CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
2008																	
2008 (sampling period: 08/01/07 - 07/31/08)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-39-94	Battle Creek (CNFH)	CHNL Production				78506	122	12/18/07	01/27/08	5	5687	0.096	0.086				
05-39-96	Battle Creek (CNFH)	CHNL Production				82817	129	12/12/07	01/27/08	5	6727	0.099	0.079				
	Total		11/26/2007			161323		12/12/07	01/27/08	10	6727	0.099		0.081			
05-39-88	Battle Creek (CNFH)	CHNL Production				75515	132	01/17/08	02/02/08	18	3002	0.123	0.253				
05-39-89	Battle Creek (CNFH)	CHNL Production				85310	129	01/09/08	02/04/08	21	3452	0.089	0.360				
05-39-90	Battle Creek (CNFH)	CHNL Production				89930	124	01/09/08	02/03/08	11	3307	0.088	0.180				
05-39-92	Battle Creek (CNFH)	CHNL Production				88577	134	01/18/08	02/03/08	22	2947	0.120	0.268				
05-39-95	Battle Creek (CNFH)	CHNL Production				73186	124	01/17/08	03/10/08	18	3507	0.045	0.709				
05-39-97	Battle Creek (CNFH)	CHNL Production				83787	131	12/29/07	02/04/08	26	4867	0.089	0.454				
	Total		01/02/2008			496305		12/29/07	03/10/08	116	5082	0.048		0.629			
05-39-93	Battle Creek (CNFH)	CHNL Production	01/14/2008			83569	128	01/28/08	02/03/08	11	1035	0.103	0.167				
Sacramento-San Joaquin Estuary																	
05-36-85	Georgiana Slough (CNFH)			12	11	18176	117	12/18/07	01/09/08	3	3575	0.108	0.199				
05-36-86	Georgiana Slough (CNFH)			12	11	17661	126	12/18/07	01/30/08	3	6287	0.099	0.223				
05-36-87	Georgiana Slough (CNFH)			14	11	18297	125	12/28/07	12/28/07	1	200	0.139	0.051				
05-36-88	Georgiana Slough (CNFH)			14	11	18053	122	12/19/07	01/07/08	6	3215	0.112	0.387				
	Total		12/06/2007			72187		12/18/07	01/30/08	13	6287	0.099		0.236			
05-27-96	Ryde (CNFH)			12	12	12463	118	12/12/07	01/07/08	6	4475	0.115	0.544				
05-27-97	Ryde (CNFH)			12	12	12658	118	12/14/07	12/20/07	2	1360	0.135	0.152				
05-27-98	Ryde (CNFH)			14	12	12652	118	12/15/07	12/24/07	3	2000	0.139	0.222				
	Total		12/07/2007			37773		12/12/07	01/07/08	11	4475	0.115		0.329			
05-27-99**	Benicia (CNFH)		12/11/2007	9	11	12918	115	--	--	0	--	--	**		0	0	
05-29-94	Georgiana Slough (CNFH)			10	10	17498	131	--	--	0	--	--	--				
05-29-95	Georgiana Slough (CNFH)			10	10	17539	133	03/17/08	03/17/08	2	200	0.139	0.107				
05-36-83	Georgiana Slough (CNFH)			13	10	17290	134	--	--	0	--	--	--				
05-36-84	Georgiana Slough (CNFH)			13	10	17326	132	02/04/08	02/04/08	1	145	0.101	0.075				
	Total		01/17/2008			69653		02/04/08	03/17/08	3	660	0.011		0.525			
05-36-74	Ryde (CNFH)			10	9	12797	125	01/26/08	02/02/08	4	1290	0.112	0.363				
05-36-75	Ryde (CNFH)			10	9	11461	129	01/22/08	04/03/08	3	3867	0.037	0.925				
05-36-76	Ryde (CNFH)			12	9	12829	126	01/22/08	02/02/08	8	2082	0.120	0.673				
	Total		01/18/2008			37087		01/22/08	04/03/08	15	3867	0.037		1.429			
05-36-77**	Benicia (CNFH)		01/22/2008	8	8	12101	128	--	--	0	--	--	**		0	0	
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-45-53	Caldwell Park (LSNFH)					7478	93	--	--	0	--	--	--				
05-45-54	Caldwell Park (LSNFH)					7386	90	--	--	0	--	--	--				
05-46-04	Caldwell Park (LSNFH)					7437	88	--	--	0	--	--	--				
05-46-05	Caldwell Park (LSNFH)					6897	83	--	--	0	--	--	--				
05-46-06	Caldwell Park (LSNFH)					8219	82	--	--	0	--	--	--				
05-46-07	Caldwell Park (LSNFH)					8479	82	03/12/08	03/12/08	1	100	0.069	0.221				
05-46-08	Caldwell Park (LSNFH)					8811	88	03/27/08	03/27/08	1	200	0.139	0.106				
05-46-09	Caldwell Park (LSNFH)					9382	91	--	--	0	--	--	--				
05-46-10	Caldwell Park (LSNFH)					7794	94	--	--	0	--	--	--				
	Total		01/31/2008			71883		03/12/08	03/27/08	2	880	0.038		0.095			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-02-01-07-01	Butte Creek (Wild)		03/04/2008			10462	36	05/12/08	05/12/08	1	200	0.139	0.089				

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-80-10	Boyd's Pump Ramp (FRH)		04/07/2008			566158	75	04/17/08	05/08/08	49	1380	0.044	0.258				
06-24-75	Boyd's Pump Ramp (FRH)					114987	75	04/21/08	05/05/08	13	1000	0.046	0.317				
06-24-76	Boyd's Pump Ramp (FRH)					116575	75	04/21/08	05/08/08	10	1200	0.046	0.241				
	Total		04/14/2008			231562		04/21/08	05/08/08	23	1200	0.046		0.279			
06-80-11	Boyd's Pump Ramp (FRH)					117291	75	04/24/08	05/01/08	2	600	0.052	0.043				
06-80-12	Boyd's Pump Ramp (FRH)					116846	75	04/24/08	04/28/08	4	400	0.056	0.080				
	Total		04/15/2008			234137		04/24/08	05/01/08	6	600	0.052		0.064			
06-80-14	Boyd's Pump Ramp (FRH)					112761	75	04/28/08	05/05/08	4	600	0.052	0.089				
06-80-15	Boyd's Pump Ramp (FRH)					116796	75	04/24/08	05/08/08	10	1000	0.046	0.240				
	Total		04/18/2008			229557		04/24/08	05/08/08	14	1000	0.046		0.171			
06-80-13	Boyd's Pump Ramp (FRH)		04/21/2008			117527	75	--	--	0	--	--	--				
06-02-01-06-07	Butte Creek (Wild)		05/28/2008			10776	36	05/19/08	05/19/08	145	145	0.101	17.373				
Sacramento-San Joaquin Estuary																	
06-80-09**	San Pablo Bay (FRH)		04/07/2008			1127997	75	--	--	0	--	--	**		0	0	
06-24-74**	Selby (FRH)		04/21/2008			114483	67	--	--	0	--	--	**		0	0	

** Releases downstream of Chipps Island not included in survival calculations

Fall run releases

Upper Sacramento River and Tributaries

05-01-04-09-03	RBDD (CNFH)					25191	55	--	--	0	--	--	--				
05-01-04-09-04	RBDD (CNFH)					25863	54	--	--	0	--	--	--				
	Total		03/03/2008			51054		--	--	0	--	--	--				
05-01-04-09-07	RBDD (CNFH)					25205	55	--	--	0	--	--	--				
05-01-04-09-08	RBDD (CNFH)					25622	55	--	--	0	--	--	--				
	Total		03/10/2008			50827		--	--	0	--	--	--				
06-86-08**	San Pablo Bay (FRH)		04/04/2008			262919	107	--	--	0	--	--	**		0	0	
06-86-09**	San Pablo Bay (FRH)		04/11/2008			261863	113	--	--	0	--	--	**		0	0	
06-70-16**	San Pablo Bay (FRH)		04/14/2008			281892	109	--	--	0	--	--	**		0	0	
05-43-91	Battle Creek (CNFH)	CHNF Production				110420	80	05/05/08	05/05/08	1	200	0.139	0.008				
05-43-93	Battle Creek (CNFH)	CHNF Production				108921	77	05/05/08	05/05/08	6	200	0.139	0.052				
05-44-65	Battle Creek (CNFH)	CHNF Production				220909	77	05/05/08	05/15/08	8	800	0.051	0.093				
05-44-66	Battle Creek (CNFH)	CHNF Production				222907	77	05/05/08	05/15/08	8	800	0.051	0.092				
05-44-67	Battle Creek (CNFH)	CHNF Production				224687	75	05/05/08	05/12/08	4	600	0.052	0.044				
	Total		04/23/2008			887844		05/05/08	05/15/08	27	800	0.051		0.078			
06-86-10**	San Pablo Bay (FRH)		04/25/2008			267487	108	--	--	0	--	--	**		0	0	
05-43-95	Battle Creek (CNFH)	CHNF Production				109247	73	05/12/08	05/12/08	1	200	0.139	0.009				
05-43-98	Battle Creek (CNFH)	CHNF Production				109508	65	--	--	0	--	--	--				
05-43-99	Battle Creek (CNFH)	CHNF Production				110799	64	05/15/08	05/15/08	1	200	0.139	0.008				
05-44-64	Battle Creek (CNFH)	CHNF Production				227353	73	05/15/08	05/19/08	2	345	0.048	0.024				
05-44-68	Battle Creek (CNFH)	CHNF Production				226106	75	05/12/08	05/30/08	5	1145	0.042	0.069				
05-44-69	Battle Creek (CNFH)	CHNF Production				224294	75	05/12/08	06/04/08	5	1545	0.045	0.065				
05-44-70	Battle Creek (CNFH)	CHNF Production				221464	73	05/12/08	05/12/08	1	200	0.139	0.004				
05-44-71	Battle Creek (CNFH)	CHNF Production				338491	76	--	--	0	--	--	--				
05-44-72	Battle Creek (CNFH)	CHNF Production				346353	76	05/12/08	05/30/08	7	1145	0.042	0.063				
	Total		04/29/2008			1913615		05/12/08	06/04/08	22	1545	0.045		0.033			
06-86-11**	San Pablo Bay (FRH)		05/05/2008			260203	97	--	--	0	--	--	**		0	0	

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06-86-05**	San Pablo Bay (FRH)		05/07/2008			392455	97	--	--	0	--	--	**		0	0	
06-86-01**	San Pablo Bay (FRH)		05/08/2008			519402	107	--	--	0	--	--	**		0	0	
06-86-07**	San Pablo Bay (FRH)		05/09/2008			394792	105	--	--	0	--	--	**		0	0	
06-86-04**	San Pablo Bay (FRH)		05/19/2008			399244	100	--	--	0	--	--	**		0	0	
06-86-02**	San Pablo Bay (FRH)		05/21/2008			444826	101	--	--	0	--	--	**		0	0	
06-86-12**	San Pablo Bay (FRH)		05/22/2008			213003	98	--	--	0	--	--	**		0	0	
05-43-94**	San Pablo Bay (FRH)		05/27/2008			113768	88	--	--	0	--	--	**		0	0	
06-86-15**	San Pablo Bay (FRH)		06/03/2008			76409	107	--	--	0	--	--	**		0	0	
06-86-03**	San Pablo Bay (FRH)		06/06/2008			461701	100	--	--	0	--	--	**		0	0	
06-86-26**	San Pablo Bay (FRH)		06/11/2008			31266	107	--	--	0	--	--	**		0	0	
06-70-01**	San Pablo Bay (FRH)		06/12/2008			312228	95	--	--	0	--	--	**		0	0	
** Releases downstream of Chipps Island not included in survival calculations																	
Sacramento-San Joaquin Estuary																	
06-08-02-01-03	Lighthouse Marina (FRH)			7	8	27030	59	--	--	0	--	--	--				
06-08-02-01-04	Lighthouse Marina (FRH)			7	8	27715	59	--	--	0	--	--	--				
	Total		02/06/2008			54745				0							
06-08-02-01-02	Isleton (FRH)			7	8	27343	59	--	--	0	--	--	--				
06-08-02-01-01	Isleton (FRH)			7	8	27827	59	--	--	0	--	--	--				
	Total		02/06/2008			55170				0							
06-08-00-00-00	Elkhorn Park (FRH)					53121	51	03/27/08	04/03/08	3	600	0.052	0.141				
06-08-00-00-01	Elkhorn Park (FRH)					56023	59	04/07/08	04/07/08	1	200	0.139	0.017				
	Total		02/08/2008			109144		03/27/08	04/07/08	4	800	0.046		0.103			
06-08-02-00-09	Lighthouse Marina (FRH)			7	12	26751	59	--	--	0	--	--	--				
06-08-02-01-00	Lighthouse Marina (FRH)			7	12	26364	59	--	--	0	--	--	--				
	Total		02/20/2008			53115		--	--	0	--	--	--				
06-08-02-00-07	Isleton (FRH)			7	13	27337	59	--	--	0	--	--	--				
06-08-02-00-08	Isleton (FRH)			7	13	26854	59	--	--	0	--	--	--				
	Total		02/20/2008			54191		--	--	0	--	--	--				
06-08-00-00-02	Elkhorn Park (FRH)					56023	59	--	--	0	--	--	**				
06-08-00-00-03	Elkhorn Park (FRH)					55856	59	04/03/08	04/03/08	1	200	0.139	0.017				
	Total		02/21/2008			111879		04/03/08	04/03/08	1	200	0.139		0.008			
05-01-04-09-01	Clarksburg (CNFH)			11	13	23916	54	--	--	0	--	--	--				
05-01-04-09-02	Clarksburg (CNFH)			11	13	25549	54	--	--	0	--	--	--				
	Total		03/03/2008			49465		--	--	0	--	--	--				
05-01-04-09-05	Clarksburg (CNFH)			12	15	25057	56	--	--	0	--	--	--				
05-01-04-09-06	Clarksburg (CNFH)			12	15	24722	56	03/24/08	03/24/08	1	200	0.139	0.038				
	Total		03/10/2008			49779		03/24/08	03/24/08	1	200	0.139		0.019			
06-86-14	New Hope Landing (MOK)		04/22/2008			101458	105	05/08/08	05/08/08	1	200	0.139	0.009				
06-03-59	W. Sacramento (FRH)			13	20	24499	76	--	--	0	--	--	--				
06-03-60	W. Sacramento (FRH)			13	20	25942	76	--	--	0	--	--	--				
06-03-61	W. Sacramento (FRH)			13	21	25333	78	05/28/08	05/28/08	1	200	0.139	0.037				
06-03-62	W. Sacramento (FRH)			13	21	25661	78	06/16/08	06/16/08	1	200	0.139	0.036				

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	Total		05/07/2008			101435		05/28/08	06/16/08	2	1800	0.063		0.041			
06-03-67**	Benicia (FRH)					25953	68	--	--	0	--	--	**		0	0	
06-03-68**	Benicia (FRH)					25623	69	--	--	0	--	--	**		0	0	
	Total		05/14/2008			51576		--	--	0	--	--	**				
05-43-92**	Rodeo Minor Port (CNFH)		05/19/2008			91680	82	--	--	0	--	--	**		0	0	
06-03-58	W. Sacramento (FRH)					27179	85	05/30/08	05/30/08	1	200	0.139	0.034				
06-03-65	W. Sacramento (FRH)					29292	84	06/06/08	06/11/08	2	600	0.069	0.128				
06-03-66	W. Sacramento (FRH)					28662	85	--	--	0	--	--	--				
	Total		05/21/2008			85133		05/30/08	06/11/08	3	1200	0.064		0.071			
06-03-63**	Benicia (FRH)					25116	85	--	--	0	--	--	**		0	0	
06-03-64**	Benicia (FRH)					25533	86	--	--	0	--	--	**		0	0	
	Total		05/28/2008			50649		--	--	0	--	--	**				
05-43-97**	Rodeo Minor Port (CNFH)		06/02/2008			109233	83	--	--	0	--	--	**		0	0	

** Releases downstream of Chipps Island not included in survival calculations

2007 (sampling period: 08/01/06 - 05/25/07)

Late-fall run releases

Upper Sacramento River and Tributaries

05-33-81	Battle Creek (CNFH)	Spring Surrogates		n/p	n/p	81188	128	12/16/06	01/18/07	15	5400	0.110	0.218		9	40	
05-33-82	Battle Creek (CNFH)	Spring Surrogates		n/p	n/p	94955	123	12/17/06	01/20/07	23	5600	0.111	0.283		16	17	
	Total		11/29/2006			176143		12/16/06	01/20/07	38	5800	0.112		0.251			
05-33-83	Battle Creek (CNFH)	CHNL Production		n/p	n/p	98447	132	01/16/07	03/10/07	26	8140	0.105	0.328		55	91	
05-33-84	Battle Creek (CNFH)	CHNL Production		n/p	n/p	97948	135	01/16/07	02/20/07	32	6540	0.126	0.337		78	197	
05-33-85	Battle Creek (CNFH)	CHNL Production		n/p	n/p	95661	132	01/18/07	02/17/07	33	6140	0.138	0.326		70	101	
05-33-86	Battle Creek (CNFH)	CHNL Production		n/p	n/p	75848	133	01/19/07	02/17/07	28	5940	0.138	0.349		86	61	
05-33-87	Battle Creek (CNFH)	CHNL Production		n/p	n/p	98963	137	01/20/07	02/16/07	20	5540	0.137	0.191		87	132	
05-33-89	Battle Creek (CNFH)	CHNL Production		n/p	n/p	67628	122	01/20/07	03/10/07	10	7540	0.105	0.184		16	18	
05-33-90	Battle Creek (CNFH)	CHNL Production		n/p	n/p	95134	140	01/14/07	03/01/07	16	7540	0.111	0.196		70	108	
	Total		01/03/2007			629629		01/14/07	03/10/07	165	8340	0.103		0.329			
05-33-88	Battle Creek (CNFH)		01/22/2007	n/p	n/p	82856	136	02/16/07	03/03/07	4	1600	0.069	0.090		16	18	

Sacramento-San Joaquin Estuary

05-33-76	W. Sacramento (CNFH)	Delta Action 8		53.8	47.7	17377	140	12/13/06	02/05/07	5	9540	0.120	0.311		0	28	
05-33-77	W. Sacramento (CNFH)	Delta Action 8		53.6	49.1	16060	145	--	--	0	--	--	--		8	0	
05-33-78	W. Sacramento (CNFH)	Delta Action 8		49.8	49.1	17487	145	12/15/06	12/21/06	3	1400	0.139	0.161		0	13	
	Total		12/05/2006			50924		12/13/06	02/05/07	8	9540	0.120		0.170			
05-33-71	Ryde (CNFH)	Delta Action 8		50.2	49.6	12500	143	12/12/06	12/13/06	2	400	0.139	0.150		0	9	
05-33-72	Ryde (CNFH)	Delta Action 8		50.2	49.6	12500	147	12/22/06	03/08/07	4	11740	0.106	0.393		0	0	
05-33-73	Ryde (CNFH)	Delta Action 8		54.5	49.6	12500	147	12/12/06	12/18/06	3	1400	0.139	0.225		0	9	
	Total		12/06/2006			37500		12/12/06	03/08/07	9	13740	0.110		0.284			
05-33-75	W. Sacramento (CNFH)	Delta Action 8	12/06/2006	49.6	47.7	13658	140	02/16/07	02/16/07	1	200	0.139	0.069		16	0	
05-33-74**	Benecia (CNFH)	Delta Action 8	12/11/2006	51.1	52.7	12200	132	--	--	0	--	--	**		0	0	

** Releases downstream of Chipps Island not included in survival calculations

05-29-93	Discovery Park (CNFH)	Delta Action 8		48.9	43.3	17535	145	01/31/07	02/22/07	6	3995	0.121	0.369		0	39	
05-33-79	Discovery Park (CNFH)	Delta Action 8		51.1	42.6	17757	148	02/14/07	02/16/07	4	600	0.139	0.211		32	83	
05-33-80	Discovery Park (CNFH)	Delta Action 8		45	41.7	17868	142	02/02/07	03/03/07	6	4395	0.102	0.429		39	70	
	Total		01/17/2007			53160		01/31/07	03/03/07	16	4795	0.104		0.376			
05-29-88	Ryde (CNFH)			47.5	44.4	12023	139	02/01/07	02/17/07	2	3395	0.139	0.156		23	92	
05-29-89	Ryde (CNFH)			47.5	44.4	13024	146	02/02/07	02/24/07	5	3795	0.115	0.436		8	53	

