

Manson



COOK INLET STREAM AND LAKE SURVEYS
1954
U.S. FISH AND WILDLIFE SERVICE

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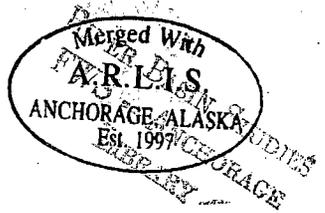
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COOK INLET STREAM AND LAKE SURVEYS

1954



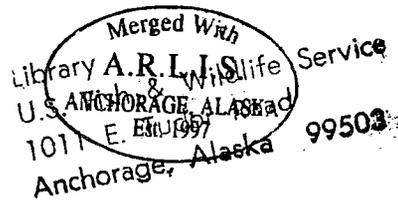
The 1954 Cook Inlet spawning ground surveys marked the third successive year that comparative examinations have been conducted on the red salmon producing waters of this district. During the past season surveys covered approximately 200 lake and stream areas. The principal production areas were checked at least twice during the spawning period and several were covered as many as three and four times. While the surveys are concerned primarily with red salmon, the abundance of other species was also recorded.

The task of surveying this vast spawning area was largely accomplished by four 2-man parties, each party covering specified drainage areas. At least one man in each party had prior experience in the area assigned him. This continuity of personnel and the fact that counts were again made in established count areas assures a quantitative comparison with the two previous observations.

The majority of surveys were again conducted from the ground, but as the transportation of field parties required considerable air travel, incidental air observations were made whenever possible. The latter are recorded separately and follow the record of ground observations in each of the survey regions listed in the following pages. All established ground count areas are noted with an asterisk.

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Stream levels and other physical conditions were generally quite favorable for survey activity in August. During September, however, the weather continued mild, and as a consequence a number of glacial watersheds failed to clear, considerably hampering the surveys in these areas. We have previously noted that the prevailing glacial nature of many of the Cook Inlet drainages makes it difficult, indeed, to estimate with even fair accuracy the total red escapement. For this reason the appraisal of red escapements is based solely on ground counts made in clear water areas.

Summary of 1954 Red Salmon Escapements

Surveys during the past season indicate that the over-all red salmon escapement was slightly above that obtained in 1953 and perhaps equal to or a trifle above that of 1952. A comparison with the 1953 escapement record is as follows:

Kenai River - about 10 to 15 percent improvement in virtually all areas examined.

Kasilof River - Over 50 percent improvement. Bear and Moose Creeks indicated excellent seedings.

Fish Creek - Over 50 percent decline. The low count (1954 weir figures lowest on record) may be related to cyclic nature of runs in this system.

Susitna River - Most areas indicate minor declines.

English Bay - Slightly below the 1953 level.

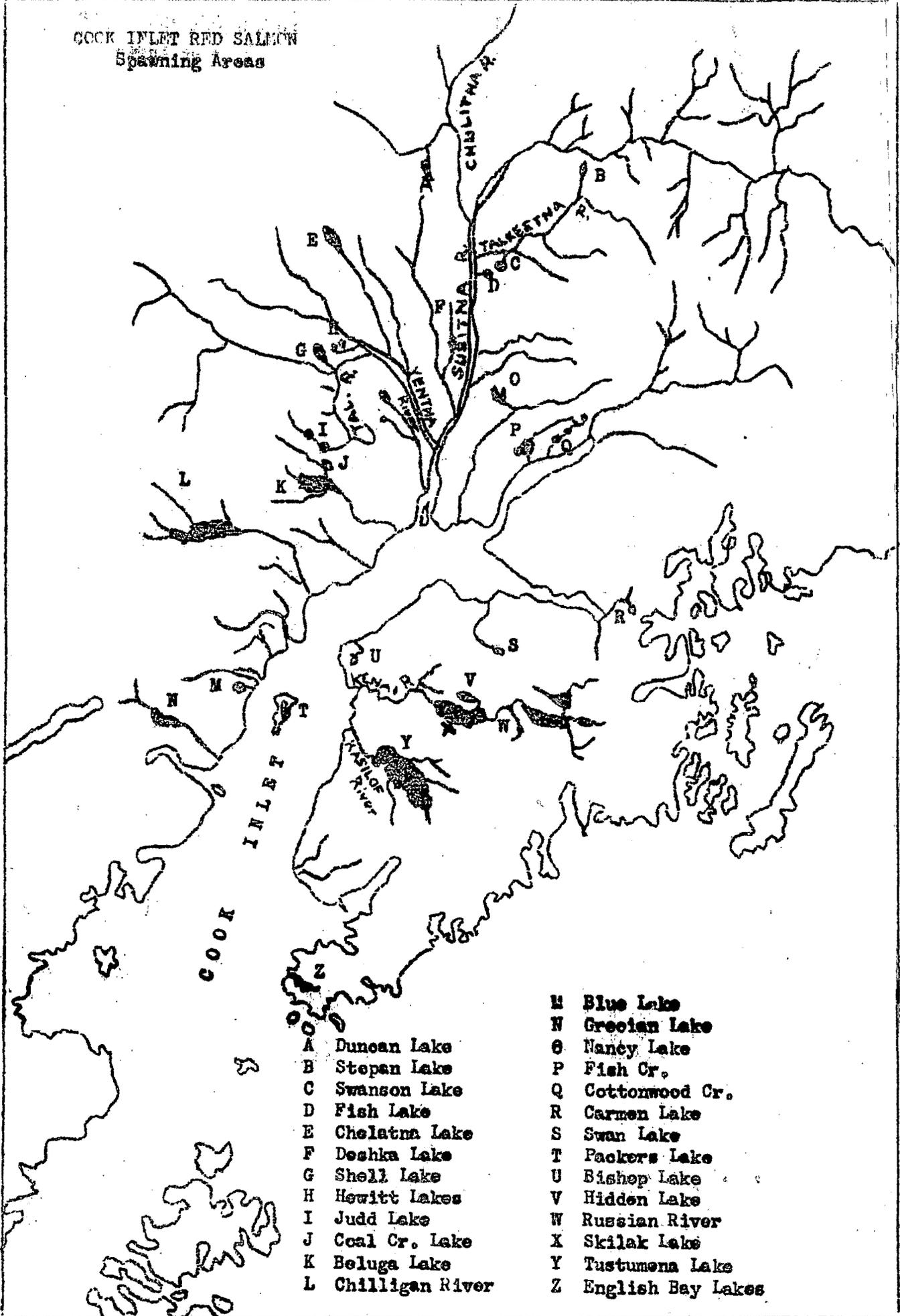
West Side - Limited observations point to somewhat smaller runs in most systems. As in 1953 glacial runoff again hampered survey activity in this area.

The slightly improved total red escapement of the past year resulted from the increase in spawners entering the Kenai and Kasilof drainages which more than compensated for declines in other areas.

