

The Resources Agency of California
Department of Fish and Game

ANNUAL REPORT
IRON GATE SALMON AND STEELHEAD HATCHERY
1966-67^{1/}

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Region 1, Inland Fisheries

SUMMARY

King salmon, Oncorhynchus tshawytscha, started entering the trap on September 8, 1966. The run ended on November 14, 1966. During this period 3,062 king salmon, 2 male and 2 female silver salmon, Oncorhynchus kisutch, were trapped. The first steelhead trout, Salmo gairdnerii gairdnerii, entered the trap on September 11. This fall run ended December 10, 1966. In the spring of 1967 the first steelhead trout entered the trap on February 15, and the last on April 25.

Production data are as follows:

Species	Number adults trapped	Number females spawned	Number eggs taken	Number fingerlings planted	Number yearlings planted	On hand June 30, 1967
King salmon	2,739	1,549	5,576,400	3,461,970	--	--
Silver salmon	4	--	--	--	82,054	57,000 ^{2/}
Steelhead trout	299	116	263,619	--	34,738	345,250 ^{3/}

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^{1/} Submitted November, 1967.

Inland Fisheries Administrative Report No. 67-15.

^{2/} Balance on hand of silver salmon received from Cascade Hatchery in December, 1966.

^{3/} Includes SH fingerlings hatched from eggs taken, SH salvaged from Siskiyou County streams, and SH yearlings remaining on hand.

INTRODUCTION

This report covers the sixth year of operation of the trapping facilities at Iron Gate. These facilities were completed by Pacific Power and Light Company in February, 1962, and have been operated by the Department of Fish and Game during the spring and fall of each year.

The hatchery was constructed by Pacific Power and Light Company to compensate for spawning areas blocked by the Iron Gate Project. This is the second report since the hatchery was completed in February, 1966. The Department of Fish and Game, under agreement with Pacific Power and Light Company, began operation of the hatchery in March, 1966. The trapping facilities and hatchery are located eight miles east of Hornbrook, Siskiyou County.

This report summarizes the number of fish trapped and spawned, production of eggs and fish, and water conditions from July 1, 1966 through June 30, 1967.

KING SALMON MAINTENANCE PROGRAM

A number of salmon were observed in the powerhouse tailrace early in September. The fish ladder was opened on September 7, 1966, and the first salmon entered the trap on September 8. When the run ended on November 14, 3,062 fish had been trapped. Of these, 1,128 were males, 1,609 females, and 325 grilse. The 1,549 females spawned produced 5,576,400 eggs. Eleven lots of eggs were taken, the first on October 6 and the last on November 14. Of the females trapped and not spawned, 58 died in the ponds and 2 were released on November 14.

Average fertility of the eggs was 88%. Many king salmon fingerlings did not take to the dry feed and losses were high. A marking program planned by Pacific Power and Light Company was canceled due to the poor condition of the fish. On April 17, 1967, the screens in the raceways were removed and 3,461,970 king salmon released. At this time they averaged 58.8/oz.

One male and one female KS entered the trap in the spring of 1967 and are being held for fall spawning.

SILVER SALMON MAINTENANCE PROGRAM

Only 2 male and 2 female silver salmon entered the trap during the fall of 1966. One female died prior to ripening and the other was spawned on November 11. The 1,932 eggs received were hatched and the fingerlings placed with the Cascade silver salmon fingerlings.

The first plant of yearling silver salmon was made on October 3, 1966, when 7,571 fish were released. These fish averaged 4.42/lb. On November 1 the remaining 75,263 silver salmon, averaging 9.3/lb., were released.

On December 16, 1966, 65,500 eyed silver salmon eggs were received from Cascade Hatchery in Oregon, via Trinity River Hatchery.

STEELHEAD MAINTENANCE PROGRAM

During the fall of 1966 a total of 196 steelhead trout entered the trap. These fish were placed in the ponds and held for spawning in the spring.

The first spring steelhead entered the trap on February 15, 1967. A total of 103 more steelhead were trapped bringing the grand total to 299. Thirteen lots of eggs were taken from 116 females, producing 263,519 eggs, averaging 2,273 eggs per female. Ten females died in the holding ponds and 9 were released not spawned on May 1. Average fertility of the eggs was 94%. Of the 245,200 steelhead hatched, only 116,400 were on hand June 30. Heavy losses were suffered from disease. The disease was diagnosed as *Ceratomyxa chasta* and was controlled by lowering the water temperature to 49° F.

