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ANNUAL REPORT  
WARM SPRINGS SALMON AND STEELHEAD HATCHERY  
1981-82

by

Don F. Estey  
Region 3, Inland Fisheries

Anadromous Fisheries Branch  
Administrative Report No. 82-30

1982

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ABSTRACT

This report describes the operation of Warm Springs Salmon and Steelhead Hatchery from July 1, 1981 through June 30, 1982. Tables present daily records of water temperatures, weather conditions, daily numbers of salmon and steelhead entering the hatchery, and numbers of salmonids reared and released.

No chinook salmon, Oncorhynchus tshawytscha, were trapped this season. There were 4 coho salmon, O. kisutch, and 359 steelhead, Salmo gairdneri, trapped at the hatchery this season. One marked steelhead (adipose) was trapped. There were 198,610 fingerling chinook salmon and 66,400 fingerling and 30,820 yearling coho salmon planted. Also planted were 362,136 fingerlings and 53,380 yearling steelhead.

## INTRODUCTION

This is the 2nd annual report for operation of the Warm Springs Salmon and Steelhead Hatchery. It describes operation of the hatchery from July 1, 1981 through June 30, 1982 (for production summary, see Table 1). Copies of the previous annual report are available upon request from the Anadromous Fisheries Branch, Rancho Cordova.

Warm Springs Hatchery is located on Dry Creek, 14 miles upstream from its confluence with the Russian River, 2 miles south of Healdsburg, Sonoma County. The hatchery was constructed by the Department of the Army, Corps of Engineers to compensate for spawning and nursery areas blocked by the Warm Springs Dam - Lake Sonoma Project. The Department of Fish and Game, under agreement with the Department of the Army, operates the fish hatchery and related facilities.

This report summarizes the numbers of fish trapped and spawned, production of eggs and fish, and water and weather conditions from July 1, 1981 through June 30, 1982.

## PRODUCTION SUMMARY

The ladder was opened November 15, 1981. No chinook salmon were trapped during this report period. Four coho salmon and 359 steelhead were trapped and 84,200 yearlings and 627,146 fingerlings released or transferred during the 1981-82 season (Table 1 and Appendix Table 1). All fish were fed a diet of Oregon Moist Pellets (OMP).

The hatchery had 104,200 visitors in 1981-82.

## DISEASE

Several outbreaks of columnaris occurred but were controlled with the use of Terramycin.

## CHINOOK SALMON PROGRAM

### History of the 1981-82 Season

There were no chinook salmon trapped at the hatchery this season. However, we assisted with the spawning operations at Hollow Tree Creek and received a total of 147,000 eggs for incubation. Of these, 96,250 fingerlings were transferred to Silverado Fisheries Base and 12,000 fingerlings were retained to rear for release as yearlings. We also received 50,000 eggs from Silverado Fisheries Base (Wisconsin origin) and 60,000 fingerlings from SilverKing Oceanic Farms. The resulting fish were released as fingerlings into Dry Creek (Table 2). ]

TABLE 1. Warm Springs Hatchery Production Summary

Species	Fish on hand 7/1/81	Adults trapped	Females spawned	Eggs taken or received	Eggs transferred	Fingerlings received	Fingerlings transferred or planted	Yearlings planted	Total pounds released	Fish on hand 6/30/82
Chinook salmon										
1981 BY	0	0	0	197,000	0	60,000	198,610	0	2,930	20,900
Coho salmon										
1980 BY	52,000	0	0	0	0	0	0	30,820	4,600	0
1981 BY	0	4	0	923,216	670,550	0	66,400	0	1,050	34,400
Steelhead										
1981 BY	101,400	0	0	0	0	0	0	53,380	10,975	0
1982 BY	0	359	102	552,000	0	0	362,136	0	861.6	106,000
TOTALS	153,400	363	102	1,672,216	670,550	60,000	627,146	84,200	20,416.6	161,300

TABLE 2. Chinook Salmon Plants

Date	Strain	Release Site	Number Per Lb.	Number
3/22/82	Wisconsin	Dry Creek	51	43,860
5/04/82	Ocean King	Dry Creek	45	58,500
TOTAL				102,360

COHO SALMON PROGRAM

History of the 1981-82 Season

There were four coho salmon trapped at the hatchery this season. They arrived from November 25, 1981 to February 20, 1982 (Appendix Table 1). No eggs were taken at the hatchery but eggs were received from Iron Gate Hatchery and Noyo River.

