	_				•			
STATION	·: Bu	a Sucp	HUK CRE	e K,	·			
LOCATION	: Low	2K STAT	TOW, ABO	DUE SUM	MER CR	088/206	STATI	ON NO.3
DATE	: 8-3	26-57	- <del></del>			·		<u> </u>
METHOD	' INSTR	MILED BL	OCK WETS,	Seined,	henskru	+ RICIASI	0 25 Fi	SH. MADE 3 SU
	HAULS	, piperp	FISH IN L	WE CHE S	MAKKID)	, CLIAUS L	up Remi	AINOIK OF FISH
·	with to	LE 0 1760 - SA	MILING. (	COUNTED +	SORTIO I	FISH BY 3	Preirs &	SIZZ GROUPS.
						•		of electo- techniq
RESULTS :	•			By Spre				P RECOULKIES
Size	RT-SH	ROACH	1	) .	GREEN	Squareh	1 . 1	uwk
0-3"	0	+10* 175	9/	0	0	+ 2* 18	٥	0
3-6"	2	34	128	6		19	2	
6-12"		0	86	7	0	10	_ 0 /	2
Ober 12"	0	0	25	0	0	/_	0	<u> </u>
TOTAL	2	219	248	/3	7	50 <sup>"</sup>	2	<b>2</b> .
NOTES!			.=					
·	9.T. 59°F	. w.T. 6	6°F , 10:3	OA. FLO	w ast	4-5 cfs.	CKAYFISH	Y PRESENT, AME
Co	mmon					· · · · · · · · · · · · · · · · · · ·		
							•	
Visuac OBS	<i>i</i>	Ronch	<i>L</i>	Sucken	's	Squpu	reis H	
1/8 mi u/	_	150		400		/:		
1/8 mi 0/5		200		150				
		3,0		550	*	Ž.0		
			• 1		7			· ·

Aug. 16, 1957	_	1		5 per	cie.	5		
		e	T-5H	5M		Road	Suchan	Sepsih
andis B /4 mi lyster	n 3	1,6				1000 100	70	
		\ \					40,100	
	borte				::			
· · · · · · · · · · · · · · · · · · ·	Total		8	. 0		54,100	410	0
ndir B 14 mi Dumbr.		, -			10,	9008 11 184 000 11 184	500	
The state of the s	6				5	A	<b>6</b> 0	
	/2					<u></u>		
	Total		0	0	1 4	+0,000	600	
ndir B - Station					300		20	
	6		,		25		7,12,15,15	
	<b>!a_</b>			·	0		3,1,7	
	en /	<u> </u>			0			
	Total				5	25	\$1	
				No. 1 III I Service No. 1 I I				

Aug. 16, 1807

West Br, Russian River, Mandouris Co. Siri Bravel Warks.

		Fish	Species	
	RT- SH	ROACH	SUCKERS	STICKEBACKS
Indiv. A 1/4 mi lepstream	2	23,000	700	0
Indiv. B 1/4 mi. Upstrum	8	54,100	410	0
Indiv. A 14 mi lounstream		15,300	700	0
Indiv. B /4 mi. lourstream	0	40,000	550	0
Indiv. A. Station area only	2	B, 500	1800	0
India . B Station area only	Ó	525	81	0
Clectro-sampling-unmarked	0	###### (D)	MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN MANNAHAMAN	0
Obtained by seiving and markel	<b>*</b> D	PRACTIMET)	तस तक मधी गिर्माति त्रिका तथा तथा, (ते 7)	30 (not marked)
No marked fish recaptured	0		14	
To make fish recaptions	0	9.1	37.8	A. I. OPEN PRODUCTION OF THE P