On May 9, 1967, 23,873 yearling steelhead were released, via holding pond #1, at the trapping facility. These fish averaged 9.7/lb. The second plant of yearling steelhead was made on June 13, 1967, when 10,865 fish, averaging 10.6/lb., were released at the entrance to the fish ladder. Thirty-seven thousand three hundred fifty yearling steelhead remained on hand June 30. These fish will be held until they average 10/lb. and will be released later in the year when water temperatures are cooler.

The Yreka Screen Shop crew salvaged 203,978 fingerling steelhead and delivered them to the hatchery to supplement those hatched at the hatchery. These fish were rescued from Brush, Dry, and Little Bogus creeks in Siskiyou County. One hundred ninety-one thousand five hundred salvaged steelhead fingerlings were on hand June 30. These fish will be released as yearlings when they average 10/lb.

APPENDIX

APPENDIX

- TABLE A-1. Yearly Comparison of Fish Trapped - Iron Gate Salmon and Steelhead Hatchery. Compares the number of fish, by species trapped at Iron Gate trapping facilities from July 1, 1964 through June 30, 1967.
- TABLE A-2. Chart of Operation - Enumerates details of each activity.
- TABLES A-3 through A-14. Weather, Water, and Fish Data. Summarizes daily air and water temperature, weather condition, and number of fish, by species, trapped at Iron Gate Hatchery.
- FIGURES A-1 through A-3. Show weekly number of King salmon and steelhead trout trapped.

TABLE A-1

Yearly Comparison of Fish Trapped
Iron Gate Salmon and Steelhead Hatchery
July 1, 1964 through June 30, 1967

Species	July 1, 1964 through June 30, 1965	July 1, 1965 through June 30, 1966	July 1, 1966 through June 30, 1967
King salmon			
Male	837	141	1,129
Female	1,651	224	1,610
Total adults	2,488	365	2,739
Grilse	110	313	325
Totals	2,598	678	3,064
Silver salmon			
Male	--	2	2
Female	--	--	2
Total adults	--	2	4
Grilse	--	--	--
Totals	--	2	4
Steelhead trout			
Adults	1,065	227	299

TABLE A-2

Chart of Operation
Iron Gate Salmon and Steelhead Hatchery
1966-67

Species	Adult fish trapped	Females spawned	Eggs taken	Eggs received by transfer	Fish received by transfer	Fingerlings planted	Yearlings planted	Fish on hand June 30, 1967
King salmon								
Male	1,129							
Female	1,610							
Grilse	325							
Totals	2,064	1,549	5,576,400			3,461,970		--
Silver salmon								
Male	2							
Female	2							
Grilse	-							
Totals	4			65,500 ^{1/}			82,854	57,000
Steelhead trout	299	116	263,619		203,978 ^{2/}		34,738	345,250

^{1/} Eggs received by transfer from Trinity River Hatchery.

^{2/} Fingerlings salvaged from Brush, Dry, and Little Bogus creeks.

TABLE A-3

Iron Gate Salmon and Steelhead Hatchery
Weather, Water, and Fish Data
July, 1966

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	72	56	57	54	Cloudy					
2	46	42	55	55	Rain					
3	77	40	55	55	Clear					
4	88	46	55	54	Clear					1
5	93	52	55	54	Clear					
6	87	50	55	54	Clear					
7	88	48	58	53	Clear					
8	83	55	55	54	Cloudy					
9	81	51	54	54	Rain					
10	84	46	55	54	Clear					
11	86	53	55	55	Cloudy					
12	81	52	56	55	Cloudy					
13	84	52	55	55	Cloudy					
14	80	53	55	54	Cloudy					
15	87	50	55	54	Cloudy					
16	89	48	56	55	Clear					
17	90	48	55	55	Clear					
18	90	54	57	56	Clear					
19	91	50	56	56	Clear					
20	92	50	59	57	Clear					
21	96	52	58	56	Clear					
22	98	51	56	56	Clear					
23	95	54	56	55	Clear					
24	80	55	57	56	Clear					
25	86	50	57	56	Clear					
26	93	50	57	56	Clear					
27	94	55	58	49	Clear					
28	98	57	60	48	Clear					
29	102	59	60	52	Clear					
30	91	60	55	52	Cloudy					
31	93	54	55	53	Clear					
Totals:						--	--	--	--	1