A total of 734,216 green eggs were received from Noyo River and 670,550 eyed eggs were shipped to Mad River Hatchery. We received 189,000 eggs from Iron Gate Hatchery.

We released 34,400 yearlings coho salmon (1980 BY) and 66,600 fingerling coho salmon (1981 BY) in Dry Creek (Table 3). There were 34,400 fingerlings on hand June 30, 1982.

TABLE 3. Coho Salmon Plants

Date	Strain	Release Site	Number Per Lb.	Number
2/18/82	Iron Gate	Dry Creek	6.7	30,820
5/04/82	Iron Gate	Dry Creek	56	47,600
5/12/82	Iron Gate	Dry Creek	94	18,800
TOTAL				97,220

STEELHEAD TROUT PROGRAM

History of the 1981-82 Season

Between November 25, 1981 and March 31, 1982, 359 steelhead were trapped at the hatchery (Figure 1). There were 102 females spawned which produced

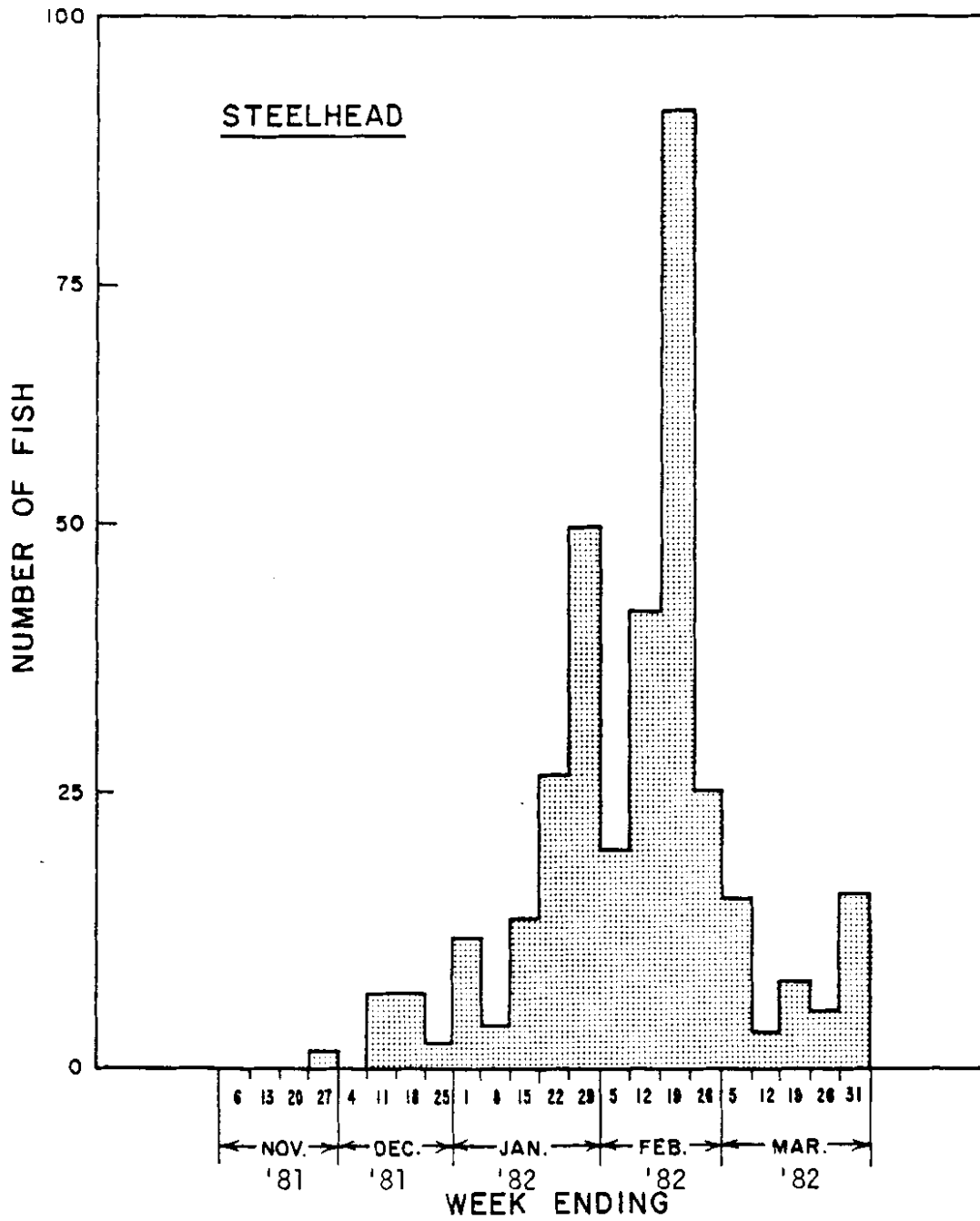


FIGURE 1. Weekly numbers of steelhead trapped at Warm Springs Hatchery, 1981-82 season.

552,000 eggs, an average of 5,412 eggs per female. These eggs provided nearly 475,000 fingerlings.

During the year we released 306,816 steelhead into Dry Creek and tributaries of the Russian River (Table 4). We transferred 108,000 fingerlings to Silverado Fisheries Base. These were used to restock flooded streams in Marin County and for the Napa and Gualala Rivers Rearing Ponds. The Water Quality Lab picked up 700 fingerlings for bio-assay work. There were 106,000 fingerlings on hand June 30, 1982.