Pink Salmon Escapements, Upper Inlet

Without question pink salmon runs to the upper inlet were among the largest on record. A conservative estimate of pink escapement into streams north of Cape Kasilof places the spawning population of this species at 4,000,000 fish. Excellent escapements were noted in the Talachulitna and Deshka Rivers, Big and Little Willow Cr., Sunshine Cr., and Chumilna Cr. The lower Kenai and Kasilof Rivers were also reported to contain great numbers of pinks.

**COOK INLET RED SALMON
Spawning Areas**



- | | | | |
|---|-----------------|---|-------------------|
| A | Duncan Lake | M | Blue Lake |
| B | Stepan Lake | N | Groilan Lake |
| C | Swanson Lake | O | Nancy Lake |
| D | Fish Lake | P | Fish Cr. |
| E | Chelatna Lake | Q | Cottonwood Cr. |
| F | Deshka Lake | R | Carmen Lake |
| G | Shell Lake | S | Swan Lake |
| H | Hewitt Lakes | T | Packers Lake |
| I | Judd Lake | U | Bishop Lake |
| J | Coal Cr. Lake | V | Hidden Lake |
| K | Beluga Lake | W | Russian River |
| L | Chilligan River | X | Skilak Lake |
| | | Y | Tustumena Lake |
| | | Z | English Bay Lakes |

WEST SIDE COOK INLET - 195
Live Counts Only - Reds

Stream or Lake	Survey in Mi.	July				August				September					
		25-29	30-3	4-8	9-13	14-18	19-23	24-28	29-2	3-7	8-12	13-17	18-22	23-27	28-2
N.W. Spring (Packer's Lk.)	1/8			166							171				
Packer's Lk. (Kalgin Is.)	Entire			66							202				
Grecian Str. #4	1/8									15		0			
Blue Lake	Entire											740			
Three Mile Cr.	2 1/2			48											
Three Mile Lk.	Entire			17											
Lone King Cr. (Beluga Lk.)	1					Air 100									
Coal Cr. Lake	1/8							0							

WEST SIDE COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Chilligan River (Chackachamna Lk.)	8/31	4 Mi.	402	7		Water partially glacial. Accurate counts not possible. Most fish in lower mile.
Chackachamna Lake	9/1	2 Mi.	0	0		Very glacial. No evidence of beach spawning.
3 Mile Lake	8/8	Entire	17	0		Estimate 200 reds entered lake. Resident reports small run this year.
3 Mile Creek	8/9	2½ Mi.	48	1	200 pink	Green reds moving up to lake.
Packers Lake (Kalgin Is.)	8/5	Entire	66	22		Only beach spawning area on this date in N.E. corner of lake.
	9/8	Entire	202	13		Scattered spawning all along shoreline. Water coppery, making observation difficult. Estimate season total for lake and feeders 6000 reds.
N.W. Spring #1 (Packers Lake)	8/5	100 yds.*	166	210		50 reds off mouth.
	9/8	100 yds.*	171	173		100 reds off mouth. New group of reds in springs.
North Stream #2	8/5	1/4 Mi.	59	31		Stream area heavily silted. Many beaver dams.
	9/8	100 yds.	2	0		-
N.E. Spring #3	8/5	1/2 Mi.	20	106		Many beaver dams. Considerable silting.
	9/8	1/2 Mi.	20	Few		25 reds off mouth. Fish digging through silt to reach gravels.

* Established count area.

WEST SIDE COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Packers Lake Outlet	8/6	2 Mi.	56	0		Fresh reds moving up to lake.
Blue Lake	9/16	Entire	740	1		Beaver dam at outlet removed. Estimate 3000 reds total in lake.
Grecian Streams #1 & #2	9/6	2 Mi.	67	60		All reds seen in clear. Seepage areas adjoining main streams which were very glacial. No counts possible in streams.
Grecian Stream #3	9/5	Mouth	0	1		Very glacial.
	9/17	Mouth	0	6		Very glacial.
Grecian Stream #4	9/4	Mouth	15	20		Poor showing compared with 2 previous years.
	9/17	Mouth	0	3		
Grecian Lake	9/5	3 Mi.	70	5		Survey of S.W. and S.E. shores.
	9/17	6 Mi.	51	81		Survey of West and S.E. shores. Considerably less indication than last year. Water very glacial.

WEST SIDE COOK INLET
Air Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Coal Creek	7/28	10 Mi.	Blank	Water slightly discolored. No. salmon at mouth in Beluga Lake.
	8/11-	10 Mi.	Reds present	Water murky. Reds observed in shallow areas. Count not possible.
Coal Creek Lake	7/28	Entire	Blank	
	8/11	Entire	Blank	
	8/25	Entire	Blank	Landing made. Check of last year's spawning site revealed no reds.
	9/5	Entire	Blank	
Lone King Cr. (Beluga Lake)	8/11	1 Mi.	100 reds	Water slightly muddy from recent rains.
Legend Lake (McArthur R.)	9/16	Entire	Blank	Outlet rocky and steep.
Flat Lake (McArthur R.)	9/16	Entire	Blank	2 Mi. S.E. of Legend Lake. Outlet to McArthur R. has moderate gradient.
Grecian Lake Streams #1 & #2	9/4	3 Mi.		Streams very turbid. No counts possible.
	9/16	2 Mi.		Warm weather--streams very glacial. Impossible to observe salmon.

SUSITNA RIVER DRAINAGE - 1954
Live Counts Only - Reds

Stream or Lake	Survey in mi.	July				August				September					
		25-29	30-3	4-8	9-13	14-18	19-23	24-28	29-2	3-7	8-12	13-17	18-22	23-27	28-2
Talachulitna Cr.	3½			1936		1685				942					
Upper Talachulitna Cr.	2½/8			125		411				965					
N. Judd Springs	3/8				0		22			89					
#2 Judd Springs	1/8				5		33			224					
S. Judd Springs	½				0		17			503					
Judd Lake	½						59				2142				
Talachulitna Lake	1/8									145					
Spring Cr. (Lake Chelatna)	¼			40				141			77				
Hewitt Lake	Entire					112		172				1713			
Hewitt Cr.	2¼				59			109				96			
Whisky Lk. (Island Lake)	Entire							0				9			
Huckleberry Cr.	1							336				509			
Shell Lake	Entire										1777				
Deshka Lake	½					0				46					
Swanson Lake	½			9		87				56					
Lake Stepan Area #1	½			34						58					
Lake Stepan Area #2	¼			16						103					
Prairie Cr.	2				269						10				
Red Shirt Lake	1/8									109				139	

SUSITNA RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts			Remarks
			Reds Alive	Dead	Others	
Lake Chelatna	8/5	Entire	Present	-		Glacial coloration prevented count.
	8/23	Entire	Present	74		Counts of live reds not possible, water very turbid.
	9/9	Entire	2	133		Continued glacial, est. 7000 reds season total.
Lake Creek	8/4	3 Mi.	1	0	1 king	Water glacial, counts not possible.
Cripple Cr.	8/22	1 Mi.	0	0		Very glacial, counts not possible.
	9/9	Mouth	-	-		Stream was clear, no counts made.
Spring Cr.	8/5	1 Mi.	40	0		Not spawning. Beaver dams present.
	8/24	1/4 Mi.*	141	1		No reds beyond 2nd dam. Fish spawning.
	9/9	1/4 Mi.*	77	3		Spawning about complete.
Coffee Cr.	8/24	1/4 Mi.	-	-		Water very glacial; counts not possible.
Upper Talachulitna River (outlet Judd Lk.)	8/8	3 1/2 Mi.*	621	2	42,929 live & 12 dead pink. 8 live & 9 dead king. 330 live & 19 dead chum.	All reds green and moving up Pinks just beginning to spawn. Most pinks small (30 per cas est.)
	8/18	3 1/2 Mi.*	1685	10	46,860 live & 3,854 dead pink. 59 live & 178 dead chum.	Reds are fresh and unspawned. Many eggs strewn about above gravels.