TABLE A-4
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 August, 1966

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	99	56	55	53	Clear					
2	102	60	55	53	Cloudy					
3	104	63	55	52	Clear					
4	88	54	55	53	Clear					
5	92	54	54	53	Clear					
6	95	52	55	53	Clear					
7	96	52	55	53	Clear					
8	88	54	54	53	Cloudy					
9	93	52	54	53	Clear					
10	92	56	56	53	Clear					
11	90	53	55	53	Clear					
12	96	50	54	53	Clear					
13	93	50	55	54	Cloudy					
14	98	54	55	54	Clear					
15	102	54	55	55	Clear					
16	102	58	55	54	Clear					
17	101	66	54	53	Rain					
18	101	52	56	52	Cloudy					
19	97	52	54	53	Cloudy					
20	92	52	56	53	Clear					
21	99	55	55	53	Clear					
22	91	55	55	52	Cloudy					
23	92	53	55	54	Cloudy					
24	90	43	55	54	Clear					
25	82	46	55	54	Rain					
26	74	50	55	54	Cloudy					
27	86	48	55	53	Cloudy					
28	88	49	55	53	Clear					
29	70	44	55	53	Cloudy					
30	72	50	55	53	Cloudy					
31	82	42	55	53	Clear					
Totals						--	--	--	--	--

TABLE A-5

Iron Gate Salmon and Steelhead Hatchery
Weather, Water, and Fish Data
September, 1966

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	84	48	55	54	Clear					
2	90	46	55	54	Clear					
3	97	49	55	54	Clear					
4	100	50	55	54	Clear					
5	98	50	55	54	Clear					
6	92	46	55	54	Cloudy					
7	88	48	55	54	Cloudy					
8	86	48	56	53	Clear	10	6			
9	88	45	56	54	Clear					
10	83	47	55	53	Cloudy					
11	65	51	56	54	Rain	1	1			1
12	72	33	56	54	Cloudy					
13	72	42	55	54	Cloudy					
14	70	43	56	54	Cloudy					
15	82	43	55	54	Clear					
16	90	43	55	54	Cloudy					
17	88	45	55	54	Cloudy	1	1			
18	65	48	55	54	Rain	2				
19	84	45	55	54	Cloudy	1				
20	82	48	55	54	Cloudy					
21	92	48	55	54	Clear	4				
22	86	48	55	53	Clear	4	2			1
23	86	44	55	54	Clear	4				1
24	82	44	55	54	Clear	2				
25	80	45	56	54	Cloudy	32	22			
26	74	53	55	54	Cloudy	52	12			1
27	86	40	56	54	Clear	11	8			
28	94	43	56	54	Clear	73	9			3
29	97	45	56	54	Clear	65	5			1
30	91	46	57	53	Clear	47	6			2
Total						309	73			10

TABLE A-6
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 October, 1966

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	87	44	50	56	Cloudy	147	14			5
2	78	46	58	57	Clear	111	11			1
3	80	48	53	55	Clear	117	17			4
4	85	36	58	55	Clear	89	10			2
5	87	37	58	55	Clear	61	19			2
6	84	40	58	55	Clear	40	6			1
7	79	49	59	56	Clear	173	20			4
8	76	40	58	56	Clear	239	18			6
9	70	49	58	56	Clear	157	27			2
10	84	34	59	56	Clear	57	10			4
11	75	37	58	56	Rain	177	25			
12	67	37	59	56	Cloudy	217	23			4
13	60	37	59	56	Clear	49	2			4
14	67	29	59	56	Clear	144	12			3
15	67	30	59	56	Cloudy	148	9			3
16	73	31	59	57	Clear	110	10			6
17	75	33	59	56	Clear	44	2			2
18	73	34	59	56	Clear	10	3			8
19	70	36	59	56	Cloudy	120	2			4
20	67	32	58	56	Cloudy	39	2			1
21	59	35	57	55	Clear	30	3			
22	65	40	56	55	Rain	62	3			
23	74	55	55	54	Cloudy	35	2			2
24	78	40	55	54	Clear	8				
25	83	37	54	54	Clear	2	1			1
26	75	41	54	54	Clear	4				1
27	71	39	54	54	Cloudy	5				1
28	74	32	55	54	Clear	2	1			2
29	74	36	54	52	Cloudy	3				5
30	78	36	55	54	Cloudy	4				3
31	80	36	55	54	Clear	6				1
Totals:						2,410	252			82

TABLE A-7

Iron Gate Salmon and Steelhead Hatchery
Weather, Water, and Fish Data
November, 1966

