

MAACAMA CREEK
T9N R8W S19

Maacama Creek originates on the western and southwestern slopes of Mt. St. Helena in northeastern Sonoma County. Flowing southwesterly, Maacama Creek enters the Russian River about four miles east of the town of Healdsburg.

Mean annual rainfall is about 27 inches with over half occurring during December, January and February. Stream flow becomes intermittent in the lower reaches of the creek during late summer and fall.

Maacama Creek is an important spawning and nursery area for steelhead in the Russian River drainage. Other species observed include green sunfish, bluegill, tule perch, roach, sucker, squawfish, sculpin, stickleback, and Pacific lamprey.

Trapping facilities to check the downstream migration of juvenile steelhead were installed in April 1965 and removed at the end of May. Eight species were trapped; steelhead-rainbow trout, bluegill, roach, green sunfish, squawfish, stickleback, sucker, and one Pacific lamprey. The most abundant species trapped were bluegill and trout. Total fish trapped was 5196.

Results are given for each trapping unit.

PERFORATED-PLATE TRAP

A perforated-plate trap was placed in Maacama Creek about five miles upstream from its confluence with the Russian River on April 29 and removed May 31, The trap was checked on 28 days during this period. Days not checked were May 3, 12, 14, 15.

For comparative purposes, the results are given for each seven days checked.

<u>DATE</u>	<u>SH/RT</u>	<u>BG</u>	<u>VR</u>	<u>SS</u>	<u>SB</u>	<u>PL</u>	<u>TOTAL</u>
4/30-5/7	685	66	44	-	-	1	796
5/8-5/17	178	4	43	1	-	-	226
5/18-5/24	211	2	26	2	1	-	242
5/25-5/31	38	-	12	1	5	-	56
Totals:	1112	72	125	4	6	1	1320

The greatest number of steelhead trout checked on any day was May 2 with 165 fish recorded. Trout were taken daily except on May 11, 13, 18, 19, 29, 31 of those days checked.

Fyke net #1

This unit was placed in an unnamed tributary immediately upstream from the perforated-plate trap. This trap was in operation from April 21 through May 6, a total of 16 days. The net was checked for fifteen days of this period.

3728 fish were trapped, 978 steelhead/rainbow trout, 2224 bluegill, 522 roach and 4 stickleback.

The fifteen days checked are presented in periods of five days.

<u>DATE</u>	<u>SH/RT</u>	<u>BG</u>	<u>VR</u>	<u>SB</u>	<u>TOTAL</u>
4/21-4/25	558	2009	78	3	2648
4/26-4/30	283	176	76	1	536
5/1 -5/6	137	39	368	-	544
	<u>978</u>	<u>2224</u>	<u>522</u>	<u>4</u>	<u>3728</u>

The greatest number of SH/RT captured any one day was 297 on April 23. Roach were ripe and believed close to spawning time.

Fyke net #2 - Redwood Creek

A fyke net was placed in Redwood Creek, a short distance upstream from its confluence with Maacama Creek, The net was functioning from April 21 through May 31, a total of 41 days. The net was checked daily except on May 3, 12, 15.

<u>DATE</u>	<u>SH/RT</u>	<u>VR</u>	<u>TOTAL</u>
4/21-4/27	46	-	46
4/28-5/4	42	-	42
5/5 -5/11	5	2	7
5/12-5/18	15	-	15
5/19-5/25	37	-	37
5/26-5/31	1	-	1
	<u>146</u>	<u>2</u>	<u>148</u>

32 SH/RT on April 30 was the largest daily number of these fish netted.

Summary

1. Three locations on the Maacama Creek drainage yielded 5196 fish.

2.

SH/RT	2236	43.0
BG	2296	44.2
Roach	649	12.5
Stickleback	10)	
Squawfish	4)	0.3
P. lamprey	1)	
	5196	100.0

3.

2066 SH/RT	under 4 inches	92.4%
147 "	4 to 15 "	6.6%
23 "	over 15 "	1.0%

4. Water temperatures 55-65
Air " 59-96

5. Excluding SH/RT, 15 inches or over, 1171 SH/RT (52.9%) were trapped prior to May 1, an average of 56 fish per day of trapping effort. The first half of May averaged 28 fish per unit of trapping effort while the last half (May 16-31) averaged 10 fish per unit of effort.