46 865
3 854
50 714

SUSITNA RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Grayling Cr.	8/8	3/4 Mi.*	1	0	77 live & 9 dead chum; 1962 pink	Chum spawning at peak.
	8/18	3/4 Mi.*	0	0	3250 live & 301 dead pink. 25 live and 72 dead chum.	Many eggs in stream gravels.
Judd Lake	8/7	Entire	Present	-	Pinks & chums	400 reds, 15 chum & 30 pink off mouth of Talachulitna Cr. No beach spawning.
	8/19	Entire	659	0	1259 live and 4 dead pinks.	Reds just commencing spawning along beach.
	9/8	1/2 Mi.*	2142	164		2880 reds total count for entire lake. 500 fresh red just entering lake.
North Judd Springs	8/9	3/8 Mi.*	0	0		20 reds off mouth.
	8/19	3/8 Mi.*	22	0	6 pink, 1 chum	20 reds off mouth.
	9/7	3/8 Mi.*	89	34	1 pink	200 fresh reds off mouth.
#2 Judd Springs	8/9	100 yds.	5	0		20 reds off mouth.
	8/19	1/8 Mi.*	33	2	12 pink	85 reds off mouth.
	9/7	1/8 Mi.*	224	51	1 pink	Peak of spawning.
South Judd Springs	8/9	1/8 Mi.	0	0		70 reds off mouth.
	8/19	1/8 Mi.	17	0	4 pink	100 reds off mouth
	9/7	1/2 Mi.*	503	12		500 reds off mouth.
Talachulitna Creek	8/7	3 1/2 Mi.*	1936	5	364 pink 1 chum	400 reds, 50 pink, 15 chum off mouth.
	8/17	3 1/2 Mi.*	1685 <small>295 980</small>	295	10, 342 live & 152 dead pink	100 reds off mouth.
	9/6	3 1/2 Mi.*	942	382	4 pink	400 reds off mouth. Reds stream fresh run.

SUSITNA RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts			Remarks
			Reds Alive	Reds Dead	Others	
Talachulitna Lake	8/7	Entire	Present			No red spawning in lake.
	8/17	1/2 Mi.	55	1		Fresh reds--no spawning.
	9/6	1/2 Mi.	145	2		Majority of spawners near outlet.
Upper Talachulitna Creek	8/7	3/4 Mi.	125	2		100 reds off mouth. No salmon beyond 2nd beaver dam (3/4 Mi. point).
	8/17	2-1/8 Mi.*	411	10	104 pink	200 reds off mouth.
	9/6	2-1/8 Mi.*	965	31	12 coho; 9 pink	100 reds off mouth.
Hewitt Lake	8/14	Entire *	112	1		Many reds in lake not visible
	8/28	Entire *	172	1		Reds just commencing spawning activity.
	9/13	Entire *	1713 <small>79</small> <small>1802</small>	89		Many reds out in lake not yet spawning.
Hewitt Creek	8/12	2 1/4 Mi.*	59	2	3 pink	Spawning just beginning.
	8/26	2 1/4 Mi.*	109	2		Peak of spawning.
	9/14	2 1/4 Mi.*	96	6	312 coho	Coho all fresh.
Whisky Lake (Island Lake)	8/13	Entire	Present	0		Early. Reds observed in offshore areas, but no beach spawning.
	8/27	Entire	0	0		No beach spawning.
	9/14	Entire	9	27		Very little beach spawning.
Christmas Tree Creek (Whisky Lake)	8/13	300 yards	0	0		Early.
	8/27	300 yards	16	0		Fresh reds.
	9/14	300 yards	21	2		Spawning near completion.

SUSITNA RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Brush Cr. (Whisky Lake)	8/13	1/2 Mi.	39	0		No spawning.
	8/27	200 yds.	0	0		Considerable black bear activity.
Huckleberry Cr.	8/27	1 Mi. *	336	0		Spawning just beginning.
	9/14	1 Mi. *	509	28		Spawning near completion.
Shell Lake	8/25	-	3810	0		5 hr. count at lake outlet. Reds just beginning to enter lake last night. Estimate 7000 reds entered lake in 24-hr.
	9/11	Entire	1777	115		Many additional reds in deeper areas beyond lake shelf. 874 reds in Shell Cr all fresh and just entering lake. Estimate season total 10,000 reds.
Swanson Lake	8/6	1/2 Mi. *	9	0		Early. 42 reds and 9 pink observed entering lake.
	8/14	1/2 Mi. *	87	0		Reds just beginning to spawn.
	9/3	1/2 Mi. *	56	18		177 live and 62 dead reds in south half of lake. Estimate 800 reds season total.
Fish Lake	9/13	Entire	43	11		Spawning near complete. Est. 500 reds season total.
Lake Stepan	8/8	1/2 Mi. *	34	0		Count in #1 area. 71 reds in south half of lake.
	9/4	1/2 Mi. *	58	15		
	8/8	1/4 Mi. *	16	0		Count in #2 area.
	9/4	1/4 Mi. *	103	6		Total count in lake 311 live and 115 dead red. Estimate 800 reds season total for entire lake.

SUSITNA RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Prairie Creek (including Murder Lake)	8/9	2 Mi.*	269	0	5 dead king	From Lk. Stepan to East Fork Prairie Cr. Only 25 reds in vicinity of Vogel's bridge.
	9/8	2 Mi.*	10	98	20 coho	Red spawning near complete.
Inlet Stream (Lake Stepan)	8/8	1/4 Mi.	0	0		
Duncan Lake (Tokichitna R.)	8/12	Entire	Reds present	0		Water murky. Lake shallow, 8 to 15 feet.
	9/9	Entire	97	2		Most spawning on west shore. Murky water prevents accurate count. Estimate 400 reds in lake.
T. Creek (South Inlet, Duncan Lake)	8/12	1/2 Mi.*	400	0		100 reds off mouth. Most fish are green, schooled up below forks. Right fork provides best gravel.
	9/8	1/2 Mi.*	58	8		Right fork. Heavy bear (black) kill. 200 reds off mouth.
Slim Creek (Duncan Lake)	8/13	150 yds.	150	0		All reds at mouth. Small inlet at N.W. corner of lake
	9/9	300 yds.	93	50		200 reds off mouth. Heavy bear predation.
Deshka Lake	8/14	1/2 Mi.*	0	0		Survey of S.W. shoreline.
	8/30	1/2 Mi.*	46	1		Estimate 350 reds season total.
Red Shirt Lake	9/12	200 yds.*	109	21		Most reds are fresh. Estimate 500 reds total.
	9/26	200 yds.*	139	40		Peak of spawning.
Ro-Le Jo Cr.	9/11	1 Mi.	37	4	Coho present	A few fresh reds are entering stream.
	9/26	1/2 Mi.	1	0	100 coho	