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-29-90	Ryde (CNFH)			48.6	44.4	12067	145	01/23/07	02/20/07	4	5350	0.128	0.336		16	26	
	Total		01/18/2007			37114		01/23/07	02/24/07	11	5750	0.121		0.318			
05-29-92	Discovery Park (CNFH)	Delta Action 8	01/18/2007	45.5	40.8	17225	137	02/06/07	02/06/07	1	200	0.139	0.054		8	52	
05-29-91**	Benecia (CNFH)		01/19/2007	48	47.5	12670	140	02/02/07	02/02/07	1	--	--	**		0	0	
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-16-80	Caldwell Park (LSNFH)			n/p	n/p	9158	85	03/20/07	03/20/07	2	200	0.139	0.204		0	0	
05-16-82	Caldwell Park (LSNFH)			n/p	n/p	8771	85	--	--	0	--	--	--		0	0	
05-16-97	Caldwell Park (LSNFH)			n/p	n/p	8964	85	--	--	0	--	--	--		0	0	
05-16-98	Caldwell Park (LSNFH)			n/p	n/p	9046	85	03/10/07	03/22/07	2	1200	0.064	0.448		0	9	
05-23-68	Caldwell Park (LSNFH)			n/p	n/p	35076	85	03/10/07	03/17/07	2	800	0.069	0.107		0	0	
05-24-90	Caldwell Park (LSNFH)			n/p	n/p	9095	85	02/17/07	04/09/07	3	4600	0.061	0.698		0	0	
05-24-91	Caldwell Park (LSNFH)			n/p	n/p	9057	85	--	--	0	--	--	--		0	0	
05-24-92	Caldwell Park (LSNFH)			n/p	n/p	9595	85	--	--	0	--	--	--		0	0	
05-24-93	Caldwell Park (LSNFH)			n/p	n/p	8404	85	03/15/07	03/24/07	4	1000	0.069	0.891		0	0	
05-33-99	Caldwell Park (LSNFH)			n/p	n/p	9905	85	--	--	0	--	--	--		0	0	
05-34-66	Caldwell Park (LSNFH)			n/p	n/p	9152	85	03/08/07	03/08/07	1	200	0.139	0.102		0	0	
05-34-67	Caldwell Park (LSNFH)			n/p	n/p	9499	85	03/08/07	03/20/07	2	1200	0.064	0.427		0	0	
05-34-68	Caldwell Park (LSNFH)			n/p	n/p	10011	85	--	--	0	--	--	--		0	17	
05-34-69	Caldwell Park (LSNFH)			n/p	n/p	9696	85	03/20/07	03/20/07	1	200	0.139	0.097		0	0	
05-34-70	Caldwell Park (LSNFH)			n/p	n/p	9933	85	03/22/07	03/22/07	1	200	0.139	0.094		0	0	
05-34-71	Caldwell Park (LSNFH)			n/p	n/p	9593	85	03/20/07	03/20/07	1	200	0.139	0.098		0	0	
05-34-72	Caldwell Park (LSNFH)			n/p	n/p	9953	85	03/10/07	03/24/07	5	1400	0.065	1.008		0	0	
05-34-73	Caldwell Park (LSNFH)			n/p	n/p	10952	85	03/15/07	03/15/07	1	200	0.139	0.085		16	0	
05-38-67	Caldwell Park (LSNFH)			n/p	n/p	408	85	--	--	0	--	--	--		0	0	
	Total					196268		02/17/07	04/09/07	25	4600	0.061		0.270			
			02/08/2007														
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-02-04-00-01	Caswell State Park (Wild)		02/26/2007	n/p	n/p	569	n/p	--	--	0	--	--	--		0	0	
06-02-04-00-00	Caswell State Park (Wild)		03/05/2007	n/p	n/p	118	n/p	--	--	0	--	--	--		0	0	
06-02-04-00-02	Caswell State Park (Wild)		03/12/2007	n/p	n/p	34	n/p	--	--	0	--	--	--		8	0	
05-01-04-08-03	RBDD (CNFH)			n/p	n/p	25930	56	04/20/07	04/23/07	3	795	0.138	0.109		0	0	
05-01-04-08-04	RBDD (CNFH)			n/p	n/p	25951	56	04/20/07	04/23/07	4	795	0.138	0.145		0	0	
	Total		03/15/2007			51881		04/20/07	04/23/07	7	795	0.138		0.127			
05-01-04-08-07	RBDD (CNFH)			n/p	n/p	26153	59	04/23/07	04/23/07	1	200	0.139	0.036		0	0	
05-01-04-08-08	RBDD (CNFH)			n/p	n/p	25436	58	04/23/07	04/24/07	3	400	0.139	0.110		0	0	
	Total		03/22/2007			51589		04/23/07	04/24/07	4	400	0.139		0.073			
05-37-94	Battle Creek (CNFH)		04/12/2007	n/p	n/p	1278401	77	04/23/07	05/09/07	207	3250	0.133	0.159		10	0	
06-47-27	Merced River (MRFF)			n/p	58	24282	91	--	--	0	--	--	--		0	0	
06-47-28	Merced River (MRFF)			n/p	58	27894	91	--	--	0	--	--	--		0	0	
06-47-29	Merced River (MRFF)			n/p	58	24627	91	--	--	0	--	--	--		0	0	
06-47-30	Merced River (MRFF)			n/p	58	25190	91	05/04/07	05/04/07	1	200	0.139	0.037		0	0	
	Total		04/20/2007			101993		05/04/07	05/04/07	1	200	0.139		0.009			
05-37-95	Battle Creek (CNFH)			n/p	n/p	1434539	75	05/02/07	05/17/07	90	2935	0.127	0.064		0	19	
05-37-96	Battle Creek (CNFH)			n/p	n/p	65668	73	05/07/07	05/11/07	2	940	0.131	0.030		0	0	
05-37-97	Battle Creek (CNFH)			n/p	n/p	46937	73	05/09/07	05/09/07	1	200	0.139	0.020		0	0	
05-37-98	Battle Creek (CNFH)			n/p	n/p	65963	70	05/08/07	05/08/07	1	160	0.111	0.018		0	0	
05-37-99	Battle Creek (CNFH)			n/p	n/p	40352	70	--	--	0	--	--	--		0	0	
05-38-64	Battle Creek (CNFH)			n/p	n/p	65209	69	05/02/07	05/20/07	8	3535	0.129	0.123		0	0	
05-38-65	Battle Creek (CNFH)			n/p	n/p	42121	69	05/03/07	05/15/07	2	2335	0.125	0.049		0	0	
	Total		04/23/2007			1760789		05/02/07	05/20/07	104	3535	0.129		0.059			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-47-25	Hatfield (MRFF)			52	61	25972	97	05/03/07	05/03/07	1	200	0.139	0.036		0	0	
06-47-26	Hatfield (MRFF)			52	61	26427	97	05/05/07	05/05/07	1	200	0.139	0.035		0	0	
	Total		04/24/2007			52399		05/03/07	05/05/07	2	600	0.139		0.036			
06-47-33	Merced River (MRFF)			n/p	58	25270	94	--	--	0	--	--	--		0	0	
06-47-34	Merced River (MRFF)			n/p	58	25107	94	--	--	0	--	--	--		0	0	
06-47-35	Merced River (MRFF)			n/p	58	25170	94	--	--	0	--	--	--		0	0	
06-47-36	Merced River (MRFF)			n/p	58	25237	94	--	--	0	--	--	--		0	0	
	Total		05/04/2007			100784				0							
06-47-31	Hatfield (MRFF)			61	66	24269	100	--	--	0	--	--	--		0	0	
06-47-32	Hatfield (MRFF)			61	66	24676	100	--	--	0	--	--	--		0	0	
	Total		05/08/2007			48945											
Sacramento-San Joaquin Estuary																	
06-01-09-01-00	Yolo Bypass (FRH)			n/p	n/p	10163	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-01	Yolo Bypass (FRH)			n/p	n/p	9967	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-02	Yolo Bypass (FRH)			n/p	n/p	10966	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-03	Yolo Bypass (FRH)			n/p	n/p	10564	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-04	Yolo Bypass (FRH)			n/p	n/p	11165	n/p	--	--	0	--	--	--		0	0	
	Total		02/06/2007			52825				0							
06-01-09-01-05	Elkhorn Park (FRH)			n/p	n/p	10414	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-06	Elkhorn Park (FRH)			n/p	n/p	10733	n/p	04/23/07	04/23/07	1	200	0.139	0.087		0	0	
06-01-09-01-07	Elkhorn Park (FRH)			n/p	n/p	11115	n/p	04/13/07	04/13/07	1	200	0.139	0.084		0	0	
06-01-09-02-00	Elkhorn Park (FRH)			n/p	n/p	10404	n/p	04/06/07	04/06/07	1	200	0.139	0.090		0	0	
06-01-09-02-01	Elkhorn Park (FRH)			n/p	n/p	9645	n/p	04/23/07	04/23/07	1	200	0.139	0.097		0	0	
	Total		02/06/2007			52311		04/06/07	04/23/07	4	2395	0.092		0.108			
06-01-08-09-02	Lighthouse Marina (FRH)			43	50.9	26779	50	--	--	0	--	--	--		0	4	
06-01-08-09-03	Lighthouse Marina (FRH)			43	50.9	28160	50	--	--	0	--	--	--		0	9	
	Total		02/09/2007			54939				0							
06-01-08-09-04	Isleton (FRH)			43	51.8	26276	50	03/29/07	03/29/07	1	200	0.139	0.036		0	0	
06-01-08-09-05	Isleton (FRH)			43	51.8	25817	50	04/09/07	04/09/07	1	200	0.139	0.036		0	0	
	Total		02/09/2007			52093		03/29/07	04/09/07	2	1200	0.069		0.072			
06-01-08-09-06	Lighthouse Marina (FRH)			41	59	26433	54	--	--	0	--	--	--		15	0	
06-01-08-09-07	Lighthouse Marina (FRH)			41	59	26005	54	--	--	0	--	--	--		0	0	
	Total		02/15/2007			52438				0							
06-01-08-09-08	Isleton (FRH)			41	55.4	25773	53	04/23/07	04/23/07	1	200	0.139	0.036		0	0	
06-01-08-09-09	Isleton (FRH)			41	55.4	26011	53	--	--	0	--	--	--		0	8	
	Total		02/15/2007			51784		04/23/07	04/23/07	1	200	0.139		0.018			
06-01-09-01-08	Yolo Bypass (FRH)			n/p	n/p	10464	n/p	--	--	0	--	--	--		0	0	
06-01-09-01-09	Yolo Bypass (FRH)			n/p	n/p	11303	n/p	--	--	0	--	--	--		0	0	
06-01-09-02-02	Yolo Bypass (FRH)			n/p	n/p	9697	n/p	--	--	0	--	--	--		0	0	
06-01-09-02-03	Yolo Bypass (FRH)			n/p	n/p	10800	n/p	--	--	0	--	--	--		0	0	
06-01-09-02-04	Yolo Bypass (FRH)			n/p	n/p	9706	n/p	--	--	0	--	--	--		0	0	
	Total		02/20/2007			51970											
06-01-09-02-05	Elkhorn Park (FRH)			n/p	n/p	11274	n/p	04/19/07	04/19/07	1	200	0.139	0.083		0	0	
06-01-09-02-06	Elkhorn Park (FRH)			n/p	n/p	11754	n/p	--	--	0	--	--	--		0	0	
06-01-09-02-07	Elkhorn Park (FRH)			n/p	n/p	10933	n/p	04/02/07	04/19/07	3	2000	0.077	0.462		0	8	
06-01-09-02-08	Elkhorn Park (FRH)			n/p	n/p	11306	n/p	04/23/07	04/23/07	1	200	0.139	0.083		0	0	
06-01-09-02-09	Elkhorn Park (FRH)			n/p	n/p	10890	n/p	04/13/07	04/13/07	1	200	0.139	0.086		0	0	
	Total		02/20/2007			56157		04/02/07	04/23/07	6	2795	0.088		0.157			
05-01-04-08-01	Clarksburg (CNFH)			55.4	62.6	23704	57	--	--	0	--	--	--		0	0	
05-01-04-08-02	Clarksburg (CNFH)			55.4	62.6	24560	57	04/02/07	04/22/07	6	2595	0.086	0.370		0	0	

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		03/15/2007			48264		04/02/07	04/22/07	6	2595	0.086		0.188			
05-01-04-08-05	Clarksburg (CNFH)			56	51.8	25784	57	04/16/07	04/20/07	2	1000	0.139	0.073		0	0	
05-01-04-08-06	Clarksburg (CNFH)			56	51.8	25074	57	04/09/07	04/24/07	3	2395	0.104	0.150		0	0	
	Total		03/22/2007			50858		04/09/07	04/24/07	5	2395	0.104		0.123			
06-23-16	W. Sacramento (FRH)			52	60.8	24385	82	04/23/07	05/08/07	8	3050	0.132	0.322		0	0	
06-23-17	W. Sacramento (FRH)			52	60.8	26200	82	04/24/07	05/08/07	11	2850	0.132	0.414		0	0	
	Total		04/16/2007			50585		04/23/07	05/08/07	19	3050	0.132		0.369			
06-23-22**	Benecia (FRH)			49	61.7	12647	85	--	--	0	--	--	**		0	0	
06-23-23**	Benecia (FRH)			49	61.7	12868	85	--	--	0	--	--	**		0	0	
	Total		04/23/2007			25515				0							
06-23-18	W. Sacramento (FRH)			49	68.9	25378	88	05/07/07	05/07/07	1	200	0.139	0.037		0	0	
06-23-19	W. Sacramento (FRH)			49	68.9	24703	88	05/10/07	05/10/07	1	200	0.139	0.038		0	0	
	Total		04/30/2007			50081		05/07/07	05/10/07	2	760	0.132		0.039			
06-23-26**	Benecia (FRH)			49	65.5	12964	103	--	--	0	--	--	**		0	0	
06-23-27**	Benecia (FRH)			49	65.5	13118	103	05/09/07	05/09/07	1	--	--	**		0	0	
	Total		05/07/2007			26082		05/09/07	05/09/07	1							
06-23-20	W. Sacramento (FRH)			52	67.6	23973	98	--	--	0	--	--	--		0	0	
06-23-21	W. Sacramento (FRH)			52	67.6	24492	98	--	--	0	--	--	--		0	0	
	Total		05/14/2007			48465				0							
06-23-24**	Benecia (FRH)			50	67.1	12252	108	05/25/07	05/25/07	1	--	--	**		0	0	
06-23-25**	Benecia (FRH)			50	67.1	12550	108	05/23/07	05/23/07	2	--	--	**		0	0	
	Total		05/21/2007			24802		05/23/07	05/25/07	3							
2006																	
2006 (sampling period: 08/01/05 - 07/31/06)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-27-80	Battle Creek (CNFH)	Spring Surrogates		n/p	n/p	45475	116	12/17/2005	12/29/05	17	2350	0.126	0.387		12	33	
05-27-81	Battle Creek (CNFH)	Spring Surrogates		n/p	n/p	80014	116	12/12/2005	02/10/06	31	8572	0.098	0.516		48	54	
	Total		12/02/2005			125489		12/12/2005	02/10/06	48	8572	0.098		0.510			
05-01-02-15-10	Battle Creek (CNFH)	CHNL Production		n/p	n/p	19414	140	12/09/2005	02/15/06	5	9572	0.096	0.348		12	6	
05-01-02-15-11	Battle Creek (CNFH)	CHNL Production		n/p	n/p	12798	116	08/15/2005	03/15/06	6	21783	0.071	0.858		0	0	
05-27-83	Battle Creek (CNFH)	CHNL Production		n/p	n/p	60266	125	01/09/2006	04/03/06	16	8151	0.067	0.518		0	6	
05-28-64	Battle Creek (CNFH)	CHNL Production		n/p	n/p	26789	124	01/23/2006	03/03/06	6	3599	0.062	0.466		12	0	
05-28-65	Battle Creek (CNFH)	CHNL Production		n/p	n/p	74731	129	01/10/2006	03/22/06	16	6952	0.067	0.415		12	9	
05-28-66	Battle Creek (CNFH)	CHNL Production		n/p	n/p	82691	141	01/08/2006	03/20/06	19	7147	0.069	0.433		0	0	
05-28-67	Battle Creek (CNFH)	CHNL Production		n/p	n/p	80899	137	01/09/2006	04/03/06	19	8151	0.067	0.459		0	15	
05-28-68	Battle Creek (CNFH)	CHNL Production		n/p	n/p	70165	136	01/10/2006	04/05/06	13	8151	0.066	0.366		12	6	
05-28-69	Battle Creek (CNFH)	CHNL Production		n/p	n/p	77539	126	01/12/2006	02/10/06	19	3152	0.073	0.437		0	6	
05-28-70	Battle Creek (CNFH)	CHNL Production		n/p	n/p	80238	134	01/12/2006	03/22/06	15	6552	0.065	0.374		12	15	
	Total		01/03/2006			585530		08/15/2005	04/05/06	134	23582	0.070		0.425			
05-27-82	Battle Creek (CNFH)	Spring surrogates	01/19/2006	n/p	n/p	65496	141	01/27/2006	02/27/06	20	2800	0.061	0.653		12	12	
Sacramento-San Joaquin Estuary																	
05-27-84	Georgiana Slough (CNFH)	Delta Action 8		51	48	17631	123	--	--	--	--				12	18	
05-27-85	Georgiana Slough (CNFH)	Delta Action 8		51	48	17592	123	12/18/2005	12/19/05	3	360	0.125	0.177		12	51	
05-27-86	Georgiana Slough (CNFH)	Delta Action 8		57	48	17515	122	12/22/2005	12/22/05	1	200	0.139	0.053		0	18	
05-27-87	Georgiana Slough (CNFH)	Delta Action 8		57	48	17676	122	12/19/2005	12/20/05	2	400	0.139	0.106		12	42	
	Total		12/08/2005			70414		12/18/2005	12/22/05	6	960	0.133		0.083			
05-27-88	Ryde (CNFH)	Delta Action 8		51	48	12746	126	12/14/2005	12/20/05	3	1360	0.135	0.227		0	0	

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-27-89	Ryde (CNFH)	Delta Action 8		51	48	12255	125	12/16/2005	01/03/06	7	3085	0.113	0.659		0	3	
05-27-90	Ryde (CNFH)	Delta Action 8		53	48	12798	132	12/14/2005	12/27/05	7	2560	0.127	0.560		12	0	
05-27-91	Ryde (CNFH)	Delta Action 8		53	48	13218	127	12/15/2005	12/29/05	6	2750	0.127	0.464		0	0	
	Total		12/09/2005			51017		12/14/2005	01/03/06	23	3485	0.115		0.509			
05-27-92	Sherman Island (CNFH)	Delta Action 8		51	48	12189	120	12/13/2005	12/20/05	11	1560	0.135	0.866		0	0	
05-27-93	Sherman Island (CNFH)	Delta Action 8		51	48	12797	129	12/13/2005	12/23/05	19	2160	0.136	1.415		0	0	
	Total		12/12/2005			24986		12/13/2005	12/23/05	30	2160	0.136		1.145			
05-27-94**	Port Chicago (CNFH)	Delta Action 8		52.7	48	12743	128	12/20/2005	12/20/05	1	--	--	**		0	0	
05-27-95**	Port Chicago (CNFH)	Delta Action 8		52.7	48	12918	123	12/17/2005	12/17/05	1	--	--	**		0	0	
	Total		12/14/2005			25661		12/17/2005	12/20/05	2							

** Releases downstream of Chipps Island not included in survival calculations

Winter run releases

Upper Sacramento River and Tributaries

05-24-78	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9573	86	--	--	--	--	--	--		0	0	
05-24-79	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9643	84	03/22/2006	03/22/06	1	200	0.139	0.097		12	0	
05-24-80	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9729	85	03/20/2006	03/20/06	1	200	0.139	0.096		0	0	
05-24-81	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9790	89	03/03/2006	03/03/06	3	200	0.139	0.287		0	0	
05-24-82	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9991	86	03/01/2006	03/01/06	1	200	0.139	0.094		12	0	
05-24-83	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9215	87	03/08/2006	03/08/06	1	200	0.139	0.102		0	6	
05-24-84	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9772	84	03/01/2006	03/06/06	3	600	0.069	0.575		0	0	
05-24-85	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9875	87	02/27/2006	02/27/06	2	200	0.139	0.190		0	6	
05-24-86	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	2565	84	--	--	--	--	--	--		0	0	
05-24-87	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9670	91	--	--	--	--	--	--		0	0	
05-24-88	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9117	80	02/27/2006	03/01/06	2	400	0.093	0.308		12	0	
05-27-74	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9024	89	03/03/2006	04/05/06	2	2999	0.061	0.470		12	6	
05-27-75	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	9994	83	03/03/2006	04/05/06	2	2999	0.061	0.425		12	0	
05-27-76	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	8293	87	--	--	--	--	--	--		12	0	
05-27-77	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	8249	84	04/12/2006	04/12/06	1	200	0.139	0.113		0	0	
05-30-72	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	10297	82	--	--	--	--	--	--		0	0	
05-30-73	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	13115	73	03/27/2006	03/29/06	2	399	0.092	0.215		0	0	
05-30-74	Caldwell Park (LSNFH)	CHNW Production		n/p	n/p	15603	86	02/17/2006	03/01/06	3	1200	0.064	0.390		0	0	
	Total		02/02/2006			173515		02/17/2006	04/12/06	24	4799	0.061		0.297			

Fall run releases

Upper Sacramento River and Tributaries

05-01-04-07-04	RBDD (CNFH)	Fry Study		46	n/p	24500	47.5	04/24/2006	04/24/06	1	200	0.139	0.038		0	0	
05-01-04-07-05	RBDD (CNFH)	Fry Study		46	n/p	25200	47.5	03/06/2006	05/09/06	5	7184	0.077	0.336		0	0	
	Total		02/16/2006			49700		03/06/2006	05/09/06	6	7184	0.077		0.204			
05-01-04-07-08	RBDD (CNFH)	Fry Study		n/p	n/p	24773	51	--	--	--	--	--	--		0	0	
05-01-04-07-09	RBDD (CNFH)	Fry Study		n/p	n/p	25530	52	05/09/2006	05/10/06	2	800	0.278	0.037		0	0	
	Total		02/24/2006			50303		05/09/2006	05/10/06	2	800	0.278		0.019			

Sacramento-San Joaquin Estuary

06-01-01-05-01	Yolo Bypass (FRH)	Fry Study				9979	56	--	--	--	--	--	--		0	0	
06-01-01-05-02	Yolo Bypass (FRH)	Fry Study				10557	56	--	--	--	--	--	--		0	0	
06-01-01-05-03	Yolo Bypass (FRH)	Fry Study				10427	56	--	--	--	--	--	--		0	0	
06-01-01-05-04	Yolo Bypass (FRH)	Fry Study				9868	56	04/19/2006	04/19/06	1	200	0.139	0.095		0	0	
06-01-01-05-05	Yolo Bypass (FRH)	Fry Study				10395	56	--	--	--	--	--	--		0	0	
	Total		02/16/2006			51226		04/19/2006	04/19/06	1	200	0.139		0.018			
06-01-01-05-06	Elkhorn Park (FRH)	Fry Study				10411	56	--	--	--	--	--	--		0	0	
06-01-01-05-07	Elkhorn Park (FRH)	Fry Study				11199	56	05/01/2006	05/01/06	2	200	0.139	0.167		0	0	
06-01-01-05-08	Elkhorn Park (FRH)	Fry Study				11060	56	04/24/2006	04/24/06	1	200	0.139	0.085		0	0	
06-01-01-05-09	Elkhorn Park (FRH)	Fry Study				10918	56	05/15/2006	05/15/06	1	400	0.278	0.043		0	0	
06-01-01-06-00	Elkhorn Park (FRH)	Fry Study				10454	56	--	--	--	--	--	--		0	0	
	Total		02/16/2006			54042		04/24/2006	05/15/06	4	5395	0.170		0.057			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-01-04-07-02	Clarksburg (CNFH)	Fry Study		46	44.5	24202	47.5	--	--	--	--	--	--		0	0	
05-01-04-07-03	Clarksburg (CNFH)	Fry Study		46	44.5	24518	47.5	04/26/2006	04/26/06	1	200	0.139	0.038		0	0	
	Total		02/16/2006			48720		04/26/2006	04/26/06	1	200	0.139		0.019			
06-01-01-09-04	Lighthouse Marina (FRH)	Fry Study		48.2	50	28241	60.5	05/07/2006	05/07/06	1	400	0.278	0.017		0	0	
06-01-01-09-05	Lighthouse Marina (FRH)	Fry Study		48.2	50	24450	60.5	--	--	--	--	--	--		0	0	
	Total		02/22/2006			52691		05/07/2006	05/07/06	1	400	0.278		0.009			
06-01-01-09-06	Isleton (FRH)	Fry Study		48.2	50	27205	60.5	03/15/2006	04/17/06	2	2989	0.061	0.157		0	0	
06-01-01-09-07	Isleton (FRH)	Fry Study		48.2	50	27702	60.5	05/11/2006	05/11/06	1	400	0.278	0.017		0	0	
	Total		02/22/2006			54907		03/15/2006	05/11/06	3	7184	0.086		0.083			
05-01-04-07-06	Clarksburg (CNFH)	Fry Study		52	57	24625	50	03/27/2006	04/14/06	2	1789	0.065	0.161		0	0	
05-01-04-07-07	Clarksburg (CNFH)	Fry Study		52	57	24920	50	05/06/2006	05/06/06	1	400	0.278	0.019		0	0	
	Total		02/24/2006			49545		03/27/2006	05/06/06	3	4184	0.071		0.111			
06-01-01-06-06	Elkhorn Park (FRH)	Fry Study		n/p	n/p	10684	58	04/28/2006	04/28/06	1	200	0.139	0.088		0	0	
06-01-01-06-07	Elkhorn Park (FRH)	Fry Study		n/p	n/p	11004	58	04/28/2006	04/28/06	1	200	0.139	0.085		0	0	
06-01-01-06-08	Elkhorn Park (FRH)	Fry Study		n/p	n/p	10123	58	04/28/2006	04/28/06	1	200	0.139	0.092		0	0	
06-01-01-06-09	Elkhorn Park (FRH)	Fry Study		n/p	n/p	11011	58	05/01/2006	05/05/06	2	795	0.110	0.214		0	0	
06-01-01-07-00	Elkhorn Park (FRH)	Fry Study		n/p	n/p	10730	58	--	--	--	--	--	--		0	0	
	Total		03/07/2006			53552		04/28/2006	05/05/06	5	995	0.086		0.141			
06-01-01-06-01	Yolo Bypass (FRH)	Fry Study		n/p	n/p	11147	58	--	--	--	--	--	--		0	0	
06-01-01-06-02	Yolo Bypass (FRH)	Fry Study		n/p	n/p	11309	58	--	--	--	--	--	--		0	0	
06-01-01-06-03	Yolo Bypass (FRH)	Fry Study		n/p	n/p	9605	58	--	--	--	--	--	--		0	0	
06-01-01-06-04	Yolo Bypass (FRH)	Fry Study		n/p	n/p	10501	58	--	--	--	--	--	--		0	0	
06-01-01-06-05	Yolo Bypass (FRH)	Fry Study		n/p	n/p	11856	58	04/17/2006	05/01/06	2	1400	0.065	0.338		0	0	
	Total		03/07/2006			54418		04/17/2006	05/01/06	2	1400	0.065		0.074			
06-01-01-09-02	Isleton (FRH)	Fry Study		50	51.8	28367	53.2	03/24/2006	03/24/06	1	200	0.139	0.033		0	0	
06-01-01-09-03	Isleton (FRH)	Fry Study		50	51.8	27968	53.2	03/10/2006	05/09/06	6	6784	0.077	0.361		0	0	
	Total		03/08/2006			56335		03/10/2006	05/09/06	7	6784	0.077		0.209			
06-01-01-09-08	Lighthouse Marina (FRH)	Fry Study		49	52.7	27895	70	--	--	--	--				0	0	
06-01-01-09-09	Lighthouse Marina (FRH)	Fry Study		49	52.7	27743	70	04/24/2006	04/24/06	1	200	0.139	0.034		0	0	
	Total		03/08/2006			55638		04/24/2006	04/24/06	1	200	0.139		0.017			
06-23-06	West Sacramento (FRH)	Survival Monitor.		49.14	54.54	25700	80.7	04/24/2006	05/15/06	21	5395	0.170	0.624		0	0	
06-23-07	West Sacramento (FRH)	Survival Monitor.		49.14	54.54	26200	80.7	05/01/2006	05/15/06	19	4795	0.222	0.425		0	0	
	Total		04/18/2006			51900		04/24/2006	05/15/06	40	5395	0.170		0.588			
06-23-10**	Port Chicago (FRH)	Survival Monitor.		53.64	59.04	13669	85.3	05/01/2006	05/01/06	1	--	--	**		0	0	
06-23-11**	Port Chicago (FRH)	Survival Monitor.		53.64	59.04	13050	85.3	05/01/2006	05/11/06	2	--	--	**		0	0	
	Total		04/25/2006			26719		05/01/2006	05/11/06	3							