TABLE 4. Steelhead Trout Plants

Date	Strain	Release Site	Number Per Lb.	Number
1/20/82	Dry Creek	Dry Creek	4	14,900
1/21/82	Dry Creek	Dry Creek	5.1	23,460
2/18/82	Dry Creek	Dry Creek	5.6	15,020
4/14/82	Dry Creek	Warm Springs Creek	312	17,784
4/15/82	Dry Creek	Big Sulphur Creek	544	13,056
4/16/82	Dry Creek	Little Sulphur Creek	600	10,800
4/16/82	Dry Creek	Porter Creek	1,040	19,240
5/11/82	Dry Creek	Briggs Creek	440	14,080
5/12/82	Dry Creek	Briggs Creek	440	17,600
5/18/82	Dry Creek	Upper Dry Creek	225	10,800
5/19/82	Dry Creek	Upper Dry Creek	272	11,400
5/19/82	Dry Creek	Mill Creek	504	17,640
5/20/82	Dry Creek	Mark West Creek	512	10,240
5/20/82	Dry Creek	Pena Creek	440	16,280
5/26/82	Dry Creek	Briggs Creek	384	14,592
5/28/82	Dry Creek	Maacama Creek	364	14,560
5/28/82	Dry Creek	Mill Creek	364	14,560
6/04/82	Dry Creek	Mill Creek	284	14,484
6/08/82	Dry Creek	Squaw Creek	264	10,560
6/08/82	Dry Creek	Bear Creek	284	11,360
6/14/82	Dry Creek	Warm Springs Creek	240	14,400
<b>TOTAL</b>				<b>306,816</b>

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PUBLIC RELATIONS

As expected, the visitor use was very high at the hatchery. All visitors to the hatchery must enter through the Visitors Center where they are counted. The total number of visitors during the fiscal year 1981-82 was 104,200 (Table 5).