, · · · · · · · · · · · · · · · · · · ·	Mancan	na Cree	b. S.	noma G	eunty
Aug. 15, 195:	Marcan Station as	Lave Campfine	burla ca	mp.	/
	OPT-SH	44144		ľ	Zampan *
0- 7"	亲亲亲亲亲亲亲			1111	1
3'- 6"	<i>"</i>				All contacts
6-12"					Emma X
12" tower		<u> </u>			- Ca
Total	1-1/2 1	/73	17	14	
		·	The state of the s		
cat is a	#:				
Stronght elle	tro-sampling			•	
	*				
e e e e e e e e e e e e e e e e e e e				e de la composición	
	The same statement and several sections of the statement of the section of the se	w - 100	M MI IFA M	**************************************	
1 	South Kromink Mark Company of the co			Commence of the commence of the	. איני איני איני איני איני איני איני אינ
			and the second of the second o	tattusk	
Cray fish ab	unlant F	low ext	& efs.		
1 Formy		in tem.		F 6:3	o PM.
Tutle		to temp.	76 "	?r-}	· · · · · · · · · · · · · · · · · · ·
	AMERICA AND A AMERICAN PROPERTY OF THE STATE			<u></u>	and a second of the second of

scanned for KRIS

; · · · · · · · · · · · · · · · · · · ·		Frijze	Krown Sik Mark
<u> </u> 		SEIN	145 X
<u></u>	SHE	ROACH	美美美是 景是 医星落死民 等亲在亲
	THE HET WE WE INTIME IN THE INTERPRETATION INTERPRETATION IN THE INTERPRETATION INTERPRETATIO	WII .	THE WILL HE WE WE WILL THE THE THE THE WE WE WE WE WE WE WE WILL THE THE WE
	THE HELL HAS THE MAY		MINISTER OF MINISTER OF THE SAN SAN WARREN WE WERE
	WE WAS THE SALE AND THE SALE AN		3 30 120
	THE THE PLEATER THE PLEATER	M!	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3-6			
6-17			
TOTAL	581	//3	EXECTRO
1"	MAN WINNING ICM	DIE 1287 LIKE INK INK INK INK LIKE WAS VAK VAN VOORWAT	
30	THE THE THE THE THE	6	majority taken by seining
	/22		
4 - 9	MC II	MU 11	Clean - up by electro - sampling.
3-4	?	and the second disease of the second disease	
	1		
1/12			
! 			Kong and the second sec
170751	131	/ 7	
	101	V.	

## scanned for KRIS

106	4 - 1 25 - 1	19Bixis Co	The state of the s			
			L¢r∤ •	·		
D/s//mi	PT SH				ر. 	en a via viana en al en
grande e de la compansa de la compa		·				
	660		235	$\sqrt{2}$	3	· · · · · · · · · · · · · · · · · · ·
14/5 (3/2)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	95			
,			· ·			
· · · · · · · · · · · · · · · · · · ·	The second secon			THE STATE OF THE S		
Maria			<u>-</u>	The Section of Section 1999 to the Section 1997 to		,