** Releases downstream of Chipps Island not included in survival calculations

06-46-94	Merced River FF (MRFF)	Upper Survival 1		53.6	60.8	25533	88	05/06/2006	05/17/06	4	4800	0.278	0.073		60	0	
06-46-95	Merced River FF (MRFF)	Upper Survival 1		54	54	26120	81	--	--	--	--	--	--		12	12	
06-47-01	Merced River FF (MRFF)	Upper Survival 1		54	54	25382	81	05/27/2006	05/27/06	1	400	0.278	0.018		24	0	
06-47-02	Merced River FF (MRFF)	Upper Survival 1		54	54	26289	81	05/15/2006	05/31/06	4	6802	0.278	0.071		48	0	
	Total		04/26/2006			103324		05/15/2006	06/01/06	9	7202	0.278		0.041			
06-47-03	Hatfield State Park (MRFF)	Lower Survival 1		52	52	17615	87	05/08/2006	05/14/06	3	2800	0.278	0.080		48	6	
06-47-04	Hatfield State Park (MRFF)	Lower Survival 1		52	52	17684	87	05/06/2006	05/15/06	7	4000	0.278	0.185		24	9	
06-47-05	Hatfield State Park (MRFF)	Lower Survival 1		52	52	17645	87	05/07/2006	05/24/06	2	7202	0.278	0.053		12	6	
	Total		05/01/2006			52944		05/06/2006	05/24/06	12	7602	0.278		0.106			
06-47-17	Knights Ferry (MRFF)	Upper Survival 1		51.8	53.6	26089	73	--	--	--	--	--	--		219		
06-47-18	Knights Ferry (MRFF)	Upper Survival 1		51.8	53.6	25577	75	05/30/2006	05/30/06	1	400	0.278	0.018		252		

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-47-19	Knights Ferry (MRFF)	Upper Survival 1		55.4	53.6	24575	75	05/28/2006	06/11/06	2	5986	0.277	0.038		216	45	
	Total		04/28/2006			76241		05/28/2006	06/11/06	3	5986	0.277		0.018			
06-03-46	Mokelumne River FH (MOK)			n/p	n/p	28082	79.7	05/31/2006	06/08/06	2	3586	0.277	0.033		0	0	
06-03-47	Mokelumne River FH (MOK)			n/p	n/p	24943	79.7	--	--	--	--	--	--		0	0	
06-03-51	Mokelumne River FH (MOK)			n/p	n/p	25358	79.7	05/24/2006	05/26/06	2	1200	0.278	0.037		0	0	
06-03-52	Mokelumne River FH (MOK)			n/p	n/p	25648	79.7	--	--	--	--	--	--		0	0	
	Total		05/01/2006			104031		05/24/2006	06/08/06	4	6386	0.277		0.018			
06-23-08	West Sacramento (FRH)			54.54	61.74	25863	83.6	05/05/2006	05/29/06	40	10002	0.278	0.724		0	0	
06-23-09	West Sacramento (FRH)			54.54	61.74	26796	83.6	05/05/2006	05/26/06	30	8802	0.278	0.524		0	0	
	Total		05/01/2006			52659		05/05/2006	05/29/06	70	10002	0.278		0.622			
06-47-20	Two Rivers (MRFF)		05/02/2006	52.7	57.2	24411	75	05/10/2006	06/06/06	4	11188	0.277	0.077		112	0	
06-47-13	Mossdale (MRFF)	VAMP		52.7	64.4	24703	80	05/08/2006	05/18/06	7	4400	0.278	0.133		0	12	
06-47-14	Mossdale (MRFF)	VAMP		52.7	64.4	24315	77	05/11/2006	05/12/06	2	800	0.278	0.038		0	6	
	Total		05/04/2006			49018		05/08/2006	05/18/06	9	4400	0.278		0.086			
06-03-42	New Hope Landing (MOK)			n/p	n/p	25635	79.4	05/10/2006	05/10/06	1	400	0.278	0.018		0	0	
06-03-43	New Hope Landing (MOK)			n/p	n/p	25616	79.4	05/09/2006	05/10/06	2	800	0.278	0.037		0	0	
06-03-44	New Hope Landing (MOK)			n/p	n/p	25326	79.4	05/09/2006	05/20/06	3	4800	0.278	0.055		0	0	
06-03-45	New Hope Landing (MOK)			n/p	n/p	25530	79.4	--	--	--	--	--	--		0	0	
	Total		05/05/2006			102107		05/09/2006	05/20/06	6	4800	0.278		0.028			
06-47-16	Dos Reis (MRFF)	VAMP	05/05/2006	52.7	52.7	25602	79	05/10/2006	05/15/06	7	2400	0.278	0.128		0	0	
06-47-15	Jersey Point (MRFF)	VAMP	05/08/2006	52.7	66.2	26192	80	05/09/2006	05/16/06	58	3200	0.278	1.036		0	0	
06-23-14**	Port Chicago (FRH)			53.64	68	14400	94	05/11/2006	05/20/06	5	--	--	**		0	0	
06-23-15**	Port Chicago (FRH)			53.64	68	12800	94	05/10/2006	05/14/06	6	--	--	**		0	0	
	Total		05/09/2006			27200		05/10/2006	05/20/06	11							

** Releases downstream of Chipps Island not included in survival calculations

06-24-69	Feather River Hatchery (FRH)			n/p	n/p	158112	75	05/13/2006	06/09/06	97	11188	0.277	0.287		0	0	
06-24-70	Feather River Hatchery (FRH)			n/p	n/p	159157	75	05/13/2006	06/07/06	84	10388	0.277	0.247		0	0	
06-24-71	Feather River Hatchery (FRH)			n/p	n/p	156511	75	05/13/2006	06/08/06	66	10788	0.277	0.198		0	0	
06-24-72	Feather River Hatchery (FRH)			n/p	n/p	99202	75	05/13/2006	05/31/06	43	7602	0.278	0.203		0	0	
	Total		05/09/2006			572982		05/13/2006	06/09/06	290	11188	0.277		0.237			
06-47-09	Merced River FF (MRFF)	Upper Survival 2		54	54	23433	81	06/01/2006	06/01/06	1	400	0.278	0.020		72	12	
06-47-10	Merced River FF (MRFF)	Upper Survival 2		55.4	60.8	23500	87	05/31/2006	05/31/06	1	400	0.278	0.020		96	0	
06-47-11	Merced River FF (MRFF)	Upper Survival 2		55.4	60.8	23255	87	06/01/2006	06/01/06	1	400	0.278	0.020		48	12	
06-47-12	Merced River FF (MRFF)	Upper Survival 2		56.3	62.6	23295	87	06/01/2006	06/01/06	1	400	0.278	0.020		72	12	
	Total		05/10/2006			93483		05/31/2006	06/01/06	4	800	0.278		0.020			
06-47-06	Hatfield State Park (MRFF)	Lower Survival 2		52	52	24700	87	05/29/2006	05/29/06	1	400	0.278	0.019		108	12	
06-47-07	Hatfield State Park (MRFF)	Lower Survival 2		52.7	57.2	24232	88	05/29/2006	06/01/06	2	1600	0.278	0.039		156	0	
06-47-08	Hatfield State Park (MRFF)	Lower Survival 2		52.7	57.2	24181	88	--	--	--	--	--	--		108	6	
	Total		05/15/2006			73113		05/06/2006	06/01/06	3	10802	0.278		0.019			
06-23-04	West Sacramento (FRH)			56.8	62.6	52870	71.7	05/17/2006	05/30/06	51	5602	0.278	0.451		0	0	
06-23-05	West Sacramento (FRH)			56.8	62.6	50156	71.7	05/19/2006	06/07/06	38	7988	0.277	0.355		0	0	
	Total		05/17/2006			103026		05/17/2006	06/07/06	89	8788	0.277		0.405			
06-47-21	Mossdale (MRFF)	VAMP		55.4	67.1	25105	89	05/20/2006	05/20/06	2	400	0.278	0.037		12	0	
06-47-22	Mossdale (MRFF)	VAMP		55.4	67.1	24008	88	--	--	--	--	--	--		12	0	
06-47-23	Mossdale (MRFF)	VAMP		55.4	67.1	25148	89	05/23/2006	05/29/06	6	2800	0.278	0.112		24	0	
	Total		05/19/2006			74261		05/20/2006	05/29/06	8	4002	0.278		0.050			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-47-24	Jersey Point (MRFF)	VAMP	05/22/2006	54.5	67.1	24905	87	05/23/2006	05/28/06	44	2400	0.278	0.827		0	0	
06-23-12**	Port Chicago (FRH)			53.6	69.8	13199	69.3	05/28/2006	06/01/06	3	--	--	**		0	0	
06-23-13**	Port Chicago (FRH)			53.6	69.8	14478	69.3	05/28/2006	05/28/06	3	--	--	**		0	0	
	Total		05/24/2006			27677		05/28/2006	06/01/06	6							

** Releases downstream of Chipps Island not included in survival calculations

2005

2005 (sampling period: 08/02/04 - 07/30/05)

Late-fall run releases

Upper Sacramento River and Tributaries

05-22-75	Battle Creek (CNFH)		11/05/2004	n/p	n/p	87000	121	12/15/2004	12/18/04	3	800	0.139	0.032		0	0	15
05-22-76	Battle Creek CNFH)		11/29/2004	n/p	n/p	69993	117	12/14/2004	01/31/05	24	7430	0.105	0.423		0	0	7
05-01-02-12-03	Battle Creek (CNFH)			n/p	n/p	15329	141	01/12/2005	03/04/05	10	5182	0.069	1.226		0	0	42
05-22-73	Battle Creek (CNFH)			n/p	n/p	76098	140	01/12/2005	03/02/05	38	4982	0.069	0.938		0	0	231
05-22-74	Battle Creek (CNFH)			n/p	n/p	86526	134	01/12/2005	02/23/05	58	4382	0.071	1.231		0	0	146
05-22-77	Battle Creek (CNFH)			n/p	n/p	63723	132	01/12/2005	03/02/05	28	4982	0.069	0.826		0	0	78
05-22-79	Battle Creek (CNFH)			n/p	n/p	68811	132	01/12/2005	02/02/05	52	2582	0.082	1.205		0	0	43
05-22-86	Battle Creek (CNFH)			n/p	n/p	42011	132	01/12/2005	01/19/05	17	1382	0.120	0.439		0	0	43
05-22-87	Battle Creek (CNFH)			n/p	n/p	43690	131	01/12/2005	01/21/05	20	1582	0.110	0.542		0	0	57
05-22-94	Battle Creek (CNFH)			n/p	n/p	32348	134	01/11/2005	01/24/05	18	1982	0.098	0.736		0	0	11
	Total		01/04/2005			428536		01/11/2005	03/04/05	241	5382	0.071	1.037	1.037			
05-22-78	Battle Creek (CNFH)		01/13/2005	n/p	n/p	69795	134	01/28/2005	02/07/05	5	1000	0.063	0.148		0	0	68
05-01-02-12-04	Battle Creek (CNFH)		07/06/2005			42322		--	--	--	--		--		0	0	

Sacramento-San Joaquin Estuary

05-22-84	West Sacramento (CNFH)			50	48.2	25279	126	12/10/2004	02/22/05	12	10021	0.093	0.665		0	0	18
05-22-85	West Sacramento (CNFH)			50	47.3	25482	125	12/14/2004	01/19/05	9	6430	0.121	0.380		0	0	10
	Total		12/06/2004			50761		12/10/2004	02/22/05	21	10021	0.093	0.580	0.580			
05-22-90	Vorden Road (CNFH)			53.4	49	34007	130	12/12/2004	12/29/04	21	3244	0.125	0.641		0	0	14
05-22-91	Vorden Road (CNFH)			53.4	49	34413	117	12/12/2004	12/29/04	16	3244	0.125	0.483		0	0	11
	Total		12/07/2004			68420		12/12/2004	12/29/04	37	3244	0.125	0.562	0.562			
05-22-92	Georgiana Slough (CNFH)			54.5	48.2	36009	121	12/21/2004	01/09/05	4	3248	0.113	0.128		0	0	8
05-22-93	Georgiana Slough (CNFH)			54.5	48.2	36073	116	12/17/2004	02/09/05	6	7630	0.096	0.224		0	0	3
	Total		12/08/2004			72082		12/17/2004	02/09/05	10	7630	0.096	0.187	0.187			
05-22-80	Ryde (CNFH)			57.2	51.8	25202	134	12/16/2004	12/23/04	11	1600	0.139	0.409		0	0	15
05-22-81	Ryde (CNFH)			60.8	51.8	25195	128	12/12/2004	01/05/05	17	4439	0.123	0.711		0	0	6
	Total		12/09/2004			50397		12/12/2004	01/05/05	28	4439	0.123	0.586	0.586			
05-22-82**	Port Chicago (CNFH)		12/10/2004	55	54	25132	117	--	--	0	--	--	**		0	0	7

** Releases downstream of Chipps Island not included in survival calculations

05-22-83	Sherman Island (CNFH)		12/10/2004	57	51.8	25558	116	12/11/2004	12/27/04	15	3044	0.124	0.614		0	0	10

** Survival not calculated for releases downstream of Chipps Island

Winter run releases

Upper Sacramento River and Tributaries

05-16-81	Caldwell Park (LSNFH)			n/p	n/p	9544	90	02/28/2005	03/07/05	2	800	0.069	0.392		0	0	
05-16-83	Caldwell Park (LSNFH)			n/p	n/p	8670	90	--	--	--	--	--	--		0	0	
05-16-84	Caldwell Park (LSNFH)			n/p	n/p	8711	86	02/28/2005	02/28/05	2	200	0.139	0.215		0	0	
05-16-85	Caldwell Park (LSNFH)			n/p	n/p	8835	84	03/02/2005	03/02/05	1	200	0.139	0.106		0	0	

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-16-86	Caldwell Park (LSNFH)			n/p	n/p	8767	82	03/04/2005	03/04/05	1	200	0.139	0.107		0	0	
05-16-87	Caldwell Park (LSNFH)			n/p	n/p	10008	90	03/02/2005	03/02/05	1	200	0.139	0.094		0	0	5
05-16-88	Caldwell Park (LSNFH)			n/p	n/p	9069	85	02/28/2005	02/28/05	1	200	0.139	0.103		0	0	
05-16-89	Caldwell Park (LSNFH)			n/p	n/p	9533	85	--	--	--	--	--	--		0	0	
05-16-90	Caldwell Park (LSNFH)			n/p	n/p	8584	87	02/22/2005	03/02/05	3	1000	0.077	0.589		0	0	3
05-16-91	Caldwell Park (LSNFH)			n/p	n/p	9035	86	02/28/2005	02/28/05	1	200	0.139	0.104		0	0	4
05-16-92	Caldwell Park (LSNFH)			n/p	n/p	8993	80	--	--	--	--	--	--		0	0	4
05-16-93	Caldwell Park (LSNFH)			n/p	n/p	8764	81	02/28/2005	03/31/05	2	2597	0.056	0.526		0	0	
05-16-94	Caldwell Park (LSNFH)			n/p	n/p	9597	80	03/02/2005	03/02/05	1	200	0.139	0.098		0	0	
05-16-95	Caldwell Park (LSNFH)			n/p	n/p	9253	79	03/28/2005	03/28/05	1	200	0.139	0.101		0	0	
05-16-96	Caldwell Park (LSNFH)			n/p	n/p	8403	82	--	--	--	--	--	--		0	0	
05-24-76	Caldwell Park (LSNFH)			n/p	n/p	13619	78	02/22/2005	03/04/05	2	1200	0.076	0.252		0	0	
05-24-77	Caldwell Park (LSNFH)			n/p	n/p	19876	71	03/09/2005	03/28/05	3	1597	0.055	0.354		0	0	
	Total		02/03/2005			169261		02/22/2005	03/28/05	21	2997	0.059	0.271	0.271			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-00-05-05	Butte Creek Wild)			n/p	n/p	5876	36	--	--	--	--	--	--		0	0	
06-01-00-06-02	Butte Creek Wild)			n/p	n/p	5530	36	--	--	--	--	--	--		0	0	
	Total		01/07/2005					--	--	--	--	--	--				
06-01-00-06-03	Butte Creek (Wild)			n/p	n/p	6798	36	--	--	--	--	--	--		0	0	
06-01-00-07-00	Butte Creek (Wild)			n/p	n/p	5869	36	04/01/2005	04/01/05	1	200	0.139	0.159		0	0	8
06-01-00-07-03	Butte Creek (Wild)			n/p	n/p	6153	36	04/22/2005	04/22/05	1	200	0.139	0.152		0	0	
	Total		01/10/2005			18820		04/01/2005	04/22/05	2	2797	0.088	0.156	0.156			
06-01-00-07-01	Butte Creek (Wild)		01/11/2005	n/p	n/p	6042	35	--	--	--	--	--	--		0	0	
06-01-00-07-02	Butte Creek (Wild)			n/p	n/p	6616	36	--	--	--	--	--	--		0	0	
06-01-00-07-04	Butte Creek (Wild)			n/p	n/p	6005	36	--	--	--	--	--	--		0	0	
	Total		01/12/2005					--	--	--	--	--	--				
06-01-00-08-04	Butte Creek (Wild)			n/p	n/p	10791	36	--	--	--	--	--	--		0	0	3
06-01-00-08-06	Butte Creek (Wild)			n/p	n/p	11540	36	--	--	--	--	--	--		0	0	6
	Total		01/13/2005					--	--	--	--	--	--				
06-01-00-08-05	Butte Creek (Wild)			n/p	n/p	11364	36	--	--	--	--	--	--		0	0	3
06-01-00-08-07	Butte Creek (Wild)			n/p	n/p	10701	36	--	--	--	--	--	--		0	0	
06-01-00-08-08	Butte Creek (Wild)			n/p	n/p	10568	36	--	--	--	--	--	--		0	0	
	Total		01/15/2005					--	--	--	--	--	--				
06-01-00-08-09	Butte Creek (Wild)		01/16/2005	n/p	n/p	11408	36	--	--	--	--	--	--		0	0	
06-01-00-09-00	Butte Creek (Wild)			n/p	n/p	10372	35	--	--	--	--	--	--		0	0	4
06-01-00-09-01	Butte Creek (Wild)			n/p	n/p	9932	35	--	--	--	--	--	--		0	0	4
	Total		01/17/2005					--	--	--	--	--	--				
06-01-00-09-02	Butte Creek (Wild)			n/p	n/p	11091	35	--	--	--	--	--	--		0	0	
06-01-00-09-03	Butte Creek (Wild)			n/p	n/p	10881	35	--	--	--	--	--	--		0	0	
	Total		01/18/2005					--	--	--	--	--	--		0	0	
06-01-00-09-04	Butte Creek (Wild)		01/20/2005	n/p	n/p	10838	35	--	--	--	--	--	--		0	0	
06-01-00-09-05	Butte Creek (Wild)		01/21/2005	n/p	n/p	10221	35	--	--	--	--	--	--		0	0	
06-01-00-09-06	Butte Creek (Wild)			n/p	n/p	10610	35	--	--	--	--	--	--		0	0	
06-01-00-09-07	Butte Creek (Wild)			n/p	n/p	11023	35	--	--	--	--	--	--		0	0	
	Total		01/22/2005					--	--	--	--	--	--		0	0	
06-01-00-09-08	Butte Creek (Wild)		01/23/2005	n/p	n/p	10411	36	--	--	--	--	--	--		0	0	
06-01-00-09-09	Butte Creek (Wild)			n/p	n/p	10554	36	--	--	--	--	--	--		0	0	3

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-02-01-00-00	Butte Creek (Wild)			n/p	n/p	10449	36	--	--	--	--	--	--		0	0	6
	Total		01/25/2005					--	--	--	--	--	--				
06-02-01-00-01	Butte Creek (Wild)			n/p	n/p	10732	36	--	--	--	--	--	--		0	0	
06-02-01-00-02	Butte Creek (Wild)			n/p	n/p	10289	35	04/11/2005	04/11/05	1	200	0.139	0.091		0	0	13
	Total		01/26/2005			21021		04/11/2005	04/11/05	1	200	0.139	0.045	0.045	0	0	
06-02-01-00-03	Butte Creek (Wild)		01/27/2005	n/p	n/p	10652	35	--	--	--	--	--	--		0	0	3
06-02-01-00-04	Butte Creek (Wild)			n/p	n/p	10707	35	--	--	--	--	--	--		0	0	
06-02-01-00-05	Butte Creek (Wild)			n/p	n/p	11006	35	--	--	--	--	--	--		0	0	
	Total		01/28/2005														
06-02-01-00-06	Butte Creek (Wild)		01/29/2005	n/p	n/p	10732	35	--	--	--	--	--	--		0	0	
06-02-01-00-07	Butte Creek (Wild)			n/p	n/p	9520	35	--	--	--	--	--	--		0	0	
06-02-01-00-08	Butte Creek (Wild)			n/p	n/p	10008	35	--	--	--	--	--	--		0	0	
06-02-01-00-09	Butte Creek (Wild)			n/p	n/p	7624	35	--	--	--	--	--	--		0	0	
	Total		01/30/2005					--	--	--	--	--	--				
06-02-01-01-00	Butte Creek (Wild)		01/31/2005	n/p	n/p	11052	35	--	--	--	--	--	--		0	0	
06-02-01-01-01	Butte Creek (Wild)			n/p	n/p	9416	35	--	--	--	--	--	--		0	0	
06-02-01-01-02	Butte Creek (Wild)			n/p	n/p	10366	36	--	--	--	--	--	--		0	0	
06-02-01-01-03	Butte Creek (Wild)			n/p	n/p	10590	36	--	--	--	--	--	--		0	0	
	Total		02/01/2005					--	--	--	--	--	--				
06-02-01-01-04	Butte Creek (Wild)		02/02/2005	n/p	n/p	10109	36	--	--	--	--	--	--		0	0	
06-02-01-01-05	Butte Creek (Wild)		02/03/2005	n/p	n/p	9600	36	--	--	--	--	--	--		0	0	
06-02-01-01-06	Butte Creek (Wild)			n/p	n/p	6302	36	--	--	--	--	--	--		0	0	
06-02-01-01-07	Butte Creek (Wild)			n/p	n/p	5746	36	--	--	--	--	--	--		0	0	
	Total		02/04/2005					--	--	--	--	--	--				
06-02-01-01-08	Butte Creek (Wild)		02/07/2005	n/p	n/p	4289	36	04/23/2005	04/23/05	1	200	0.139	0.218		0	0	
06-24-26	Live Oak (Wild)			n/p	n/p	58700	55	04/01/2005	05/12/05	6	8565	0.142	0.094		0	0	20
06-24-27	Live Oak (Wild)			n/p	n/p	58342	55	03/28/2005	05/11/05	3	8605	0.133	0.050		0	0	9
	Total		02/18/2005			117042		03/28/2005	05/12/05	9	8965	0.135	0.074	0.074			
06-24-37	Live Oak (Wild)			n/p	n/p	60463	91	05/11/2005	06/05/05	32	10227	0.273	0.252		0	0	114
06-24-38	Live Oak (Wild)			n/p	n/p	58657	91	05/11/2005	06/03/05	32	9427	0.273	0.260		0	0	48
06-24-39	Live Oak (Wild)			n/p	n/p	55960	91	05/09/2005	06/01/05	41	9340	0.270	0.352		0	0	36
06-24-40	Live Oak (Wild)			n/p	n/p	57434	91	05/11/2005	06/11/05	54	12584	0.273	0.448		0	0	82
06-24-41	Live Oak (Wild)			n/p	n/p	57499	91	05/10/2005	06/01/05	31	9132	0.276	0.254		0	0	44
06-24-42	Live Oak (Wild)			n/p	n/p	57984	91	05/10/2005	05/31/05	34	8732	0.276	0.277		0	0	44
06-24-21	Live Oak (Wild)			n/p	n/p	120873	116	05/10/2005	06/03/05	75	9827	0.273	0.296		0	0	143
06-24-22	Live Oak (Wild)			n/p	n/p	115165	116	05/11/2005	06/15/05	86	13384	0.258	0.376		0	0	191
06-24-23	Live Oak (Wild)			n/p	n/p	54551	116	05/12/2005	06/07/05	41	10627	0.273	0.357		0	0	79
	Total		05/02/2005			638586		05/09/2005	06/15/05	426	13992	0.256	0.339	0.339			
Sacramento-San Joaquin Estuary																	
06-24-18	Verona (FRH)			n/p	n/p	114136	55	04/01/2005	05/08/05	8	7197	0.132	0.069		0	0	3
06-24-24	Verona (FRH)			n/p	n/p	59053	55	04/22/2005	04/30/05	4	1800	0.139	0.063		0	0	8
06-24-25	Verona (FRH)			n/p	n/p	60446	55	04/01/2005	04/23/05	3	2997	0.090	0.071		0	0	11
	Total		02/18/2005			233635		04/01/2005	05/08/05	15	7197	0.132	0.063	0.063			
06-24-10	Shore Terminal (FRH)			n/p	n/p	120390	91	--	--	--	--	--	--		0	0	180
06-24-11	Shore Terminal (FRH)			n/p	n/p	118950	91	05/29/2005	05/29/05	1	400	0.278	0.004		0	0	156
06-24-20	Shore Terminal (FRH)			n/p	n/p	119790	91	05/26/2005	05/26/05	1	400	0.278	0.004		0	0	188
06-24-43	Shore Terminal (FRH)			n/p	n/p	58513	91	05/30/2005	05/30/05	1	400	0.278	0.008		0	0	102

