442	6,396	6,810	552	42
7/21	2,610	6,016	6,660	984	24
7/22	1,908	6,256	4,092	552	
7/23	1,488	7,804	3,432	336	
7/24	1,566	6,684	2,928	2,748	
7/25	882	5,824	2,220	1,674	
7/26	774	3,432	2,622	462	
7/27	354	1,860	2,844	324	
7/28	318	1,988	2,496	438	
7/29	270	1,112	2,535	324	
7/30	36	2,104	2,901	204	
7/31	108	1,612	1,356	429	
8/1	48		1,194	354	
8/2	0		822	84	
8/3			1,005	141	
8/4			756		
8/5-8/19			480		
TOTAL	278,118	2,230,000	828,381	351,078	723,066

Daily Red Salmon Counts--Wood River Escapement
1957-1962

Date	1957	1958	1959	1960	1961	1962
6/19				114		
20		825	57	192		
21	0	1,365	480	96		6
22	656	2,376	348	132		162
23	720	6,747	996	211		84
24	1,194	5,541	1,452	512		96
25	986	1,512	1,176	1,296	30	228
26	900	2,247	3,048	10,013	1,104	1,866
27	1,284	2,172	16,986	8,208	4,224	1,014
28	2,298	902	105,804	4,116	2,874	786
29	3,216	1,119	32,752	4,770	2,805	1,662
30	9,062	17,681	62,766	1,488	3,006	1,056
7/ 1	15,725	81,246	85,542	1,443	96	1,956
2	6,138	40,935	115,712	1,830	9,030	2,094
3	3,752	12,749	340,872	5,844	15,438	90,558
4	4,338	8,586	201,870	2,826	24,594	112,296
5	2,541	12,295	184,740	6,474	23,433	248,742
6	3,660	103,860	163,254	98,460	30,588	230,274
7	4,011	189,830	85,116	232,140	30,474	54,960
8	3,700	129,855	29,682	199,596	21,510	23,022
9	7,754	80,631	23,802	167,094	16,728	23,922
10	7,908	30,149	23,292	103,746	30,924	24,036
11	81,337	21,314	13,758	41,190	26,022	8,562
12	62,092	14,555	116,058	15,600	75,009	7,512
13	29,366	74,523	250,614	13,188	77,736	3,420
14	12,453	33,249	129,270	15,708	43,734	1,944
15	4,965	24,648	52,236	16,728	8,250	4,554
16	5,086	7,823	14,088	17,418	5,682	12,288
17	3,038	4,391	11,334	16,872	3,492	3,552
18	1,977	3,023	24,612	9,120	1,209	714
19	2,563	4,214	27,738	6,444	1,176	462
20	2,211	7,926	13,242	4,392	507	666
21	3,710	8,208	5,976	1,524	186	480
22	2,995	6,756	4,680	1,376	0	324
23	898	2,652	3,912	368	24	978
24	617	2,232	4,266	760	54	1,116
25	839	1,694	1,515	2,312	486	726
26	1,085	1,533	2,718	1,920	186	696
27	2,617	1,038	912	552	54	534
28	1,350	1,500	1,575		54	1,920
29		1,637	552		18	3,726
30		1,932	54			708
31		1,905	1,836			114
8/ 1		1,788				72
2		654				
TOTAL	299,852	961,818	2,211,793	1,016,073	460,737	873,888