COMPARISON OF PRE- AND POST TREATMENT ELECTRO-SAMPLING RESULTS IN
SELECTED TRIBUTARIES OF THE RUSSIAN RIVER, CALIFORNIA

·		Solver Salmen	Brown Trout	97-SH	Sucker	Heydhead	Jum 45h	Rosch	Mosquitofish	SMB	Samuelsh.	Okepill	Tak Arch	Salpin	Sticklebick	RT.5H	OTHER
lie Sulphur (x (2 Statuns)	(3 milions)						}			<u> </u>							
(2 Stations)	1952*			335	143		97	351									
(2 Stations)	1953			3 424	27			544									
( & Stations)	1954			13.	1,2			751									- 1 Sa.
(3 Stations)	1955			371	1.3.8			170									
13 Stations)	1956			273 278	113		4.2	250									
) (- <u>42</u>	aka t						<u> </u>										
Dry Cr. (3	1963*		<del></del>	387	304	17	155	992			<del> </del>	· · ·		3	123		<del>                                     </del>
13 Stations	1954		<u> </u>	480	205	<del> </del>	21	50			1	† ··		<del>                                     </del>	10		
3 Stations)	1955	· · ·	1	98	179		75	145			1	<del></del>	<u> </u>	1 2	3		<b></b>
( Stations)	1956		<del> </del>	4	449		44	179									<u> </u>
															<u> </u>		
exceme Cr. 7	<u>3 // 2/1-293)</u>		<u> </u>	<u> </u>													
(2 Stations)	1953 *			<b>3</b> 3	26	/3.	44	147		<del>, , , , , , , , , , , , , , , , , , , </del>	3		1				<u> </u>
(3 Stutions)	1954			2/7	6		77	161			20	5	/6	4	3	<u> </u>	
(3 Stations)	1955			993	11		27	399	·		3			5	3		
(3 Stations)	19.56		· · · · · · · · · · · · · · · · · · ·	197	8		. 7	320			1 2		6	7	*		
·											<b>1</b>						
elos las	7954*			6	29		31	53_			1	<del>                                     </del>	<del></del>	<del> </del>	<del> </del>		
11/2 W.	1955		<del> </del>	986	47			99			<del>†</del>	†		<u> </u>			<u> </u>
	1956		<del>                                     </del>	411												· · · · · · · · · · · · · · · · · · ·	
	7134		<del> </del>	711	<del> </del>	-					•	<b>†</b>		<del> </del>	1		
			<u> </u>	<del> </del>											5.0	7-14	
Forsythe Cr.	1954 X		<del> </del>	35	22		3	\$5		13	2			1			
<i>'' '</i>	1955			325		·	16	,,					. "		1		
	1936		,	143	15			99			Ī				3	. Jima	
															9.50		
Mark West Cr.	a d254 +	<del></del>	<del> </del> -	7/	4		· · · · · · · · · · · · · · · · · · ·	324	3		1			27	106	1 1 1	
	1955		<del> </del>	24	<i>T</i>			V # 'T	18		14	1	L	<del></del>	700		
<del>-</del>	1936		<del> </del>	1 Z	24		· · · · · ·	25	9		3	1	<u> </u>	16	g		
				† **	~ -								···				
opinson Cr	1957 *	<del> </del>	<u> </u>	43	17		2	21			· · · · · · · · · · · · · · · · · · ·	<u> </u>		21			
,	1955	<del></del>		269							<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·				
<u> </u>	1956	***************************************	<u> </u>	223	3										<u> </u>		

A Some	4		y who			· . •	Acres.	<u></u>			ī			ye .
STREA-			·		SPECIES	AND NU	MBERS OF	FISH CA	ULBETED	•	T	<u> </u>		
AND THE STATE OF T		Over 3"	Total	<b>Mestern</b> Sucter	Hardheal	Speramorh Speraments 1	Western Rosal	Smallmodl Block Bass	Blogs	Green Surfiel	Take Peral	Cotted	Strekkly	7.4
Big Salphus Creek 7	?	?	35	9			351							39
Station No. 1	. ?	2	31	4 1.4°- 8.8°	·		544							58
1954	9	4	13	12			751							17
Station No. 2. 1952	0	0	0	134		97					·			23
1953	?	?	3393	23										341
1954	(Area of	literated .	y word &	illing. O	biervel a	fact 30	AT-54 .	el a fac		)				
Little Sulphar Crock Station No. 1-1954	70	15	85 2.0°- 6.5°	30									<b>#</b> €	173
Dry Greek Station No. 1 1953	0	9	0	44 34"- Ka*	2 #.3* -12-7*	36 2°-18.3°	7					a		8
1954	10	/2	22	17			5 ,20°- 4.0"		<u> </u>	4				4
Station No. 2. 1953	?	?	387	260	15	119	985	:	· · · · · · · · · · · · · · · · · · ·			3	123	184
1954	25	3;	56 26° - 7.0"	120		6	18	:		·		1	10	21
8fation No. 3 1954	50	<b>52</b>	102			15		(flue sta	400 Fm.s	O RT-SN-	Suday set	uena)		61
Mazcama Greek Statum Na 1 1953	2	?	21	8 1.5"- 7.0"		6	147							/3
1954	62	19	8/				38						2	12
Station No. 2 1953	2	?	25-72	18	13	38				3	1	1	·	8