SUSITNA RIVER DRAINAGE
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Lake Creek (Lk. Chelatna)	8/3	40 MI.		Water very muddy due to heavy rain
	8/6	15 MI.	Pinks present	Upper stream. Water turbid. Fish observed only in shallow areas.
Shell Lake	7/28	Entire	Blank	Survey of entire shoreline.
	8/6	4 MI.	Blank	Survey of east shore.
	8/21	Entire	Blank	See ground surveys for later counts. No reds in lake at this date.
Shell Creek	7/28	7 MI.	200 (species?)	Salmon (species?) observed in lower stream. Many beaver dams.
Trinity Lakes Drainage	7/28	Entire	Salmon (species?) present	Salmon were observed in outlet stream. Possibly pink. Many beaver dams.
	9/8	Entire	Blank	Air check of beach areas on main lake.
Talachulitna River	7/28	30 MI.	50,000 pink. Chum, red and king present	Conservative estimate of pinks. Chum, king and red in lesser numbers.
	8/6	Entire	500,000 pink. Chum, red and king also present	More pinks than observed in 1952. Figure is considered a minimum estimate.
	9/8	Entire	500 reds at outlet of Judd Lake.	Pink spawning long complete.
Talachulitna Creek	7/28	3½ MI.	200 reds	Reds present were distributed from Judd to Talachulitna Lake. 5-700 reds at mouth in Judd Lake
Talachulitna Lake	7/28	Entire	Blank	

SUSITNA RIVER DRAINAGE
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Upper Talachulitna Creek	7/28	1 Mi.	Blank	Several large beaver dams noted.
Sucker Lake	7/28	Entire	Blank	Large beaver dam at outlet.
	8/25	Entire	Blank	Also ground check of west shore.
Kahiltna Lake (east side Kahiltna R.)	8/11	Entire	Blank	Outlet stream very steep at junction with Kahiltna R.
Alexander Creek	7/28	8 Mi.	200 king	From mouth of Sucker Lake Cr. to Alexander Lake. Many king reported in lower reaches of stream.
Red Shirt Lake	7/28	Entire	Blank	Early. Many beaver dams noted in outlet.
	8/30	Entire	200 reds	Fish observed in cove just south of lodge on east shore.
7 Mile Lake (Skwentna R.)	7/28	Entire	Blank	Small outlet. Possibly accessible to salmon.
8 Mile Lake (Talachulitna R.)	7/28	Entire	Blank	Not accessible to salmon. High falls near lake outlet.
Big Willow Creek	8/6	Brief	Kings present	Crossed stream above Willow.
	8/14	Brief	Good show of pinks	Crossing only.
	8/30	5 Mi.	Few pinks remaining. Small numbers of dead chum(?)	From mouth to Alaska R.R.

SUSITNA RIVER DRAINAGE
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Little Willow Cr.	8/6	Brief	Many pink	Lower stream crossing only.
	8/14	Brief	Good showing of pink	Brief air crossing.
	8/30	4 Mi.	Few pinks	Pink spawning near completion.
Caswell Lk.	8/14	Entire	Blank	No salmon observed in outlet.
	8/30	Entire	Blank	
	9/7	Entire	Blank	Check of Caswell and two small lakes to south.
Kashwintna River	8/14	Brief	-	Very glacial.
	9/7	Brief	Blank	Water clearing.
Montana Cr.	8/6	Brief	-	Turbid.
	8/14	Brief	Blank	Clearing.
	8/30	Brief	Blank	Partially turbid.
	9/7	Brief	Blank	Crossing only. Clear water.
Sunshine Cr.	8/6	Brief	Many pink	Crossing only. Clear.
	8/14	Brief	Pink in good numbers	Brief crossing only.
Fish Lake and Outlet	8/6	Entire	2000 pink, 200 red	All pinks and reds in outlet of lake. No fish seen in lake.
	8/14	Entire	Good show of pinks	No reds observed in lake.
	9/3	Entire	150 reds	Spawning along south shore. See ground counts.
Answer Lake	8/6	Entire	Blank	

SUSITNA RIVER DRAINAGE
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon counts	Remarks
Talkeetna R.	9/3	30 Mi.	-	Turbid. Many salmon reported in slough areas a week previous.
	9/7	30 Mi.	Blank	Turbid, but clearing up since previous visit.
Chunilna Creek	8/6	1 Mi.	Pink present	Turbid. No counts made.
	8/14	5 Mi.	75,000 pink	Slightly turbid. Large school at mouth.
	9/3	1 Mi.	Few pink-150 coho(?) at mouth	Clear. Pink spawning near completion.
Hour Glass Lake (East fork Chunilna Cr.)	8/6	Entire	5000 pink in outlet stream Reds present	No spawners in lake.
	8/14	Entire	50 reds. 15,000 pink	Limited red spawning in lake. All pinks below lake.
	9/3	Entire	200 reds	Pink spawning completed.
Prairie Cr. (Lake Stepan)	8/6	Entire	200 reds	Ascending to Murder Lake.
Liscom Lk. (Chulitna R.)	8/11	Entire	Blank	Survey of lake, outlet and inlet.
	8/14	Entire	Blank	Survey of lake shore and inlet.
	9/7	Entire	Blank	Lake shore and inlet.
Lucy Lake (Chulitna R.)	8/14	Entire	Blank	Small outlet draining into Coal Cr.
Spink Lake (Chulitna R.)	9/7	Entire	Blank	Clear lake. Outlet has steep gradient just below lake.

SUSITNA RIVER DRAINAGE
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Deshka River	8/11	50 Mi.	300,000 pink 3000 king 50 dead king	Survey of main fork from Peter Cr. road to mouth.
	8/30	20 Mi.	Few dead pink	From Deshka Lake to mouth. Poor light.
	9/7	15 Mi.	Pink(?) several thousand	North of Peters Cr. road.
Figure 8 Lake	8/30	East shore	Blank	Light poor. Some gravel beach areas. Lower east Susitna Flats.