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-24-44	Shore Terminal (FRH)			n/p	n/p	57282	91	--	--	--	--	--	--		0	0	92
06-24-45	Shore Terminal (FRH)			n/p	n/p	58297	91	--	--	--	--	--	--		0	0	76
06-24-46	Shore Terminal (FRH)			n/p	n/p	57815	91	--	--	--	--	--	--		0	0	73
06-24-47	Shore Terminal (FRH)			n/p	n/p	57959	91	05/22/2005	05/22/05	1	400	0.278	0.008		0	0	85
06-27-99	Shore Terminal (FRH)			n/p	n/p	56157	91	--	--	--	--	--	--		0	0	81
	Total		05/02/2005			705153		05/22/2005	05/30/05	34	3600	0.278	0.023	0.023			
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-01-03-05-03	Yuba River (Wild)		12/28/2004	n/p	n/p	16874	37	04/23/2005	04/23/05	1	200	0.139	0.055		0	0	3
06-01-01-02-02	Live Oak (Wild)		01/04/2005	n/p	n/p	12062	35	04/22/2005	04/22/05	1	200	0.139	0.078		0	0	
06-01-01-02-00	Live Oak (Wild)			n/p	n/p	11926	35	--	--	--	--	--	--		0	0	
06-01-01-02-01	Live Oak (Wild)			n/p	n/p	12046	35	--	--	--	--	--	--		0	0	
	Total		01/05/2005					--	--	--	--	--	--				
06-01-01-02-04	Live Oak (Wild)		01/18/2005	n/p	n/p	11740	35	--	--	--	--	--	--		0	0	
06-01-03-05-00	Yuba River (Wild)		01/21/2005	n/p	n/p	15626	37	04/08/2005	04/08/05	1	200	0.139	0.060		0	0	
06-01-01-02-03	Live Oak (Wild)		01/24/2005	n/p	n/p	12216	35	--	--	--	--	--	--		0	0	
06-01-01-02-06	Live Oak (Wild)			n/p	n/p	12402	35	--	--	--	--	--	--		0	0	3
06-01-01-02-07	Live Oak (Wild)			n/p	n/p	12369	35	--	--	--	--	--	--		0	0	
	Total		02/03/2005					--	--	--	--	--	--				
06-01-01-02-05	Live Oak (Wild)			n/p	n/p	12768	35	--	--	--	--	--	--		0	0	3
06-01-01-02-08	Live Oak (Wild)			n/p	n/p	12381	35	--	--	--	--	--	--				
	Total		02/04/2005					--	--	--	--	--	--		0	0	
06-01-03-04-09	Yuba River (Wild)		02/08/2005	n/p	n/p	16968	37	--	--	--	--	--	--		0	0	
06-01-01-02-09	Live Oak (Wild)		02/09/2005	n/p	n/p	11776	35	05/10/2005	05/10/05	1	400	0.278	0.040		0	0	
06-01-03-05-05	Yuba River (Wild)		02/12/2005	n/p	n/p	17099	37	--	--	--	--	--	--		0	0	
06-01-01-03-01	Live Oak (Wild)		02/15/2005	n/p	n/p	12426	35	--	--	--	--	--	--		0	0	
06-01-01-03-00	Live Oak (Wild)		02/16/2005	n/p	n/p	12868	35	--	--	--	--	--	--		0	0	
06-01-03-05-04	Yuba River (Wild)		02/16/2005	n/p	n/p	17270	37	05/11/2005	05/23/05	2	5132	0.274	0.055		0	0	
06-24-19	Live Oak (Wild)		02/18/2005	n/p	n/p	119388	55	04/11/2005	05/22/05	9	11737	0.194	0.051		0	0	18
05-01-02-01-08	RBDD (CNFH)		02/18/2005	54	57.2	50094	49	03/28/2005	04/19/05	6	2597	0.078	0.199		0	0	24
06-01-01-03-02	Live Oak (Wild)		02/20/2005	n/p	n/p	12241	35	--	--	--	--	--	--		0	0	
06-01-03-04-05	Yuba River (Wild)		02/23/2005	n/p	n/p	11037	37	05/12/2005	05/12/05	1	360	0.250	0.047		0	0	7
06-01-03-04-07	Yuba River (Wild)		02/28/2005	n/p	n/p	10913	37	--	--	--	--	--	--		0	0	
06-01-01-03-03	Live Oak (Wild)		03/02/2005	n/p	n/p	12155	35	--	--	--	--	--	--		0	0	
06-01-03-03-05	Yuba River (Wild)		03/03/2005	n/p	n/p	2652	37	05/22/2005	05/22/05	1	400	0.278	0.176		0	0	7
06-01-01-03-04	Live Oak (Wild)		03/04/2005	n/p	n/p	12199	35	--	--	--	--	--	--		0	0	4
05-01-02-01-09	RBDD (CNFH)			n/p	n/p	25598	53	04/04/2005	04/27/05	3	3597	0.104	0.146		0	0	5
05-01-02-01-10	RBDD (CNFH)			n/p	n/p	21678	52	04/27/2005	05/08/05	2	3600	0.208	0.058		0	0	4
	Total		03/07/2005			47276		04/04/2005	05/08/05	5	6997	0.139	0.099	0.099			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-03-07-00	Yuba River (Wild)		05/04/2005	n/p	n/p	2607	62	05/22/2005	05/28/05	2	2800	0.278	0.359		0	0	
Sacramento-San Joaquin Estuary																	
06-01-01-03-05	Yolo Bypass (FRH)		02/04/2005	n/p	n/p	55735	56	03/18/2005	04/25/05	4	4597	0.082	0.114		0	0	61
06-01-01-03-06	Elkhorn Park (FRH)		02/04/2005	n/p	n/p	53260	56	03/31/2005	04/23/05	3	3197	0.093	0.079		0	0	23
06-01-01-04-03	Isleton (FRH)			48.2	55.4	26028	55	03/11/2005	04/01/05	2	1800	0.057	0.176		0	0	
06-01-01-04-04	Isleton (FRH)			48.2	55.4	25964	55	03/28/2005	03/28/05	1	200	0.139	0.036		0	0	8
	Total		02/16/2005			51992		03/11/2005	04/01/05	3	1800	0.057	0.132	0.132			
06-01-01-04-01	Lighthouse Marina (FRH)			48.2	54.5	26147	55	--	--	--	--	--	--		0	0	
06-01-01-04-02	Lighthouse Marina (FRH)			48.2	54.5	25981	55	--	--	--	--	--	--		0	0	5
	Total		02/16/2005					--	--	--	--	--	--				
06-01-01-03-07	Elkhorn Park (FRH)		02/17/2005	n/p	n/p	55550	55	04/01/2005	04/29/05	9	4197	0.101	0.210		0	0	13
06-01-01-03-08	Yolo ByPass (FRH)		02/17/2005	n/p	n/p	52960	55	03/28/2005	03/28/05	2	200	0.139	0.035		0	0	11
05-01-02-01-07	Clarksburg (CNFH)		02/18/2005	54	57.2	49897	48	03/31/2005	04/06/05	2	800	0.079	0.066		0	0	12
06-01-01-03-09	Lighthouse Marina (FRH)			51.8	55.4	25763	57	--	--	--	--	--	--		0	0	
06-01-01-04-00	Lighthouse Marina (FRH)			51.8	55.4	26124	58	04/11/2005	04/11/05	1	200	0.139	0.036		0	0	5
	Total		02/25/2005			51887		04/11/2005	04/11/05	1	200	0.139	0.018	0.018			
06-01-01-04-05	Isleton (FRH)			51.8	55.4	25900	57	03/11/2005	04/11/05	2	2600	0.056	0.178		0	0	3
06-01-01-04-06	Isleton (FRH)			51.8	55.4	27277	57	03/28/2005	05/24/05	5	13737	0.164	0.145		0	0	5
	Total		02/26/2005			53177		03/11/2005	05/24/05	7	14937	0.138	0.124	0.124			
06-24-30	West Sacramento (FRH)			50	59	25556	91	04/21/2005	05/15/05	12	7368	0.205	0.298		0	0	12
06-24-31	West Sacramento (FRH)			50	59	25701	91	04/23/2005	05/11/05	17	5408	0.198	0.435		0	0	3
	Total		04/15/2005			51257		04/21/2005	05/15/05	29	7368	0.205	0.359	0.359			
06-46-76	Merced River FF (MRFF)			n/p	n/p	26000	82	04/26/2005	05/28/05	2	11540	0.243	0.041		132	27	
06-46-77	Merced River FF (MRFF)			n/p	n/p	26078	82	05/10/2005	05/10/05	1	400	0.278	0.018		228	24	
06-46-78	Merced River FF (MRFF)			n/p	n/p	25293	82	--	--	--	--	--	--		144	24	
06-46-79	Merced River FF (MRFF)			n/p	n/p	25897	82	04/29/2005	04/30/05	3	400	0.139	0.108		108	27	
	Total		04/17/2005			103268		04/26/2005	05/28/05	6	11540	0.243	0.031	0.031			
05-51-36	La Grange (MRFF)		04/18/2005			78949	77	04/27/2005	05/26/05	7	10540	0.244	0.047		349	210	21
06-46-80	Hatfield State Park (MRFF)					25735	84	04/30/2005	05/05/05	3	1800	0.208	0.073		228	42	
06-46-81	Hatfield State Park (MRFF)					25067	84	04/26/2005	05/05/05	2	2600	0.181	0.057		108	21	
06-46-82	Hatfield State Park (MRFF)					25160	84	05/06/2005	05/06/05	1	400	0.278	0.019		132	27	
	Total		04/19/2005			75962		04/26/2005	05/06/05	6	3000	0.189	0.054	0.054			
05-11-69	Old Fisherman's Cl (MRFF)		04/20/2005			51429	53	05/03/2005	05/17/05	4	5740	0.266	0.038		444	141	3
06-24-32	Sherman Island (FRH)			50	64.4	26187	94	04/23/2005	05/11/05	33	5408	0.198	0.829		0	0	
06-24-33	Sherman Island (FRH)			50	64.4	26296	94	04/23/2005	05/17/05	35	7740	0.215	0.805		0	0	
	Total		04/22/2005			52483		04/23/2005	05/17/05	68	7740	0.215	0.783	0.783			
06-46-83	Merced River FF (MRFF)					25824	85	--	--	--	--	--	--		60	3	
06-46-84	Merced River FF (MRFF)					25694	85	05/03/2005	05/23/05	2	8140	0.269	0.038		60	36	4
06-46-85	Merced River FF (MRFF)					25774	85	05/06/2005	05/25/05	3	7740	0.269	0.056		12	24	
06-46-86	Merced River FF (MRFF)					25204	85	--	--	--	--	--	--		48	36	
	Total		04/26/2005			102496		05/03/2005	05/25/05	5	8940	0.270	0.023	0.023			
06-46-87	Hatfield State Park (MRFF)					25405	86	05/07/2005	05/07/05	1	400	0.278	0.018		108	6	
06-46-88	Hatfield State Park (MRFF)					26460	86	05/02/2005	05/26/05	4	9540	0.265	0.074		132	0	
06-46-89	Hatfield State Park (MRFF)					25400	86	05/03/2005	05/16/05	3	5368	0.266	0.058		108	6	

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		04/28/2005			77265		05/02/2005	05/26/05	8	9540	0.265	0.051	0.051			
06-24-28	West Sacramento (FRH)			51.7	64.4	25408	115	05/04/2005	05/11/05	4	3008	0.261	0.078		0	0	11
06-24-29	West Sacramento (FRH)			51.7	64.4	26054	115	05/03/2005	05/20/05	17	6940	0.268	0.317		0	0	
	Total		04/29/2005			51462		05/03/2005	05/20/05	21	6940	0.268	0.198	0.198			
06-46-72	Durham Ferry (MRFF)			55.4	60.8	23414	85.6	05/05/2005	05/11/05	5	2608	0.259	0.107		456	27	5
06-46-73	Durham Ferry (MRFF)			55.4	60.8	23193	85.6	05/10/2005	05/12/05	2	1160	0.269	0.042		300	9	3
06-46-74	Durham Ferry (MRFF)			55.4	60.8	23660	85.6	05/09/2005	05/19/05	4	4140	0.261	0.084		444	39	3
06-46-75	Durham Ferry (MRFF)			55.4	60.8	23567	85.6	05/07/2005	05/07/05	1	400	0.278	0.020		228	24	
	Total		05/02/2005			93834		05/05/2005	05/19/05	12	5740	0.266	0.063	0.063			
06-45-91	Dos Reis (MRFF)			55.4	62.6	22675	86.9	05/11/2005	05/11/05	1	400	0.278	0.021		0	0	
06-46-97	Dos Reis (MRFF)			55.4	62.6	22302	87.5	05/11/2005	05/11/05	1	400	0.278	0.021		1	6	
06-46-98	Dos Reis (MRFF)			55.4	62.6	24149	86.5	05/12/2005	05/12/05	1	360	0.250	0.022		0	0	
	Total		05/03/2005			69126		05/11/2005	05/12/05	3	760	0.264	0.021	0.021			
06-03-26	Mokelumne River FH (MOK)					25998	90	05/11/2005	06/01/05	6	8732	0.276	0.109		0	0	
06-03-27	Mokelumne River FH (MOK)					25746	90	05/16/2005	05/27/05	3	4772	0.276	0.055		0	0	4
06-03-28	Mokelumne River FH (MOK)					25497	90	05/15/2005	05/31/05	6	6772	0.277	0.111		0	0	3
06-03-29	Mokelumne River FH (MOK)					25722	90	05/16/2005	06/02/05	8	7072	0.273	0.148		0	0	3
	Total		05/05/2005			102963		05/11/2005	06/02/05	23	9032	0.273	0.106	0.106			
06-45-88	Jersey Point (MRFF)		05/06/2005	51.8	64.4	22767	86.1	05/08/2005	05/15/05	32	2968	0.258	0.709		0	0	30
06-46-92	Merced River FF (MRFF)					25580	73	06/07/2005	06/07/05	1	400	0.278	0.018		24	63	
06-46-93	Merced River FF (MRFF)					25559	73	06/05/2005	06/05/05	1	400	0.278	0.018		60	48	
06-46-96	Merced River FF (MRFF)					25870	73	--	--	--	--	--	--		12	90	
	Total		05/08/2005			77009		06/05/2005	06/07/05	2	1200	0.278	0.012	0.012			
06-45-84	Durham Ferry (MRFF)			51.8	58.9	22777	87.6	05/15/2005	05/26/05	2	4772	0.276	0.041		192	102	5
06-45-85	Durham Ferry (MRFF)			51.8	58.9	22968	87.6	05/12/2005	05/12/05	1	360	0.250	0.023		73	84	
06-45-86	Durham Ferry (MRFF)			51.8	58.9	23012	87.6	05/15/2005	05/27/05	3	5172	0.276	0.061		169	93	2
06-45-87	Durham Ferry (MRFF)			51.8	58.9	22806	87.6	--	--	--	--	--	--		84	48	
	Total		05/09/2005			91563		05/12/2005	05/27/05	6	6332	0.275	0.031	0.031			
06-24-14	Shore Terminal (FRH)					117824	95	05/17/2005	05/17/05	1	372	0.258	0.004		0	0	40
06-24-15	Shore Terminal (FRH)					119712	95	05/19/2005	05/19/05	1	400	0.278	0.004		0	0	48
	Total		05/09/2005			237536		05/17/2005	05/19/05	2	1172	0.271	0.004	0.004			
06-45-89	Dos Reis (MRFF)			51.8	59	21443	87.3	05/14/2005	05/16/05	3	1200	0.278	0.065		0	6	4
06-45-90	Dos Reis (MRFF)			51.8	59	23755	86.4	05/17/2005	05/18/05	2	772	0.268	0.041		0	0	
06-46-99	Dos Reis (MRFF)			51.8	59	23448	87.8	05/17/2005	05/17/05	1	372	0.258	0.021		0	0	
	Total		05/10/2005			68646		05/14/2005	05/18/05	6	1972	0.274	0.041	0.041			
06-46-90	Hatfield State Park (MRFF)					25626	80	05/24/2005	05/24/05	1	400	0.278	0.018		86	48	
06-46-91	Hatfield State Park (MRFF)					25484	80	--	--	--	--	--	--		61	33	3
	Total		05/11/2005			51110		05/24/2005	05/24/05	1	400	0.278	0.009	0.009			
06-03-30	Mokelumne River FH (MOK)					25853	90	05/15/2005	05/23/05	8	3572	0.276	0.146		0	0	9
06-03-31	Mokelumne River FH (MOK)					25666	90	05/15/2005	05/19/05	8	1972	0.274	0.148		0	0	6
06-03-32	Mokelumne River FH (MOK)					26073	90	05/16/2005	05/20/05	10	1972	0.274	0.182		0	0	6
06-03-33	Mokelumne River FH (MOK)					27223	90	05/15/2005	05/20/05	10	2372	0.275	0.174		0	0	7
	Total		05/12/2005			104815		05/15/2005	05/23/05	36	3572	0.276	0.162	0.162			
06-47-00	Jersey Point (MRFF)		05/13/2005	55.4	66.2	23231	87.5	05/14/2005	05/20/05	38	2772	0.275	0.773		0	0	38
06-24-34	West Sacramento (FRH)			57	64.4	26109	97	05/17/2005	05/28/05	49	4772	0.276	0.884		0	0	
06-24-35	West Sacramento (FRH)			57	64.4	27346	97	05/19/2005	05/26/05	45	3200	0.278	0.770		0	0	
	Total		05/16/2005			53455		05/17/2005	05/28/05	94	4772	0.276	0.828	0.828			
06-24-12	Shore Terminal (FRH)					119377	95	--	--	--	--	--	--		0	0	12

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-24-13	Shore Terminal (FRH)					120307	95	--	--	--	--	--	--		0	0	10
	Total		05/17/2005					--	--	--	--	--	--				
06-24-36**	Port Chicago (FRH)		05/19/2005	59	68	26362	95	05/24/2005	05/27/05	3	--	--	**		0	0	
** Survival not calculated for releases downstream of Chipps Island																	
06-24-16	Shore Terminal (FRH)					117398	93	--	--	--	--	--	--		0	0	10
06-27-97	Shore Terminal (FRH)					60571	93	--	--	--	--	--	--		0	0	30
06-27-98	Shore Terminal (FRH)					57815	93	--	--	--	--	--	--		0	0	8
	Total		06/01/2005					--	--	--	--	--	--				
06-24-17	Shore Terminal (FRH)					117893	106	--	--	--	--	--	--		0	0	6
06-27-95	Shore Terminal (FRH)					59463	95	--	--	--	--	--	--		0	0	8
06-27-96	Shore Terminal (FRH)					56175	95	--	--	--	--	--	--		0	0	
	Total		06/22/2005					--	--	--	--	--	--				
2004																	
2004 (sampling period: 8/1/03 - 7/30/04)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-17-67	Battle Creek (CNFH)			N/P	N/P	65339	126	12/11/2003	01/13/04	17	7004	0.143	0.236		60	81	159
05-17-69	Battle Creek (CNFH)			N/P	N/P	71183	114	12/11/2003	01/04/04	20	5404	0.150	0.243		24	36	149
	Total		11/28/2003			136522		12/11/2003	01/13/04	37	7004	0.143		0.246			
05-16-99	Battle Creek (CNFH)			N/P	N/P	69692	138	01/09/2004	02/23/04	42	5482	0.083	0.947		240	631	636
05-17-64	Battle Creek (CNFH)			N/P	N/P	66810	134	01/09/2004	01/24/04	25	2700	0.117	0.415		180	453	438
05-17-65	Battle Creek (CNFH)			N/P	N/P	68879	129	01/09/2004	03/17/04	34	7282	0.073	0.876		168	312	433
05-17-68	Battle Creek (CNFH)			N/P	N/P	72716	130	01/08/2004	03/26/04	35	8142	0.072	0.874		252	438	447
05-17-75	Battle Creek (CNFH)			N/P	N/P	67756	125	01/08/2004	01/24/04	31	2900	0.118	0.502		108	285	297
	Total		12/31/2003			345853		01/08/2004	03/26/04	167	8142	0.072		0.877			
05-17-70	Battle Creek (CNFH)			N/P	N/P	69247	127	01/08/2004	01/30/04	47	3900	0.118	0.749		408	399	368
05-17-76	Battle Creek (CNFH)			N/P	N/P	63436	128	01/08/2004	03/24/04	49	7942	0.072	1.402		180	498	315
05-17-77	Battle Creek (CNFH)			N/P	N/P	61223	132	01/09/2004	01/24/04	41	2700	0.117	0.743		240	462	228
	Total		01/02/2004			193906		01/08/2004	03/24/04	137	7942	0.072		1.282			
05-17-66	Battle Creek (CNFH)		01/30/2004	N/P	N/P	64983	146	02/11/2004	03/17/04	3	2780	0.054	0.112		72	193	525
05-01-02-12-03*	Sac River RM206 (CNFH)		07/06/2004	N/P	N/P	42322	N/P	01/12/2004	03/04/04	10	5482	0.072	0.428		0	0	42
* Tag code released 7/6/04 - 9/14/04 for GCID study and later on 1/4/05 as a normal release																	
Sacramento-San Joaquin Estuary																	
05-17-73	West Sacramento (CNFH)			55	54	30738	138	12/11/2003	01/08/04	18	6004	0.144	0.530		12	12	109
05-17-74	West Sacramento (CNFH)			55	54	33809	118	12/11/2003	01/18/04	11	7784	0.139	0.305		12	30	87
	Total		12/05/2003			64547		12/11/2003	01/18/04	29	7784	0.139		0.421			
05-17-71	Georgiana Slough (CNFH)			50	54	34972	121	12/27/2003	12/31/03	2	1000	0.139	0.054		96	108	20
05-17-72	Georgiana Slough (CNFH)			50	54	33731	119	12/29/2003	01/21/04	3	3980	0.115	0.100		36	66	31
	Total		12/09/2003			68703		12/27/2003	01/21/04	5	4380	0.117		0.081			
05-17-81	Ryde (CNFH)			54	52	23943	121	12/15/2003	12/26/03	4	2190	0.127	0.171		0	12	61
05-17-82	Ryde (CNFH)			52	52	22038	120	12/15/2003	01/04/04	9	3790	0.125	0.424		0	12	66
	Total		12/10/2003			45981		12/15/2003	01/04/04	13	3790	0.125		0.293			
05-17-80	Benicia (CNFH)		12/11/2003	53	54	24785	127	--	--	0	--	--	**				156
** Survival not calculated for releases downstream of Chipps Island																	
05-17-83	Sherman Island (CNFH)		12/11/2003	54	54	25956	126	12/11/2003	12/31/03	53	4804	0.159	1.671		24	0	109

