

DUANE, 1958

STATE OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
INTRAOFFICE CORRESPONDENCE

DATE January 10, 1958

TO: R.B. McCormick
Asst. Fisheries Biologist
Eureka, California

FROM: Duane T. Rodman
Fish and Game Asst.

SUBJECT: Mae and Boyes Creeks - Bottom Sampling Results.

Attached is a summary of the analysis of bottom sample materials taken during the summer of 1957. A microscopic examination and determination of ~~XXX~~ Orders was done in all cases.

Sincerely yours,

Duane

A STUDY OF LOGGING EFFECTS UPON SMALL CREEKS

<u>One square foot bottom sample analysis</u>	Date	June 6, 1957			June 6, 1957		
	Weather- Clear	Boyes Creek			Mae Creek		
	Station	1.	2.	3.	1.	2.	3.
<u>Order of Insecta</u>							
<u>Numbers of Individuals</u>							
EPHEMERIDA		10	0	2	10	4	1
DIPTERA		1	0	0	1	0	2
PLECOPTERA		0	1	0	3	3	0
TRICOPTERA		5	0	2	2	5	12
COLEOPTERA		1	0	0	1	0	0
<u>Other animal life</u>							
MOLLUSCA		13	0	0	0	0	0
OLIGOCHAETA		0	0	0	2	6	0
PUPA		0	0	0	0	5	0
<u>Total volume of animal life in mls.</u>		.7	-.1	.4	1.5	.6	2.6
FISH PRESENT		?	?	?	?	?	?
<u>Water Analysis</u>							
WATER TEMP.		56	56	57	61	69	57
AIR TEMP.		66	68	66	62	75	62
pH		7.5	7.5	7.5	7.0	7.5	7.0
ppm. D.O.		9.2	9.0	8.6	8.0	7.4	8.6
TIME		?	?	?	?	?	?

A STUDY OF LOGGING EFFECTS UPON SMALL CREEKS

One square foot bottom sample analysis	Date	July 3, 1957			July 5, 1957		
	Weather- Clear	Boyes Creek			Mae Creek		
	Station	1.	2.	3.	1.	2.	3.
<u>Order of Insecta</u>							
<u>Numbers of Individuals</u>							
EPHEMERIDA		13	2	1	8	6	39
DIPTERA		2	0	0	3	1	0
PLECOPTERA		11	0	2	6	1	14
TRICOPTERA		41	18	12	1	0	1
COLEOPTERA		12	0	0	0	2	1
<u>Other Animal life</u>							
MOLLUSCA		22	7	0	0	0	0
OLIGOCHAETA		0	2	1	1	2	0
PUPA		0	0	0	1	0	0
<u>Total volume of animal life in mls.</u>		3.3	1.5	1.2	.1	?	.6
<u>FISH PRESENT</u>		yes	yes	yes	yes	yes	yes
<u>Water Analysis</u>							
WATER TEMP.		57	56	56	56	66	57
AIR TEMP.		68	67	64	68	70	60
pH		7.0	7.0	7.5	6.5	6.5	6.5
ppm. D.O.		7.7	7.6	7.8	6.8	7.0	5.4
TIME		1:15P	2:45P	3:40P	3:55P	2:15P	3:05P

A STUDY OF LOGGING EFFECTS UPON SMALL CREEKS

One square foot bottom sample analysis	Date	Aug. 8, 1957			Aug. 8, 1957		
	Weather- Over cast	Boyes Creek			Mae Creek		
	Station	1.	2.	3.	1.	2.	3.
<u>Order of Insecta</u>							
<u>Numbers of Individuals</u>							
EPHEMERIDA		11	4	1	8	0	2
DIPTERA		1	3	0	1	0	1
PLECOPTERA		4	4	2	5	0	8
TRICOPTERA		19	4	0	4	0	26
COLEOPTERA		15	0	0	1	0	0
<u>Other animal life</u>							
MOLLUSCA		3	2	0	1	0	0
OLIGOCHAETA		0	0	0	0	0	0
PUPA		0	0	0	0	0	0
<u>Total volume of animal life in mls.</u>		.9	.6	.1	.4	0	1.7
FISH PRESENT		yes	yes	?	yes	yes	yes
<u>Water Analysis</u>							
WATER TEMP.		60	58	57	61	78	58
AIR TEMP.		68	61	62	69	71	67
pH		?	?	?	?	?	?
ppm. D.O.		7.6	8.2	8.2	7.0	7.4	8.4
TIME		3:55P	4:15P	4:50P	3:30P	2:40P	2:35P

A STUDY OF LOGGING EFFECTS UPON SMALL CREEKS

One square foot bottom sample analysis	Date	Sept. 20, 1957			Sept. 20, 1957		
	Weather- Clear	Boyes Creek			Mae Creek		
	Station	1.	2.	3.	1.	2.	3.
<u>Order of Insecta</u>							
<u>Numbers of Individuals</u>							
EPHEMERIDA		21	10	1	0	0	6
DIPTERA		0	2	0	0	0	8
PLECOPTERA		9	2	0	0	0	25
TRICOPTERA		35	40	4	1	0	47
COLEOPTERA		18	2	0	0	0	0
<u>Other animal life</u>							
MOLLUSCA		19	6	1	0	0	0
OLIGOCHAETA		1	0	1	0	0	0
PUPA		2	0	0	0	0	0
<u>Total volume of animal life in mls.</u>		3.2	.9	-.1	-.1	0	2.2
FISH PRESENT		?	?	?	?	?	?
<u>Water Analysis</u>							
WATER TEMP.		57	56	55	56	57	55
AIR TEMP.		69	66	64	67.5	71	64
pH		?	?	?	?	?	?
ppm. D.O.		8.8	9.0	9.8	8.6	8.2	9.4
TIME		1P	2P	3P	11:45A	11A	10A