Daily Red Salmon Counts--Igushik River Escapement
1958-1962

Date	1958	1959	1960	1961	1962
6/22		492			0
23		897		192	0
24		804		144	0
25		1,725	0	162	0
26	1,422	1,110	30	108	0
27	1,596	1,416	48	348	0
28	306	1,593	726	1,812	0
29	2,544	4,281	4,008	5,880	0
30	1,770	9,561	9,048	9,234	204
7/ 1	2,400	10,977	2,892	12,270	306
2	3,108	17,280	4,452	14,220	312
3	1,668	28,878	6,474	16,548	564
4	1,746	32,538	8,196	14,070	348
5	5,844	38,654	11,370	18,516	546
6	2,364	55,998	14,442	20,556	708
7	3,810	38,034	13,878	21,030	2,286
8	4,896	35,796	14,352	26,946	3,762
9	10,500	45,915	18,702	20,568	2,628
10	16,410	37,461	34,674	17,946	1,752
11	11,310	31,578	34,812	17,886	720
12	1,932	29,839	45,426	13,980	834
13	3,540	15,042	42,780	11,520	372
14	4,242	11,418	31,314	10,038	90
15	6,444	19,893	25,434	10,212	42
16	3,240	20,475	20,064	5,760	42
17	3,324	16,257	11,892	6,138	54
18	3,768	21,822	17,322	3,564	72
19	2,904	23,571	16,686	2,730	6
20	1,170	22,644	13,872	1,884	0
21	1,338	18,861	13,080	2,130	0
22	696	15,906	12,642	1,002	12
23	978	6,129	12,108	1,146	0
24	648	5,520	11,958	36	Terminate
25	372	3,719	8,628	684	Count
26	270	2,961	6,582	1,110	
27	78	1,306	6,156	540	
28	54	4,635	3,930	390	
29	120	2,946	4,152	630	
30	66	1,706	3,384	444	
31	0	1,734	2,094	756	
8/ 1	0	1,069	2,340	414	
2	--	360	1,590	558	
3		957	1,296	150	
4		--	1,260	--	
5			720		
6					
			Tower discont.		
TOTAL	107,478	643,788	494,814	294,252	15,660

Daily Red Salmon Counts-- Nuyakuk River Escapement
1959--1962

Date	1959	1960	1961	1962
7/ 4	0			
5	498			
6	492			
7	2,442	144	1,896	942
8	3,363	594	9,192	2,148
9	3,213	888	10,698	1,740
10	5,637	1,848	7,044	1,752
11	6,321	8,430	6,864	6,582
12	3,597	37,290	3,462	7,098
13	3,849	38,952	2,544	5,844
14	2,526	28,830	5,508	3,600
15	2,208	12,330	6,150	3,372
16	1,656	4,896	4,980	1,866
17	930	5,328	6,642	834
18	384	3,636	5,922	996
19	399	1,488	3,840	414
20	1,533	300	2,088	324
21	1,485	156	756	120
22	1,344	78	426	42
23	1,371	18	372	42
24	1,326	0	354	18
25	675	0	222	24
26	639	6	162	24
27	411	6	114	12
28	381	12	150	12
29	411	36	138	18
30	249	0	66	6
31	291	12	66	12
8/ 1	324	18	84	6
2	354	36	48	12
3	225	0	--	0
4	117	6		6
5	96	0		6
6	114	0		0
7	--	0		6
8		0		0
9		12		0
10		36		0
11		30		0
12		0		0
13		6		12
14		6		
15		18		
16		0		
17		6		
18		6		
19		6		
20		6		
21		30		
22		0		
23		--		
TOTAL	48,861	145,508	79,788	37,890

Daily Pink Salmon Counts--Nuyakuk River Escapement
1960--1962

Date	1960	1962
7/14	0	0
15	0	0
16	0	702
17	0	1,488
18	672	2,268
19	1,434	1,884
20	1,991	22,572
21	2,262	59,526
22	1,143	46,734
23	747	10,506
24	639	46,878
25	840	25,824
26	543	12,858
27	1,290	10,674
28	1,563	19,416
29	3,306	50,382
30	2,181	68,628
31	2,367	29,706
8/ 1	2,073	10,554
2	7,098	6,588
3	2,196	2,646
4	2,121	6,078
5	18,372	7,164
6	3,213	10,674
7	7,914	10,650
8	4,439	3,906
9	3,942	1,764
10	11,736	1,360
11	19,005	5,076
12	8,079	7,374
13	13,398	2,202
14	5,040	1,680
15	5,181	1,566
16	2,406	1,386
17	2,580	750
18	2,922	462
19	1,692	732
20	1,116	588
21	810	618
22	48	Terminate counts
<hr/> - TOTAL	<hr/> 146,359	<hr/> 493,863

