

**DELTA PUMPING PLANT FISH PROTECTION AGREEMENT
FISH MITIGATION REPORT
MAY 2010**

<u>LOSSES</u>	(Yearling Eq.) <u>STRIPED BASS</u>	(Smolt Eq.) <u>SALMON</u>	(Yearling Eq.) <u>STEELHEAD</u>
1986	544,429	1,973,164	21,884
1987	683,712	1,536,872	11,591
1988	854,041	1,609,586	16,018
1989	796,240	1,486,018	22,240
1990	790,824	1,349,238	22,953
1991	636,525	709,733	27,507
1992	499,816	510,455	31,145
1993	557,035	296,258	35,686
1994	454,955	178,844	29,469
1995	426,838	168,226	26,592
1996	434,026	148,080	21,754
1997	421,165	114,644	13,943
1998	197,528	105,189	4,457
1999	232,755	153,211	5,093
2000	370,281	157,096	9,717
2001	379,930	162,670	13,911
2002	384,739	157,650	15,607
2003	405,042	177,912	20,589
2004	382,959	145,465	23,670
2005	218,058	116,934	20,057
2006	173,435	94,423	14,182
2007	141,849	86,843	13,369
2008	119,721	66,922	10,321
2009 ¹	96,481	48,126	6,845
TOTAL LOSSES	10,202,384	11,553,559	438,600
<u>CREDITED²</u>			
1988	345,292	0	0
1989	406,458	78,125	0
1990	1,235,787	15,625	53,900
1991	1,765,804	18,522	20,450
1992	0	678,447	0
1993	125,000	352,483	41,500
1994	286,244	673,007	48,320
1995	349,256	801,487	55,688
1996	503,799	871,018	55,050
1997	318,682	979,317	52,860
1998	485,670	1,569,206	248
1999	250,000	4,168,382	48,813
2000	1,097,424	1,089,361	248
2001	974,312	1,423,765	248
2002	250,000	1,749,813	477
2003	250,000	1,595,905	50,248
2004	250,000	1,023,588	248
2005	250,000	1,129,478	50,248
2006	254,452	1,232,204	248
2007	254,452	768,699	50,248
2008	254,452	526,599	248
2009	254,452	466,395	1,746
2010	254,452	469,589	248 ³
TOTAL CREDITED	10,415,988	21,681,015	531,284
REMAINING OBLIGATION	-213,604	-10,127,456	-92,684
<u>PROJECTED LOSSES</u>			
2010	150,000	82,000	13,000
2011	150,000	82,000	13,000
2012	<u>150,000</u>	<u>82,000</u>	<u>13,000</u>
	450,000	246,000	39,000
<u>PROJECTED CREDITS</u>			
2011	254,452 ⁴	1,100,000 ⁵	50,000
2012	<u>254,452</u>	<u>1,100,000</u>	<u>50,000</u>
	508,904	2,200,000	100,000
PROJECTED BALANCE	-272,508	-12,081,456	-153,684⁶
1986 THRU 2010			

Endnotes:

1. 2010 losses not yet available.
2. Refer to Annual Striped Bass Credit and Annual Salmon Smolt Credit tables (attached).
3. Steelhead Credit Assumptions:
2003 & 2005 & 2007 release includes 50,000 FRH mitigation fish as Yearling Equivalents (YE); 2009 release includes 1,498 FRH mitigation fish as YE; 2010 estimate is preliminary and needs to be verified with DFG; Mill Creek Water Exchange O&M=248 YE

No steelhead available from Feather River Hatchery for mitigation for 1998, 2000-2002, 2004, 2006, 2008, 2010.
4. Delta-Bay Enhanced Enforcement Project = 250,000 (Annually);
SRCD Suisun Marsh Fish Screen O&M Project = 4,452 (Annually)
5. 2011-2012 Salmon Credit Assumptions:
SJ Basin Spawning Habitat Projects (8) = 41,577;
Predator Habitat Removal Projects (3) = 33,564 (constant);
Hills Ferry Barrier = 94,020 (1994-2010 mean credits);
MRH = 402,105 (1992-2010 mean credits);
DBEEP = 250,000 annually;
Spring-Run Increased Protection = 107,255 (1997-2010 mean credits);
Mill Creek Water Exchange O&M = 86,741 (1999-2010 mean credits);
Butte Creek Passage Projects = 28,514 (1997-2010 mean credits).

Total Potential Credits = approximately 1,100,000 annually.
6. Direct replacement of steelhead reared at Feather River Hatchery at an annual amount equal to or greater than the annual loss rate.