# ELECTRO-SAMPLING RESULTS ON ROSSIAN RIVER AND TRIBUTARIES ONE YEAR AFTER THE CHEMICAL CONTROL PROJECT (1955)

		6		Marie Marie y Chaptering and Mill C	X	X	$\overline{\chi}$				,
	RT-5H	Sucher	Sector. Spowdish	Rosak	Mosquita	Freen Som fire	1	silver selmon	Cottes	Sticklebrok	Total
Supl. G. I.	و تي	3		148			1			-	191
	363	12.1					[7				484
	4,21			27			Ш				445
000	8.77	12.5	<del>-</del>	270	-	<del> </del>	₽			<del></del>	1120
Daga. I	51	19	8	126	<del> </del>		╀┪	ļ		•	204
<u>u</u>	37	151	65	19		<u> </u>	Н	<del> </del>		<del> </del>	272 31
197	70	179	7.5	175			┨		7	3	507
mar 200	192	7	27	202		End.	1		\		434
1 1	445	7	<del> </del>	130			11		3	<del>                                     </del>	581
2#	350	/		67	-		11		2	2	423
	77.	11	F 1	399		3	Į.	-	5	3	1+43
W.Br. Las. R. TV	63	2	68		<b>—</b>	Z			_		142
I.E	162		22			2				10	197
	3.5	2	9.,		***	4	Ш	í		. [ ]	234
Membernay G.	14		<del>  "</del>				H				18
Forsythe (x.	325		16		-	-	H		78	1	342
Roberton Cs.	<b>i</b> 369										270
Felix Gr.	986						$\Box$				986
Pieto Ca	3/9	-				-	$\Box$		**		319
Commercia Co.	83		-	/3						Millioner .	97
Noneyeat G. v	રૂપ				/8	14				7	63
E. Auster Cv. I	139		2	54		-	$\dagger$	_	7	_	196
7	2.78	<b></b>		14			1	33	8		333
,	4.5		.2.	68	·	T	П	33	9		524
Ass Roman R. I	10		25				L				35
<u> </u>		/	11						, <del></del> ,		17
· ·	124	/	36		Name 1	*****	$\bot$		-		<u> </u>
	200	2	53	81		14	1	33	9	10	2476
Total	4595	322	250	795	/8	21	+4	33	22	27	6085
*	<u> </u>	<del>  </del>	<u> </u>	<del> </del>	· · · · · · · · · · · · · · · · · · ·	1 2	╬		<u></u>	<del>                                     </del>	<del> </del>
	<del>  </del>	<del>  </del>	<del> </del>	ļ		<del>  2 </del>	+	2-7	<u> </u>		
	<del> </del>	<del> </del>	· <del> </del>	<b>†</b> · · · · · · ·	<del>-  </del>	(32)	1	Per	····	<del> </del>	
	<u> </u>	<u> </u>	<del></del>	<b>†</b>	<del></del>		k	140	·-·		
	<u> </u>	1		<b>1</b>			T	17.24			
							Γ	Aug Pen			
							Γ				
							$\perp$				<b></b>
	<b></b>		<u> </u>	<u> </u>		1	4	<b></b>	<b></b>	<u> </u>	<b></b>
	<b></b>	<b> </b>	<u> </u>	<del> </del>	<del> </del>	<del>-  </del>	-	<b> </b>	<del> </del>	<del></del>	<b></b>
	<u> </u>	1		<u> </u>	<u> </u>		1	<u> </u>	<u>L</u>		