Date	Temperature (Degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilce	Adults	Grilce	
1	79	33	54	52	Clear	3				3
2	74	32	54	52	Cloudy	1				5
3	75	32	54	52	Clear	2				2
4	76	37	53	52	Cloudy	3				3
5	66	34	53	52	Cloudy	1				3
6	55	40	53	52	Rain					9
7	52	34	53	52	Cloudy	1				4
8	54	26	53	52	Clear	1				8
9	52	28	53	52	Rain	3				7
10	52	36	52	51	Rain	1				5
11	56	42	51	50	Rain					5
12	62	46	50	50	Rain	1		1		2
13	53	48	50	50	Rain					2
14	65	46	50	49	Rain	1		1		4
15	55	46	50	49	Rain					4
16	51	36	50	50	Clear					5
17	61	36	50	50	Cloudy					7
18	64	40	50	49	Cloudy					4
19	66	53	50	49	Rain			2		2
20	64	36	50	49	Rain					3
21	49	30	50	49	Cloudy					5
22	43	22	50	48	Clear					2
23	44	25	49	48	Cloudy					1
24	44	22	49	48	Clear					1
25	41	22	49	48	Cloudy					1
26	52	35	49	48	Cloudy					1
27	46	28	48	47	Cloudy					
28	50	40	48	47	Rain					
29	58	42	47	46	Cloudy					
30	62	37	47	46	Cloudy					
Totals						18	--	4	--	92

TABLE A-3
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 December, 1966

Date	Temperature (degrees F.)				Weather	Fish trapped					
	Air		Water			King salmon		Silver salmon		Steelhead trout	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse		
1	50	43	47	45	Cloudy						
2	56	35	47	46	Rain						
3	60	38	46	46	Rain						
4	52	40	45	43	Rain					3	
5	53	32	45	44	Cloudy						
6	47	29	45	44	Cloudy						
7	52	38	45	43	Cloudy						
8	50	33	44	44	Cloudy					5	
9	45	33	44	44	Snow					1	
10	53	40	44	44	Cloudy					2	
11	58	32	44	42	Cloudy						
12	56	35	43	43	Cloudy						
13	53	38	43	42	Rain						
14	51	32	42	41	Cloudy						
15	54	30	42	41	Clear						
16	52	28	42	41	Cloudy						
17	45	28	42	40	Cloudy						
18	44	34	41	40	Cloudy						
19	39	33	41	41	Fog						
20	35	33	41	41	Cloudy						
21	50	22	40	40	Cloudy						
22	51	25	40	39	Rain						
23	52	25	40	39	Cloudy						
24	46	26	40	39	Cloudy						
25	48	29	40	39	Rain						
26	47	26	40	39	Cloudy						
27	49	22	40	39	Cloudy						
28	47	26	40	39	Cloudy						
29	46	29	40	39	Rain						
30	46	23	40	39	Cloudy						
31	50	22	39	38	Clear						
Totals:						--	--	--	--		11

TABLE A-9

Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 January, 1967

Date	Temperature (Degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	43	22	39	38	Cloudy					
2	50	22	38	37	Cloudy					
3	50	26	38	38	Cloudy					
4	57	32	38	37	Cloudy					
5	51	27	38	38	Snow					
6	46	23	38	38	Cloudy					
7	42	23	38	37	Cloudy					
8	48	20	38	36	Clear					
9	49	25	38	37	Cloudy					
10	52	33	38	37	Cloudy					
11	53	32	38	37	Cloudy					
12	50	26	38	37	Cloudy					
13	57	40	37	37	Cloudy					
14	50	28	37	36	Cloudy					
15	50	35	37	36	Cloudy					
16	54	18	37	36	Cloudy					
17	53	24	37	36	Cloudy					
18	52	25	37	36	Clear					
19	54	25	37	36	Windy					
20	46	36	38	37	Rain					
21	41	34	38	37	Snow					
22	40	20	38	36	Clear					
23	47	22	38	36	Cloudy					
24	49	36	38	38	Cloudy					
25	50	31	38	37	Cloudy					
26	48	33	38	37	Snow					
27	51	35	38	37	Rain					
28	53	41	37	37	Rain					
29	57	40	37	37	Cloudy					
30	47	30	38	38	Cloudy					
31	55	34	38	37	Clear					
Totals						--	--	--	--	--

TABLE A-10
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 February, 1967

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	55	31	38	36	Cloudy					
2	56	28	38	36	Clear					
3	58	27	38	36	Cloudy					
4	61	27	38	36	Cloudy					
5	63	26	38	36	Clear					
6	61	24	38	36	Clear					
7	62	22	38	36	Clear					
8	58	23	39	38	Clear					
9	63	26	39	38	Cloudy					
10	65	29	39	38	Clear					
11	64	28	39	38	Cloudy					
12	65	27	40	38	Clear					
13	50	27	40	38	Cloudy					
14	46	27	40	39	Snow					
15	46	31	40	40	Snow					1
16	51	31	40	40	Rain					2
17	60	41	40	40	Rain					2
18	49	32	40	40	Cloudy					1
19	54	24	41	40	Clear					4
20	60	22	41	40	Clear					
21	62	20	42	40	Clear					1
22	66	26	42	39	Clear					5
23	67	23	42	39	Cloudy					6
24	60	32	42	40	Cloudy					
25	54	37	41	40	Cloudy					2
26	59	24	42	40	Cloudy					
27	63	25	41	41	Clear					
28	69	30	42	41	Cloudy					
Totals:						--	--	--	--	24

