

**DELTA FISH AGREEMENT
ANNUAL SALMON SMOLT CREDITS
MAY 2010**

* CREDITS - PRELIMINARY, SUBJECT TO CHANGE

PROJECTS	YEAR COMPLETED	MEAN ANNUAL ESTIMATED CREDITS	SMOLT EQUIVALENTS																			TOTAL	MEAN ANNUAL CREDITS					
			1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006			2007	2008	2009*	2010*	
SAN JOAQUIN RIVER SYSTEM:																												
SJR ELECTRICAL BARRIER	1992	116,860						116,860																			116,860	-----
HILLS FERRY FISH BARRIER*	1993	110,129							32,952	32,952	58,465	91,343	105,660	81,327	38,610	299,081	353,501	234,117	70,364	70,849	54,164	43,331	10,768	12,062	8,796	1,598,342	94,020	
MERCED RIVER																												
MERCED RIVER GRAVEL I *	1990	21,727				2,897	1,448	7,424	8,329	10,139	2,354	19,554	14,484	6,156	5,794	17,200	11,407	10,501	12,131	7,604	2,354	1,448	724	181	543	142,673	7,134	
MERCED RIVER GRAVEL II	1991	28,969					**	905	3,078	5,070	1,267	9,415	6,156	7,242	8,329	14,847	5,613	9,234	905	905	1,630	905	724	181	362	76,768	4,265	
MRFF MODERNIZATION	1991	810,750						598,874	149,169	363,023	416,715	262,465	476,854	664,808	429,265	603,610	610,217	724,713	657,615	410,239	527,170	457,422	165,882	16,346	16,307	7,639,993	402,105	
MAGNESON POND ISOLATION	1996	4,396										6,750	6,750	4,939	4,396	7,836	4,939	11,276	5,482	6,207	5,663	5,573	4,758	4,487	83,633	5,914		
RATZLAFF PROJECT	1999	20,971													13,460	14,322	14,568	16,415	13,829	14,076	14,076	13,460	13,706	13,460	154,831	14,076		
ROBINSON PROJECT	2002	31,279																15,708	44,315	33,089	25,485	22,769	17,156	15,889	207,638	23,071		
LOWER W. STONES PROJECT	2005	8,148																								Not yet constructed		
TUOLUMNE RIVER																												
MJ RUDDY	1993	51,089						0	4,412	1,393	0	3,251	2,554	2,787	8,825	929	464	0	0	0	0	0	0	0	0	24,615	1,448	
LA GRANGE, R 1B, 3A, & 3B	1994	27,170							2,090	1,161	3,948	16,256	11,379	18,578	64,790	19,739	3,948	12,076	18,462	6,851	6,618	8,128	9,521	2,322	205,867	13,585		
STANISLAUS RIVER																												
RIFFLES RM 47.4, 50.4, & 50.9	1994	40,419							1,984	1,488	1,240	4,463	4,711	4,959	10,415	7,439	9,671	15,126	11,654	10,167	11,407	1,736	2,976	1,488	100,924	6,308		
SACRAMENTO RIVER SYSTEM:																												
MILL CREEK GRAVEL	1988	78,125		78,125	15,625	15,625	78,125	78,125	78,125	78,125	78,125	78,125														656,250	-----	
MILL CK WATER EXCH O&M	1997	35,915												5,890	26,548	24,249	104,125	207,565	179,368	90,789	139,718	95,996	77,146	55,650	1,040,889	86,741		
SPRING-RUN PROTECTION*	1995	66,310								214,300	36,642	22,146	344,931	94,743	82,341	191,319	98,882	0	71,027	216,712	135,082	103,343	66,848	37,557	1,715,872	114,391		
BUTTE CREEK PASSAGE	1996	5,518									5,446	9,839	78,086	17,548	19,642	45,814	41,903	20,978	35,249	50,679	21,841	23,577	18,769	9,821	399,190	28,514		
NORTHERN PIKE ERADICATION	1998	2,000,000												2,000,000											2,000,000	-----		
BAY-DELTA ESTUARY:																												
ENHANCED ENFORCEMENT	APR 1994	250,000							187,500	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	4,187,500	250,000		
SALMON ACCLIMATION PENS	1998	770,000											387,268	941,901											1,329,169	-----		

MEAN ANNUAL CREDITS: ESTIMATED 1,504,642 0 78,125 15,625 18,522 678,447 352,483 673,007 801,487 871,018 979,317 1,569,206 4,168,382 1,089,361 1,423,765 1,749,813 1,595,905 1,023,588 1,129,478 1,232,204 768,699 526,599 466,395 469,589 21,681,015 1,051,571
(Current Projects ONLY) ACTUAL 1,051,571

NOTE: Smolts and yearlings are credited in calendar year smolt outmigration occurs. * Updated credit formula.
 MRFF releases are credited in year releases are made. ** Included in 1992 Merced River Gravel I credits.
 [Shaded] Shading indicates pre-project or no project year.
 One time projects excluded from Mean Annual Credits.

TOTAL CREDIT SINCE AGREEMENT =	21,681,015 SALMON SMOLT EQUIVALENTS
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N/A = Data not yet available from DFG.

**DELTA FISH AGREEMENT
SPAWNING HABITAT PROJECT REDD COUNTS
MAY 2010**

PROJECTS	YEAR COMPLETED	MEAN ANNUAL GRAVEL (SQ YDS)	MEAN ANNUAL ESTIMATED REDDS	REDD COUNTS																			TOTAL	MEAN ANNUAL REDDS			
				1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006			2007	2008	2009
SACRAMENTO RIVER SYSTEM:																											
MILL CREEK GRAVEL	1988	300	81	~200	ANNUAL CREDITS NEGOTIATED																						
SAN JOAQUIN RIVER SYSTEM:																											
MERCED RIVER																											
MERCED RIVER GRAVEL I *	1990	4,200	120			16	8	41	46	56	13	108	80	34	32	95	63	58	67	42	13	8	4	1	3	788	39
MERCED RIVER GRAVEL II	1991	5,600	160				**	5	17	28	7	52	34	40	46	82	31	51	5	5	9	5	4	1	2	424	24
MAGNESON POND ISOLATION	1996	5,600	Not Est'd									13	13	3	0	19	3	38	6	10	7	7	2	1	1	122	9
RATZLAFF PROJECT	1999	7,000	61												0	7	9	24	3	5	5	0	0	2	0	55	5
ROBINSON PROJECT	2002	12,045	104													0	158	96	54	39	8	1	0	10	366	41	
LOWER W. STONES PROJECT	2005	5,200	45																							Not yet constructed	
TUOLUMNE RIVER																											
MJ RUDDY	1993	25,393	220						0	19	6	0	14	11	12	38	4	2	0	0	0	0	0	0	106	6	
LA GRANGE, R 1B, 3A, & 3B	1994	13,500	117							9	5	17	70	49	80	279	85	17	52	80	30	29	35	41	10	887	55
STANISLAUS RIVER																											
RIFFLES RM 47.4, 50.4, & 50.9	1994	5,680	163							8	6	5	18	19	20	42	30	39	61	47	41	46	7	12	6	407	25

MEAN ANNUAL REDDS: ESTIMATED 945 0 0 16 8 46 63 120 37 195 229 156 190 562 225 387 290 243 144 102 53 58 32 3,155 204
(Current Projects ONLY) ACTUAL 300

NOTE: Redd counts are made in year fish spawn. Annual production is credited in the calendar year that outmigration occurs.
 [Shaded] Shading indicates pre-project or no project year.
 * Updated using current spawning habitat credit formula. ** Included in 1991 Merced River Gravel I redd count.