UPPER COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Remarks
			Reds Alive	Reds Dead	
Lake Nancy	8/3	1/8 Mi.*	10	0	Early. Large school of reds outside of spawning area.
	8/5	1/8 Mi.*	150	0	Fish schooled, not spawning.
	9/1	1/8 Mi.*	280	52	Count area at N.W. corner of lake.
	9/1-2	Entire	1944	220	Includes school of 600 reds off 182.5 Cr. Estimate season total 7,000 reds.
Nancy Cr.	8/4	200 yds.*	98	0	Reds just entering. Est. 500 reds off mouth.
	8/31	200 yds.*	6	136	Spawning complete.
Lake Cr. (Nancy Lake Outlet)	7/28	Brief	0	0	<u>Air survey.</u> Large rock dam near outlet of Nancy Lake.
	8/3	1/4 Mi.	6	0	Reds moving to Nancy Lake. Dam removed by clearance crew several days previous.
	8/5	1 1/4 Mi.	106	0	Float trip downstream. Reds moving up.
	9/2	Brief	0	0	Brief check—no salmon entering lake.
182.5 Cr. (Nancy Lake)	8/5	100 yds.	0	0	300 fresh reds off mouth.
	9/1	1/2 Mi.	1	1	600 fresh reds off mouth. No evidence of spawning in stream.
	9/28	1/2 Mi.	0	0	<u>Air survey.</u> Continued activity at mouth but no apparent spawning in stream.
Big Lake (Knik Arm)	8/16	3 Mi.	3	0	Boat survey of north shore. Very little beach spawning in evidence.
	8/19	100 yds.	52	0	Area bordering Big Lake Lodge. Est. not over 300 reds in lake.

UPPER COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Fish Cr. (Big Lake Outlet) (see weir count)	8/18	1/8 Mi.*	4	0		Small lagoon area 1 mi. below lake. Virtually no spawning.
	8/30	1/8 Mi.*	84	0		Spawning about 2 weeks later this year than on two previous years.
	8/18	1 1/2 Mi.	823	4		50% of count made up of jacks
	8/30	1 1/2 Mi.	2466	11	2 pink 5 coho	80% jacks.
Meadow Cr.	8/17	1/2 Mi.*	1173	103		A few jacks present.
Blodgett Lakes	8/29	Entire	1088	293		No reds in Blodgett Lake #1 and few in #2. Nearly all fish counted in Blodgett #3. Estimate 2000 total red count.
Connecting streams, Blodgett chain	8/29	#1 to #2*	0	0		A fish trap was found in stream at entrance to Blodgett Lake #4.
		#2 to #3*	0	0		
		#3 to #4*	0	0		
Wasilla Lake	8/20	Entire	63	0		Lake mgt. survey party has taken over 100 reds in gill nets. All spawning along north shore.
Cottonwood Cr.	8/19	200 yds.	0	0		Area between Wasilla and Mud Lakes.
Mud Lake	8/19	Entire	20	0		Small lake between Wasilla and Cottonwood Lakes.
Cottonwood Lk.	8/19	Entire	539	0		Most spawning along north shore--mid lake. Estimate 1500 reds in lake.
	9/12	Entire	2	91		Spawning complete.

UPPER COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Cornelius Lake	8/20	Entire	103	0		Spawning just beginning. Estimate 400 redds in lake.
	9/14	Entire	8	52		Spawning complete.
Upper Cottonwood Cr.	8/20	1/2 Mi.	2	0		Headwaters above Cornelius Lake.
Niklason Lake	8/20	Entire	143	0		Estimate total redds in lake at 600. Some deep spawning. No redds in stream connecting Niklason and Cornelius.
	9/14	Entire	3	37		Spawning complete.
Cornelius #3	8/20	Entire	2	0		Small lake below Niklason. No spawn. area.
Palmer Cr.	8/16	1/4 Mi.*	0	0		Early.
	8/30	1/4 Mi.*	2	0		
	9/12	1/4 Mi.*	34	0		
	9/28	1/4 Mi.*	4	3		
Palmer Cr. Slough	8/16	1/8 Mi.	0	0		Early.
	8/30	1/8 Mi.	24	0		Area adjoining Glenn Highway.
	9/12	1/8 Mi.	76	0		
	9/28	1/8 Mi.	34	19		
Eagle River	8/16	Brief	0	0	Pinks present	Check of small tributary stream on east side of Glenn Highway.
Portage Cr. (Turnagin Arm)	8/13	2 Mi.	106	11		Clear water tributary to Portage Cr. Portage Cr. very cold; approx. 32°.

UPPER COOK INLET
Stream and Lake Surveys, 1954

Stream or Lake	Date	Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Carmen Lake	10/11			numerous		R. Miller. At mouth inlet stream.

FISH CREEK WEIR COUNT, 1954 *

Following is a day by day count of reds and cohos counted through the Fish Creek weir, starting on July 13th, the first day of the run.

<u>Date</u>	<u>Reds</u>	<u>Cohos</u>	<u>Net Marked Reds</u>
7/13	70	0	5
7/14	214	0	17
7/15	63	0	8
7/16	47	0	7
7/17	0	0	0
7/18	1	0	0
7/19	0	0	0
7/20	43	0	4
7/21	2	0	0
7/22	1772	0	141
7/23	2670	0	217
7/24	3253	0	261
7/25	1987	18	145
7/26	2314	28	216
7/27	1671	25	172
7/28	702	78	82
7/29	328	6	55
7/30	679	34	93
7/31	1667	63	229
8/1	791	44	141
8/2	864	89	160
8/3	604	136	113
8/4	413	98	88
8/5	322	153	74
8/6	164	86	47
8/7	134	102	41
8/8	66	51	24
8/9	63	46	43
TOTALS	20904	1057	2383

* Courtesy of Cook Inlet Management Office.

UPPER COOK INLET
Air Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Horseshoe Lake	8/30	Entire	Blank	Check of shoreline.
Beaver Lakes	9/3	3 Mi.	Blank	Lakes appeared clear this year. May contain salmon.
Little Susitna River	9/3	8 Mi.	Blank	Water clearing, but visibility not too good.
Stephen Lake	8/31	Entire	Blank	Goose Cr. drainage.
7-Mile Lake	8/31	Entire	Blank	Goose Cr. drainage.

UPPER KENAI PENINSULA

Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Swanson Cr.	-	Weir	0	0		Weir in operation from July 9 to Aug. 3. A few reds reported above weir site in late June.
Bishop Cr.	-	Weir	9287	-		Weir counts from start of run on July 15 to Aug. 5 see counts.
Bishop Lake	9/19	Entire	1790	27		Most spawning along mid S.W. shore. Spawning near peak.
Bishop Lake Outlet	9/19	3/4 Mi.	0	2		Movement to lake appears complete.
Owl Lake (Lower Pincher Lake)	8/26	Entire	0	0		Survey of lake inlets and outlets.
Swan Lake (Chickaloon R.)	8/23	Entire	189	208		Late. Spawning nearly complete. Estimate 600 reds in lake. Season total may be much higher.
Thurman Cr. (Chickaloon R.)	8/21	Entire	0	0		<u>Air Survey</u> of creek and upper ponds below Trout Lake.
Chickaloon Lakes	8/28	Entire	0	0		<u>Air and ground survey</u> of small lakes in lower east Chickaloon drainage.

SWANSON RIVER WEIR OPERATION - 1954 *

This weir was installed and fish tight July 9; it was removed August 3. No salmon were counted through the weir or observed near the weir. A few Reds were reported above the weir site in late June and a few Cohos were observed in the Swanson River near the mouth on August 6.