TABLE 5. Warm Springs Hatchery  
Monthly Visitation Data

F.Y. 1981-82

<u>Month</u>	<u>Number of Visitors</u>	
	<u>This Month</u>	<u>Total to Date</u>
1981		
July	13,185	13,185
August	14,721	27,906
September	6,489	34,395
October	11,368	45,763
November	4,650	50,413
December	2,250	52,663
1982		
January	3,747	56,410
February	8,225	64,635
March	8,879	73,514
April	9,686	83,200
May	10,000	93,200
June	11,000	104,200



APPENDIX TABLE 1. Warm Springs Salmon and Steelhead Hatchery Temperature, Weather, and Fish Data  
1 July 1981 through 30 June 1982

July	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	70	69	83	48	Fog	
2	70	69	82	49	Fog/Clear	
3	70	69	90	49	Fog/Clear	
4	70	69	93	49	Ptly Cloudy	
5	70	69	96	64	Showers	
6	70	69	88	47	Fog	
7	70	69	90	57	Clear	
8	70	69	93	51	Clear	
9	70	69	97	48	Clear	
10	70	69	95	51	Clear	
11	70	69	92	47	Clear	
12	70	69	85	43	Clear	
13	70	69	88	62	Clear	
14	70	69	96	64	Clear	
15	70	69	101	47	Fog/Clear	
16	70	69	93	50	Fog/Clear	
17	72	71	84	51	Fog/Clear	
18	72	71	82	49	Clear	
19	72	71	89	47	Fog/Clear	
20	72	71	92	47	Fog/Clear	
21	72	71	94	47	Clear	
22	72	71	95	46	Fog/Clear	
23	72	71	92	45	Clear	
24	72	71	91	50	Fog/Clear	
25	72	71	88	47	Clear	
26	72	71	92	46	Fog/Clear	
27	72	71	82	50	Fog/Clear	
28	72	71	80	53	Fog/Clear	
29	72	71	84	51	Fog/Clear	
30	72	71	82	49	Fog/Clear	
31	72	71	82	52	Clear	

APPENDIX TABLE 1. (continued)

August	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	72	71	81	50	Fog/Clear	
2	72	71	85	48	Clear	
3	72	71	89	61	Clear	
4	72	71	89	49	Clear	
5	72	71	91	50	Clear	
6	72	71	98	50	Clear	
7	72	71	100	52	Clear	
8	72	71	105	50	Fog/Clear	
9	72	71	98	51	Fog/Clear	
10	72	71	89	54	Fog/Clear	
11	72	71	80	54	Fog/Clear	
12	72	71	85	47	Clear	
13	72	71	86	54	Fog/Drizzle	
14	72	71	77	55	Fog	
15	72	71	80	47	Clear	
16	72	71	91	48	Clear	
17	72	71	92	51	Clear	
18	72	71	88	51	Clear	
19	72	71	78	49	Clear	
20	72	71	88	48	Clear	
21	72	71	86	54	Clear	
22	72	71	98	48	Clear	
23	72	71	88	52	Drizzle	
24	72	71	80	54	Clear	
25	72	71	80	47	Clear	
26	72	71	86	54	Clear	
27	72	71	98	58	Clear	
28	72	71	105	53	Clear	
29	72	71	102	54	Clear	
30	72	71	94	62	Clear	
31	72	71	93	63	Clear	

APPENDIX TABLE 1. (continued)

September	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	72	71	96	52	Clear	
2	72	71	96	50	Clear	
3	72	71	88	49	Fog/Clear	
4	72	71	82	49	Fog/Clear	
5	72	71	86	51	Clear	
6	72	71	97	49	Clear	
7	72	71	82	54	Overcast	
8	72	71	83	50	Overcast	
9	72	71	88	51	Fog/Clear	
10	72	71	85	47	Clear	
11	72	71	92	49	Fog/Clear	
12	72	71	86	53	Fog/Clear	
13	72	71	79	53	Overcast	
14	72	71	79	52	Overcast	
15	72	71	80	53	Overcast	
16	72	71	83	48	Fog/Clear	
17	72	71	85	48	Clear	
18	72	71	85	51	Clear	
19	72	71	83	47	Fog/Clear	
20	72	71	82	54	Overcast	
21	72	71	82	50	Clear	
22	72	71	79	52	Clear	
23	72	71	92	56	Clear	
24	72	71	86	46	Overcast	
25	72	71	86	52	Overcast	
26	72	71	79	53	Overcast/Clear	
27	72	71	76	60	Drizzle	
28	72	71	68	51	Ptly Cloudy	
29	72	71	70	50	Overcast	
30	72	71	71	53	Clear	

