

101-30-10830
DIVISION OF SPORT FISH
STREAM SURVEY SUMMARY

~~Rainier~~
Mainland

STREAM Humpback Creek
LOC. Ketchikan Area

MAP REF. Ketchikan A-3 & A-2 LAT. 55°01'57" LONG. 130°41'11"
TRIBUTARY TO Mink Bay-Boca de Quadra MAIN DRAINAGE _____
ORIGIN Humpback Lake LENGTH 8 miles WATERSHED AREA 20 sq. miles

1. FLOW RANGE _____ cfs VELOCITY 2-3 AVG. WIDTH 200 AVG. DEPTH 18-24"
FLOOD HEIGHT _____ COLOR/TURBIDITY _____

2. ACCESSIBILITY Aircraft from Ketchikan to lake or outlet & by boat. Buoy off mouth of creek. Boat can enter creek.

3. ACCESS STATUS Trail along creek from mouth to falls and on to lake. May be a cabin at falls.

4. SECTION SURVEYED Mouth to falls.
TRIBUTARIES _____

5. BOTTOM TYPE Excellent spawning gravel STREAM GRADIENT -1 %

6. POOLS - DESCRIPTION & FREQUENCY See attached Creek diagram.

7. BARRIERS Impass 40' falls approx. 1 mile up stream.

8. SPAWING AREA Approx. 1 mile of river spawnable (1500 ft.)

9. BANK COVER Spruce timber

10. WATERSHED TYPE Precipitation fed.

11. FISH SPECIES Steelhead, cutthroat, rainbow, Dolly Varden, cottoids, coho, pink (mostly) chum.

12. FISHING HISTORY Good steelhead fishing late April, early May.

13. FISHING INTENSITY _____

14. INVERTEBRATES Dungeness off mouth.
ABUNDANCE _____

15. AQUATIC VEGETATION _____

16. WATER USE None

17. POLLUTION None

18. REMARKS Information collected from Com. Fish cataloging data.

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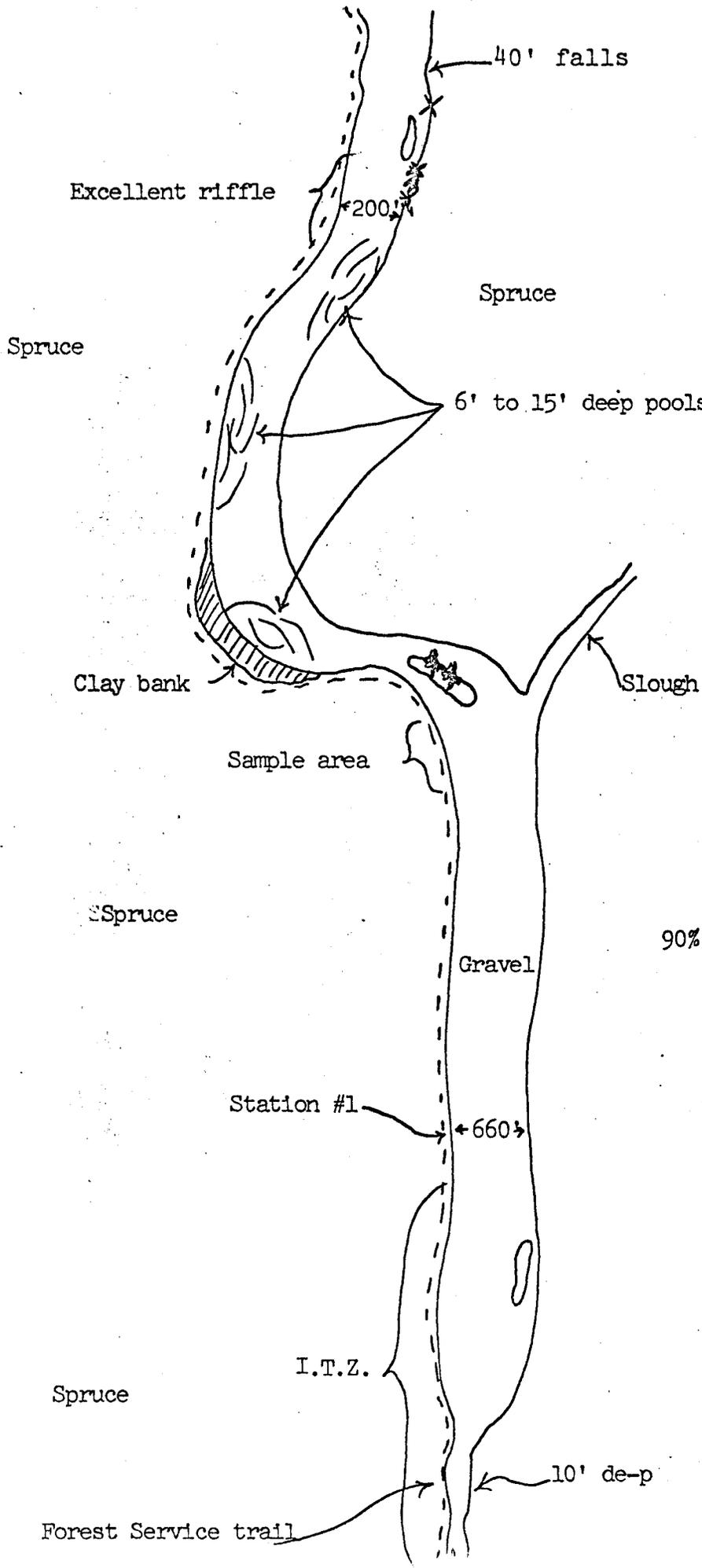
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BY Donald L. Siedelman DATE 7/15/74

