

Memorandum

To: Fisheries Management
Region 3

Date: September 20, 1979

From: **Department of Fish and Game**, Fisheries Management, Menlo Park

Subject: Redwood Creek, Marin County; Fish Population Sampling, August 15, 1979.

On August 15, 1979, Central Fishery District personnel and WCA Joe Baima used a Smith-Root Type V backpack electroshocker to sample fish populations at two sites on Redwood Creek.

Sampling Results by Station

Station 1: An approximate 700-ft. reach immediately downstream from the Dipsea Trail pedestrian bridge and upstream from the Frank Valley Road bridge in Muir Woods National Monument. Streammile 3.1. At 1300 hrs. water temperature was 58 F. Streamflow was visually estimated at 0.2 cfs. Pool and riffle reach with good riparian canopy. Shocking time: 2030 seconds.

<u>Species</u>	<u>Number</u>	<u>FL Range (inches)</u>	<u>Av. FL (inches)</u>
SH	59	1.5 - 7.3	2.8
SCP	42	1.2 - 5.1	2.7

Station 2: An approximate 700-ft. reach immediately upstream from the Muir Beach Road bridge. Streammile 0.5. At 1630 hrs. water temperature was 58 F. Streamflow was visually estimated at 0.2 cfs. Pool and riffle reach with good riparian canopy. Shocking time: 1950 seconds.

<u>Species</u>	<u>Number</u>	<u>FL Range (inches)</u>	<u>FL (inches)</u>
SH	67	1.8 - 6.0	2.8
SCP	36	1.2 - 4.5	3.0

Length-frequency distribution tables for SH and SCP are attached. All fish appeared in good physical condition.

Examination of the combined SH length-frequency distribution reveals at least three apparent age classes (see attached length-frequency table):

Probable Age

<u>Class</u>	<u>Number</u>	<u>FL Range (inches)</u>	<u>Av.FL (inches)</u>
0+	114	1.5 - 3.9	2.6
1+	10	4.3 - 6.0	5.3
older	2	7.2 - 7.3	7.2

It is significant to note that no silver salmon were observed at the two sampling stations. Silver salmon are known to have spawned in Redwood Creek within Muir Woods National Monument at least as late as the 1977-1978 winter season.

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Associate Fishery Biologist

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Assistant Fishery Biologist
Central Fishery District
Region 3

cc: WCA Joe Baima
Warden Russ Ild, Marin County
Superintendent, Muir Woods Nat. Mon.

KRA:gb

DEPARTMENT OF FISH AND GAME

LENGTH FREQUENCY

Redwood Creek,

August 15,

SPECIES Sculpin (SCP)

LOCATION Marin County

DATE 1979 NAME

FL, inches	Sta.1	Sta.2	Total				
0	1	0	0	0			0
1	1		1	1			1
2	2	1	3	2			2
3	3			3			3
4	4		2	4			4
5	5			5			5
6	6			6			6
7	7	1	1	7			7
8	8			8			8
9	9	1	1	9			9
0	2	1	2	0			0
1	1		1	1			1
2	2		1	2			2
3	3	1	2	3			3
4	4	1	2	4			4
5	5	1	2	5			5
6	6	1	2	6			6
7	7	1	2	7			7
8	8	1	2	8			8
9	9	1	2	9			9
0	3	1	5	0			0
1	1	1	2	1			1
2	2	1	2	2			2
3	3	1	2	3			3
4	4	1	2	4			4
5	5	1	2	5			5
6	6	1	2	6			6
7	7	1	2	7			7
8	8	1	2	8			8
9	9	1	2	9			9
0	4	1	2	0			0
1	1	1	2	1			1
2	2	1	2	2			2
3	3	1	2	3			3
4	4	1	2	4			4
5	5	1	2	5			5
6	6	1	2	6			6
7	7	1	2	7			7
8	8	1	2	8			8
9	9	1	2	9			9
0	5	1	2	0			0
1	1	1	2	1			1
2	2	1	2	2			2
3	3	1	2	3			3
4	4	1	2	4			4
5	5	1	2	5			5
6	6	1	2	6			6
7	7	1	2	7			7
8	8	1	2	8			8
9	9	1	2	9			9