APPENDIX TABLE 1. (continued)

October	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	72	71	91	52	Clear	
2	72	71	89	48	Overcast	
3	72	71	63	50	Cloudy	
4	72	71	71	49	Clear	
5	72	71	75	44	Clear	
6	72	71	80	47	Clear	
7	72	71	78	51	Cloudy	
8	72	71	68	45	Cloudy	
9	72	71	72	47	Cloudy	
10	72	71	75	49	Cloudy	
11	72	71	66	43	Clear	
12	68	67	66	41	Cloudy	
13	68	67	68	41	Cloudy	
14	68	67	67	41	Clear	
15	68	67	72	41	Clear	
16	68	67	76	41	Clear	
17	68	67	82	40	Clear	
18	68	67	80	41	Clear	
19	68	67	82	41	Clear	
20	68	67	79	40	Clear	
21	68	67	81	40	Clear	
22	68	67	80	41	Clear	
23	68	67	81	40	Clear	
24	68	67	88	39	Clear	
25	68	67	67	44	Fog	
26	68	67	61	50	Fog/Drizzle	
27	68	67	62	48	Rain	
28	64	63	62	52	Fog	
29	64	63	62	43	Clear	
30	64	63	62	41	Clear	
31	64	63	71	44	Clear	

APPENDIX TABLE 1. (continued)

November	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	64	63	77	44	Clear	
2	64	63	79	44	Clear	
3	64	63	79	40	Cloudy	
4	64	63	78	41	Clear	
5	64	63	66	50	Cloudy	
6	64	63	66	49	Clear	
7	64	63	69	42	Clear	
8	64	63	73	41	Clear	
9	64	63	72	46	Cloudy	
10	64	63	70	47	Clear	
11	64	63	64	54	Drizzle	
12	60	59	61	56	Drizzle	
13	60	59	64	54	Rain	
14	60	59	65	49	Cloudy	
15	60	59	65	50	Rain	
16	60	59	65	50	Cloudy	
17	60	59	64	58	Cloudy	
18	60	59	64	40	Clear	
19	60	59	63	40	Clear	
20	60	59	60	41	Cloudy	
21	60	59	60	51	Rain	
22	60	59	60	50	Cloudy	
23	60	59	60	54	Rain	
24	60	59	63	48	Clear	
25	60	59	59	40	Clear	2
26	60	59	59	41	Fog	
27	60	59	60	40	Cloudy	
28	58	57	53	36	Clear	
29	58	57	61	36	Cloudy	
30	58	57	62	35	Cloudy	
Monthly Total						2

APPENDIX TABLE 1. (continued)

December	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	56	55	66	40	Fog	
2	56	55	65	41	Clear	
3	56	55	65	44	Clear	
4	54	54	68	42	Fog	
5	54	54	51	44	Fog	
6	54	54	50	46	Fog	
7	54	54	54	48	Cloudy/Fog	
8	54	54	65	48	Fog	
9	54	54	59	43	Drizzle	2
10	54	54	58	40	Cloudy	2
11	54	54	56	37	Cloudy	3
12	54	54	59	37	Showers	
13	54	54	52	45	Showers	
14	54	54	55	51	Cloudy	2
15	54	54	60	52	Clear	1
16	54	54	60	37	Patchy Fog	
17	54	54	62	38	Cloudy	1
18	54	54	57	39	Showers	3
19	54	54	59	50	Rain	
20	54	54	60	52	Fog/Showers	
21	54	54	59	51	Ptly Cloudy/Windy	
22	54	54	59	51	Cloudy	
23	54	54	55	50	Fog	2
24	54	54	58	43	Fog	
25	54	54	60	52	Showers	
26	54	54	61	44	Showers	
27	54	54	59	45	Cloudy	
28	53	53	55	38	Cloudy	5
29	53	53	59	51	Rain	1
30	53	53	60	48	Ptly Cloudy	
31	53	53	61	47	Cloudy	6
<u>Monthly Total</u>						28
<u>Cumulative Totals</u>						30