Humpback Creek
101-30-83
Novak, Downey, Joyner
4-23-74



Pink remains found along
entire walked area.

90% available spawning area

Spruce

Forest Service trail

Name Humpback Catalog No. 101-30-10830
 Latitude 55° 01' 57" WR No. 18
 Longitude 130° 41' 11" K No. 21
 Geodetic Map No. Ketchikan - A-3 Work Area Ketchikan
 Location Boca de Quadra Watershed Length 8 miles
 Drainage Area of Watershed 20 square miles
 Water Supply Type Humpback Lake

Trails & Survey Routes Trail from mouth on north side.

Aerial Survey Notes The stream is easily observed from the air.

Anchorage Buoy off mouth of Humpback creek.

Tide Stage When Surveyed 3/4 tide and flooding.

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, red, trout

Escapement 425,000 pinks in 1937, 1973- 55,800 pink, ave. escapement 1960-1971 - 62,500.

Species Composition Pink - 90%, chum - 5%, red and coho - 5%. 175,371 m² ASA Opt. esc. 350,742 at 90% ASA.

Timing August - September - peak September - Middle.

Schooling areas Above rapids at mouth in narrows below flats.

Shellfish Potential Dungeness taken off mouth of creek associated with flats.

Sport Fisheries Steelhead and trout - cutthroat and Dolly Vard

Land Use at Present None

History of Land Use None known.

Rehabilitation Potential None necessary to the falls area. The falls are not possible to steep pass.

Soils Stable soils along stream on both sides. One area about 1 mile upstream has slippage on clay bank.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	30
	Number of droppings	4
Geese -----	Number seen on tide flats	
	Number seen up creek	4
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	
Seals -----	Number seen at mouth of stream	4
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