* Courtesy of Cook Inlet Management Office.

BISHOP CREEK WEIR COUNT, 1954 **

The following is a day by day count of reds counted through the weir at Bishop Creek, starting on July 15th, the first day of the run:

<u>Date</u>	<u>Reds</u>	<u>Net Marks *</u>	<u>Open Sores</u>
7/15	422	50	2
7/16	76	30	1
7/17	17	5	1
7/18	166	15	1
7/19	538	30	1
7/20	1044	348	2
7/21	188	35	1
7/22	204	75	2
7/23	45	15	2
7/24	1956	652	15
7/25	0	0	0
7/26	743	185	6
7/27	4	0	0
7/28	2016	504	9
7/29	824	206	7
7/30	520	75	6
7/31	58	14	4
8/1	84	21	5
8/2	296	74	8
8/3	81	20	7
8/4	4	0	0
8/5	1	0	0
TOTALS	9287	2354	80

* Net marks estimated in part.

** Courtesy of Cook Inlet Management Office.

KENAI RIVER DRAINAGE - 1914
Live Counts Only - Red

Stream or Lake	Survey in Mi.	July				August				September					
		25-29	30-3	4-8	9-13	14-18	19-23	24-28	29-2	3-7	8-12	13-17	18-22	23-27	28-2
Upper Upper Russian Cr.	2				8439						640				
Lower Russian River	3½			2154		6485				1183					
Upper Russian River	½							2322			475				
Upper Russian Lake	Entire										1179			1137	
Quartz Cr.	3						1230			171					
Moose Cr.	3			1059			2 mi. 371								
Mud Lake	½			151			121			68					
Ptarmigan Cr.	1½							1382							
Hidden Lake	2							air Sur. 1500						450	

KENAI RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Lower Russian River	8/7	Entire*	2154	2	29 king	From mouth to Lower Russian Lake. Intense sport fishery in this area.
	8/18	Entire*	6485	87	82 live & 5 dead king, 2 coho, 50 pink	500 reds estimated at mouth in Kenai River.
	9/5	Entire*	1183	1957	Many coho, 10 dead king	Estimate 12,000 reds season total.
Upper Russian River	8/26	1/2 Mi.*	2322	18	5 king	Spawn. area approx. 2 mi. below Upper Russian Lake. Remainder of stream virtually void of reds save at outlet Upper Russian Lk. Slightly glacial.
	9/11	1/2 Mi.*	475	345		
	8/12	200 yds.	300	0		Brief check at outlet Upper Russian Lake.
	8/26	100 yds.	697	2		Outlet area, Upper Russian Lake.
	9/22	1 Mi.	5	74		From Upper Russian Lake downstream. Estimate season total Upper River at 6,000 reds.
Upper Upper Russian Creek	8/11	2 Mi.*	8439	1740		200 reds off mouth. Approximately 1000 reds above count area.
	9/12	2 Mi.*	640	1600		Live reds are fresh run.
Upper Russian Lake	8/26	Entire	3500	0		Air survey. Estimate of spawners on east and north shores. Many more in depths. Lake partially glacial.
	9/10	Entire	1179	37		All spawning on east and north shores. Boat survey.
	9/23	Entire	1137	270		Estimate 6000 reds total for season.

KENAI RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Remarks	
			Reds Alive	Others Dead		
Upper Russian Stream #1 ✓	8/12	Brief	0	0	Stream very glacial due to over flow from Resurrection Bay drainage.	
	9/12	1/8 Mi.	78	0	300 reds off mouth. Water murky.	
Upper Russian Stream #2 ✓	8/12	Brief	10	0	A few reds off mouth.	
	9/12	Brief	1	5	Dead are bear kill.	
Upper Russian Stream #3 ✓	8/12	Mouth	35	0	All fish at mouth. Beaver dam blocks entry.	
	9/12	Mouth	0	0		
Lower Russian Lake	8/7	Entire	2	0	Boat survey. Many kings reported to have passed through to Upper Russian River.	
	8/18	Entire	0	0	No spawning in lake.	
Upper Kenai River ✓	9/7 & 8	3 Mi.	400	350	Survey of right and left banks below mouth Lower Russian R. Figures are estimates as water very glacial.	
Lower Kenai River ✓	August			Many pinks	Reported by FWS enforcement agent. Heavy pink concentrations observed along shallow bars.	
Moose Cr. ✓	8/5	3 Mi.*	1059	2	<u>3 chum</u> 1 pink	Large beaver dam noted between 1st and 2nd road crossing.
	8/19	2 Mi.	371	117		Spawning near completion.

KENAI RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
Carter Cr. ✓	8/5	1/4 Mi.	141	1		
	8/19	1/4 Mi.	23	5		
Hidden Lake ✓	8/26	Entire	1500	0		<u>Air survey.</u> All reds at west end of lake.
	9/2	Partial	-	-		High winds--impossible to continue survey.
	9/25	1/4 Mi.	450			West end of lake, very small reds. X
Hidden Cr. ✓	8/17	Mouth	1000	0		Figure is an estimate of school off mouth in Skilak Lake which is very glacial.
	9/13	Mouth	200	0		<u>Air survey.</u> X
Jean Lake ✓	8/8	1 1/2 Mi.	19	2		Resident reports about 1500 reds in lake about June 20. X
Quartz Cr. ✓	8/22	3 Mi.	1230	226	10 chum, 9 king, 1 pink, coho present	From Daves Cr. down to mouth at Kenai Lake. Water murky.
	9/4	3 Mi.	171	300	Coho present.	From Daves Cr. to mouth. Stream somewhat turbid. X
Mud Lake ✓	8/6	1/2 Mi.	151	0		
	8/21	1/2 Mi.	121	5		
	9/3	1/2 Mi.	68	90		X
Grant Creek ✓	8/27	3/4 Mi.	42	3	5 live & 1 dead king	Glacial water.
Trail River ✓	8/28	2 Mi.	4	0		Check of stream bank. Water very glacial, virtually ruling out any count.

KENAI RIVER DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Johnson Cr. ✓	8/27	1/2 Mi.	17	8		
Ptarmigan Creek ✓	8/25	1 1/2 Mi.*	1382	18	7 king; 3 coho	Many dead reported late in season. Count includes estimated 200 off mouth.
Meadow Cr. (Kenai Lake)	8/29	1/4 Mi.	0	0		Locals report stream never used by salmon.
Ship Cr. (Kenai Lake)	8/29	1 Mi.	0	0		No record of salmon utilizing this stream.
Moose River (East fork)	8/5- 8/7	Entire	0	0		Float trip by FWS refuge personnel. Coverage from headwater lakes west of Hidden Lake to main branch of Moose River to Sterling Highway.

RESURRECTION BAY DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Remarks
			Reds Alive	Others Dead	
Grouse Cr.	8/4	3 Mi.		2	Survey late. Run reported to enter in June. Considerable snagging reported.
Bear Lake	8/5	Entire	279	3	Fresh fish. Little evidence of earlier spawning.
	8/26	Entire	147	22	All spawning at north end of lake.