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-17-78	Vorden Road (CNFH)			54	50	23473	129	12/27/2003	01/02/04	5	1200	0.119	0.233		60	60	83
05-17-79	Vorden Road (CNFH)			52	50	24598	126	12/26/2003	01/29/04	5	5900	0.117	0.226		72	84	85
	Total		12/20/2003			48071		12/26/2003	01/29/04	10	5900	0.117		0.231			
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-16-79	Caldwell Park (LSNFH)			N/P	N/P	5235	79	03/19/2004	03/19/04	1	60	0.042	0.596		0	6	9
05-19-64	Caldwell Park (LSNFH)			N/P	N/P	3574	84	--	--	0	--	--	--		0	0	3
05-19-65	Caldwell Park (LSNFH)			N/P	N/P	3703	95	--	--	0	--	--	--		12	12	3
05-19-66	Caldwell Park (LSNFH)			N/P	N/P	4251	88	--	--	0	--	--	--		0	0	25
05-19-67	Caldwell Park (LSNFH)			N/P	N/P	4394	87	03/22/2004	03/22/04	1	200	0.139	0.213		0	0	16
05-19-68	Caldwell Park (LSNFH)			N/P	N/P	5438	86	--	--	0	--	--	--		0	0	9
05-19-69	Caldwell Park (LSNFH)			N/P	N/P	4360	92	03/17/2004	03/17/04	1	200	0.139	0.215		0	0	
05-19-70	Caldwell Park (LSNFH)			N/P	N/P	5411	84	03/24/2004	03/24/04	1	200	0.139	0.173		0	0	11
05-19-71	Caldwell Park (LSNFH)			N/P	N/P	5105	84	03/19/2004	03/19/04	1	60	0.042	0.611		0	0	12
05-19-72	Caldwell Park (LSNFH)			N/P	N/P	4315	88	--	--	0	--	--	--		0	0	3
05-19-73	Caldwell Park (LSNFH)			N/P	N/P	4658	88	--	--	0	--	--	--		12	0	18
05-19-74	Caldwell Park (LSNFH)			N/P	N/P	4878	86	--	--	0	--	--	--		12	12	22
05-19-75	Caldwell Park (LSNFH)			N/P	N/P	4446	88	03/17/2004	03/17/04	1	200	0.139	0.211		0	12	12
05-19-76	Caldwell Park (LSNFH)			N/P	N/P	4928	87	03/17/2004	03/17/04	1	200	0.139	0.190		0	12	9
05-19-77	Caldwell Park (LSNFH)			N/P	N/P	4393	87	--	--	0	--	--	--		12	6	20
05-19-78	Caldwell Park (LSNFH)			N/P	N/P	4823	86	03/22/2004	03/22/04	1	200	0.139	0.194		12	6	13
05-19-79	Caldwell Park (LSNFH)			N/P	N/P	4410	84	03/26/2004	03/26/04	1	200	0.139	0.212		0	18	19
05-19-80	Caldwell Park (LSNFH)			N/P	N/P	4400	85	--	--	0	--	--	--		0	6	4
05-19-81	Caldwell Park (LSNFH)			N/P	N/P	4930	82	--	--	0	--	--	--		0	0	8
05-19-82	Caldwell Park (LSNFH)			N/P	N/P	4689	84	--	--	0	--	--	-		0	0	14
05-19-83	Caldwell Park (LSNFH)			N/P	N/P	4750	84	--	--	0	--	--	--		0	0	16
05-19-84	Caldwell Park (LSNFH)			N/P	N/P	4889	82	03/22/2004	03/22/04	1	200	0.139	0.191		0	6	11
05-19-85	Caldwell Park (LSNFH)			N/P	N/P	5293	76	--	--	0	--	--	--		0	12	6
05-19-86	Caldwell Park (LSNFH)			N/P	N/P	4797	81	--	--	0	--	--	--		12	0	5
05-19-87	Caldwell Park (LSNFH)			N/P	N/P	5051	90	02/23/2004	03/22/04	2	2260	0.054	0.951		0	0	10
05-19-88	Caldwell Park (LSNFH)			N/P	N/P	5180	85	03/17/2004	03/17/04	1	200	0.139	0.181		0	0	
05-19-89	Caldwell Park (LSNFH)			N/P	N/P	4093	83	03/22/2004	03/22/04	1	200	0.139	0.229		0	0	20
05-19-90	Caldwell Park (LSNFH)			N/P	N/P	4433	80	--	--	0	--	--	--		0	0	13
05-19-91	Caldwell Park (LSNFH)			N/P	N/P	4414	84	--	--	0	--	--	--		0	0	9
05-19-92	Caldwell Park (LSNFH)			N/P	N/P	4367	80	03/26/2004	03/26/04	1	200	0.139	0.214		0	0	3
05-19-93	Caldwell Park (LSNFH)			N/P	N/P	11568	88	02/20/2004	02/20/04	1	200	0.139	0.081		0	6	27
05-19-94	Caldwell Park (LSNFH)			N/P	N/P	10969	81	--	--	0	--	--	--		0	9	25
05-19-95	Caldwell Park (LSNFH)			N/P	N/P	18039	78	--	--	0	--	--	--		0	6	45
05-19-96	Caldwell Park (LSNFH)			N/P	N/P	17630	77	03/17/2004	03/26/04	4	860	0.060	0.494		0	12	31
05-19-97	Caldwell Park (LSNFH)			N/P	N/P	18931	72	03/24/2004	03/24/04	1	200	0.139	0.049		0	0	20
	Total		02/05/2004			216745		02/20/2004	03/26/04	21	2860	0.055		0.228			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-00-03-04	Butte Creek (Wild)		12/31/2003	N/P	N/P	3757	37	--	--	0	--	--	--		0	0	
06-01-00-03-05	Butte Creek (Wild)		01/06/2004	N/P	N/P	4899	37	--	--	0	--	--	--		0	0	
06-01-00-04-03	Butte Creek (Wild)		01/12/2004	N/P	N/P	11225	36	--	--	0	--	--	--		0	0	6
06-01-00-05-06	Butte Creek (Wild)		01/13/2004	N/P	N/P	10589	37	--	--	0	--	--	--		0	0	11
06-01-00-05-07	Butte Creek (Wild)			N/P	N/P	10459	37	05/02/2004	05/02/04	1	400	0.278	0.045		0	0	4
06-01-00-05-08	Butte Creek (Wild)			N/P	N/P	11174	37	--	--	0	--	--	--		0	6	
	Total		01/16/2004			21633		05/02/2004	05/02/04	1	400	0.278		0.022			
06-01-00-05-09	Butte Creek (Wild)			N/P	N/P	9751	37	--	--	0	--	--	--		0	0	
06-01-00-06-00	Butte Creek (Wild)			N/P	N/P	11092	37	--	--	0	--	--	--		0	0	
	Total		01/20/2004			20843				0							
06-01-00-04-04	Butte Creek (Wild)			N/P	N/P	4019	37	--	--	0	--	--	--		0	0	5

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-00-06-01	Butte Creek (Wild)			N/P	N/P	10037	37	--	--	0	--	--	--		0	0	
	Total		01/23/2004			14056				0							
06-01-00-04-05	Butte Creek (Wild)			N/P	N/P	5351	37	--	--	0	--	--	--		0	0	
06-01-00-04-06	Butte Creek (Wild)			N/P	N/P	5792	37	--	--	0	--	--	--		0	0	3
	Total		01/27/2004			11143				0							
06-01-00-04-07	Butte Creek (Wild)			N/P	N/P	6186	37	--	--	0	--	--	--		0	0	8
06-01-00-04-08	Butte Creek (Wild)			N/P	N/P	6164	37	--	--	0	--	--	--		0	0	
06-01-00-08-00	Butte Creek (Wild)			N/P	N/P	10211	37	--	--	0	--	--	--		0	0	
	Total		01/28/2004			22561				0							
06-01-00-08-01	Butte Creek (Wild)			N/P	N/P	9834	37	05/03/2004	05/03/04	1	400	0.278	0.048		0	0	
06-01-00-08-02	Butte Creek (Wild)			N/P	N/P	10712	37	--	--	0	--	--	--		0	0	3
	Total		01/29/2004			20546		05/03/2004	05/03/04	1	400	0.278		0.023			
06-01-00-08-03	Butte Creek (Wild)		01/31/2004	N/P	N/P	10944	38	--	--	0	--	--	--		0	0	5
06-01-00-04-09	Butte Creek (Wild)			N/P	N/P	6619	38	--	--	0	--	--	--		0	0	4
06-01-00-05-00	Butte Creek (Wild)			N/P	N/P	7407	38	--	--	0	--	--	--		0	0	3
	Total		02/01/2004			14026				0							
06-01-00-03-06	Butte Creek (Wild)			N/P	N/P	6003	37	--	--	0	--	--	--		0	0	4
06-01-00-03-07	Butte Creek (Wild)			N/P	N/P	6270	37	04/09/2004	04/09/04	1	200	0.139	0.149		0	0	3
06-01-00-05-02	Butte Creek (Wild)			N/P	N/P	5921	38	--	--	0	--	--	--		0	0	3
	Total		02/02/2004			18194		04/09/2004	04/09/04	1	200	0.139		0.051			
06-01-00-05-03	Butte Creek (Wild)		02/03/2004	N/P	N/P	6152	38	--	--	0	--	--	--		0	0	3
06-01-00-05-01	Butte Creek (Wild)			N/P	N/P	6462	38	--	--	0	--	--	--		0	0	
06-01-00-05-04	Butte Creek (Wild)			N/P	N/P	5540	38	--	--	0	--	--	--		0	0	
	Total		02/04/2004			12002				0							
06-24-06	Feather River Hatchery (FRH)			N/P	N/P	114588	96	05/27/2004	05/27/04	1	200	0.139	0.008		0	0	4
06-24-07	Feather River Hatchery (FRH)			N/P	N/P	115419	96	05/29/2004	05/29/04	1	200	0.139	0.008		0	0	14
	Total		05/19/2004			230007		05/27/2004	05/29/04	2	600	0.139		0.008			
06-24-04	Feather River Hatchery (FRH)			N/P	N/P	115802	96	--	--	0	--	--	--		0	0	7
06-24-05	Feather River Hatchery (FRH)			N/P	N/P	112995	96	06/01/2004	06/01/04	1	200	0.139	0.008		0	0	
	Total		05/21/2004			228797		06/01/2004	06/01/04	1	200	0.139		0.004			
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-01-03-01-07	Yuba River (Wild)		12/22/2003	N/P	N/P	11943	36	--	--	0	--	--	--				
06-01-03-01-06	Yuba River (Wild)		12/29/2003	N/P	N/P	17000	37	04/21/2004	04/21/04	1	200	0.139	0.055				2
06-01-03-01-08	Yuba River (Wild)		01/02/2004	N/P	N/P	17000	37	04/27/2004	04/27/04	1	400	0.278	0.028				
06-01-07-09-08	Live Oak (Wild)		01/05/2004	N/P	N/P	12024	35	--	--	0	--	--	--		0	0	
06-01-07-09-07	Live Oak (Wild)		01/08/2004	N/P	N/P	11740	35	--	--	0	--	--	--		0	0	
06-01-07-09-06	Live Oak (Wild)		01/11/2004	N/P	N/P	11637	35	--	--	0	--	--	--		0	0	
06-01-07-09-09	Live Oak (Wild)		01/14/2004	N/P	N/P	11940	35	04/26/2004	04/26/04	1	390	0.271	0.040		0	0	
06-01-08-07-00	Live Oak (Wild)		01/15/2004	N/P	N/P	11847	35	--	--	0	--	--	--		0	0	3
06-01-03-01-05	Yuba River (Wild)		01/16/2004	N/P	N/P	17000	37	--	--	0	--	--	--				
06-01-08-07-01	Live Oak (Wild)		01/16/2004	N/P	N/P	11463	35	--	--	0	--	--	--		0	0	

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-08-07-02	Live Oak (Wild)			N/P	N/P	11826	35	--	--	0	--	--	--		0	0	
06-01-08-07-03	Live Oak (Wild)			N/P	N/P	11888	35	--	--	0	--	--	--		0	0	
	Total		01/22/2004			23714											
06-01-08-07-04	Live Oak (Wild)		01/24/2004	N/P	N/P	11550	35	--	--	0	--	--	--		0	0	
06-01-08-07-06	Live Oak (Wild)		01/27/2004	N/P	N/P	12052	35	--	--	0	--	--	--		0	0	
06-01-08-07-05	Live Oak (Wild)			N/P	N/P	11820	35	--	--	0	--	--	--		0	0	
06-01-08-07-08	Live Oak (Wild)			N/P	N/P	11808	35	--	--	0	--	--	--		0	0	
	Total		01/28/2004			23628				0							
06-01-08-07-07	Live Oak (Wild)		01/29/2004	N/P	N/P	9719	35	--	--	0	--	--	--		0	0	
06-01-08-07-09	Live Oak (Wild)		01/31/2004	N/P	N/P	11442	35	--	--	0	--	--	--		0	0	
06-01-03-02-01	Yuba River (Wild)		02/14/2004	N/P	N/P	16000	38	05/09/2004	05/09/04	1	400	0.278	0.029				
05-01-02-15-14	RBDD (CNFH)		02/17/2004	N/P	N/P	48808	47	04/14/2004	04/23/04	2	1000	0.069	0.077		0	6	63
05-01-03-01-04	RBDD (CNFH)		03/02/2004	N/P	N/P	49815	55	04/19/2004	05/03/04	9	4590	0.213	0.111		0	0	91
05-01-04-01-08	Battle Creek (CNFH)			N/P	N/P	67636	78	04/26/2004	05/13/04	22	7138	0.275	0.154		0	0	63
05-01-04-01-09	Battle Creek (CNFH)			N/P	N/P	75162	79	04/24/2004	05/14/04	36	8338	0.276	0.226		0	0	107
	Total		04/16/2004			142798		04/24/2004	05/14/04	58	8338	0.276		0.192			
Sacramento-San Joaquin Estuary																	
06-01-05-02-00	Mokelumne River FH (Wild)		01/27/2004	N/P	N/P	4200	83	--	--	0	--	--	--				
06-01-01-01-00	Yolo Bypass near I-5 (FRH)			45	N/P	9877	47	--	--	0	--	--	--		0	0	
06-01-01-01-01	Yolo Bypass near I-5 (FRH)			45	N/P	9629	47	--	--	0	--	--	--		0	0	4
06-01-01-01-02	Yolo Bypass near I-5 (FRH)			45	N/P	10449	47	--	--	0	--	--	--		0	0	5
06-01-01-01-03	Yolo Bypass near I-5 (FRH)			45	N/P	9570	47	04/05/2004	04/05/04	1	200	0.139	0.098		0	0	6
06-01-01-01-04	Yolo Bypass near I-5 (FRH)			45	N/P	10700	47	--	--	0	--	--	--		0	0	3
	Total		02/11/2004			50225		04/05/2004	04/05/04	1	200	0.139		0.019			
06-01-01-01-05	Elkhorn Park (FRH)			45	N/P	10195	47	--	--	0	--	--	--		0	0	
06-01-01-01-06	Elkhorn Park (FRH)			45	N/P	10058	47	--	--	0	--	--	--		0	0	
06-01-01-01-07	Elkhorn Park (FRH)			45	N/P	10337	47	--	--	0	--	--	--		0	0	6
06-01-01-01-08	Elkhorn Park (FRH)			45	N/P	9775	47	04/14/2004	04/30/04	2	3790	0.155	0.172		0	0	
06-01-01-01-09	Elkhorn Park (FRH)			45	N/P	10373	47	--	--	0	--	--	--		0	0	4
	Total		02/11/2004			50738		04/14/2004	04/30/04	2	3790	0.155		0.033			
05-01-02-15-13	Clarksburg (CNFH)		02/17/2004	52	53	47053	47	--	--	0	--	--	--		0	0	13
05-01-04-03-09	Lighthouse Marina (FRH)			45	50	25316	50	--	--	0	--	--	--		12	12	3
05-01-04-04-01	Lighthouse Marina (FRH)			45	50	24758	50	--	--	0	--	--	--		0	3	
	Total		02/19/2004			50074				0							
05-01-04-04-02	Isleton (FRH)			45	50	22692	50	--	--	0	--	--	--		0	0	
05-01-04-04-03	Isleton (FRH)			45	50	25017	50	--	--	0	--	--	--		0	0	
	Total		02/19/2004			47709				0							
06-01-01-00-00	Elkhorn Park (FRH)			N/P	N/P	9576	54	--	--	0	--	--	--		0	0	
06-01-01-00-01	Elkhorn Park (FRH)			N/P	N/P	9480	54	--	--	0	--	--	--		0	3	11
06-01-01-00-02	Elkhorn Park (FRH)			N/P	N/P	9693	54	--	--	0	--	--	--		0	0	6
06-01-01-00-03	Elkhorn Park (FRH)			N/P	N/P	9547	54	--	--	0	--	--	--		0	0	
06-01-01-00-04	Elkhorn Park (FRH)			N/P	N/P	9638	54	--	--	0	--	--	--		0	0	9
	Total		02/24/2004			47934				0							
06-01-01-00-05	Yolo Bypass @ Fremont (FRH)			N/P	N/P	10190	54	03/29/2004	03/29/04	1	200	0.139	0.092		0	0	2

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-01-00-06	Yolo Bypass @ Fremont (FRH)			N/P	N/P	10144	54	--	--	0	--	--	--		0	0	4
06-01-01-00-07	Yolo Bypass @ Fremont (FRH)			N/P	N/P	9977	54	--	--	0	--	--	--		0	0	8
06-01-01-00-08	Yolo Bypass @ Fremont (FRH)			N/P	N/P	9776	54	--	--	0	--	--	--		0	0	23
06-01-01-00-09	Yolo Bypass @ Fremont (FRH)			N/P	N/P	10126	54	--	--	0	--	--	--		0	0	8
	Total		02/24/2004			50213		03/29/2004	03/29/04	1	200	0.139		0.019			
05-01-03-01-03	Clarksburg (CNFH)		03/02/2004	49	52	50196	48	04/05/2004	04/05/04	1	200	0.139	0.019		0	12	26
05-20-66	Isleton (FRH)			48	54	26291	53	04/16/2004	04/16/04	1	200	0.139	0.036		0	0	7
05-20-67	Isleton (FRH)			48	54	24829	53	04/25/2004	04/25/04	1	400	0.278	0.019		12	9	10
	Total		03/04/2004			51120		04/16/2004	04/25/04	2	1600	0.111		0.046			
05-20-68	Lighthouse Marina (FRH)			48	52	25558	53	04/26/2004	05/04/04	2	3590	0.277	0.037		0	6	32
05-20-69	Lighthouse Marina (FRH)			48	52	25666	53	05/05/2004	05/09/04	2	1950	0.271	0.037		12	9	15
	Total		03/04/2004			51224		04/26/2004	05/09/04	4	5540	0.275		0.037			
05-01-04-04-06	West Sacramento (FRH)			54	57	25101	73	04/21/2004	05/05/04	15	5150	0.238	0.326		0	0	72
05-01-04-04-07	West Sacramento (FRH)			54	57	24835	73	04/26/2004	05/06/04	14	4340	0.274	0.267		24	0	91
	Total		04/15/2004			49936		04/21/2004	05/06/04	29	5540	0.240		0.314			
06-27-52	Durham Ferry (MRFF)			55.4	60	23440	83	--	--		--	--	--		24	6	3
06-27-53	Durham Ferry (MRFF)			55.4	60	21714	82	05/03/2004	05/03/04	1	400	0.278	0.022		36	0	
06-27-54	Durham Ferry (MRFF)			55.4	60	23328	82	05/02/2004	05/02/04	1	400	0.278	0.020		24	0	
06-27-55	Durham Ferry (MRFF)			55.4	60	23783	83	05/01/2004	05/01/04	1	400	0.278	0.020		0	6	
	Total		04/22/2004			92265		05/01/2004	05/03/04	3	1200	0.278		0.015			
06-45-82	Mossdale (MRFF)			55.4	63	23586	81	05/06/2004	05/06/04	1	390	0.271	0.020		24	0	
06-45-83	Mossdale (MRFF)			55.4	63	24803	79	05/02/2004	05/06/04	2	1950	0.271	0.039		0	6	2
06-46-70	Mossdale (MRFF)			55.4	63	25319	82	--	--	0	--	--	--		0	0	
	Total		04/23/2004			73708		05/02/2004	05/06/04	3	1950	0.271		0.020			
06-45-80	Jersey Point (MRFF)		04/26/2004	57.7	70.7	22911	85	04/28/2004	05/03/04	25	2400	0.278	0.511		12	0	124
05-19-98	West Sacramento (FRH)			54	66	23828	77	05/05/2004	05/16/04	17	4748	0.275	0.338		0	0	32
05-19-99	West Sacramento (FRH)			54	66	24304	77	05/04/2004	05/15/04	10	4748	0.275	0.195		0	0	36
	Total		04/30/2004			48132		05/04/2004	05/16/04	27	5148	0.275		0.265			
05-20-64	Port Chicago (CNFH)			60	70	25749	78	05/03/2004	05/10/04	21	--	--	**		0	0	145
05-20-65	Port Chicago (CNFH)			60	70	23819	78	04/28/2004	05/11/04	17	--	--	**		0	0	120
	Total		05/03/2004			49568		04/28/2004	05/11/04	38							

**Survival not calculated for releases downstream of Chipps Island

06-03-10	Mokelumne River FH (MOK)			N/P	N/P	24275	81	--	--	0	--	--	--		0	0	
06-03-11	Mokelumne River FH (MOK)			N/P	N/P	24275	81	05/18/2004	05/18/04	1	400	0.278	0.019		0	0	
06-03-12	Mokelumne River FH (MOK)			N/P	N/P	24275	81	--	--	0	--	--	--		0	0	
06-03-13	Mokelumne River FH (MOK)			N/P	N/P	24275	81	--	--	0	--	--	--		0	0	
	Total		05/03/2004			97100		05/18/2004	05/18/04	1	400	0.278		0.005			
06-03-14	New Hope Landing (MOK)			N/P	N/P	24668	78	--	--	0	--	--	--		0	0	
06-03-15	New Hope Landing (MOK)			N/P	N/P	24668	78	--	--	0	--	--	--		0	0	
06-03-16	New Hope Landing (MOK)			N/P	N/P	24668	78	--	--	0	--	--	--		0	0	
06-03-17	New Hope Landing (MOK)			N/P	N/P	24668	78	--	--	0	--	--	--		0	0	
	Total		05/03/2004			98672				0							
06-45-81	Hatfield State Park (MRFF)			47.8	65.7	24274	89	05/20/2004	05/20/04	1	400	0.278	0.019		0	0	
06-45-98	Hatfield State Park (MRFF)			47.8	65.7	24897	89	--	--	0	--	--	--		0	0	
06-45-99	Hatfield State Park (MRFF)			47.8	65.7	24769	89	--	--	0	--	--	--		0	0	
	Total		05/12/2004			73940		05/20/2004	05/20/04	1	400	0.278		0.006			
05-01-04-04-04	West Sacramento (FRH)			52	69	24556	89	05/19/2004	05/22/04	2	1600	0.278	0.038		0	0	16
05-01-04-04-05	West Sacramento (FRH)			52	69	24687	89	05/20/2004	05/20/04	1	400	0.278	0.019		0	0	10