Alaska Department of Fish and Game
STREAM SURVEYS

A - Aerial
F - Foot Survey
T - Tower Count
W - Weir Count

Year _____
District _____

Stream Number	Location	Date of Survey	Distance of Survey	Number of Salmon at Mouth	Number of Salmon Intertidal	Number of Salmon in Stream				Remarks	Observed
						King	Red	Coho	Pink		
960		9/19	A					40,000			E.K.
961		9/8	A					45,000			E.K.
962		8/25	A					72,000			J.V.
963		8/27	A length	N.O.	35,000			62,000			C.L.R.
964		9/4	A length	1,500	3,000			22,000			L.R.S.
965		8/23	A length	10,000	1,000			24,000			C.L.R.
966		8/13						85,000			C.L.R.
967		8/24	H falls	many	N.O.			59,800			L.R.S.
968		8/27	A length	excell showing off mouth				43,000			C.L.R.
969		9/8	F length	few jumps	N.O.			188,000			DAD?
970		8/25	A length	10,000	3,000			37,200			J.J.B.
971		8/28	A entire	N.O.	include			40,000			W.D.R.
		8/30	H. to falls	DARK 1 Jump	N.O.			30,700			Vis. Excell. No Carcass. Fish in Grps of 50-100-200 C.L.R.