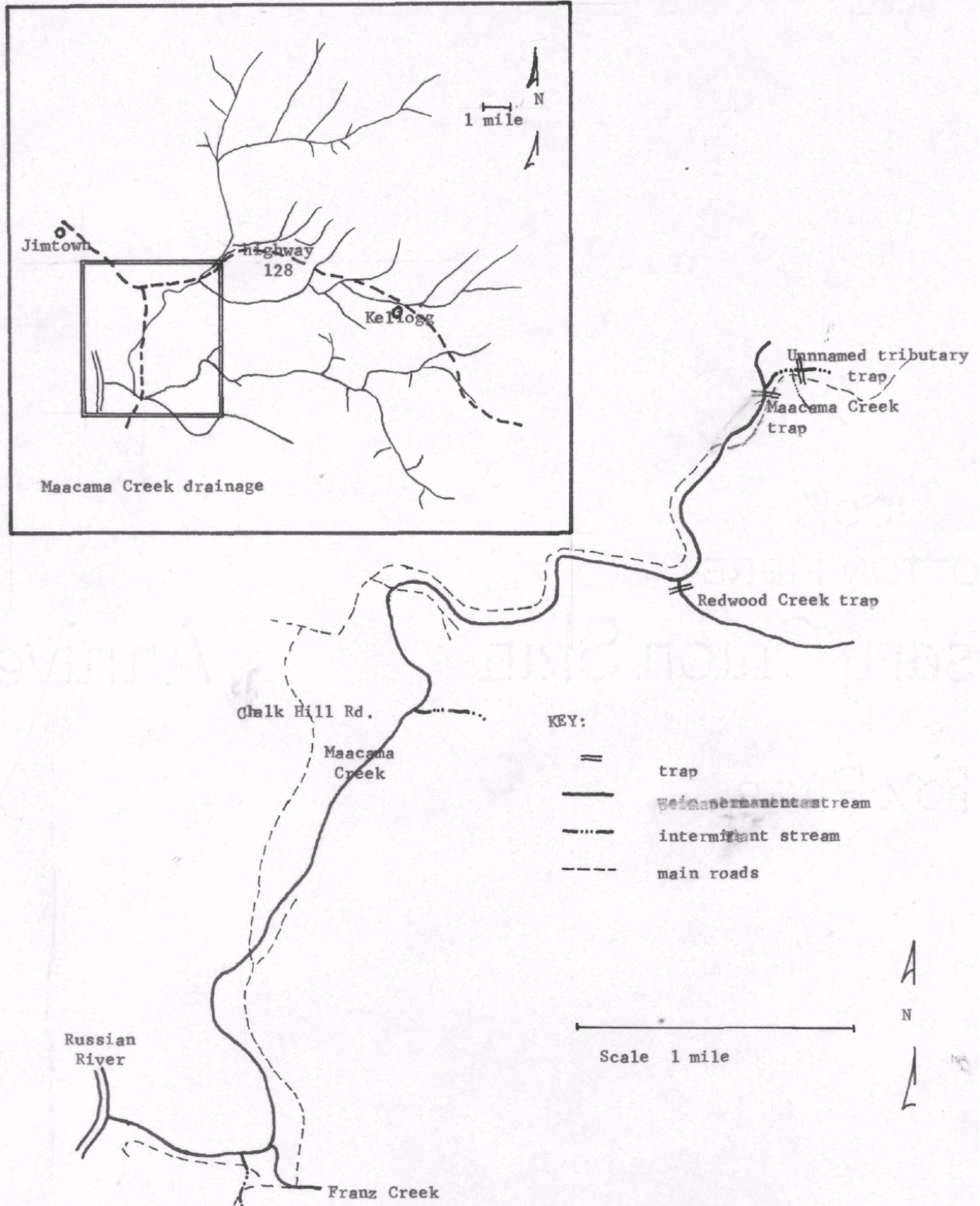


Figure 1 Location of downstream fish traps on Maacama Creek watershed.

MARICAMA CREEK
TRIB TO RUSSIAN RIVER
SONOMA COUNTY
APRIL 1965



downstream trap - MARICAMA CREEK



fyke net - Redwood Creek



fyke net - UNNAMED TRIB



downstream trap - Mancama Creek



downstream trap - Mancama Creek.