Daily Red Salmon Counts--Snake River Escapement
1960--1962

Date	1960	1961	1962
6/24	0		
25	0		0
26	0		0
27	81	0	0
28	75	0	0
29	0	30	0
30	54	0	8
7/ 1	0	0	4
2	24	6	0
3	0	0	0
4	52	0	0
5	0	0	36
6	144	0	80
7	336	0	40
8	1,124	0	40
9	2,824	312	424
10	3,140	32	580
11	2,368	8	24
12	1,408	44	60
13	1,024	760	84
14	840	1,792	60
15	472	584	8
16	564	464	48
17	236	192	72
18	32	308	52
19	924	112	36
20	500	108	32
21	264	0	12
22	84	0	20
23	20	28	32
24	8	12	8
25	0	8	0
26	Tower discont.	4	0
		52	
TOTAL	16,598	4,856	1,760

DAILY RED SALMON COUNTS - EGEGLIK RIVER ESCAPEMENT
1957 - 1962

Date	1957	1958	1959	1960	1961	1962
6/30		16,212	4,800			
7/ 1	9,960	3,606	4,506	0		26,394
2	20,136	7,632	0	0	11,286	38,604
3	3,042	7,524	0	0	58,308	76,638
4	7,524	13,644	80	0	17,826	46,206
5	8,848	30,198	20,348	1,416	17,100	14,124
6	5,632	31,872	15,684	108	49,908	59,994
7	7,552	27,492	98,920	92,346	74,454	182,160
8	13,656	44,490	127,512	62,058	65,562	119,448
9	20,826	18,606	90,436	17,778	119,526	112,512
10	44,664	8,358	96,960	154,728	62,790	79,254
11	85,639	12,042	88,904	193,404	27,414	95,502
12	64,132	5,316	17,152	310,710	22,158	93,972
13	35,985	1,176	2,216	267,738	9,258	15,618
14	8,722	2,094	30,132	68,832	39,228	10,176
15	17,179	408	58,544	216,763	9,390	17,856
16	21,302	294	86,392	165,102	13,446	26,628
17	361	3,534	51,820	137,442	19,626	10,494
18	3,783	3,132	106,704	33,792	18,348	1,482
19	4,596	924	21,840	43,890	23,220	270
20	3,063	1,308	51,152	20,136	17,658	114
21	120	288	25,540	12,108	4,944	36
22	1,169	1,362	21,352	402	588	
23	681	1,302	8,940	6	2,472	
24	1,205	264	5,596	0	9,258	
25	801	432	1,156	0	3,564	
26	154	570	4,624	0	1,404	
27	295	1,266	2,404	Discont.	450	
28	42	432	6,544		612	
29	42	30	1,412		366	
30	96	174	741		228	
31		198	48		378	
8/ 1		114	0		294	
2		60			246	
3					132	
4					126	
TOTAL	391,207	246,354	1,072,459	1,789,764	701,538	1,027,482

**Daily Red Salmon Counts - Ugashik River Escapement
1957 - 1962**

Date	1957 ^{2/}	1958 ^{2/}	1959 ^{2/}	1960 ^{2/}	1961 ^{2/}	1962
7/ 1				0		
2				0		
3	0			0		27 38
4	0	4,992		0		606
5	361	15,012		0		90
6	0	26,514		0	1 110	18
7	296	39,594		0	1,392	18
8	10	7,938	0	0	2,328	4 986
9	126	15,726	2,535	0	9 174	20 460
10	8,514	18,540	29,589	0	5,106	9 498
11	5,754	20,226	25,845	30	1,560	6 966
12	2,994	15,726	20,646	45,672	3,744	5 280
13	12,528	11,202	12,336	200,282	1,980	1 464
14	13,056	25,170	5,715	299,628	38,335	144
15	19,434	8,712	2,712	220,122	97,302	18
16	19,771	10,740	19,869	59,250	39,786	133,980
17	33,420	11,994	5,745	38,310	28,962	49,380
18	28,908	6,774	11,277	261,470	24,042	4 652
19	10,530	7,110	16,806	508,176	39,972	2,136
20	4,208	8,898	4,608	216,636	4,050	5 112
21	7,215	2,010	6,477	179,238	10,584	834
22	2,560	3,600	7,701	146,988	9,708	888
23	3,292	2,586	6,192	53,256	10,410	294
24	2,880	1,620	7,707	8,628	5,655	480
25	8,394	1,572	4,460	17,970	3,795	42
26	5,988	798	4,984	5,592	930	1,740
27	1,096	1,608	5,508	5,214	726	546
28	1,730	1,476	1,863	7,146	924	228
29	4,482	1,164	1,719	1,842	630	678
30	448	1,674	2,213	6,702	1,314	300
31	6,509	1,416	1,335	3,324	1,380	762
8/ 1	2,184	2,364	2,002	3,012	940	198
2	1,156	570	2,269	2,448	858	360
3	1,396	408	1,655	1,266	468	192
4	1,132	144	1,393	444	543	84
5	513	516	1,521	1,554	153	174
6	832	522	801	Tower Discort	300	30
7	1,864	516	1,320		285	
8	526	108	422		162	
9	695					
TOTAL	214,802	279,546	219,228	2,304,200*	348,639	255,426