66' wide
30' intervals

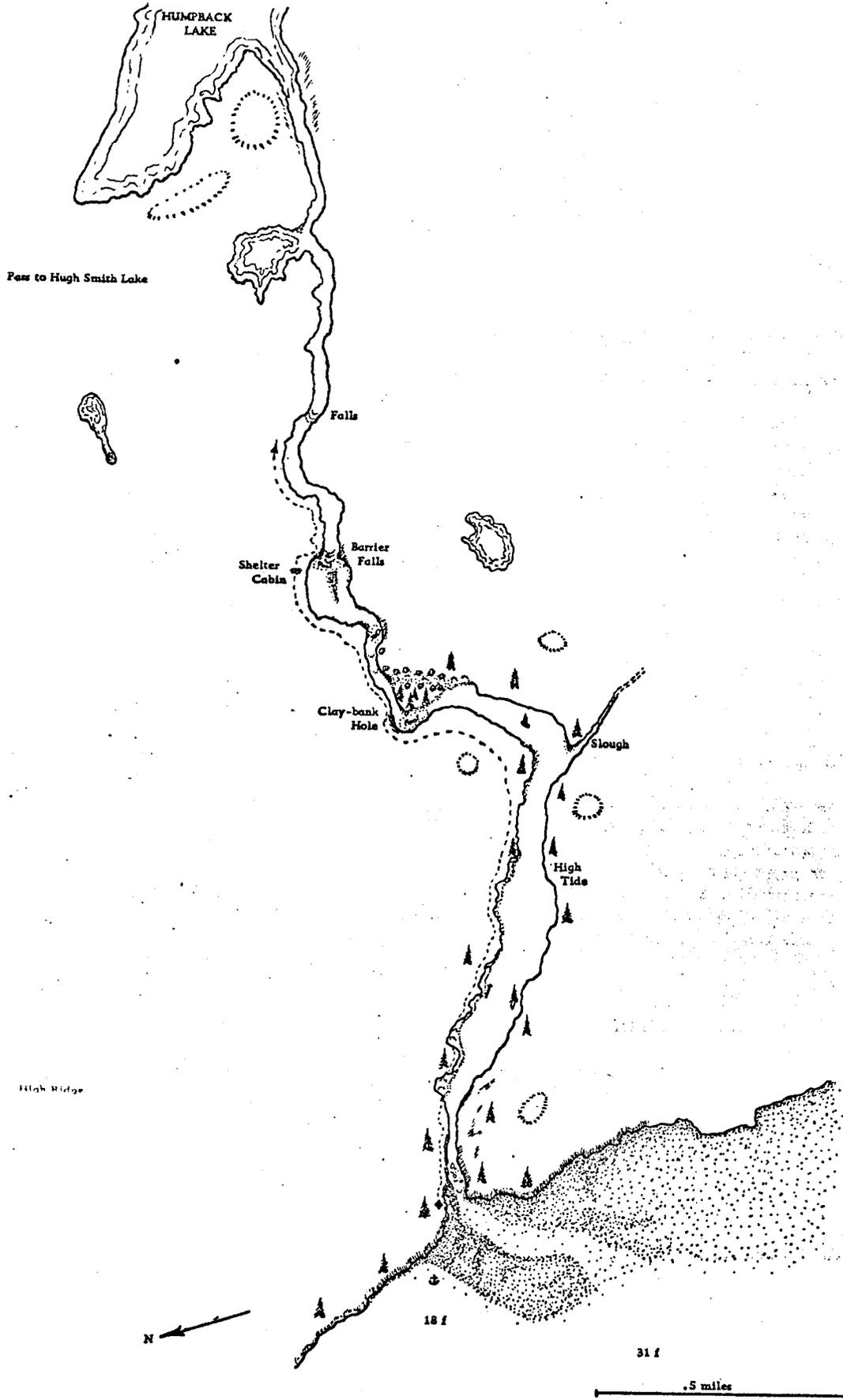
FLOW BOARD MEASURES

Depth	1.6	.6	.62	.70	.55	.80
Head	1.6	.62	.65	.70	.57	.83

Depth	1.5	.77	1.5	.80	.9	.32	.68
Head	1.7	.79	1.7	.81	.91	.33	.68

Depth	.95	.90	1.32	1.2	.25	.48	1.58
Head	.97	.91	1.34	1.31	.26	.50	1.50

Depth	1.46	1.38
Head	1.47	1.38



High Ridge

KETCHIKAN, BOCA DE QUADRA, MINK ARM, East shore .7 miles from head

- MAJOR SPECIES Pink
- OTHER SPECIES Chum, coho, red, trout
- ESCAPEMENT TIMING Aug.-Sep., peak Sep. ESCAPEMENT MAGNITUDE 50-200,000
- SPAWNING FACILITIES Excellent throughout stream.
- STREAM TEMPERATURES Warm range in Aug.-Sep. (Observed range 51°-64°F., 1949; 54°-59°F., 1950; 52°-62°F., 1951; 50°-63°F., 1953).
- VALLEY DESCRIPTION Stream cut glacial valley. High mountains. Granite and quartz.
- DRAINAGE Humpback Lake (4 miles long, 1,000 acres) at 240' elevation. Drainage area about 20 square miles. Mountains mainly high barren rock with some small cirque lakes and early snow fields. Discharge is 285 cubic feet per second. (Dort Report)
- STREAM MOUTH IDENTIFICATION Mouth is a narrow opening in shore line. Steep hill side on S. of opening and rises to high ridges on N. trail marker on N. side of mouth. Stream flows through a rapids. Delta extends over half way into Mink Arm.
- ANCHORAGE .2 miles N. of mouth next to shore. Anchorage is at drop-off and other anchorages in Mink Arm are preferred for stormy or overnight stays.
- TRAILS AND SURVEY ROUTES Forest Service trail starts at trail marker at mouth on N. Side. It follows the intertidal zone to high tide and cuts through the woods to the clay bank hole and through to the shelter cabin beside the terminal falls. The trail continues to Humpback Lake. The surveys on foot can be made downstream with better results.
- AERIAL SURVEY NOTES The stream is easily observed from the air. Flights in light planes may be made either upstream or downstream. During winds, the windward side of the stream above the high tide point should be avoided due to sinking air. Humpback Lake head has a pass on the S. side into the head of Fillmore Inlet (K 8) lake and stream.

INTERTIDAL ZONE

- LENGTH .8 miles
- AVERAGE WIDTH/DEPTH 350'/18"
- GRADIENT AND VELOCITIES Less than 1° at 1-2' per second
- BOTTOM Coarse sand throughout the flats mixed with small gravel to 3" diameter.
- LOW TIDE LOCATION Lower end of the rapids at the mouth of the stream.
- HIGH TIDE LOCATION The lower end of the constricted stream above the broad intertidal flats, .25 miles below the first bend in the stream.
- SCHOOLING AREAS 1. Entering salmon school above rapids at mouth in narrows below flats. Deeper water and shade from steep hillside offer shelter. 2. Area near high tide. 3. Entire flats during peak of run. The intertidal zone has ridges and troughs running across the stream that the salmon lie in during schooling and spawning.
- SPAWNING AREAS 1. Upper flats. 2. Lower schooling area (limited). 3. Entire flats during large runs.
- GENERAL NOTES Flats easily walked at low to moderate water levels and mid to low tide. Skiffs may be taken upstream on high tide for drift surveying. High trees along the shore or on a small island on S. bank may be used for observations of large sections of the flats. The ridges and depressions make walking difficult during high water.