TABLE A-11

Iron Gate Salmon and Steelhead Hatchery
Weather, Water, and Fish Data
March, 1967

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	58	34	41	41	Rain					
2	58	25	42	41	Cloudy					
3	53	26	41	41	Clear					
4	59	20	41	40	Clear					1
5	67	22	42	40	Clear					1
6	68	24	43	41	Clear					
7	67	24	43	41	Clear					3
8	70	26	44	41	Clear					3
9	59	32	44	41	Cloudy					6
10	41	36	42	41	Rain					
11	45	24	43	42	Snow					
12	49	20	43	42	Snow					1
13	50	22	44	43	Cloudy					
14	53	30	43	40	Cloudy					3
15	57	34	42	41	Cloudy					
16	60	44	42	41	Rain					
17	61	38	44	42	Rain					2
18	57	35	43	42	Cloudy					5
19	59	26	44	42	Rain					14
20	63	38	43	42	Cloudy					3
21	68	32	44	42	Cloudy					1
22	63	42	44	42	Cloudy					2
23	56	40	44	43	Cloudy					
24	58	39	46	44	Cloudy					3
25	57	32	45	44	Cloudy					1
26	62	28	46	44	Cloudy					
27	63	30	46	44	Cloudy					2
28	52	34	45	44	Snow					
29	48	30	45	44	Snow					
30	53	33	45	44	Snow					
31	54	31	45	44	Snow					
Totals						--	--	--	--	51

TABLE A-12
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 April, 1967

Date	Temperature (degrees F.)				Weather	Fish trapped					
	Air		Water			King salmon		Silver salmon		Steelhead trout	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse		
1	60	29	46	44	Cloudy						
2	66	26	46	44	Clear					2	
3	60	27	46	44	Cloudy						
4	62	28	46	44	Cloudy					1	
5	55	40	46	44	Rain						
6	60	36	46	44	Rain						
7	63	38	46	45	Cloudy						
8	64	36	47	46	Cloudy						
9	63	38	48	45	Cloudy						
10	59	41	45	44	Cloudy					4	
11	56	31	48	45	Cloudy						
12	63	30	48	46	Cloudy						
13	62	30	49	46	Rain					8	
14	55	31	47	46	Rain					2	
15	52	32	48	48	Cloudy						
16	56	30	48	46	Cloudy						
17	44	34	47	46	Snow						
18	53	26	48	47	Snow						
19	56	30	48	47	Snow					2	
20	56	29	48	47	Cloudy					3	
21	63	26	48	47	Cloudy						
22	60	27	49	48	Rain					2	
23	60	35	48	48	Cloudy						
24	60	38	51	48	Cloudy						
25	58	39	50	48	Cloudy					4	
26	59	28	49	48	Rain						
27	54	32	49	47	Snow						
28	57	26	50	48	Cloudy						
29	54	34	48	47	Cloudy						
30	60	34	48	47	Cloudy						
Totals:						--	--	--	--		28

TABLE A-13

Iron Gate Salmon and Steelhead Hatchery
Weather, Water, and Fish Data
May, 1967

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	68	28	50	47	Clear					
2	71	32	49	48	Cloudy					
3	74	33	50	48	Cloudy					
4	73	36	54	48	Cloudy					
5	74	33	52	48	Cloudy					
6	79	38	52	50	Cloudy					
7	88	44	53	51	Clear					
8	87	45	55	50	Rain					
9	53	48	54	50	Rain					
10	55	34	54	53	Cloudy					
11	56	35	54	53	Rain					
12	64	36	56	53	Cloudy					
13	76	33	56	53	Clear					
14	85	37	56	53	Clear					
15	91	44	56	53	Clear					
16	95	46	58	54	Clear					
17	92	50	58	55	Clear					
18	89	47	61	58	Clear					
19	92	48	61	58	Clear					
20	97	49	61	58	Clear					
21	96	51	61	59	Clear					
22	92	51	59	58	Clear					
23	83	51	60	58	Clear	1				
24	74	43	60	58	Clear					
25	84	40	59	58	Clear					
26	85	44	60	58	Clear					
27	79	44	60	58	Cloudy					
28	76	52	59	58	Cloudy					
29	69	43	59	58	Cloudy					
30	68	41	59	58	Rain					
31	55	40	59	58	Cloudy					
Totals:						1	--	--	--	--