APPENDIX TABLE 1. (continued)

January	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	53	53	63	43	Clear	1
2	53	53	52	35	Fog	1
3	53	53	47	29	Cloudy/Rain	
4	53	53	47	30	Rain	
5	53	53	47	44	Cloudy	2
6	53	53	55	32	Clear/Frost	1
7	53	53	54	25	Clear	
8	53	53	57	28	Clear	
9	53	53	54	29	Clear	
10	53	53	63	32	Clear	
11	53	53	63	34	Clear	1
12	53	53	55	29	Clear	10
13	53	53	66	36	Clear	3
14	53	53	66	34	Clear	
15	53	53	54	27	Clear	
16	53	53	52	27	Fog	
17	53	53	44	34	Fog	
18	53	53	44	36	Fog	7
19	53	53	49	32	Showers	8
20	53	53	42	37	Rain	10
21	53	53	43	36	Clear	
22	53	53	48	29	Cloudy	3
23	53	53	50	33	Cloudy	4
24	53	53	56	34	Clear	5
25	53	53	57	28	Clear	4
26	53	53	61	36	Cloudy	11
27	53	53	54	30	Fog	17
28	53	53	51	31	Showers	14
29	53	53	55	34	Clear	
30	53	53	57	29	Clear	
31	53	53	66	35	Clear	
Monthly Total						102
Cumulative Totals						132

APPENDIX TABLE 1. (continued)

February	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	53	52	62	38	Fog	
2	53	52	65	37	Fog	7
3	53	52	70	47	Clear	
4	53	52	64	42	Cloudy	13
5	53	52	63	42	Cloudy	2
6	53	52	68	46	Clear	2
7	53	52	70	45	Clear	
8	53	52	60	46	Cloudy	2
9	53	52	58	40	Fog	
10	53	52	66	42	Fog	
11	53	52	68	44	Showers	5
12	53	52	69	43	Cloudy	32
13	53	52	68	37	Cloudy	
14	53	52	65	37	Rain	
15	53	52	70	45	Clear	70
16	53	52	70	46	Clear	8
17	53	52	68	41	Cloudy	5
18	53	52	75	48	Clear	11
19	53	52	70	47	Clear	
20	53	52	66	40	Fog	8
21	53	52	60	46	Fog	
22	53	52	68	44	Fog	15
23	53	52	72	38	Clear	
24	53	52	70	45	Clear	
25	53	52	65	40	Overcast	4
26	53	52	65	42	Cloudy	
27	53	52	61	35	Cloudy	
28	53	52	60	40	Rain	
<b>Monthly Total</b>						<b>184</b>
<b>Cumulative Totals</b>						<b>316</b>



APPENDIX TABLE 1. (continued)

March	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	53	52	59	50	Rain	10
2	53	52	63	41	Ptly Cloudy	
3	53	52	63	37	Overcast	
4	53	52	63	36	Clear	5
5	53	52	65	37	Clear	
6	53	52	67	40	Clear	
7	53	52	68	43	Cloudy	
8	53	52	59	48	Rain	3
9	53	52	62	48	Overcast/Fog	
10	53	52	63	48	Drizzle	
11	53	52	63	49	Ptly Cloudy	
12	54	53	65	40	Ptly Cloudy	
13	54	53	70	42	Ptly Cloudy	
14	54	53	52	45	Showers	
15	54	53	59	30	Clear	7
16	54	53	56	36	Cloudy	
17	54	53	53	38	Ptly Cloudy	2
18	54	53	58	34	Ptly Cloudy	
19	54	53	58	34	Cloudy	
20	54	53	60	33	Clear	3
21	54	53	63	31	Clear	
22	54	53	65	35	Clear	
23	54	53	67	40	Fog	
24	54	53	71	35	Fog	
25	55	54	63	36	Fog	1
26	55	54	60	39	Cloudy	
27	55	54	60	46	Ptly Cloudy	
28	55	54	63	39	Rain	
29	55	54	63	37	Rain	11
30	55	54	63	38	Rain	3
31	55	54	63	39	Showers	2
Monthly Total						47
Cumulative Totals						363