UPSTREAM

- LENGTH ACCESSIBLE 1 mile
- AVERAGE WIDTH/DEPTH 200'/24"
- GRADIENT AND VELOCITIES 1-2° toward upper stream at 2' per second
- BOTTOM Coarse sand 25%, gravel to 3" 25%, more than 3" gravel 50%. Clean, some algae in upper areas.
- MARKER DISTANCE 1 mile.
- MARKER IDENTIFICATION 40' falls, shelter cabin on N. bank, large gravel and boulders below falls.
- BARRIERS Falls are impassable to salmon. Inclination over 45° over granite.
- TRIBUTARIES One small tributary enters .3 miles above high tide on S. bank as a slough. Little current and not important for spawning.
- SCHOOLING AREAS 1. Lower stream contains salmon at all stages of run. 2. Clay bank hole .5 miles above high tide is large deep pool with logs for shelter. Difficult observations. 3. Hole .7 miles above high tide below flats at terminal falls, a large boulder in stream on S. bank offers shelter. 4. Some salmon lie in hole at base of falls.
- SPAWNING AREAS The area from high tide to the clay bank hole is the primary area. Early spawning is above clay bank hole to falls.
- GENERAL NOTES Stream is best surveyed by drifting in skiff. Stream can be ascended by skiff and propeller protected motor.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS Adjective Rating
	Miles	By	Live	Dead	Live	Dead	Live	
1928								
Sep 7		FWS	80,000		20,000			
1929								
Sep 24	G 1.7	FWS	425,000		20			
1937								
Aug 12	G 2.0	FWS						500 fish off mouth. None in stream
Sep 27		FWS	300,000					Large number of dead fish
1938								
Sep 9		FWS	10,000		500			20,000 fish off mouth
1939								
Sep 15		FWS						Poor. <100,000 in bay and creek
1940								
Sep 12		FWS	35,000		4,000			Poor. 8,000 off mouth
Sep 28	G 2.0	ASI, FWS	200,000					Fair. Few chum
1941								
Sep 6	G .2	FWS						Poor. 100,000 fish off mouth
Sep 10	G 1.0	FWS	100,000					Fair. 100,000 fish off mouth
Oct 3	G 2.0	FWS	150,000					Good. 150,000 may have spawned.
1942								
Aug 14	G 1.0	FWS						No fish in stream
Sep 13	G 1.0	FWS	200,000					Good. 10,000 off mouth
Sep 14	G 2.0	ASI	200,000					Fair. Few chum. 20,000 fish off mouth
Sep 22		ASI	250,000					Good
1943								
Sep 12		FWS	275,000		50			25,000 fish off mouth
Sep 19	G 1.0	FWS	75,000		10,000			Fair. 100,000 fish off mouth
1945								
Sep 14	G 1.2	FWS	250,000					Good. Few chum. 20,000 fish off mouth
1946								
Oct 2	A 2.0	ASI						Good escapement. No estimate
1947								
Sep 21	G 1.2	FRI	200,000		2,000			Excellent. Several 1,000 off mouth
Oct 1	G 1.2	FRI, FWS	200,000		4,000		200 coho	Excellent
1948								
Aug 8	G .1	ASI						No fish seen
Aug 19	G 1.2	ASI	35,000				200 red	2,000 fish off mouth
Aug 28	G 1.0	FWS	50,000					Poor
Sep 10	G 2.5	FWS	15,000	100	100		20 red	
Sep 27	G 1.0	FWS	150,000					Good
1949								
July 24	G 1.2	FWS	300					
Aug 14	G 1.2	FRI	17,000	2	7		1 coho, 200 red	
Aug 30	G 1.2	FRI	27,400	180				Some chum and coho
Sep 23	G 1.2	FRI	60,000	8,000	1,000			
Oct 2	G 1.2	FWS	180,000					
1950								
Aug 6	G .7	FRI	10,350		0		4 red	
Aug 10	A 1.0	ASI, FRI, FWS						Excellent
Aug 15	G 1.0	FRI	16,000	0	100	0	6 red, 0 dead red	
Aug 27	G 1.0	FRI	24,000		250	0	6 red, 0 dead red	Several dead pink
Sep 8	G 1.0	FRI	32,000	150	3,000	0		10,000 at mouth
Sep 19	G 1.0	FRI	50,000	6,000	1,000		coho, red present	20,000 at mouth
Sep 30	G 1.0	FRI	13,400	770	112	13	8 coho	