TABLE A-14
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data
 June, 1967

Date	Temperature (degrees F.)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	56	46	58	58	Rain					
2	75	35	58	56	Cloudy					
3	84	40	57	50	Clear					
4	90	50	58	56	Cloudy					
5	90	46	58	50	Cloudy					
6	76	47	58	50	Clear					
7	77	48	59	50	Clear					
8	77	42	58	50	Clear					
9	76	48	59	56	Clear					
10	75	41	59	56	Cloudy					
11	76	48	59	57	Cloudy					
12	74	47	60	56	Cloudy	1				
13	82	44	60	58	Cloudy					
14	91	47	60	58	Cloudy					
15	93	50	60	58	Clear					
16	93	53	59	58	Clear					
17	100	54	60	58	Cloudy					
18	99	59	60	58	Cloudy					
19	100	65	61	58	Rain					
20	89	57	62	49	Rain					
21	77	51	50	48	Cloudy					
22	75	45	51	48	Clear					
23	88	45	51	48	Clear					
24	96	50	49	47	Clear					
25	100	56	50	46	Clear					
26	92	57	50	46	Clear					
27	86	54	50	46	Clear					
28	97	54	50	46	Clear					
29	106	59	50	46	Clear					
30	106	62	50	46	Clear					
Totals						1	--	--	--	--
GRAND TOTALS						2,739	325	4	--	299