# THE 1955 ELECTRO-SAMPLING RESULTS ON THE RUSSIAN RIVER TRIBUTARIES (ONE YEAR OFTER CHEMICAL CONTROL PROJECT)

+	€7 .4 .	58	Br. Trout	Suckey	Synantish	Roach	Masgartofish	SMB	G-Sun fish	V. Parch	Scalen	Stukletore			
												1			T
Sulphur Co I	38 363			5		148									İ
	363		ļ	121			<del></del>		<u> </u>		<u> </u>				Ţ
	421		<del> </del>	3	<del> </del>	22	<del> </del>		<del>                                     </del>	<u> </u>	<del> </del>	<del>   </del>	<del>- , - , </del>		+
y Creek I	-61	<u> </u>		19	18	126				<u> </u>	<del>                                     </del>	-	<del> </del>	<del> </del>	+
y Creek I	37				45	19							- Table 1		†
TIF	10			151	2						7	* 9			$\mathbb{E}_{i}$
	<u></u>		ļ					<u> </u>	<del> </del>		ļ				L
ucinola I	445	·	<del>}</del>	1		130			1 2	2	3	1 /	11 30		L
<u>I</u>	192 356		<del>                                     </del>	9.	27	202 67		-	<del>                                     </del>		2	2		-	$\vdash$
711	355		<del> </del>		<del> </del>	6.7	<del> </del>	<del> </del>	<del>- </del>		<del>                                     </del>				+
			1	<b>-</b>	3		1		*			<u> </u>	<del> </del>		H
Br. Passe P. I	69				22	3			2		1	10			
II.	162			2_	68				2			18_1			Γ
			<b></b>				ļ		<u> </u>			<b>.</b>			
whimey Cr.	14		<del> </del>	<u> </u>	4	·	<del> </del>	<del>                                       </del>	+			<b></b>	· · · · · · · · · · · · · · · · · · ·	1	-
	325		<del> </del>		16			<del>                                     </del>	+			* /			Η,
rcythe Gr	343		<del>                                     </del>	ļ			1				<u> </u>	1			1
binson Cr.	369													200	
liz Cri	986		ļ												
	<u> </u>		<b></b>	<del>                                     </del>		<del></del>	<del> </del>		-		ļ			>	4
eta Cr	319		<del> </del>					<u> </u>				<b>-</b>			
manusky Gr.	8,3	<u> </u>	<del> </del>	,		/3	<del>                                     </del>		<del></del>		<del> </del>	17.	<del></del>		
			<del> </del>			<del></del>									Γ
WK West Cr	24						18		14			2			
						-4									
Austin Ce. I	139				2	54	<b>↓</b>		<del> </del>	ļ	1	-			L
TL.	178	33	<u> </u>			14	<del> </del>		1		8	T			H
0 0 -	10		-	<del> </del>	25	1.5	<del> </del>		1	<del></del>	<del> </del>		<u> </u>	<del></del>	<b>–</b>
nn Russu R. I	4		<del> </del>		//		<del>. [</del>	<del></del> -	1			/	-	<del></del>	-
	<u></u>														
									1		-				
															Ĺ
			1				1		1 :	l				1	

count of the dead fish along a given stretch of stream which had been blocked by seines (Figure 11).

Two types of electric shockers were used for sampling. One was a 110-volt A.C. shocker and the other was a 230-volt D.C. shocker. The latter was especially helpful, since fish were attracted to the positive electrode. A 100-foot section was blocked with seines and the area shocked until no more fish appeared. This method frequently revealed a much larger and more varied population of fishes than was observed by a visual check.

#### Tributary Stream Fish Population Sampling

### Big Sulphur Creek

Preliminary sampling on this creek showed that rough fish in the form of suckers, squawfish, and roach composed 95 percent of the fish

population. The remaining 5 percent were juvenile steelhead.

Post-treatment sampling in 1953, although limited, indicated that young steelhead made up almost 100 percent of the fish population. Suckers made up the remainder and squawfish and roach were absent. Table 5 compares pretreatment and post-treatment sampling at various stations.

The information on population change indicated by sampling was supplemented by creel checks made during the first few weeks of the trout season in 1953, 1954, and 1955. Prior to 1953, according to wardens' reports, the fishery was poor and sporadic. Only the expert angler was able to make a good catch, usually either just after the opening or just before the closing of the season. On the first two days of the season in 1953, wardens reported that only two of 47 anglers failed to have their limits of 15 juvenile steelhead.

A brief survey of this same stream on May 1, 1954, while not reflecting the same degree of success, did reveal a catch of 252 juvenile steelhead by 30 anglers for a catch per angler day of 8.4 fish. Whether or not the increase in numbers of steelhead was the direct result of the treatment is still questionable. The source of these fish is also unknown, since they were in their second year in the stream and could have come either from the tidewater area near the mouth of the river or from the untreated headwater areas. The latter source is the most likely, but too little is known of fish movement within the drainage system to be certain

During the winter of 1953-54, further movement of the slide in the area of the falls barrier resulted in a complete block to upstream movement of steelhead, so that some of the value of rough fish control was not fully realized upstream. A separate project has since altered the falls, so that it again acts only as a rough fish barrier.

In 1955 further post-treatment electrosampling was performed on Big Sulphur Creek, as part of the long-term evaluation of the chemical treatment project. The three stations sampled produced 822 juvenile steelhead, 128 suckers, and 170 roach. At one of the stations (Station No. 2) it was found that the suckers were back to about the pretreatment level of abundance, but the steelhead continued to predominate by about 3 to 1. Creel censuses also showed excellent fishing again, as was observed in 1953 and 1954. The over-all picture was quite favorable three years after treatment.