HUMPBACK CREEK - Continued

Date	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
	Miles	By	Live	Dead	Live	Dead	Live	Adjective Rating
1951								
Aug 6	G 1.0	FRI	10,350	0	0	0		Very few off mouth
Aug 16	G .8	FRI	8,700	0	0	0	4 red	Limited visibility
Aug 29	G .8	FRI	11,900		0	0	5 red, few coho	Few dead pink
Sep 12	G .8	FRI	22,400	1,400	150	0	Some coho, red	5-10,000 off mouth
Sep 26	G .8	FRI	3,100	2,900	400	350	Some coho	10-12,000 in rocky chuck at mouth
1952								
Aug 20	G 1.0	FRI	14,800	0	0	0		Few off mouth. Water discolored
Sep 1	G 1.0	FRI	9,450	350	45		8 coho	Sev. dead chum. Some outside
Sep 13	G 1.0	FRI	11,800	800	610		150 coho, 1 red	Few dead chum. Some fresh fish
Sep 13	G Weir	FWS	3,299					Final total. Weir installed July 12
Oct 7	G 1.0	FRI	100	500	50		1,000 coho	Few dead chum
1953								
July 1	G 1.0	FWS						No salmon present
July 17	A .0	FWS						Jumpers present at mouth
July 18	A .0	FWS						No jumpers seen at mouth, few present
July 28	A .5	FWS						No fish seen. Streamguard saw few
Aug 7	G .0	FWS						Pink present at mouth
Aug 16	G 1.0	FRI	16,850	10			1 red	Few chum. Might be promising
Aug 19	A .0	FWS						Poor. Few on wide riffle
Aug 21		FWS	14,000					Poor
Aug 25	A 1.0	FWS	18,000					Poor. Poor visibility
Aug 29	G 1.0	FRI	24,500	0	0	0		Stream very high, visibility 10%
Sep 5		FWS						Few chum, coho, and pink
Sep 10		FWS						Coho and pink going up into creek
Sep 13	G 1.0	FRI	13,750	1,850	190	20	290 coho, 150 red	Visibility 40%. A few off mouth
Sep 25	G .7	FRI	5,500	800	1,700	150	350 coho	Peak, very high water
Sep 25	G	FWS	2,600		2		2 red	Poor. Some coho. Couple 100 dead
Oct 2	A .8	FRI	4,000	1,000				Some chum
1954								
Aug 19	G .7	ADF	2,900					3,000 at creek mouth
Aug 23	A 1.0	FRI	3,500					Few chum. Few at mouth
Aug 25	G .0	FWS	27,000					Fair. Few pink lower stream
Sep 16	A 1.0	FRI	18,000		1,000			None observed in bay
Sep 27	A 1.0	FRI	25,000		1,000			Few at mouth
1955								
July 31	A 1.0	FRI	200					>1,000 at mouth
Aug 12	G 1.0	ADF	10,300					2,000 at mouth
Aug 12	A 1.0	FRI	13,000					
Aug 23	A 1.0	FRI	30,000					
Sep 6	A 1.0	FRI	60,000					12,000 at mouth. In bay
Sep 7	A 1.0	FRI	60,000					12,000 at mouth
Sep 8	G 1.5	FWS	>38,000					12,000 at mouth
Sep 15	A 1.0	FRI	100,000					
Sep 25	A 1.0	FRI	150,000					10,000 at mouth
1956								
July 23	A 1.0	FRI						All spawning equal to 1949
July 31	A 1.0	FRI						None observed
Aug 13	A 1.0	FRI						None observed
Aug 16		FWS	3,000					Some at mouth
Aug 19		FWS	35,000					
Aug 21		FWS	5,800					
Aug 24	A 1.0	FRI	9,000					
Aug 26	G 1.0	FWS	25,000					
Aug 28		FWS	6,000					Most fresh and just entered
Sep 3		FWS	11,000					
		FWS	15,100		950		950 coho	