* Plus 37,200 estimated in Mother Goose system. Makes a total of 2,341,400.

Daily Red Salmon Counts--Togiak River Escapement
1960--1962

Date	1960	1961	1962
7/ 3		0	0
4		42	6
5		84	54
6		0	156
7		876	66
8		1,050	492
9	219	3,348	1,626
10	3,738	4,818	972
11	4,875	4,194	2,448
12	6,234	3,696	3,486
13	7,728	3,294	5,334
14	8,739	4,374	3,720
15	7,281	5,736	3,240
16	7,680	6,162	2,478
17	6,852	4,176	2,568
18	5,190	3,078	2,754
19	7,050	3,942	2,868
20	6,366	6,126	948
21	5,862	5,874	510
22	5,112	3,084	804
23	5,346	2,328	1,290
24	5,190	1,164	942
25	4,680	1,368	414
26	2,598	1,686	546
27	3,672	2,208	1,626
28	4,422	2,970	1,092
29	6,510	4,098	1,470
30	5,004	2,484	738
31	3,378	1,662	144
8/ 1	1,608	1,380	432
2	3,522	966	324
3	5,418	2,166	564
4	5,244	1,866	708
5	5,070	1,134	396
6	4,926	1,638	72
7	4,710	786	384
8	3,300	383	336
9	2,088	504	384
10	1,878	144	240
11	1,320	252	510
12	Tower Discont.	192	216
13			378
14			120
15			84
16			0
17			12
TOTAL	162,810	95,454	47,352

Fishing Periods - 1962

Naknek-Kvichak District

Date

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 24	25 6 AM	26 6 AM	27	28	29	30 8 AM 8 PM
July 1	2	3	4	5 12 noon	6 12 midnight	7 12 midnight
8 12 midnight	9 3 AM 3 PM	10 5 AM	11	12	13	14
15	16	17	18	19	20	21 9 AM
22	23 9 AM	24	25	26	27	28 9 AM
29	30 9 AM	31	August 1	2	3	4 9 AM

Shaded area indicates closed periods.

(Note) The Naknek section was closed to drift gill net until 5:00 A.M., Tuesday, July 10, 1962.

Fishing Periods - 1962

Nushagak District

Date

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 24	25 6 AM	26 6 AM	27	28	29	30
July 1	2 12 noon	3 12 noon	4	5 5 AM	6 6 PM	7 6 AM
8	9	10	11	12	13	14
15	16	17	18	19	20	21 9 AM
22	23 9 AM	24	25	26	27	28 9 AM
29	30 9 AM	31	August 1	2	3	4 9 AM

Shaded area indicates closed periods.

Fishing Periods - 1962

Egegik District

Date

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 24	25 6 AM	26 6 AM	27	28 6 AM 6 PM	29 6 AM	30 6 AM 6 PM
July 1 6 PM	2 9 AM 9 PM	3	4 11 AM 9 PM	5	6	7 12 noon
8 12 noon	9	10 5 AM	11	12	13	14
15	16	17	18	19	20	21 9 AM
22	23 9 AM	24	25	26	27	28 9 AM
29	30 9 AM	31	August 1	2	3	4 9 AM

Shaded area indicates closed periods.