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		05/14/2004			49243		05/19/2004	05/22/04	3	1600	0.278	0.029	0.029			
Upper San Joaquin River and Tributaries																	
06-45-92	Shaffer Bridge (MRFF)			N/P	N/P	23629	85	--	--	0	--	--	--		0	0	
06-45-93	Shaffer Bridge (MRFF)			N/P	N/P	22440	85	--	--	0	--	--	--		0	0	
	Total		04/19/2004			46069				0							
06-45-94	Hatfield State Park (MRFF)			52.9	59.9	23490	84	04/30/2004	04/30/04	1	400	0.278	0.020		0	0	
06-45-95	Hatfield State Park (MRFF)			52.9	59.9	23038	84	05/01/2004	05/01/04	1	400	0.278	0.020		0	6	3
	Total		04/20/2004			46528		04/30/2004	05/01/04	2	800	0.278		0.020			
06-45-96	Upper Merced (MRFF)		05/09/2004	n/p	55.9	25028	86	--	--	0	--	--	--				
2003																	
2003 (sampling period: 8/2/02 - 7/30/03)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-10-97	Battle Creek (CNFH)		11/08/2002	N/P	N/P	67650	102	12/06/2002	01/04/03	13	5227	0.121	0.206		12	44	14
05-10-94	Battle Creek (CNFH)			N/P	N/P	59887	117	12/18/2002	05/01/03	30	17283	0.089	0.733		96	158	252
05-11-65	Battle Creek (CNFH)			N/P	N/P	59419	134	01/10/2003	02/26/03	20	4581	0.066	0.660		204	316	632
	Total		12/02/2002			119306		12/18/2002	05/01/03	50	17283	0.089		0.613			
05-10-91	Battle Creek (CNFH)			N/P	N/P	66571	125	01/08/2003	02/03/03	30	3181	0.082	0.716		408	548	438
05-10-92	Battle Creek (CNFH)			N/P	N/P	56029	119	01/08/2003	02/28/03	11	5181	0.069	0.369		204	300	205
05-10-93	Battle Creek (CNFH)			N/P	N/P	65715	126	01/08/2003	03/19/03	25	6759	0.066	0.748		348	466	971
05-10-95	Battle Creek (CNFH)			N/P	N/P	71267	131	01/09/2003	02/28/03	28	4981	0.068	0.753		384	657	182
05-10-99	Battle Creek (CNFH)			N/P	N/P	72800	126	01/09/2003	03/31/03	26	7559	0.064	0.725		192	342	554
05-11-64	Battle Creek (CNFH)			N/P	N/P	67865	130	01/09/2003	03/19/03	16	6559	0.065	0.471		228	499	522
05-51-39	Battle Creek (CNFH)			N/P	N/P	66763	130	01/08/2003	02/24/03	30	4781	0.069	0.845		528	529	658
	Total		01/02/2003			467010		01/08/2003	03/31/03	166	7759	0.065		0.712			
05-10-96	Battle Creek (CNFH)		01/15/2003	N/P	N/P	74760	131	01/22/2003	03/21/03	21	4978	0.059	0.623		168	210	764
Sacramento-San Joaquin Estuary																	
05-51-38	West Sacramento (CNFH)		12/03/2002	55	52	69490	118	12/15/2002	01/09/03	35	4757	0.127	0.515		192	255	280
05-10-98	Georgiana Slough (CNFH)		12/04/2002	55	52	35046	118	--	--	0	--	--	--		48	88	15
05-11-68	Georgiana Slough (CNFH)		12/05/2002	55	55	55173	114	12/27/2002	12/27/02	1	200	0.139	0.017		216	348	52
05-11-67	Ryde (CNFH)		12/06/2002	57	52	49629	130	12/10/2002	01/02/03	18	4107	0.119	0.397		24	18	147
05-11-66	Port Chicago (CNFH)		12/09/2002	55	54	47048	124	12/11/2002	12/20/02	6	--	--	**		0	0	458

** Survival not calculated for releases downstream of Chipps Island

Winter run releases

Upper Sacramento River and Tributaries																	
05-12-76	Caldwell Park (LSNFH)			N/P	N/P	3756	78	--	--	0	--	--	--		0	3	12
05-12-77	Caldwell Park (LSNFH)			N/P	N/P	4330	71	03/21/2003	03/21/03	1	200	0.139	0.216		0	0	43
05-12-78	Caldwell Park (LSNFH)			N/P	N/P	4429	73	--	--	0	--	--	--		0	0	13
05-12-79	Caldwell Park (LSNFH)			N/P	N/P	3762	73	--	--	0	--	--	--		0	0	21
05-12-80	Caldwell Park (LSNFH)			N/P	N/P	4224	72	03/17/2003	03/26/03	2	1000	0.069	0.886		0	0	11
05-12-81	Caldwell Park (LSNFH)			N/P	N/P	4340	80	--	--	0	--	--	--		0	6	7
05-12-82	Caldwell Park (LSNFH)			N/P	N/P	5657	82	--	--	0	--	--	--		0	0	7
05-12-83	Caldwell Park (LSNFH)			N/P	N/P	5381	79	03/03/2003	03/19/03	2	1578	0.064	0.750		24	0	12
05-12-84	Caldwell Park (LSNFH)			N/P	N/P	5410	80	--	--	0	--	--	--		0	3	25
05-12-85	Caldwell Park (LSNFH)			N/P	N/P	4143	86	--	--	0	--	--	--		0	0	39
05-12-86	Caldwell Park (LSNFH)			N/P	N/P	5005	83	--	--	0	--	--	--		0	0	3
05-12-87	Caldwell Park (LSNFH)			N/P	N/P	3405	79	--	--	0	--	--	--		0	0	20
05-12-88	Caldwell Park (LSNFH)			N/P	N/P	4992	78	--	--	0	--	--	--		0	0	19

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-12-89	Caldwell Park (LSNFH)			N/P	N/P	5831	78	--	--	0	--	--	--		15	0	41
05-12-90	Caldwell Park (LSNFH)			N/P	N/P	8131	82	02/14/2003	02/14/03	1	200	0.139	0.115		12	9	33
05-12-91	Caldwell Park (LSNFH)			N/P	N/P	5680	74	03/19/2003	04/14/03	2	2388	0.061	0.745		0	12	19
05-12-92	Caldwell Park (LSNFH)			N/P	N/P	4377	74	--	--	0	--	--	--		0	12	12
05-12-93	Caldwell Park (LSNFH)			N/P	N/P	4448	74	03/17/2003	03/31/03	2	1400	0.065	0.902		0	0	31
05-12-94	Caldwell Park (LSNFH)			N/P	N/P	4489	75	03/17/2003	03/17/03	1	200	0.139	0.209		0	0	6
05-12-95	Caldwell Park (LSNFH)			N/P	N/P	2294	91	--	--	0	--	--	--		0	0	9
05-12-96	Caldwell Park (LSNFH)			N/P	N/P	10425	80	03/05/2003	04/02/03	4	2598	0.062	0.802		12	0	59
05-12-97	Caldwell Park (LSNFH)			N/P	N/P	17364	72	--	--	0	--	--	--		0	21	43
05-12-98	Caldwell Park (LSNFH)			N/P	N/P	27158	64	03/17/2003	04/09/03	3	2188	0.063	0.227		0	9	113
05-12-99	Caldwell Park (LSNFH)			N/P	N/P	4341	83	--	--	0	--	--	--		0	12	15
05-13-64	Caldwell Park (LSNFH)			N/P	N/P	4778	79	03/19/2003	03/19/03	1	200	0.139	0.196		0	0	40
05-13-65	Caldwell Park (LSNFH)			N/P	N/P	4235	79	03/17/2003	03/17/03	1	200	0.139	0.221		0	3	10
05-13-66	Caldwell Park (LSNFH)			N/P	N/P	4403	79	03/17/2003	03/21/03	2	600	0.083	0.709		0	0	27
05-13-67	Caldwell Park (LSNFH)			N/P	N/P	4671	82	03/07/2003	03/19/03	2	1198	0.064	0.870		0	3	17
05-13-68	Caldwell Park (LSNFH)			N/P	N/P	4451	78	--	--	0	--	--	--		12	6	29
05-13-69	Caldwell Park (LSNFH)			N/P	N/P	4556	75	--	--	0	--	--	--		0	0	8
05-13-70	Caldwell Park (LSNFH)			N/P	N/P	4692	78	03/19/2003	03/21/03	2	400	0.093	0.598		12	3	14
05-13-71	Caldwell Park (LSNFH)			N/P	N/P	5386	72	02/24/2003	03/26/03	3	2778	0.062	1.164		0	0	30
05-13-72	Caldwell Park (LSNFH)			N/P	N/P	4973	73	03/19/2003	03/19/03	2	200	0.139	0.376		0	3	43
05-13-73	Caldwell Park (LSNFH)			N/P	N/P	4230	77	--	--	0	--	--	--		0	3	13
05-37-37	Caldwell Park (LSNFH)			N/P	N/P	22576	65	03/19/2003	03/31/03	3	1200	0.064	0.270		12	0	52
	Total		01/30/2003			222323		02/14/2003	04/14/03	34	4966	0.057		0.346			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-00-03-02	Butte Creek (Wild)		01/17/2003	N/P	N/P	4527	35	04/14/2003	04/14/03	1	200	0.139	0.207		0	0	11
06-01-00-03-03	Butte Creek (Wild)		01/22/2003	N/P	N/P	5505	35	--	--	0	--	--	--		0	0	14
06-01-00-04-00	Butte Creek (Wild)		01/30/2003	N/P	N/P	10762	35	04/27/2003	05/19/03	3	8826	0.266	0.136		0	0	62
06-01-00-04-01	Butte Creek (Wild)		02/13/2003	N/P	N/P	10526	36	--	--	0	--	--	--		0	0	28
06-01-00-04-02	Butte Creek (Wild)		03/05/2003	N/P	N/P	5095	38	05/25/2003	05/25/03	1	400	0.278	0.092		0	0	7
06-27-88	Live Oak (Wild)			N/P	59	107854	88	05/03/2003	05/29/03	39	10232	0.263	0.179		0	0	527
06-27-89	Live Oak (Wild)			N/P	59	107181	88	05/03/2003	05/30/03	52	10632	0.264	0.239		0	0	496
06-27-90	Live Oak (Wild)			N/P	59	108680	88	05/03/2003	06/10/03	47	12512	0.223	0.252		0	0	528
06-27-91	Live Oak (Wild)			N/P	59	107891	88	05/03/2003	05/30/03	41	10632	0.264	0.187		0	0	556
06-27-92	Live Oak (Wild)			N/P	59	108477	88	05/02/2003	05/30/03	44	11032	0.264	0.200		0	0	544
	Total		04/28/2003			540083		05/02/2003	06/10/03	223	12912	0.224		0.239			
06-27-93	Live Oak (Wild)		05/19/2003	N/P	63	97602	91	05/23/2003	06/02/03	17	3800	0.240	0.094		0	0	167
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-01-07-07-08	Live Oak (Wild) *		01/02/2003	N/P	N/P	11124	35	--	--	0	--	--	--		0	0	0
06-01-07-08-04	Live Oak (Wild) *		01/02/2003	N/P	N/P	10636	35	--	--	0	--	--	--		0	0	0
06-01-07-07-09	Live Oak (Wild) *		01/05/2003	N/P	N/P	11659	35	04/27/2003	04/27/03	1	400	0.278	0.040		0	0	0
06-01-07-08-00	Live Oak (Wild) *		01/05/2003	N/P	N/P	6126	35	--	--	0	--	--	--		0	0	3
06-01-07-08-01	Live Oak (Wild) *		01/07/2003	N/P	N/P	6675	35	--	--	0	--	--	--		0	0	0
06-01-07-08-02	Live Oak (Wild) *		01/07/2003	N/P	N/P	5839	35	--	--	0	--	--	--		0	0	0
06-01-07-00-09	Live Oak (Wild) *		01/10/2003	N/P	N/P	10696	35	--	--	0	--	--	--		0	0	0
06-01-07-08-03	Live Oak (Wild) *		01/12/2003	N/P	N/P	11042	35	--	--	0	--	--	--		0	0	0

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-07-08-05	Live Oak (Wild) *		01/12/2003	N/P	N/P	11907	35	--	--	0	--	--	--		0	0	0
06-01-07-08-06	Live Oak (Wild) *		01/14/2003	N/P	N/P	12517	35	--	--	0	--	--	--		0	0	0
06-01-07-08-07	Live Oak (Wild) *		01/15/2003	N/P	N/P	10486	35	--	--	0	--	--	--		0	0	0
06-01-07-08-08	Live Oak (Wild) *		01/16/2003	N/P	N/P	11465	35	--	--	0	--	--	--		0	0	0
06-01-07-09-00	Live Oak (Wild) *		01/17/2003	N/P	N/P	13311	35	--	--	0	--	--	--		0	0	0
06-01-07-09-01	Live Oak (Wild) *		01/17/2003	N/P	N/P	11161	35	--	--	0	--	--	--		0	6	0
06-01-07-08-09	Live Oak (Wild) *		01/19/2003	N/P	N/P	10978	35	--	--	0	--	--	--		0	0	0
06-01-07-09-02	Live Oak (Wild) *		01/20/2003	N/P	N/P	11882	35	--	--	0	--	--	--		0	0	0
06-01-07-09-03	Live Oak (Wild) *		01/22/2003	N/P	N/P	10194	35	--	--	0	--	--	--		0	0	0
06-01-07-09-04	Live Oak (Wild) *		01/23/2003	N/P	N/P	10720	35	--	--	0	--	--	--		0	0	4
06-01-07-09-05	Live Oak (Wild) *		01/26/2003	N/P	N/P	8809	35	--	--	0	--	--	--		0	0	0
* group indices not calculated since the Live Oak releases occurred over several days with some groups overlapping																	
05-01-02-01-06	RBDD (CNFH)		02/20/2003	N/P	N/P	50147	55	03/28/2003	04/26/03	7	4173	0.097	0.188		0	6	223
05-01-02-01-04	RBDD (CNFH)		03/06/2003	48	52.8	49896	60	04/02/2003	05/16/03	16	11412	0.176	0.237		0	18	274
06-27-64	Live Oak (Wild)			N/P	54	53275	72	04/23/2003	05/16/03	20	9239	0.267	0.183		0	0	122
06-27-65	Live Oak (Wild)			N/P	54	53435	72	04/25/2003	05/19/03	17	9626	0.267	0.155		0	0	159
06-27-66	Live Oak (Wild)			N/P	54	53601	72	04/23/2003	05/13/03	20	8239	0.272	0.178		0	0	215
	Total		04/15/2003			160311		04/23/2003	05/19/03	57	10426	0.268		0.172			
06-27-67	Live Oak (Wild)			N/P	55	54971	74	05/05/2003	05/22/03	20	6847	0.264	0.179		0	0	231
06-27-68	Live Oak (Wild)			N/P	55	54493	74	05/05/2003	05/23/03	18	7247	0.265	0.162		0	0	219
06-26-85	Live Oak (Wild)			N/P	55	54186	74	05/04/2003	05/23/03	21	7647	0.266	0.190		0	0	197
	Total		04/30/2003			163650		05/04/2003	05/23/03	59	7647	0.266		0.177			
06-27-04	Live Oak (Wild)			N/P	61	79302	79	05/19/2003	05/28/03	21	3787	0.263	0.131		0	0	367
06-27-05	Live Oak (Wild)			N/P	61	79201	79	05/19/2003	06/01/03	35	5187	0.257	0.223		0	0	424
	Total		05/15/2003			158503		05/19/2003	06/01/03	56	5187	0.257		0.179			
Sacramento-San Joaquin Estuary																	
06-49-24	North Fork Mokelumne (MOK)			57	63	25410	162	10/07/2002	11/27/02	17	8460	0.113	0.770		0	21	261
06-49-25	North Fork Mokelumne (MOK)			57	63	24397	162	10/06/2002	11/11/02	15	7160	0.134	0.595		24	0	250
	Total		10/01/2002			49807		10/06/2002	11/27/02	32	8660	0.113		0.736			
06-49-26	South Fork Mokelumne (MOK)			57	65	27160	161	10/09/2002	10/24/02	12	3068	0.133	0.431		24	0	291
06-49-27	South Fork Mokelumne (MOK)			57	65	22595	161	10/08/2002	10/17/02	9	1936	0.134	0.385		12	0	305
	Total		10/01/2002			49755		10/08/2002	10/24/02	21	3268	0.133		0.411			
06-49-30	Jersey Point (MOK)		10/07/2002	60	67	25981	165	10/10/2002	12/09/02	27	8980	0.102	1.322		0	0	1123
06-02-77	South Fork Mokelumne (MOK)		10/08/2002	57	68	50387	170	10/18/2002	12/14/02	4	8194	0.098	0.105		48	0	221
06-02-79	North Fork Mokelumne (MOK)		10/08/2002	55	65	51158	170	10/18/2002	12/06/02	6	6924	0.096	0.159		36	24	441
06-49-31	Jersey Point (MOK)		10/15/2002	57	64	25811	172	10/16/2002	11/03/02	28	3672	0.134	1.051		0	0	1143
06-02-76	Mokelumne River/Bean Farm (MOK)			59	61	52197	164	10/22/2002	11/29/02	7	5724	0.102	0.171		84	19	582
06-02-78	Mokelumne River/Bean Farm (MOK)			59	61	52147	161	10/24/2002	11/12/02	5	3892	0.135	0.092		84	48	273

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		10/16/2002			104344		10/22/2002	11/29/02	12	5724	0.102		0.147			
06-49-28	Jersey Point (MOK)		10/23/2002	57	59	25240	179	10/26/2002	12/18/02	12	7452	0.096	0.645		0	0	938
06-02-80	Mokelumne River/Bean Farm (MOK)			58	59	49398	172	11/10/2002	01/09/03	2	8519	0.097	0.054		12	0	82
06-02-81	Mokelumne River/Bean Farm (MOK)			58	58	50400	173	11/03/2002	11/07/02	2	900	0.125	0.041		12	38	119
	Total		10/24/2002			99798		11/03/2002	01/09/03	4	9819	0.100		0.052			
06-49-29	Jersey Point (MOK)		10/30/2002	58	61	25912	178	11/04/2002	11/09/02	6	1100	0.127	0.236		0	0	552
06-01-13-02-12	Woodbridge Dam (Wild)		01/31/2003	N/P	N/P	5031	N/P	05/17/2003	05/17/03	1	400	0.278	0.093		0	0	3
06-01-08-08-09	Elkhorn Park (FRH)		02/05/2003	N/P	51	51964	55	03/24/2003	04/28/03	7	5373	0.104	0.169		0	33	25
06-01-08-08-08	Yolo Bypass (FRH)		02/05/2003	N/P	51	53133	55	04/30/2003	05/19/03	2	7626	0.265	0.018		0	3	41
06-01-08-09-00	Yolo Bypass (FRH)		02/20/2003	N/P	52	51386	58	04/14/2003	05/07/03	3	7164	0.207	0.037		0	6	46
06-01-08-09-01	Elkhorn Park (FRH)		02/20/2003	N/P	52	51388	58	04/30/2003	05/19/03	3	7626	0.265	0.029		0	6	56
05-01-02-01-05	Clarksburg (CNFH)		02/21/2003	53	53	49848	53	04/14/2003	04/14/03	1	200	0.139	0.019		12	21	33
06-01-09-00-00	Viera's Resort (FRH)			48	52	25815	58	--	--	0	--	--	--		0	12	11
06-01-09-00-01	Viera's Resort (FRH)			48	52	26026	58	05/03/2003	05/03/03	1	385	0.267	0.019		12	6	15
	Total		02/24/2003			51841		05/03/2003	05/03/03	1	385	0.267		0.009			
06-27-79	Lighthouse Marina (FRH)			48	52	24813	58	04/16/2003	05/05/03	2	6164	0.214	0.049		0	9	3
06-27-80	Lighthouse Marina (FRH)			48	52	25025	58	04/07/2003	04/07/03	1	200	0.139	0.037		0	9	3
	Total		02/24/2003			49838		04/07/2003	05/05/03	3	6964	0.167		0.047			
05-01-02-01-03	Clarksburg (CNFH)		03/07/2003	52	56	47176	62	04/29/2003	04/29/03	1	400	0.278	0.010		12	69	94
06-27-81	Viera's Resort (FRH)			52	57	25709	71	03/19/2003	04/14/03	5	2388	0.061	0.412		0	15	60
06-27-82	Viera's Resort (FRH)			52	57	25694	71	03/24/2003	05/09/03	7	9612	0.142	0.249		0	12	56
	Total		03/17/2003			51403		03/19/2003	05/09/03	12	10012	0.134		0.227			
06-27-83	B&W Marina (FRH)			54	59	25317	71	--	--	0	--	--	--		36	36	5
06-27-84	B&W Marina (FRH)			54	59	25014	71	04/04/2003	04/04/03	1	188	0.131	0.040		0	36	18
	Total		03/17/2003			50331		04/04/2003	04/04/03	1	188	0.131		0.020			
06-01-08-08-04	West Sacramento (FRH)			54	57	24505	72	04/23/2003	05/15/03	16	8839	0.267	0.318		0	0	137
06-01-08-08-05	West Sacramento (FRH)			54	57	24589	72	04/23/2003	05/13/03	28	8239	0.272	0.543		0	6	120
	Total		04/15/2003			49094		04/23/2003	05/15/03	44	8839	0.267		0.437			
06-02-82	Durham Ferry (MRFF)			51.8	59	24453	86	--	--	0	--	--	--		24	0	9
06-02-83	Durham Ferry (MRFF)			51.8	59	25927	86	04/27/2003	05/02/03	2	2394	0.277	0.036		12	0	0
06-27-42	Durham Ferry (MRFF)			51.8	59	24069	86	04/29/2003	04/29/03	1	400	0.278	0.019		12	3	10
	Total		04/21/2003			74449		04/27/2003	05/02/03	3	2394	0.277		0.019			
06-27-43	Mossdale (MRFF)			51.8	58.6	25212	88	04/30/2003	05/05/03	3	2379	0.275	0.056		0	0	5
06-27-48	Mossdale (MRFF)			55.4	59.9	24471	87	05/02/2003	05/04/03	2	1185	0.274	0.039		0	0	3
	Total		04/22/2003			49683		04/30/2003	05/05/03	5	2379	0.275		0.048			
06-27-44	Jersey Point (MRFF)		04/25/2003	56	62	24414	89	04/26/2003	05/07/03	57	4779	0.277	1.097		0	0	265
06-27-45	Durham Ferry (MRFF)			53	62	24685	87	--	--	0	--	--	--		12	0	6
06-27-46	Durham Ferry (MRFF)			53	62	25189	87	--	--	0	--	--	--		12	0	0
06-27-47	Durham Ferry (MRFF)			53	62	24628	87	--	--	0	--	--	--		0	0	4
	Total		04/28/2003			74502											
06-27-49	Mossdale (MRFF)			55	60	24180	86	--	--	0	--	--	--		12	0	5
06-27-50	Mossdale (MRFF)			55	61	24436	86	05/06/2003	05/06/03	1	400	0.278	0.019		0	0	0

