Table 5. Flow and Export Conditions During Spring 1997

Date	Flow at Vernalis	CVP+SWP Exports	Date	Flow at Vernalis	CVP+SWP Exports
15-Apr-97	3557	1568	14-May-97	5699	2178
16-Apr-97	3708	1863	15-May-97	5306	2317
17-Apr-97	4632	1904	16-May-97	4902	2088
18-Apr-97	5205	2192	17-May-97	4471	2603
19-Apr-97	5593	2205	18-May-97	4192	1775
20-Apr-97	5569	2223	19-May-97	4062	1116
21-Apr-97	5493	2251	20-May-97	3898	816
22-Apr-97	5321	3112	21-May-97	3755	1260
23-Apr-97	5572	1703	22-May-97	3749	2151
24-Apr-97	5813	2278	23-May-97	3803	1387
25-Apr-97	5708	2215	24-May-97	3919	4549
26-Apr-97	5570	2221	25-May-97	3749	6164
27-Apr-97	5532	2202	26-May-97	3739	5212
28-Apr-97	5520	2240	27-May-97	3608	5565
29-Apr-97	5454	2217	28-May-97	3515	8081
30-Apr-97	5312	2200	29-May-97	3614	7338
01-May-97	5200	2202	30-May-97	3631	7537
02-May-97	5012	2212	31-May-97	3592	7473
03-May-97	4828	2214	01-Jun-97	3487	6179
04-May-97	4703	2301	02-Jun-97	3416	6239
05-May-97	5059	2262	03-Jun-97	3441	6276
06-May-97	5227	2278	04-Jun-97	3478	6257
07-May-97	5083	2305	05-Jun-97	3533	6219
08-May-97	5057	2362	06-Jun-97	3562	5088
09-May-97	5319	3217	07-Jun-97	3493	5348
10-May-97	6020	2927	08-Jun-97	3287	5253
11-May-97	6318	2152	09-Jun-97	3224	5172
12-May-97	6443	1212	10-Jun-97	2979	5179
13-May-97	5913	1845			

Steelhead Work Team Forming

Dennis McEwan, DFG

Management and restoration of Central Valley steelhead stocks has been greatly hampered by an acute lack of baseline information. Recently, the California Department of Fish and Game and the U. S. Fish and Wildlife Service implemented a program to fin-clip all steelhead raised in Central Valley hatcheries so naturally-produced steelhead can be identified in the various salmonid monitoring projects.

To facilitate implementation of projects to monitor and assess Central Valley steelhead, and to coordinate steelhead data collection at existing monitoring projects, a Steelhead Project Work Team is being formed as a satellite team of the Central Valley Salmon Team. We plan to have our first meeting in February. If you are interested in participating, please contact:

Dennis McEwan, California Dept. of Fish and Game, Inland Fisheries Division. (916) 653-9442 dmcewan@hq.dfg.ca.gov.

Table 6. Survival Indices to Chipps Island of Merced River Fish Facility (MRH) and Feather River Hatchery (FRH) Smolts Released in the San Joaquin Delta and Tributaries between 1982 and 1997.

		Release Sites								
	Dos Reis	Mossdale w/o HORB	Mossdale w/ HORB	Upper Old River	Upper Merced	Lower Merced	Upper Tuolumne	Lower Tuolumne	Upper Stanislaus	Lower Stanislaus
Year / Origin	Mixed	FRH	FRH	Mixed	MRH	MRH	MRH	MRH	MRH	MRH
1997	0.19(FRH) 0.14(MRH)	-	0.19	-	0.04	0.14	0.04	0.17	-	-
		-	-	-	0	0.01	-	-	-	-
1996	0.02(FRH) 0.09(MRH)	0.02		-	0.01	0.01	0.04	0.07	-	-
		0.01	-	-	-	-	-	-	-	-
1995	0.15(FRH)	0.22	-	-	0.15	0.20	0.25	0.22	-	-
	0.39(FRH)	0.12	-	-	-	-	-	-	-	-
	0.16(FRH)	0.07	-	-	-	-	-	-	-	-
1994	-	0.00	0.02	-	0.06	0.02	0.03	0.04	-	-
	-	-	0.04	-	-	-	-	-	-	-
	-	-	0	-	-	-	-	-	-	-
1993	-	0.04	-	-	-	-	-	-	-	-
	-	0.07	-	-	-	-	-	-	-	-
	-	0.07	-	-	-	-	-	-	-	-
	-	0.07	-	-	-	-	-	-	-	-
1992	-	0.18	0.08	-	-	-	-	-	-	-
	-	0.12	0.01	-	-	-	-	-	-	-
	-	-	0.02	-	-	-	-	-	-	-
1991	0.16(FRH)	-	-	-	-	-	-	-	-	-
1990	0.04 (FRH)	-	-	0.02(FRH)	-	-	0.04	0.01	-	-
	0.04(FRH)		-	0.01(FRH)	-	-	-	-	-	-
1989	0.14(FRH)	-	-	0.09(FRH)	-	0.05	-	-	0.05	0.21
	0.15(MRH)		-	0.05(MRH)	-	-	-	-	-	0
1988	-	-	-	-	-	-	-	-	0.07	0.09
1987	**0.83(MRH) *	-	-	0.16(MRH)	-	-	0.05	0.18	-	-
1986	0.34(MRH)	-	-	0.2(MRH)	-	-	0.40	0.27	0.34	0.56
1985	0.59(MRH)spraydyed	-	-	0.62(MRH)	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-
1982	***0.6(MRH)	-	-	-	0.62	-	-	-	-	-

* A number of 0.38 is obtained if modified using the ratio of ocean recovery rates of the Dos Reis and Upper Old River groups.

** Release temperature of 70 F.

*** A number of 0.70 is obtained if modified using the ratio of ocean recovery rates between Dos Reis and Merced because sampling at Chipps Island was not started for the first week after the release.