(Note) The Egegik District was closed to drift nets from 9:00 A.M. Saturday, June 23 to 6:00 P.M., Saturday, June 30, 1962.

Fishing Periods - 1962

Uqashik District

Date

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 24	25 9 AM	26 9 AM	27	28	29	30
July 1	2 6 AM	3 6 AM	4	5	6 12 noon	7 9 PM
8	9	10 5 AM 6 PM	11	12 6 AM 6 PM	13	14
15	16	17	18 6 AM	19	20	21 9 AM
22	23 9 AM	24	25	26	27	28 9 AM
29	30 9 AM	31	August 1	2	3	4 9 AM

Shaded area indicates closed periods.

Fishing Periods - 1962

Toqiak District

Date	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 24		25 9 AM	26	27	28	29	30 9 AM
July 1		2 9 AM	3	4	5	6 9 AM	7
8		9 9 AM	10	11	12	13 9 AM	14
15		16 9 AM	17	18	19 9 PM	20	21
22		23 9 AM	24	25	26 9 PM	27	28
29		30 9 AM	31	August 1	2	3	4 9 AM

Shaded area indicates closed periods.

(Note) The Osviak and Matogak sections were open continuously from 9:00 A.M., July 2, to 9:00 A.M., July 28. The Kulukak, Ungalikthluk, and Cape Pierce sections were open from 9:00 A.M. Monday to 9:00 A.M. Saturday throughout the season.

BRISTOL BAY CASE PACKS BY SPECIES
(1951 - 1962)

<u>YEAR</u>	<u>REDS</u>	<u>PINKS</u>	<u>CHUMS</u>	<u>COHOS</u>	<u>KINGS</u>	<u>TOTAL</u>
1951	337,848	0	18,336	3,647	4,598	364,429
1952	702,166	1,258	31,238	694	11,301	746,657
1953	460,886	8	37,666	280	8,065	506,905
1954	341,133	4,710	33,721	2,848	9,052	391,464
1955	312,284	90	20,113	1,541	12,859	346,887
1956	529,726	3,920	30,899	4,441	9,902	578,888
1957	471,979	0	31,074	5,220	20,562	528,835
1958	241,099	60,189	42,143	12,694	25,956	382,081
1959	332,713	25	42,672	6,597	15,872	397,879
1960	852,150	12,176	102,890	2,967	19,068	989,251
1961	934,544	106	62,783	4,116	17,789	1,019,338
Ten-year Average-1951-1961	517,868	16,451	43,519	4,139	15,042	588,818
48-year Average	895,014	17,103	41,984	3,841	12,905	963,008
1962	358,504	37,275	58,747	2,812	16,817	474,155

Average case pack on pinks includes even years only.

COMPARATIVE ESCAPEMENT COUNTS
1957 - 1962

<u>River</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
Kvichak River	2,842,810	534,785	680,000	14,630,000	3,705,849	2,580,572
Alagnak River	126,595	94,650	825,421	1,240,530	90,036	90,630
Naknek River	634,655	278,118	2,232,644	828,381	351,078	722,062
Egegik River	391,207	246,354	1,072,459	1,798,764	701,538	1,027,482
Ugashik River	214,802	279,546	218,723	2,304,200	348,639	255,426
Wood River	<u>299,852</u>	961,818	2,211,793	<u>1,016,073</u>	<u>460,737</u>	<u>873,888</u>
Igushik River	<u>130,000^{1/}</u>	107,478	643,788	<u>494,814</u>	<u>294,252</u>	<u>15,660</u>
Snake River	<u>3,000^{1/}</u>	9,000 ^{1/}	<u>140,000^{1/}</u>	<u>16,598</u>	<u>4,856</u>	<u>1,760</u>
Togiak River	25,000 ^{1/}	57,000 ^{1/}	178,740 ^{1/}	162,810	95,454	47,352
Nuyakuk River	<u>67,000^{1/}</u>	196,000 ^{1/}	48,861	<u>145,500</u>	<u>79,788</u>	<u>27,890</u>

1/ Aerial Survey Estimate