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	Total		04/29/2003			48616		05/06/2003	05/06/03	1	400	0.278		0.010			
06-01-08-08-00	West Sacramento (FRH)			51.8	54.5	24362	79	05/03/2003	05/20/03	34	6832	0.264	0.688		0	0	319
06-01-08-08-01	West Sacramento (FRH)			51.8	54.5	25475	79	05/03/2003	05/20/03	36	6832	0.264	0.697		0	0	211
	Total		04/30/2003			49837		05/03/2003	05/20/03	70	6832	0.264		0.692			
06-02-84	New Hope Landing (MOK)			N/P	N/P	26133	96	05/05/2003	05/08/03	4	1460	0.253	0.079		0	6	104
06-02-85	New Hope Landing (MOK)			N/P	N/P	26133	96	05/06/2003	05/09/03	6	1460	0.253	0.118		0	0	105
06-02-86	New Hope Landing (MOK)			N/P	N/P	26134	96	05/05/2003	05/10/03	8	2260	0.262	0.152		36	6	88
06-02-87	New Hope Landing (MOK)			N/P	N/P	26134	96	05/05/2003	05/08/03	4	1460	0.253	0.079		24	3	121
	Total		04/30/2003			104534		05/05/2003	05/10/03	22	2260	0.262		0.105			
06-02-88	Mokelumne River FH (MOK)			N/P	N/P	24576	94	05/07/2003	05/17/03	14	4060	0.256	0.289		0	0	147
06-02-89	Mokelumne River FH (MOK)			N/P	N/P	24576	94	05/09/2003	05/20/03	6	4587	0.265	0.120		0	0	127
06-02-90	Mokelumne River FH (MOK)			N/P	N/P	24577	94	05/08/2003	05/17/03	4	3660	0.254	0.083		0	0	166
06-02-91	Mokelumne River FH (MOK)			N/P	N/P	24577	94	05/08/2003	05/21/03	5	5247	0.260	0.102		0	0	163
	Total		04/30/2003			98306		05/07/2003	05/21/03	29	5647	0.261		0.147			
06-01-08-08-06	Port Chicago (FRH)		05/01/2003	55	65.5	25266	79	05/02/2003	05/20/03	7	--	--	**		0	0	185
06-01-08-08-07	Port Chicago (FRH)		05/01/2003	55	65.5	25209	79	05/03/2003	05/25/03	9	--	--	**		0	0	247
** Survival not calculated for releases downstream of Chipps Island																	
06-27-51	Jersey Point (MRFF)		05/02/2003	55	59	25692	88	05/04/2003	05/12/03	39	3460	0.267	0.739		0	0	427
06-01-08-08-02	West Sacramento (FRH)			55	64	25292	78	05/18/2003	05/28/03	24	4187	0.264	0.467		0	0	354
06-01-08-08-03	West Sacramento (FRH)			55	64	24992	78	05/18/2003	05/28/03	25	4187	0.264	0.492		0	0	306
	Total		05/15/2003			50284		05/18/2003	05/28/03	49	4187	0.264		0.479			
Upper San Joaquin River and Tributaries																	
06-44-89	Merced River FF (MRFF)			N/P	54.5	22677	86	04/25/2003	04/25/03	1	400	0.278	0.021		24	6	0
06-44-90	Merced River FF (MRFF)			N/P	54.5	22817	86	04/23/2003	04/23/03	1	400	0.278	0.021		0	0	4
06-44-91	Merced River FF (MRFF)			N/P	54.5	22945	86	--	--	0	--	--	--		0	6	3
06-44-92	Merced River FF (MRFF)			N/P	54.5	21725	86	04/29/2003	04/29/03	1	400	0.278	0.022		0	6	4
	Total		04/13/2003			90164		04/23/2003	04/29/03	3	2800	0.278		0.016			
06-44-93	Hatfield State Park (MRFF)			55.4	53.6	23274	88	04/24/2003	04/26/03	4	1200	0.278	0.080		12	18	3
06-44-94	Hatfield State Park (MRFF)			55.4	53.6	23872	88	04/26/2003	04/26/03	1	400	0.278	0.020		12	9	10
06-44-95	Hatfield State Park (MRFF)			55.4	53.6	23833	88	04/25/2003	05/05/03	4	4379	0.276	0.079		12	0	7
	Total		04/16/2003			70979		04/24/2003	05/05/03	9	4779	0.277		0.060			
06-44-96	Merced River FF (MRFF)			N/P	56.3	24231	85	--	--	0	--	--	--		0	0	4
06-44-97	Merced River FF (MRFF)			N/P	56.3	23870	85	--	--	0	--	--	--		0	0	4
06-44-98	Merced River FF (MRFF)			N/P	56.3	23758	85	--	--	0	--	--	--		0	0	0
06-44-99	Merced River FF (MRFF)			N/P	56.3	23949	85	--	--	0	--	--	--		12	0	2
	Total		04/25/2003			95808											
06-45-67	Knight's Ferry (MRFF)			N/P	N/P	25618	84	--	--	0	--	--	--		0	0	6
06-45-68	Knight's Ferry (MRFF)			N/P	N/P	26246	84	05/11/2003	05/11/03	1	400	0.278	0.018		0	0	2
06-45-69	Knight's Ferry (MRFF)			N/P	N/P	26155	84	--	--	0	--	--	--		0	0	16
	Total		04/25/2003			78019		05/11/2003	05/11/03	1	400	0.278		0.006			
06-45-70	Two Rivers (MRFF)		04/27/2003	54.5	58.1	26101	87	--	--	0	--	--	--		0	0	4
06-45-71	Two Rivers (MRFF)		04/28/2003	55.4	59	26632	87	--	--	0	--	--	--		0	0	8
06-45-64	Hatfield State Park (MRFF)			57.2	64.4	24544	85	--	--	0	--	--	--		0	0	5
06-45-65	Hatfield State Park (MRFF)			57.2	64.4	24484	85	05/07/2003	05/10/03	2	1460	0.253	0.042		0	0	2
06-45-66	Hatfield State Park (MRFF)			57.2	64.4	24358	85	--	--	0	--	--	--		0	6	0
	Total		04/29/2003			73386		05/07/2003	05/10/03	2	1460	0.253		0.014			
06-27-77	Merced River FF (MRFF)			N/P	N/P	23591	82	05/20/2003	05/20/03	1	400	0.278	0.020		0	0	13

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-27-78	Merced River FF (MRFF)			N/P	N/P	23862	82	--	--	0	--	--	--		12	0	0
06-44-49	Merced River FF (MRFF)			N/P	N/P	23512	82	05/17/2003	05/17/03	1	400	0.278	0.020		12	0	5
06-44-50	Merced River FF (MRFF)			N/P	N/P	24330	82	05/15/2003	05/18/03	2	1600	0.278	0.038		0	6	7
	Total		05/04/2003			95295		05/15/2003	05/20/03	4	2387	0.276		0.020			
06-45-46	Hatfield State Park (MRFF)			56.3	62.6	22605	82	05/17/2003	05/17/03	1	400	0.278	0.021		0	0	15
06-45-47	Hatfield State Park (MRFF)			56.3	62.6	22715	82	--	--	0	--	--	--		0	0	13
06-45-72	Hatfield State Park (MRFF)			56.3	62.6	22650	82	05/15/2003	05/15/03	2	400	0.278	0.041		0	0	28
	Total		05/07/2003			67970		05/15/2003	05/17/03	3	1200	0.278		0.021			
2002																	
2002 (sampling period: 8/2/01 - 7/31/02)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-06-99	Battle Creek (CNFH)		11/14/2001	N/P	N/P	88039	120	11/28/2001	04/27/02	11	22310	0.103	0.158		24	42	73
05-07-64	Battle Creek (CNFH)		12/12/2001	N/P	N/P	73856	120	12/21/2001	03/01/02	9	8918	0.087	0.182		60	146	131
05-07-66	Battle Creek (CNFH)		01/04/2002	N/P	N/P	65237	135	01/10/2002	03/06/02	55	7248	0.090	1.219		72	99	264
05-07-69	Battle Creek (CNFH)			N/P	N/P	77418	120	01/14/2002	02/27/02	51	5868	0.091	0.946		96	151	597
05-07-70	Battle Creek (CNFH)			N/P	N/P	74770	120	01/15/2002	03/06/02	38	6268	0.085	0.774		72	172	492
05-07-71	Battle Creek (CNFH)			N/P	N/P	71621	120	01/15/2002	03/22/02	39	7608	0.079	0.898		96	81	619
05-07-72	Battle Creek (CNFH)			N/P	N/P	78216	120	01/15/2002	04/23/02	26	15887	0.111	0.388		132	79	664
05-07-73	Battle Creek (CNFH)			N/P	N/P	66305	120	01/15/2002	04/01/02	40	8363	0.075	1.040		60	163	342
05-07-74	Battle Creek (CNFH)			N/P	N/P	74780	120	01/15/2002	04/09/02	29	10921	0.089	0.565		72	73	119
05-07-75	Battle Creek (CNFH)			N/P	N/P	26890	120	01/15/2002	02/27/02	18	5668	0.089	0.973		12	20	95
05-51-35	Battle Creek (CNFH)			N/P	N/P	68226	120	01/15/2002	03/08/02	42	6468	0.085	0.944		60	124	214
	Total		01/08/2002			538226		01/14/2002	04/23/02	283	16087	0.112		0.612			
Sacramento-San Joaquin Estuary																	
05-06-95	Walnut Grove (CNFH)			60	61	28887	89	11/06/2001	11/19/01	3	1000	0.050	0.272		12	0	0
05-06-96	Walnut Grove (CNFH)			60	61	27271	89	11/14/2001	11/14/01	1	200	0.139	0.034		0	6	9
	Total		10/29/2001			56158		11/06/2001	11/19/01	4	1000	0.050		0.187			
05-06-97	Walnut Grove (CNFH)			62	63.6	30118	89	11/14/2001	11/14/01	1	200	0.139	0.031		0	6	3
05-06-98	Walnut Grove (CNFH)			61	63.6	30664	89	11/14/2001	12/05/01	4	1800	0.057	0.298		0	0	1
	Total		11/01/2001			60782		11/14/2001	12/05/01	5	1800	0.057		0.188			
05-07-76	Georgiana Slough (CNFH)		01/03/2002	54	53.6	77053	156	01/08/2002	02/02/02	18	5063	0.135	0.225		96	294	250
05-07-67	Ryde (CNFH)		01/05/2002	50	50	52327	156	01/07/2002	02/11/02	34	6063	0.117	0.722		12	6	521
05-07-68	Port Chicago (CNFH)		01/10/2002	54	54	47876	156	01/20/2002	01/29/02	2	--	--	**		0	12	316

** Survival not calculated for releases downstream of Chipps Island

Winter run releases

Upper Sacramento River and Tributaries																	
05-01-02-05-07	Caldwell Park (LSNFH)			N/P	N/P	4285	80	--	--	0	--	--	--		0	0	0
05-01-03-07-05	Caldwell Park (LSNFH)			N/P	N/P	62138	80	03/25/2002	04/13/02	9	4633	0.161	0.117		12	0	10
05-01-03-07-06	Caldwell Park (LSNFH)			N/P	N/P	38024	80	03/20/2002	04/07/02	3	2953	0.108	0.095		0	6	0
05-01-03-07-07	Caldwell Park (LSNFH)			N/P	N/P	15106	80	--	--	0	--	--	--		0	0	3
05-01-03-07-08	Caldwell Park (LSNFH)			N/P	N/P	6053	80	--	--	0	--	--	--		0	0	0
05-01-03-07-09	Caldwell Park (LSNFH)			N/P	N/P	6104	80	--	--	0	--	--	--		0	0	0
05-01-03-08-01	Caldwell Park (LSNFH)			N/P	N/P	5281	80	04/09/2002	04/09/02	1	400	0.278	0.089		0	0	0
05-01-03-08-02	Caldwell Park (LSNFH)			N/P	N/P	5521	80	04/02/2002	04/08/02	2	2158	0.214	0.220		0	0	10
05-01-03-08-03	Caldwell Park (LSNFH)			N/P	N/P	4901	80	03/22/2002	03/22/02	1	200	0.139	0.191		0	0	0
05-01-03-08-04	Caldwell Park (LSNFH)			N/P	N/P	5942	80	04/07/2002	04/07/02	1	400	0.278	0.079		0	0	5
05-01-03-08-05	Caldwell Park (LSNFH)			N/P	N/P	4726	80	--	--	0	--	--	--		0	0	0
05-01-03-08-06	Caldwell Park (LSNFH)			N/P	N/P	6270	80	--	--	0	--	--	--		0	4	5
05-01-03-08-07	Caldwell Park (LSNFH)			N/P	N/P	4529	80	--	--	0	--	--	--		0	0	0

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-01-03-08-08	Caldwell Park (LSNFH)			N/P	N/P	4853	80	--	--	0	--	--	--		0	0	0
05-01-03-08-09	Caldwell Park (LSNFH)			N/P	N/P	5213	80	04/07/2002	04/07/02	1	400	0.278	0.090		0	0	0
05-01-03-09-01	Caldwell Park (LSNFH)			N/P	N/P	4514	80	--	--	0	--	--	--		0	0	0
05-01-03-09-02	Caldwell Park (LSNFH)			N/P	N/P	4771	80	03/25/2002	03/25/02	1	200	0.139	0.196		0	0	0
05-01-03-09-03	Caldwell Park (LSNFH)			N/P	N/P	4950	80	04/05/2002	04/05/02	1	398	0.276	0.095		0	0	7
05-01-03-09-04	Caldwell Park (LSNFH)			N/P	N/P	5361	80	--	--	0	--	--	--		0	0	8
05-01-03-09-05	Caldwell Park (LSNFH)			N/P	N/P	5528	80	--	--	0	--	--	--		0	0	0
05-01-03-09-06	Caldwell Park (LSNFH)			N/P	N/P	5173	80	--	--	0	--	--	--		0	0	0
05-01-03-09-07	Caldwell Park (LSNFH)			N/P	N/P	4724	80	--	--	0	--	--	--		0	0	0
05-01-03-09-08	Caldwell Park (LSNFH)			N/P	N/P	5731	80	04/10/2002	04/10/02	1	400	0.278	0.082		0	0	0
05-01-03-09-09	Caldwell Park (LSNFH)			N/P	N/P	6027	80	04/24/2002	04/24/02	1	386	0.268	0.080		0	0	0
05-01-04-01-01	Caldwell Park (LSNFH)			N/P	N/P	4634	80	--	--	0	--	--	--		0	0	0
05-01-04-01-02	Caldwell Park (LSNFH)			N/P	N/P	4942	80	--	--	0	--	--	--		0	0	0
05-01-04-01-03	Caldwell Park (LSNFH)			N/P	N/P	4709	80	05/07/2002	05/07/02	1	400	0.278	0.099		0	0	0
05-01-04-01-04	Caldwell Park (LSNFH)			N/P	N/P	4819	80	04/08/2002	04/08/02	1	360	0.250	0.108		0	0	0
	Total		01/30/2002			244829		03/20/2002	05/07/02	24	14194	0.201		0.063			
Spring run releases *																	
Upper Sacramento River and Tributaries																	
06-01-00-00-07	Butte Creek (Wild)		01/07/2002	N/P	N/P	8670	35	--	--	0	--	--	--		0	0	0
06-01-00-00-08	Butte Creek (Wild)		01/11/2002	N/P	N/P	6296	35	04/26/2002	04/26/02	1	398	0.276	0.075		0	0	3
06-01-00-02-06	Butte Creek (Wild)		01/29/2002	N/P	N/P	5899	35	04/27/2002	04/27/02	1	400	0.278	0.079		0	0	0
06-01-00-02-07	Butte Creek (Wild)		01/29/2002	N/P	N/P	3422	35	--	--	0	--	--	--		0	0	0
06-01-00-01-00	Butte Creek (Wild)		02/01/2002	N/P	N/P	10184	35	--	--	0	--	--	--		0	0	4
06-01-00-02-08	Butte Creek (Wild)		02/01/2002	N/P	N/P	5658	35	--	--	0	--	--	--		0	0	0
06-01-00-02-09	Butte Creek (Wild)		02/01/2002	N/P	N/P	5556	35	--	--	0	--	--	--		0	0	0
06-01-00-00-09	Butte Creek (Wild)		02/11/2002	N/P	N/P	9486	35	--	--	0	--	--	--		0	0	0
06-01-00-01-01	Butte Creek (Wild)		02/12/2002	N/P	N/P	9391	35	--	--	0	--	--	--		0	0	0
06-01-00-01-02	Butte Creek (Wild)		02/13/2002	N/P	N/P	9472	35	--	--	0	--	--	--		0	0	5
06-01-00-01-03	Butte Creek (Wild)		02/13/2002	N/P	N/P	9089	35	--	--	0	--	--	--		0	0	0
06-01-00-01-04	Butte Creek (Wild)		02/15/2002	N/P	N/P	10238	35	--	--	0	--	--	--		0	0	0
06-01-00-01-05	Butte Creek (Wild)		02/15/2002	N/P	N/P	10642	35	--	--	0	--	--	--		0	0	4
06-01-00-01-06	Butte Creek (Wild)		02/18/2002	N/P	N/P	9755	35	--	--	0	--	--	--		0	0	0
06-01-00-03-00	Butte Creek (Wild)		02/19/2002	N/P	N/P	5507	35	--	--	0	--	--	--		0	0	0
06-01-00-03-01	Butte Creek (Wild)		02/19/2002	N/P	N/P	5588	35	05/01/2002	05/05/02	2	1932	0.268	0.173		0	0	0
06-01-00-01-07	Butte Creek (Wild)		02/27/2002	N/P	N/P	9645	36	04/30/2002	04/30/02	1	400	0.278	0.049		0	0	0
06-01-00-01-08	Butte Creek (Wild)		02/27/2002	N/P	N/P	5111	36	--	--	0	--	--	--		0	0	0
06-01-00-01-09	Butte Creek (Wild)		03/04/2002	N/P	N/P	9750	45	--	--	0	--	--	--		0	0	2
06-01-00-03-08	Butte Creek (Wild)		03/27/2002	N/P	N/P	3883	51	--	--	0	--	--	--		0	0	2
06-27-34	Live Oak (Wild)		04/03/2002	N/P	N/P	88470	80	04/15/2002	05/08/02	15	9224	0.267	0.083		0	0	105
06-27-32	Live Oak (Wild)		04/18/2002	N/P	N/P	86121	87	04/25/2002	05/07/02	42	5129	0.274	0.231		0	0	233

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-27-33	Live Oak (Wild)		04/29/2002	N/P	N/P	84844	87	05/04/2002	05/20/02	17	6489	0.265	0.098		0	0	227
06-01-00-03-09	Butte Creek (Wild)		05/13/2002	N/P	N/P	2171	64	--	--	0	--	--	--		0	0	0

* group indices not calculated since the Butte Creek releases occurred over several days with some groups overlapping

Fall run releases

Upper Sacramento River and Tributaries *

06-01-07-04-00	Thermalito Bypass (Wild)		01/17/2002	N/P	N/P	10000	35	--	--	0	--	--	--		0	0	0
06-01-07-04-01	Thermalito Bypass (Wild)		01/17/2002	N/P	N/P	10350	35	--	--	0	--	--	--		0	0	0
06-01-07-04-03	Thermalito Bypass (Wild)		01/21/2002	N/P	N/P	10284	35	--	--	0	--	--	--		0	0	0
06-01-07-04-04	Thermalito Bypass (Wild)		01/23/2002	N/P	N/P	10104	35	--	--	0	--	--	--		0	0	0
06-01-07-04-05	Thermalito Bypass (Wild)		01/24/2002	N/P	N/P	10425	35	--	--	0	--	--	--		0	0	0
06-01-07-04-06	Thermalito Bypass (Wild)		01/27/2002	N/P	N/P	9725	35	--	--	0	--	--	--		0	0	0
06-01-07-04-07	Thermalito Bypass (Wild)		01/29/2002	N/P	N/P	10521	35	--	--	0	--	--	--		0	0	0
06-01-07-04-08	Thermalito Bypass (Wild)		01/30/2002	N/P	N/P	10084	35	--	--	0	--	--	--		0	0	0
06-01-07-04-09	Thermalito Bypass (Wild)		01/31/2002	N/P	N/P	10152	35	--	--	0	--	--	--		0	0	0
06-01-07-05-01	Thermalito Bypass (Wild)		02/01/2002	N/P	N/P	10040	35	--	--	0	--	--	--		0	0	0
06-01-07-05-00	Thermalito Bypass (Wild)		02/04/2002	N/P	N/P	9958	35	--	--	0	--	--	--		0	0	0
06-01-07-05-02	Thermalito Bypass (Wild)		02/04/2002	N/P	N/P	10785	35	--	--	0	--	--	--		0	0	0
06-01-07-05-03	Thermalito Bypass (Wild)		02/09/2002	N/P	N/P	10095	35	--	--	0	--	--	--		0	0	2
06-01-07-05-04	Thermalito Bypass (Wild)		02/14/2002	N/P	N/P	10670	35	--	--	0	--	--	--		0	0	0
06-01-07-05-05	Thermalito Bypass (Wild)		02/17/2002	N/P	N/P	9827	35	--	--	0	--	--	--		0	0	3
05-01-04-03-03	RBDD (CNFH)		02/19/2002	N/P	N/P	49774	52	04/10/2002	04/22/02	5	4572	0.244	0.053		12	6	49
06-01-07-04-02	Thermalito Bypass (Wild)		02/20/2002	N/P	N/P	10035	35	--	--	0	--	--	--		0	0	0
06-01-07-05-06	Thermalito Bypass (Wild)		02/21/2002	N/P	N/P	10696	35	--	--	0	--	--	--		0	0	0
06-01-07-05-07	Thermalito Bypass (Wild)		02/23/2002	N/P	N/P	11378	35	--	--	0	--	--	--		0	0	0
06-01-07-05-08	Thermalito Bypass (Wild)		02/27/2002	N/P	N/P	10141	35	--	--	0	--	--	--		0	0	0
06-01-07-05-09	Thermalito Bypass (Wild)		02/28/2002	N/P	N/P	7526	35	--	--	0	--	--	--		0	0	0

* group indices not calculated for Thermalito Bypass releases since they occurred over several days with some groups overlapping

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-01-04-03-01	RBDD (CNFH)		03/11/2002	N/P	N/P	48956	57	04/12/2002	04/27/02	9	5750	0.250	0.096		0	0	128
05-01-04-02-04	Battle Creek (CNFH)			N/P	N/P	72841	77	04/28/2002	05/11/02	36	5331	0.264	0.243		0	0	291
05-01-04-02-05	Battle Creek (CNFH)			N/P	N/P	71501	77	04/27/2002	05/20/02	22	9243	0.267	0.150		0	0	253
05-01-04-02-06	Battle Creek (CNFH)			N/P	N/P	72339	77	04/28/2002	05/11/02	37	5331	0.264	0.251		0	0	291
05-01-04-02-07	Battle Creek (CNFH)			N/P	N/P	72025	77	04/27/2002	05/09/02	35	5051	0.270	0.234		0	0	210
05-01-04-02-08	Battle Creek (CNFH)			N/P	N/P	73443	77	04/27/2002	05/07/02	23	4331	0.273	0.149		0	0	229
05-01-04-02-09	Battle Creek (CNFH)			N/P	N/P	71503	77	04/28/2002	05/09/02	27	4651	0.269	0.182		0	0	192
05-08-74	Battle Creek (CNFH)			N/P	N/P	78255	77	04/27/2002	05/09/02	31	5051	0.270	0.191		0	6	401
05-08-75	Battle Creek (CNFH)			N/P	N/P	78006	77	04/27/2002	05/11/02	28	5731	0.265	0.176		0	0	338
05-08-76	Battle Creek (CNFH)			N/P	N/P	77386	77	04/28/2002	05/12/02	25	5671	0.263	0.160		0	0	402
05-08-77	Battle Creek (CNFH)			N/P	N/P	78307	77	04/29/2002	05/15/02	35	6471	0.264	0.220		0	0	373
05-08-78	Battle Creek (CNFH)			N/P	N/P	77223	77	04/27/2002	05/27/02	52	11983	0.268	0.326		0	6	492
05-08-79	Battle Creek (CNFH)			N/P	N/P	75445	77	04/27/2002	05/16/02	32	7671	0.266	0.207		0	0	525
05-08-80	Battle Creek (CNFH)			N/P	N/P	79730	77	04/25/2002	05/08/02	36	5449	0.270	0.217		0	0	440
	Total		04/18/2002			978004		04/25/2002	05/27/02	419	12781	0.269		0.207			
05-01-04-01-05	Battle Creek (CNFH)			N/P	N/P	70661	77	05/06/2002	05/24/02	13	7312	0.267	0.089		0	0	69
05-01-04-01-06	Battle Creek (CNFH)			N/P	N/P	71289	77	05/05/2002	05/22/02	16	6892	0.266	0.110		0	0	149
05-01-04-01-07	Battle Creek (CNFH)			N/P	N/P	73430	77	05/08/2002	05/28/02	11	8052	0.266	0.073		0	0	73
05-01-04-02-01	Battle Creek (CNFH)			N/P	N/P	72064	77	05/05/2002	05/21/02	20	6492	0.265	0.136		0	0	166
05-01-04-02-02	Battle Creek (CNFH)			N/P	N/P	71246	77	05/03/2002	05/12/02	20	3719	0.258	0.141		0	0	270
05-01-04-02-03	Battle Creek (CNFH)			N/P	N/P	72468	77	05/04/2002	05/11/02	23	2977	0.258	0.160		0	0	297
05-08-81	Battle Creek (CNFH)			N/P	N/P	78898	77	05/04/2002	05/13/02	29	3717	0.258	0.185		0	0	476
05-08-82	Battle Creek (CNFH)			N/P	N/P	78815	77	05/03/2002	05/20/02	33	6891	0.266	0.205		0	0	405
05-08-83	Battle Creek (CNFH)			N/P	N/P	77728	77	05/04/2002	05/17/02	31	5309	0.263	0.197		0	0	482
05-08-84	Battle Creek (CNFH)			N/P	N/P	79138	77	05/04/2002	05/24/02	33	8089	0.267	0.203		0	0	240
05-08-85	Battle Creek (CNFH)			N/P	N/P	78259	77	05/05/2002	05/17/02	17	4912	0.262	0.108		0	0	259
05-08-86	Battle Creek (CNFH)			N/P	N/P	78641	77	05/05/2002	05/29/02	25	9432	0.262	0.158		0	0	127
05-08-87	Battle Creek (CNFH)			N/P	N/P	78349	77	05/07/2002	05/28/02	18	8452	0.267	0.112		0	0	93
	Total		04/25/2002			980986		05/03/2002	05/29/02	289	10231	0.263		0.146			
Sacramento-San Joaquin Estuary																	
06-01-07-00-04	Yolo Bypass (FRH)			N/P	N/P	23922	59	04/04/2002	04/04/02	1	400	0.278	0.020		0	0	27
06-01-07-00-05	Yolo Bypass (FRH)			N/P	N/P	25744	59	04/06/2002	04/06/02	1	400	0.278	0.018		0	0	16
	Total		02/05/2002			49666		04/04/2002	04/06/02	2	1198	0.277		0.019			
06-01-07-00-06	Elkhorn Park (FRH)			N/P	N/P	26380	54	04/05/2002	04/17/02	8	4533	0.242	0.163		0	0	52
06-01-07-00-07	Elkhorn Park (FRH)			N/P	N/P	24566	54	04/06/2002	04/10/02	2	1960	0.272	0.039		0	0	22
	Total		02/05/2002			50946		04/05/2002	04/17/02	10	4533	0.242		0.105			
05-01-04-03-04	Clarksburg (CNFH)		02/21/2002	54.5	53.6	49714	58	04/11/2002	04/13/02	2	920	0.213	0.025		0	26	29
06-01-07-06-00	Yolo Bypass (FRH)			N/P	N/P	9664	59	04/09/2002	04/09/02	1	400	0.278	0.048		0	0	14
06-01-07-06-01	Yolo Bypass (FRH)			N/P	N/P	10375	59	--	--	0	--	--	--		0	0	0
06-01-07-06-02	Yolo Bypass (FRH)			N/P	N/P	9839	59	04/04/2002	04/04/02	1	400	0.278	0.048		0	0	0
06-01-07-06-03	Yolo Bypass (FRH)			N/P	N/P	10838	59	--	--	0	--	--	--		0	0	3
06-01-07-06-04	Yolo Bypass (FRH)			N/P	N/P	8937	59	04/04/2002	04/07/02	2	1598	0.277	0.105		0	0	9
	Total		02/21/2002			49653		04/04/2002	04/09/02	4	2358	0.273		0.038			
06-01-07-06-05	Elkhorn Park (FRH)			N/P	N/P	9652	59	04/08/2002	04/08/02	1	360	0.250	0.054		0	0	27
06-01-07-06-06	Elkhorn Park (FRH)			N/P	N/P	10426	59	04/08/2002	04/08/02	1	360	0.250	0.050		0	0	4
06-01-07-06-07	Elkhorn Park (FRH)			N/P	N/P	10389	59	04/08/2002	04/10/02	2	1160	0.269	0.093		0	0	18
06-01-07-06-08	Elkhorn Park (FRH)			N/P	N/P	11192	59	05/11/2002	05/11/02	1	400	0.278	0.042		0	0	13
06-01-07-06-09	Elkhorn Park (FRH)			N/P	N/P	8751	59	04/12/2002	04/12/02	1	320	0.222	0.067		0	0	8
	Total		02/21/2002			50410		04/08/2002	05/11/02	6	12641	0.258		0.060			
06-01-07-07-00	Lighthouse Marina (FRH)			48	55	26104	62	--	--	0	--	--	--		12	18	1
06-01-07-07-01	Lighthouse Marina (FRH)			48	55	25728	62	--	--	0	--	--	--		0	12	25
	Total		02/22/2002			51832											
06-01-07-07-02	Isleton (FRH)			48	53	25462	59	04/09/2002	04/16/02	3	2577	0.224	0.068		12	0	36