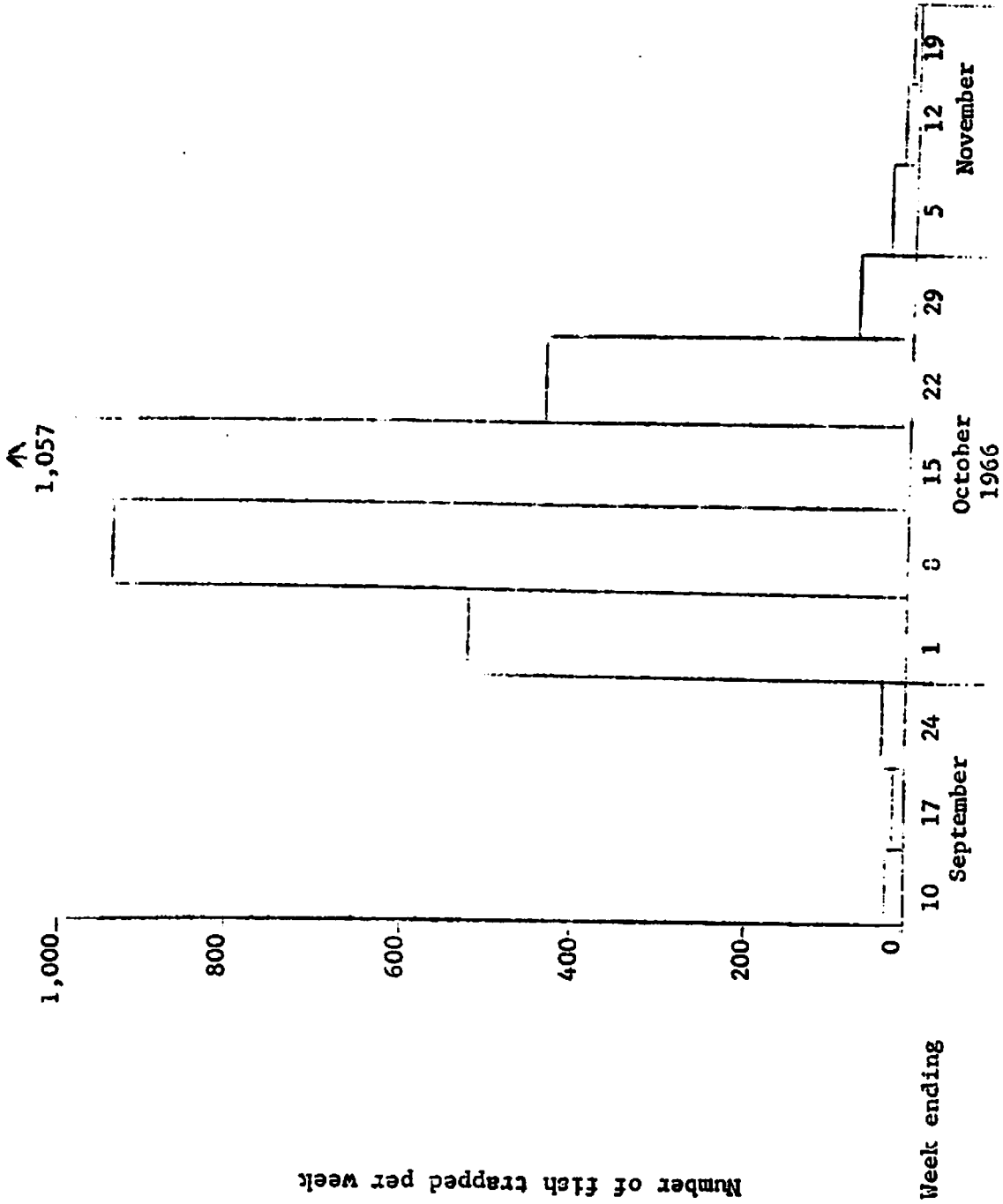


FIGURE A-1. King salmon trapped at Iron Gate Salmon and Steelhead Hatchery. Weekly fish count September 7, 1966 through November 19, 1966.

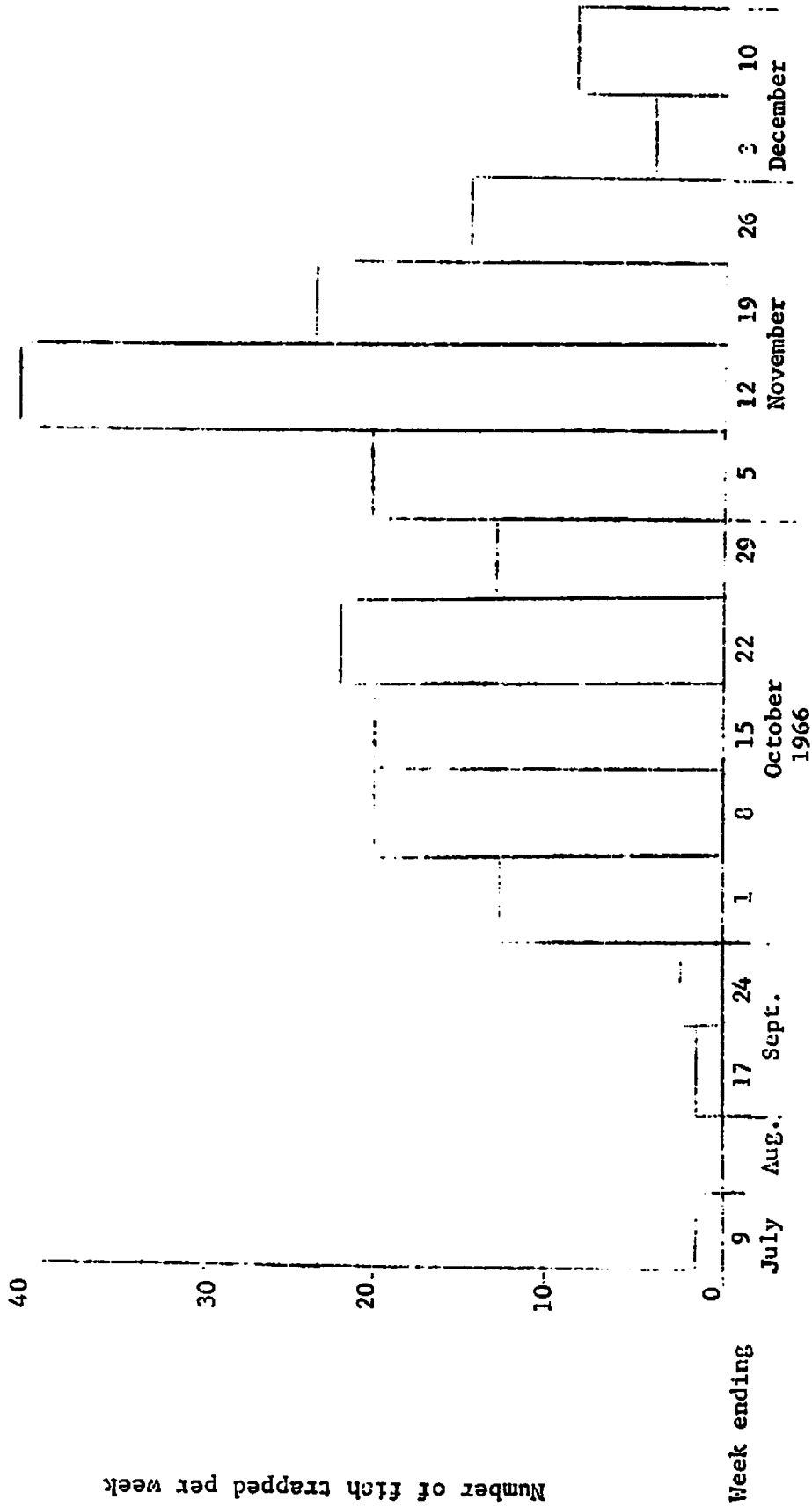


FIGURE A-2. Steelhead trout trapped at Iron Gate Salmon and Steelhead Hatchery. Weekly fish count July 3, 1966 through December 10, 1966.