KASLOP RIVER - 1954
Live Counts Only - Reds

Stream or Lake	Survey in Mi.	July			August				September						
		25-29	30-3	4-8	9-13	14-18	19-23	24-28	29-2	3-7	8-12	13-17	18-22	23-27	28-2
Bear Cr.	4				12,583	2 $\frac{1}{2}$ Mi. 8158	2 $\frac{1}{2}$ mi. 2504								
Moose Cr.	2				4185			1919							
Seepage Cr.	2				369										
Cliff House Cr.	$\frac{1}{4}$				338										
Nikolai Cr.	1					788		42							
<p>ENGLISH BAY - 1954 Live Counts Only - Reds</p>															
English Bay Cr. #2	1					1223		1321							
English Bay Cr. #3	$\frac{1}{2}$						448		359						
English Bay Lake #1	1					268			291						
English Bay Lake #2	1 $\frac{1}{2}$								618						

LAKE TUSTUMENA - KASILOF RIVER
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Dead		
Bear Creek	8/11	4 Mi.*	12,583	925	3 pink	500 reds off mouth - 206 gill-net marks. Estimate 25,000 reds in entire stream.
	8/16	2½ Mi.	8,158	1445	20 pink	4 brown bear seen.
	8/22	2½ Mi.	2,504	5536	25 pink	50 reds off mouth. Spawning near completion. X
Moose Creek	8/12	2 Mi.*	4,185	131	15 pink	400 reds off mouth. Estimate 12,000 reds in stream.
	8/24	2 Mi.*	1,919	2386	few pink	100 reds off mouth. X
Seepage Cr.	8/12	2 Mi.	369	6		Stream clearance crew has removed all beaver dams in lower 2 mi. X
Cliff House Creek	8/12	1/4 Mi.	338	9		100 reds off mouth. X
Nikolai Creek	8/17	1 Mi.	788	311		200 reds off mouth (est.)
	8/26	1 Mi.	42	144		1 brown bear encountered. X
Olsen Creek	8/16	1/2 Mi.	15	19		Minor spawning area.
Corral Cr.	8/16	200 yds.	7	0		Not an important spawn area.
Lake Tustumena	8/16	10 Mi.		Present		Survey of shore from Bear Cr. to Corral Cr.--a few salmon jumps observed. Very glacial
	8/23	-	31	0		10 fath. of 5-9/16" gill net set for 24 hr. period 1 mi. east of Bear Cr.
	8/23		20	0	1 coho	Same gear set 3 mi. east of Bear Cr. for 6-hr. period. Reds all very ripe.
Kasilof River	8/25				Great numbers of pink	Reported by hunters coming up river from Kasilof.

LAKE TUSTUMENA - KASILOF RIVER
Air Surveys - 1954

Stream or Lake	Date	Distance Surveyed	Estimated Salmon Counts	Remarks
Bear Creek	7/21	Mouth	Blank	Brief check for presence of spawners.
	7/27	Mouth	2000 reds	M. Meyer, stream clearance crew.
	8/21	12 Mi.	20,000 live reds; 5000 dead	Excellent show well into headwaters.
Moose Cr.	8/21	3 Mi.	Many live and dead reds.	Accurate observation hindered by brushy nature of stream banks.
Seepage Cr.	7/27	Entire	Blank	M. Meyer
	8/21	3 Mi.	300 live--50 dead reds	
Nikolai Cr.	7/21	1 Mi.	Blank	Early.
	8/11	1/4 Mi.	Good showing of reds	Brief check preparatory to ground survey.
	8/21	15 Mi.	3-4,000 red	Considerably less reds in upper area than observed in 1953.
Lake Emma	8/21	Entire	-	Not accessible to salmon. Outlet very steep.
Indian Cr.	8/21	3 Mi.		Extremely glacial. No count possible.
Cliff House Creek	8/21	1/2 Mi.	1,000 reds	Most fish at or near mouth.

ENGLISH BAY DRAINAGE
Stream and Lake Surveys, 1954

Stream or Lake	Date	Distance Surveyed	Counts		Others	Remarks
			Reds Alive	Reds Dead		
English Bay Stream #1 (lower lake to sea)	8/18	1½ Mi.	0	0	50 pink	Many dolly varden.
English Bay Stream #2 (between 1st & 2nd lakes)	8/18	1 Mi.*	1223	33	A few pink	200 reds off mouth.
	8/28	1 Mi.*	1321	249		100 reds off mouth. Peak of spawning.
English Bay Stream #3 (between 2nd & 3rd lakes)	8/19	1/2 Mi.*	448	9		150 reds off mouth. Count area reduced. Extremely dense concentration of dolly varden trout.
	8/21	Entire	3000	200	3000 pink (?)	<u>Air survey.</u> Upper section spawning more advanced.
	8/29	1/2 Mi.*	359	84	2 coho	Peak of spawning. Dolly varden less numerous than on previous visit.
English Bay Lake #1 (lower lake)	8/18	1 Mi.*	268	2		Boat survey of N. & W. shore. Est. 1,000 reds in lake.
	8/30	1 Mi.*	291	54		Survey of N. & W. shores. Est. 1200 reds in lake.
English Bay Lake #2	8/19	1 Mi.	Present			Strong winds prevented counts.
	8/21	Entire	2000			<u>Air survey.</u>
	8/29	Entire*	618	25		Estimate 2500 reds in lake.
English Bay Lake #3 (Lost Lake)	8/21	Entire	1500	500		<u>Air survey.</u> Spawning past peak. Less than in 1953.

LOWER INLET SURVEYS*

1954

Stream or Lake	Date	Distance Surveyed	Counts	Remarks
Fort Dick Island Creek No. 5	7/9	2 mi.	1,800 chums	<u>Air survey</u> . This is a fair showing on this date. Jumpers at mouth.
	7/14	2 mi.	8,200 chums no pinks	Fair to good chum showing for this date.
	8/3	2 mi.	11,000 chums 3,000 pinks	Good chum seeding. Very poor pink showing. <u>Air</u> .
	8/5	2½ mi.	13,500 chums 3 pinks	This was a complete foot survey. Many chums dead. Only pinks noted in stream were the 3 listed. A school of about 3000 at mouth.
	8/21	1½ mi.	11,000 chums 3,800 pinks	Most of chums now dead. No fresh fish. Pink escapement very poor. This creek should get about 38000 pinks instead of 3800.
Port Dick Creek No. 6	8/5	1/8 mi.	400 pinks	Spawning area of minor importance. Pinks at mouth, fresh fish.
	8/21	1 mi.	240 chums 1700 pinks	Poor to fair for this system.
Port Dick Creek No. 8	7/9	3 mi.	3,800 chums	These at least 3/4 mile upstream. Fair showing for this date.
	7/14	3 mi.	16,000 chums 350 pinks	Carcasses from early chums in shallow water at creek mouth. Good chum showing, pink showing to date very poor. Fewest pinks ever noted on this date for this important system.
	8/3	3 mi.	17,000 chums 600 pinks	<u>Air survey</u> .
	8/4	3 mi.	17,277 chums 103 pinks	Complete foot survey. Note almost complete absence pinks. Chums about half dead.
	8/21	3 mi.	17,000 chums 8400 pinks	Half of chums dead. Pinks all fresh fish, well up from mouth. No fish near mouth. Pink escapement very poor. This system should have 60,000 pinks for good escapement.