# DIVISION OF FISH AND GAME. FIELD CORRESPONDENCE

FROM: Herbert E. Pintler

PLACE Box 415, Lakeport

TO:

J. Bruce Kimsev

DATE October 8, 1952

SUBJECT: Sulphur Creak, Sonoma County - Observations and chemical treatment.

On Saturday, October 4. 1952, when we were checking the subject creek and continuing a brief chemical treatment, I took a few notes which you may want for the survey file. They are reproduced below.

Locality: Vicinity of "The Gaysers" Resort.

Pool we shocked earlier (Aug. 16, 1952) -

Meny Hesperoleucus, but no other species as far as could be recognized. All fish 6" or less.

A few small, 2"-4", trout in riffles above.

Deen nool between old and new foot bridges below resort Water temperature, 2:40 p.m., flowing, shade, was 80 f.; air
temp. 88 f. Chemical treatment applied at 2:50 p.m. Small fish
showed distress by 3:00 p.m. Larger fish appeared by 3:30 p.m.
Only Hesperolaucus and suckers were observed. There were no
Mylopharodon, Ptychocheilus or trout.

Dam centioned by Shanovalov ("Report on a Survey of the Streams in the Vicinity of Cloverdale, Calif.". Administrative Report to Bureau, harch 1932, p. 10) has washed away, and only concrete abutments remain.

Material in perenthesis above was edded here for the sake of completeness.

ag: bir. Fian Conserv.

Herbert & Pritte

## TABLE 2

Results of Fish Population Sampling by Visual Observation of Mile Stream Sections and Electro-Shocking of 100-ft.
Stream Sections, August, 1957

	RT-	BH .		cor d	Squawi	ish	Roa		Total
Stations .	No.	2	Ho.	4	No.	2	No.	2	29504
Ory Orest Station Heal Timual Own Alestro-manuling	23) 34)	143	324	11-3	9	0.3	2900	84.1	3449
Station To.2 Visual Obs.	0	0	1000	11.0	550	6.1	7500	82.8 Stick	leback
Blectro-sampling	0	- 0	35	17.5	1	1.5	161	80.5	200
Piota Greek Visual Obs. Alectro-sampling	350 89	36,4 47.8	10 5	1.1 2.6	0	<b>Q</b>	600 92	62.5 49.6	960 186
Macama Crost Station To.1 Vieual Obe: Electro-sampling		11:1 38.6	6 1	1.1 0.5	0	0 9	450 173	87.7 59.6 a Sculy	oin
Station No.2 Visual Obs. Electro-sampling	20 15	2,1 10.9	260 30	26.5 21.8	) 3	0 2.2	Soul	71.4 46.7 GSF-17) pin-2 {1	980 137
Station He.3 Visual Obs. Nicotro-sampling	lo Tot	9.2 Jone	15	1.2		0.1		95.5	1256
Vest Branch Eussian River Visual Obs. Blockro-dampling		Done 0	92	69.1	0	0	42	30.9	133
Mr. Sulphur Over Station No.2 Visual Obs. Disctro-sampling	Yot	Dono		22.6	0	6		(240) (240)	351

and the same of th				1			Page 2	of TABLE	2
Big	Sul	phur	CRE	eK.					
		- SH	Su		Squaw	fish	Roa	ch	
Stations	No.	1/2	No.	2	No.	\$	No.	2	Total
Station No.3									
Visual Obs.	0	0	550	59.7	20	2.2	350	38.0	920
Electro-sampling	2	0.3	248	46.3	50	9.3	219		
								GSF-1	
								.Perch-2	3.20
Sobiason Creek									
	Hot	Done					5	culpin 19	=2.5%
Electro-sampling	692	88.6	ŧ.	0	0	0	70	8.9	781
Feliz Creek									
Visual Obs.	Not	Done							
Electro-sampling	710	89.8	0	0	0	0	80	10.2	790

Figures from 1 mile sections are from visual observations made by same person for 1/8 mile above and 1/8 mile below shocking stations.

why not visual observations on more stations?