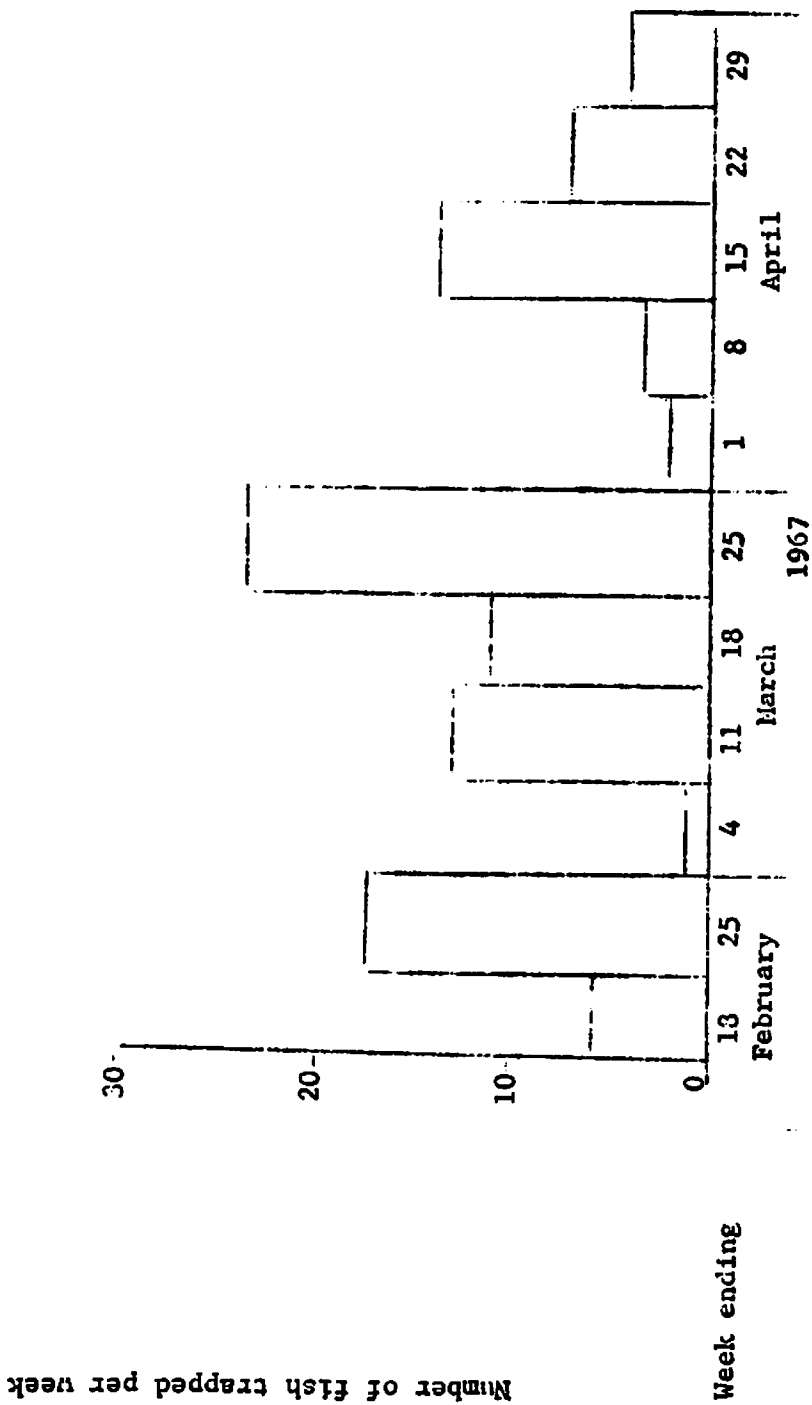


FIGURE A-3. Steelhead trout trapped at Iron Gate Salmon and Steelhead Hatchery. Weekly fish count February 12, 1967 through April 29, 1967.