* Courtesy of Cook Inlet Management Office.

LOWER INLET SURVEYS

1954

Stream or Lake	Date	Distance Surveyed	Counts	Remarks
Rocky River No. 9	7/6	1 mi.	1,000 chums	<u>Air.</u>
	(7/8	7 mi.	2,000 chums 500 pinks	This is an estimate of all fish in this system figured on the six foot surveys shown.
	(
	(7/12	1 mi.		
	(7/14	2 mi.		
	(7/17	2 mi.		
	(7/21	2 mi.		
	(7/27	4 mi.		
	7/9	6 mi.	1,200 chums	<u>Air survey.</u> Poor showing to date. Jumpers in Rocky Bay. No estimate.
	7/14	4 mi.	3,000 chums 450 pinks	<u>Air survey.</u> Very poor showing of chums and pinks
	8/3	4 mi.	4,000 pinks 5,500 chums	Poor showing of both pinks and chums. <u>Air survey.</u>
	(8/4	1 mi.	5,000 chums 500 pinks	Estimate of total spawners from six foot surveys shown. Note pinks given on air survey were in upper reaches above foot surveys.
	(
	(
	(8/6	3 mi.	5,000 chums 500 pinks	
	(8/9	5 mi.		
(8/11	2 mi.			
(8/13	1 mi.			
(8/16	3 mi.			
8/21	5 mi.	6,000 chums 11,000 pinks	Escapement for this system both pinks and chums very poor. Light optimum. Figures as accurate as possible for air survey. Brush does not obstruct air survey. Pinks in groups approx. 3 mi. from mouth. Pinks all fresh. Numerous seals and beluga noted at mouth.	

LOWER INLET SURVEYS

1954

Stream or Lake	Date	Distance Surveyed	Counts	Remarks
Windy Bay Stream No. 10	(7/13	2 $\frac{1}{2}$ mi.	4,400 chums	Escapement figures given best estimate of total chums in this stream computed on three foot surveys. Many black bear in area. Schools of salmon at mouth 7/16/54. Escapement rated fair.
	(7/15	1 mi.		
	(7/19	2 mi.		
	8/21	$\frac{1}{2}$ mi.	850 pinks	Fresh fish.
Windy Bay Stream No. 11	7/9	1 $\frac{1}{2}$ mi.	600 chums	Fresh fish. Too bushy for accurate air survey.
	7/14	1 mi.	300 chums	Chums at mouth. Low clouds, light poor. No accurate estimate possible.
	(7/15	1 mi.	1,100 chums	Total given includes all chums noted in the three surveys made. Escapement rated poor.
	(7/18	3 mi.		
	(7/19	6 mi.		
	8/3	2 mi.	Few chums	Light poor for accurate estimate.
8/21	1/2 mi.	Few dead chums. 300 pinks	Pinks fresh. Area too bushy for accurate air survey.	
Dogfish Bay (Koyuktulik Bay) Stream 14 and 14A	6/29	Entire system	None	Two fishing boats waiting for chums to arrive. A few jumpers outside stream mouth.
	8/13	Entire		No accurate estimate possible. Light poor. Large body of chums noted in upper lagoon and in Stream No. 14. This area presents most difficult of all lower inlet streams to survey accurately. The lagoon contains large quantities of zostera which makes the quality of spawners in each school obscure. Escapement of chums this year rated fair to good.

LOWER INLET SURVEYS

1954

Stream or Lake	Date	Distance Surveyed	Counts	Remarks
Fort Graham Cr. (at right at head of bay) No. 16	8/29	2½ mi.	285 live pinks 0 dead " 0 live chums 25 dead " 205 live cohos 0 dead " 277 unidentified (dead-carcasses)	Difficult stream to survey; wide, with deep holes. Has three tributaries of fair size with good head of water. Cannery Supt. reports 1 trib. is pink stream and 1 chum; also that there is a lake about 4-5 mi. from mouth of creek. Necessary to wait for low or half tide before checking stream. Mouth of creek is to extreme right at head of bay. Tide will run up stream about ½ or ¼ mi. When going in at high tide, one must leave skiff where FWS markers are posted.
Port Graham Cr. (at left at head of bay) No. 16A	8/29	2 mi.	14 live pinks 20 dead " 14 live chums 3 dead "	Same thing holds true for this creek as for No. 16 and the extreme right of the bay. The creek is best at low or half tide. An easy creek to work having a sudden incline of about 1½ up with a fast flow of water. This creek has a small log jam ¼ mi. from mouth. No hindrance at this time.
Seldovia River No. 17	8/3	3 mi.	800 chums 2200 pinks	Poor pink showing. Chums mostly dead.
	8/13	1 mi.	2800 pinks	Poor escapement for this important system.
	8/21	¼ mi.	3000 pinks few dead chums	Poor escapement for this stream.
	8/26	3 mi.	6 live reds 0 dead " 215 dead pinks 27 live " 0 dead kings 1 live " 23 live chums 25 dead " 230 unidentified (dead, carcasses)	Stream easy to survey; walking easy & water clear, making identification positive. Foot surv on 8/26 too late to be accurate since part of pinks already dead and carried out with tidal and stream action. Total escapement in this system rated very poor this year. This system should get not less than 30,000 pinks.

LOWER INLET SURVEYS

1954

Stream or Lake	Date	Distance Surveyed	Counts	Remarks
Barabara Point (Fish Creek) No. 18	8/29	3 mi.	245 live pinks 57 dead "	3 hrs. and 25 min. on this stream. Easy to survey. Escapement rated poor.
Jackalof Bay Creek No. 19	8/28	2 mi.	48 live pinks 3 dead "	Mouth of creek to left of head of bay. Several streams running into bay but only one with any fish. Four log jams $\frac{1}{2}$ mile from mouth and four places of logs jammed rest of the way. This creek branches into a Y shape $1\frac{1}{2}$ mi. from mouth. This is a small, relatively unimportant system. More chums enter the stream than pinks--a more valuable survey could be made about July 15 to check chum escapement.
Tutka Bay Lagoon Stream No. 20	6/30	Entire upper area	800 chums	This was a foot survey; count given is for upper creek south of lagoon. Jumpers noted in lagoon, but no good estimate possible. Chums mature enough to indicate they had been in fresh water several days. Note the unusually early arrival date for chums in this system.
	7/9	Entire stream	800 to 1000 chums	Air survey. No new fish since foot survey on 6/30. Noted about 300 chums in lagoon in typical pod formation like a ball of herring.
	8/21	Entire stream	12000 pinks 5400 chums	These are fresh pinks, chums are mostly carcasses. Good showing of pinks.

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