APPENDIX TABLE 1. (continued)

April	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	55	54	62	40	Drizzle	
2	55	54	63	35	Cloudy	
3	55	54	64	40	Cloudy	
4	55	54	60	41	Cloudy	
5	55	54	70	45	Clear	
6	55	54	75	45	Clear	
7	55	54	70	45	Clear	
8	55	54	68	43	Cloudy	
9	55	54	65	44	Cloudy	
10	55	54	64	40	Rain	
11	55	54	70	41	Rain	
12	55	54	68	47	Showers	
13	56	55	65	40	Overcast	
14	56	55	60	40	Overcast	
15	56	55	58	39	Clear	
16	56	55	70	49	Clear	
17	56	55	75	45	Clear	
18	56	55	56	43	Overcast	
19	56	55	55	48	Cloudy	
20	56	55	60	41	Fog	
21	56	55	68	44	Overcast	
22	56	55	65	40	Rain	
23	57	56	59	45	Rain	
24	57	56	67	47	Showers	
25	57	56	90	46	Clear	
26	57	56	86	51	Clear/Windy	
27	57	56	70	49	Clear/Windy	
28	57	56	65	40	Fog	
29	57	56	79	43	Clear	
30	57	56	75	39	Clear	
Cumulative Totals						363

APPENDIX TABLE 1. (continued)

May	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	57	56	73	40	Clear	
2	57	56	71	38	Clear	
3	57	56	81	53	Clear	
4	57	56	85	43	Clear/Windy	
5	57	56	91	46	Fog	
6	58	57	86	47	Fog	
7	58	57	85	45	Fog	
8	58	57	86	51	Fog	
9	58	57	86	45	Clear	
10	58	57	72	43	Clear	
11	58	57	70	41	Thunder Showers	
12	58	57	78	40	Fog	
13	58	57	73	46	Cloudy	
14	58	57	72	47	Clear	
15	58	57	79	40	Clear	
16	60	59	86	46	Clear	
17	60	59	88	56	Clear	
18	60	59	80	47	Clear	
19	60	59	80	48	Clear	
20	60	59	87	43	Clear	
21	60	59	83	45	Fog	
22	60	59	80	49	Clear	
23	60	59	91	60	Clear	
24	60	59	100	61	Clear	
25	60	59	101	50	Clear	
26	60	59	76	52	Showers	
27	60	59	75	41	Clear	
28	60	59	77	48	Overcast	
29	60	59	78	46	Overcast	
30	60	59	70	50	Fog	
31	60	59	74	50	Cloudy	
Cumulative Totals						363

APPENDIX TABLE 1. (continued)

June	Temperature (Degrees F)				Weather	Fish trapped Steelhead trout
	Water		Air			
	Maximum	Minimum	Maximum	Minimum		
1	60	60	69	48	Cloudy	
2	60	60	78	49	Clear	
3	60	60	77	48	Clear	
4	62	62	78	49	Cloudy	
5	62	62	70	48	Clear	
6	62	62	78	49	Clear	
7	62	62	79	43	Clear	
8	62	62	78	46	Clear	
9	62	62	83	47	Fog	
10	63	63	83	47	Fog	
11	63	63	83	45	Fog	
12	63	63	77	43	Cloudy	
13	63	63	80	47	Clear	
14	63	63	85	51	Clear	
15	63	63	94	50	Clear	
16	63	63	89	49	Fog	
17	64	64	82	50	Fog	
18	64	64	75	51	Fog	
19	64	64	72	52	Cloudy	
20	64	64	79	52	Fog	
21	64	64	79	53	Fog	
22	64	64	78	53	Fog	
23	65	65	79	56	Fog	
24	65	65	79	54	Fog	
25	65	65	77	52	Cloudy	
26	65	65	78	59	Cloudy	
27	65	65	80	57	Clear	
28	65	65	81	55	Cloudy	
29	65	65	78	54	Cloudy	
30	65	65	98	50	Fog	
Cumulative Totals						363