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	Miles	By	Live	Dead	Live	Dead	Live	
1956								
Sep 6	A 1.0	FRI	>20,000					None observed at mouth
Sep 6		FWS	28,000		2,000		100 coho	
Sep 16	A 1.0	FRI	25,000					30,000 at mouth
Sep 24	A 1.0	FRI	50,000					None at mouth, many in intertidal
1957								
July 20		FWS	500		1,000			
July 21		FWS	5,000		1,000			
July 22		FWS	1,200					
July 26		FWS						3-4,000 pink at mouth
July 27		FWS						1,000 pink at mouth
July 28	A 1.0	FRI	4,000					Lower stream, pools, upper flats fresh
July 28		FWS	1,000					
July 30		FWS	1,500					
July 31		FWS	10,000					
Aug 1		FWS						8,000 pink off mouth
Aug 3		FWS	20,000					
Aug 9		FWS	30,000					
Aug 10	A 1.0	FRI	25,000					Jumpers observed. All fresh
Aug 11	A 1.0	FRI	17,000					
Aug 13		FRI	33,000					400 pink off mouth
Aug 14		FWS	40,000					1,000 new fish
Aug 19	A 1.0	FRI	50,000					Few chum. Fresh, schooled, in pools
Aug 25		FWS	1,000					Few fish in stream
Sep 1	A 1.0	FRI	65,000					Fresh moving, schooled in flats, hals
Sep 6	G	FRI	65,000		100			
Sep 6		FWS	60,000		100			5,000 pink at mouth
Sep 8	A 1.0	FRI	80,000	>100				Many fresh, scattered throughout
Sep 16	G 1.0	FRI	65,000	2,500				
Sep 16	A 1.0	FRI	70,000					Some dead pink
Sep 16		FWS	80,000		100			Fair
Sep 20	A 1.0	FRI	45,000	1,000				

1960

7/30 - A - ADF - 1000
 8/26 - ✓ - ✓ - 15,000
 8/28 - ✓ - ✓ - 20,000
 9/19 - ✓ - ✓ - 40,000

1961

7/14 - A - ADF - No fish
 7/20 - G - ✓ - 150
 7/21 - A - ✓ - 300
 7/24 - ✓ - ✓ - 1100
 7/28 - ✓ - ✓ - 1300
 7/31 - ✓ - ✓ - 5-6000
 8/2 - ✓ - ✓ - Fish present - Dis pool
 8/7 - ✓ - ✓ - 15,000 - Fish moving up steadily
 8/21 - ✓ - ✓ - 20,000
 9/8 - ✓ - ✓ - 45,000 - same spawning

1962

6/25 - G - ADF - 12 PINK

ST
VA
DR
ST
AN
TR
AEI
GEN
GEN
307
HIG
SCH
SPA
GEN
GEN
GRA
307
MAR
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Sep 28
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Oct 3
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Sep 19