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-07-07-03	Isleton (FRH)			48	53	25276	59	04/11/2002	04/22/02	4	4172	0.241	0.085		12	0	40
	Total		02/22/2002			50738		04/09/2002	04/22/02	7	4972	0.247		0.073			
05-01-04-03-02	Clarksburg (CNFH)		03/12/2002	55.4	53.6	50205	57	04/05/2002	04/25/02	11	7710	0.255	0.112		12	24	86
06-01-07-07-04	Isleton (FRH)			48	53	24138	73	04/17/2002	04/17/02	2	398	0.276	0.039		0	0	51
06-01-07-07-05	Isleton (FRH)			48	53	24319	73	04/09/2002	04/16/02	2	2577	0.224	0.048		0	0	45
	Total		03/13/2002			48457		04/09/2002	04/17/02	4	2975	0.230		0.047			
06-01-07-07-06	Lighthouse Marina (FRH)			48	53.6	26463	73	04/21/2002	04/21/02	1	397	0.276	0.018		12	12	7
06-01-07-07-07	Lighthouse Marina (FRH)			48	53.6	22337	73	04/05/2002	04/20/02	2	5733	0.249	0.047		0	6	9
	Total		03/13/2002			48800		04/05/2002	04/21/02	3	6130	0.250		0.032			
06-01-13-02-11	Woodbridge Dam (Wild)			N/P	N/P	8078	85	--	--	0	--	--	--		0	0	4
06-01-13-02-13	Woodbridge Dam (Wild)			N/P	N/P	343	85	--	--	0	--	--	--		0	0	0
	Total		03/19/2002			8421											
06-26-95	West Sacramento (FRH)		04/02/2002	50	64	44563	59	04/18/2002	05/08/02	19	8226	0.272	0.204		0	6	180
06-02-46	North Fork Mokelumne (MOK)			N/P	N/P	10826	84	--	--	0	--	--	--		12	0	19
06-02-59	North Fork Mokelumne (MOK)			N/P	N/P	10199	84	--	--	0	--	--	--		0	12	33
06-02-60	North Fork Mokelumne (MOK)			N/P	N/P	10199	84	--	--	0	--	--	--		0	12	34
06-02-61	North Fork Mokelumne (MOK)			N/P	N/P	10199	84	04/13/2002	04/13/02	1	200	0.139	0.092		12	4	25
06-48-56	North Fork Mokelumne (MOK)			N/P	N/P	9742	84	04/25/2002	04/25/02	1	400	0.278	0.048		0	0	9
	Total		04/04/2002			51165		04/13/2002	04/25/02	2	4632	0.247		0.021			
06-02-72	New Hope Landing (MOK)			N/P	N/P	50531	86	04/13/2002	05/11/02	5	10761	0.258	0.050		24	12	73
06-02-73	New Hope Landing (MOK)			N/P	N/P	49063	84	04/17/2002	04/26/02	7	3973	0.276	0.067		24	6	68
	Total		04/04/2002			99594		04/13/2002	05/11/02	12	10761	0.258		0.061			
06-26-99	Ryde (FRH)		04/04/2002	51.8	60.8	43789	74	04/22/2002	05/02/02	8	4330	0.273	0.087		0	0	90
06-27-24	Georgiana Slough (FRH)			51.8	60.8	22883	78	--	--	0	--	--	--		0	0	17
06-27-25	Georgiana Slough (FRH)			51.8	60.8	22436	78	04/26/2002	04/27/02	2	798	0.277	0.042		0	0	16
06-27-26	Georgiana Slough (FRH)			51.8	60.8	23630	78	04/27/2002	04/27/02	1	400	0.278	0.020		0	0	15
	Total		04/04/2002			68949		04/26/2002	04/27/02	3	798	0.277		0.020			
06-27-30	Georgiana Slough (FRH)		04/05/2002	53.6	60.8	44565	78	04/18/2002	05/01/02	4	5574	0.276	0.042		0	6	34
06-27-22	Jersey Point (MOK)			N/P	N/P	25661	87	04/12/2002	04/26/02	25	5350	0.248	0.511		48	48	420
06-27-23	Jersey Point (MOK)			N/P	N/P	25600	87	04/11/2002	05/03/02	34	8504	0.257	0.672		36	72	433
	Total		04/09/2002			51261		04/11/2002	05/03/02	59	8504	0.257		0.583			
06-26-97	West Sacramento (FRH)		04/17/2002	51.8	60.8	45972	89	04/24/2002	05/06/02	27	5115	0.273	0.279		0	0	277
05-51-13	North Fork Mokelumne (MOK)			N/P	N/P	22572	93	04/23/2002	04/28/02	3	2378	0.275	0.063		0	0	31
06-02-45	North Fork Mokelumne (MOK)			N/P	N/P	10168	93	04/26/2002	04/28/02	4	1198	0.277	0.184		0	0	9
06-02-62	North Fork Mokelumne (MOK)			N/P	N/P	10168	93	04/24/2002	04/27/02	3	1584	0.275	0.139		0	0	47
06-02-63	North Fork Mokelumne (MOK)			N/P	N/P	10167	93	04/25/2002	04/28/02	5	1598	0.277	0.230		24	0	29
	Total		04/18/2002			53075		04/23/2002	04/28/02	15	2378	0.275		0.133			
06-02-74	New Hope Landing (MOK)			N/P	N/P	50799	N/P	04/24/2002	05/06/02	17	5115	0.273	0.159		12	12	123
06-02-75	New Hope Landing (MOK)			N/P	N/P	51517	93	04/22/2002	05/01/02	14	3977	0.276	0.128		0	6	155
	Total		04/18/2002			102316		04/22/2002	05/06/02	31	5909	0.274		0.144			
06-26-98	Ryde (FRH)		04/18/2002	51.8	64.4	43676	83	04/22/2002	05/08/02	14	6629	0.271	0.154		0	0	188
06-27-27	Georgiana Slough (FRH)			51.8	60.8	22705	89	04/27/2002	05/08/02	4	4651	0.269	0.085		0	6	26
06-27-28	Georgiana Slough (FRH)			51.8	60.8	22714	89	04/30/2002	05/07/02	5	3132	0.272	0.105		0	6	20
06-27-29	Georgiana Slough (FRH)			51.8	60.8	22695	89	05/01/2002	05/02/02	2	753	0.261	0.044		0	0	48
	Total		04/18/2002			68114		04/27/2002	05/08/02	11	4651	0.269		0.078			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-44-71	Durham Ferry (MRFF)			54.5	59	23920	83	04/26/2002	04/28/02	4	1198	0.277	0.078		12	12	33
06-44-72	Durham Ferry (MRFF)			54.5	59	25176	83	04/27/2002	05/10/02	9	5331	0.264	0.176		60	36	96
06-44-73	Durham Ferry (MRFF)			54.5	59	23872	83	04/26/2002	05/05/02	4	3929	0.273	0.080		0	27	74
06-44-74	Durham Ferry (MRFF)			54.5	59	24747	83	04/28/2002	04/28/02	4	400	0.278	0.076		24	36	67
	Total		04/18/2002			97715		04/26/2002	05/10/02	21	5729	0.265		0.105			
06-44-57	Mossdale (MRFF)			55.4	57.2	25515	84	04/29/2002	05/06/02	6	3131	0.272	0.112		24	90	76
06-44-58	Mossdale (MRFF)			55.4	51.8	25272	82	04/26/2002	05/02/02	7	2750	0.273	0.132		72	48	69
	Total		04/19/2002			50787		04/26/2002	05/06/02	13	4329	0.273		0.122			
06-44-59	Jersey Point (MRFF)			59	64.4	24802	85	04/24/2002	05/03/02	46	3938	0.273	0.882		0	12	496
06-44-60	Jersey Point (MRFF)			59	64.4	24128	83	04/24/2002	05/13/02	37	7655	0.266	0.750		24	12	457
	Total		04/22/2002			48930		04/24/2002	05/13/02	83	7655	0.266		0.830			
06-44-53	Jersey Point (MOK)			N/P	N/P	25500	96	04/24/2002	05/04/02	64	4335	0.274	1.192		0	0	741
06-58-63	Jersey Point (MOK)			N/P	N/P	25245	96	04/24/2002	05/06/02	61	5115	0.273	1.150		12	6	566
	Total		04/23/2002			50745		04/24/2002	05/06/02	125	5115	0.273		1.172			
06-44-70	Durham Ferry (MRFF)			60.8	62.6	24680	80	05/03/2002	05/05/02	3	1179	0.273	0.058		36	6	23
06-44-75	Durham Ferry (MRFF)			60.8	62.6	24659	80	05/03/2002	05/10/02	5	2979	0.259	0.102		0	24	21
06-44-76	Durham Ferry (MRFF)			60.8	62.6	24783	80	05/03/2002	05/07/02	3	1979	0.275	0.057		24	25	7
06-44-77	Durham Ferry (MRFF)			60.8	62.6	24381	80	05/02/2002	05/05/02	4	1532	0.266	0.080		24	36	6
	Total		04/25/2002			98503		05/02/2002	05/10/02	15	3332	0.257		0.077			
06-26-96	Port Chicago (FRH)		04/26/2002	55.4	60.8	44789	95	04/27/2002	05/02/02	14	--	--	**		0	0	275
06-44-78	Mossdale (MRFF)			55.4	63.5	24519	79	05/05/2002	05/07/02	2	1180	0.273	0.039		12	93	26
06-44-79	Mossdale (MRFF)			55.4	63.5	24820	81	05/05/2002	05/15/02	3	4120	0.260	0.060		0	24	14
	Total		04/26/2002			49339		05/05/2002	05/15/02	5	4120	0.260		0.051			
06-44-80	Jersey Point (MRFF)			52.7	63.5	24032	82	05/01/2002	05/19/02	18	7264	0.265	0.367		0	0	307
06-44-81	Jersey Point (MRFF)			52.7	63.5	22880	82	05/02/2002	05/07/02	28	2332	0.270	0.589		0	0	290
	Total		04/30/2002			46912		05/01/2002	05/19/02	46	7264	0.265		0.480			

** Survival not calculated for releases downstream of Chipps Island

Upper San Joaquin River and Tributaries

06-44-63	Merced River FF (MRFF)			N/P	N/P	23188	74	04/11/2002	04/11/02	1	400	0.278	0.020		12	6	0
06-44-64	Merced River FF (MRFF)			N/P	N/P	23915	74	--	--	0	--	--	--		0	0	0
06-44-65	Merced River FF (MRFF)			N/P	N/P	23775	74	--	--	0	--	--	--		0	0	0
06-44-66	Merced River FF (MRFF)			N/P	N/P	23185	74	--	--	0	--	--	--		0	0	0
	Total		03/31/2002			94063		04/11/2002	04/11/02	1	400	0.278		0.005			
06-44-51	Hatfield State Park (MRFF)			53.6	62.6	24380	77	04/07/2002	04/11/02	2	1960	0.272	0.039		480	47	0
06-44-52	Hatfield State Park (MRFF)			53.6	62.6	24228	77	04/12/2002	04/12/02	1	320	0.222	0.024		492	34	16
06-45-48	Hatfield State Park (MRFF)			53.6	62.6	24890	77	04/12/2002	04/14/02	3	777	0.180	0.087		528	55	6
	Total		04/03/2002			73498		04/07/2002	04/14/02	6	2737	0.238		0.045			
06-44-62	Grayson (MRFF)		04/03/2002	N/P	N/P	15434	90	05/11/2002	05/11/02	1	400	0.278	0.030		12	0	5
06-44-82	Merced River FF (MRFF)			N/P	N/P	22522	71	--	--	0	--	--	--		0	0	0
06-44-83	Merced River FF (MRFF)			N/P	N/P	23086	71	--	--	0	--	--	--		0	0	0
06-44-84	Merced River FF (MRFF)			N/P	N/P	23140	71	--	--	0	--	--	--		0	0	4
06-44-85	Merced River FF (MRFF)			N/P	N/P	22183	71	--	--	0	--	--	--		0	0	0
	Total		04/21/2002			90931											
06-44-06	La Grange (MRFF)			57.2	53.6	24976	86	05/05/2002	05/05/02	1	380	0.264	0.020		12	12	32
06-44-67	La Grange (MRFF)			57.2	53.6	24813	86	05/03/2002	05/11/02	7	3379	0.261	0.141		0	12	18
06-44-68	La Grange (MRFF)			57.2	53.6	25220	86	--	--	0	--	--	--		12	18	21
	Total		04/24/2002			75009		05/03/2002	05/11/02	8	3379	0.261		0.053			
06-44-86	Hatfield State Park (MRFF)			53.6	60.8	23349	73	05/09/2002	05/11/02	2	1080	0.250	0.045		12	6	7

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-44-87	Hatfield State Park (MRFF)			53.6	60.8	23363	73	--	--	0	--	--	--		0	12	4
06-44-88	Hatfield State Park (MRFF)			53.6	60.8	23639	73	05/09/2002	05/09/02	1	400	0.278	0.020		0	9	3
	Total		04/26/2002			70351		05/09/2002	05/11/02	3	1080	0.250		0.022			
06-44-61	Old Fisherman's Club - SJ River (MRFF)		04/26/2002	55.4	62	25701	85	05/03/2002	05/05/02	6	1179	0.273	0.111		0	6	14
06-44-69	Old Fisherman's Club - SJ River (MRFF)		04/29/2002	55.4	60.8	23870	86	05/05/2002	05/08/02	3	1500	0.260	0.063		12	15	11
06-44-46	Knight's Ferry (MRFF)			56.3	53.6	23745	82	05/11/2002	05/12/02	2	740	0.257	0.043		12	0	4
06-44-47	Knight's Ferry (MRFF)			53.6	52.7	24236	83	05/10/2002	05/10/02	2	280	0.194	0.055		0	6	18
	Total		05/01/2002			47981		05/10/2002	05/12/02	4	1020	0.236		0.046			
06-44-48	Two Rivers (MRFF)		05/04/2002	59	64.4	24646	84	05/12/2002	05/12/02	1	340	0.236	0.022		0	0	0
2001																	
2001 (sampling period: 8/8/00 - 7/31/01)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-03-97	Battle Creek (CNFH)		11/03/2000	N/P	N/P	58050	113	12/11/2000	01/21/01	6	3055	0.051	0.266		24	12	44
05-03-98	Battle Creek (CNFH)		12/08/2000	N/P	N/P	54568	119	--	--	0	--	--	--		12	31	177
05-04-65	Battle Creek (CNFH)			N/P	N/P	56146	133	01/19/2001	03/02/01	7	6045	0.098	0.166		24	48	228
05-04-66	Battle Creek (CNFH)			N/P	N/P	70032	125	01/19/2001	02/23/01	17	5525	0.107	0.296		12	85	273
05-04-67	Battle Creek (CNFH)			N/P	N/P	62127	128	01/17/2001	01/28/01	8	2185	0.126	0.132		24	54	161
05-04-68	Battle Creek (CNFH)			N/P	N/P	62578	127	01/17/2001	02/15/01	10	5125	0.119	0.175		48	39	207
05-04-69	Battle Creek (CNFH)			N/P	N/P	50942	138	01/17/2001	01/23/01	3	1195	0.119	0.065		24	49	172
05-04-70	Battle Creek (CNFH)			N/P	N/P	63600	122	01/21/2001	02/26/01	8	5320	0.100	0.164		0	24	99
	Total		01/02/2001			365425		01/17/2001	03/02/01	53	6245	0.096		0.196			
05-03-99	Battle Creek (CNFH)		01/09/2001	N/P	N/P	65284	129	01/20/2001	02/23/01	11	5320	0.106	0.208		24	49	340
Sacramento-San Joaquin Estuary																	
05-04-82	Walnut Grove (CNFH)		11/13/2000	47	54	27758	105	11/24/2000	01/24/01	4	4455	0.050	0.375		0	21	72
05-04-80	Walnut Grove (CNFH)		11/14/2000	47	52	29021	132	11/27/2000	03/07/01	2	9425	0.065	0.138		12	22	83
05-04-81	Walnut Grove (CNFH)		11/20/2000	55	52	25941	117	11/27/2000	11/27/00	2	200	0.139	0.072		0	18	43
05-04-79	Walnut Grove (CNFH)		11/21/2000	50	52	27153	106	--	--	0	--	--	--		0	24	42
05-51-37	Walnut Grove (CNFH)		01/20/2001	55	47	64363	125	01/26/2001	03/02/01	8	4650	0.090	0.180		24	61	108
05-41-10	Sutter Slough (CNFH)		01/21/2001	52	48	46454	135	02/01/2001	03/12/01	4	4220	0.073	0.153		0	22	120
05-51-29	Steamboat Slough (CNFH)		01/22/2001	55	48	45640	135	01/30/2001	01/30/01	1	160	0.111	0.026		0	18	49
Upper San Joaquin River and Tributaries																	
05-04-92	Old River (CNFH)		12/13/2000	N/P	N/P	300	176	--	--	0	--	--	--		12	18	0
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-03-01-07	Caldwell Park (LSNFH)			N/P	N/P	8023	75	--	--	0	--	--	--		0	6	12
05-01-03-01-08	Caldwell Park (LSNFH)			N/P	N/P	5284	79	--	--	0	--	--	--		0	0	4
05-01-03-01-09	Caldwell Park (LSNFH)			N/P	N/P	5550	70	--	--	0	--	--	--		0	0	0
05-01-03-02-01	Caldwell Park (LSNFH)			N/P	N/P	5429	68	03/09/2001	03/09/01	1	200	0.139	0.172		0	0	3
05-01-03-02-02	Caldwell Park (LSNFH)			N/P	N/P	5241	75	--	--	0	--	--	--		0	0	3
05-01-03-02-03	Caldwell Park (LSNFH)			N/P	N/P	6403	79	--	--	0	--	--	--		0	0	0
05-01-03-02-04	Caldwell Park (LSNFH)			N/P	N/P	5586	78	--	--	0	--	--	--		0	0	4
05-01-03-02-05	Caldwell Park (LSNFH)			N/P	N/P	6166	75	--	--	0	--	--	--		0	0	0
05-01-03-02-06	Caldwell Park (LSNFH)			N/P	N/P	6901	72	--	--	0	--	--	--		0	0	5
05-01-03-02-07	Caldwell Park (LSNFH)			N/P	N/P	6013	75	--	--	0	--	--	--		0	0	4

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-01-03-02-08	Caldwell Park (LSNFH)			N/P	N/P	5381	71	--	--	0	--	--	--		0	0	0
05-01-03-02-09	Caldwell Park (LSNFH)			N/P	N/P	5634	67	--	--	0	--	--	--		0	0	0
05-01-03-03-01	Caldwell Park (LSNFH)			N/P	N/P	5500	75	--	--	0	--	--	--		0	0	11
05-01-03-03-02	Caldwell Park (LSNFH)			N/P	N/P	5747	70	03/30/2001	03/30/01	1	200	0.139	0.163		0	0	4
05-01-03-03-03	Caldwell Park (LSNFH)			N/P	N/P	5966	70	--	--	0	--	--	--		0	0	5
05-01-03-03-04	Caldwell Park (LSNFH)			N/P	N/P	5829	72	--	--	0	--	--	--		0	0	0
05-01-03-03-05	Caldwell Park (LSNFH)			N/P	N/P	5333	66	--	--	0	--	--	--		0	0	8
05-01-03-03-06	Caldwell Park (LSNFH)			N/P	N/P	5325	77	03/21/2001	03/21/01	1	200	0.139	0.176		0	0	4
05-01-03-03-07	Caldwell Park (LSNFH)			N/P	N/P	5007	78	--	--	0	--	--	--		0	0	4
05-01-03-03-08	Caldwell Park (LSNFH)			N/P	N/P	5268	69	--	--	0	--	--	--		0	0	0
05-01-03-03-09	Caldwell Park (LSNFH)			N/P	N/P	4798	80	--	--	0	--	--	--		0	0	7
05-01-03-04-01	Caldwell Park (LSNFH)			N/P	N/P	5126	74	03/16/2001	04/02/01	2	1585	0.061	0.830		0	0	0
05-01-03-04-02	Caldwell Park (LSNFH)			N/P	N/P	4826	80	03/12/2001	03/12/01	1	200	0.139	0.194		0	6	6
05-01-03-04-03	Caldwell Park (LSNFH)			N/P	N/P	5319	80	--	--	0	--	--	--		0	0	8
05-01-03-04-04	Caldwell Park (LSNFH)			N/P	N/P	4439	81	--	--	0	--	--	--		0	0	0
05-01-03-04-05	Caldwell Park (LSNFH)			N/P	N/P	5435	75	--	--	0	--	--	--		0	0	0
05-01-03-04-06	Caldwell Park (LSNFH)			N/P	N/P	4763	80	04/04/2001	04/04/01	1	200	0.139	0.197		0	0	0
05-01-03-04-07	Caldwell Park (LSNFH)			N/P	N/P	4603	75	--	--	0	--	--	--		0	0	4
05-01-03-04-08	Caldwell Park (LSNFH)			N/P	N/P	4666	74	--	--	0	--	--	--		0	0	0
05-01-03-04-09	Caldwell Park (LSNFH)			N/P	N/P	2637	79	03/12/2001	03/12/01	1	200	0.139	0.355		0	0	0
	Total		02/01/2001			162198		03/09/2001	04/04/01	8	2385	0.061		0.105			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-12-03-15	Butte Creek (Wild)		12/18/2000	N/P	N/P	1266	35	-	-	0	-	-	-		0	0	0
06-01-12-04-02	Butte Creek (Wild)			N/P	N/P	12990	35	-	-	0	-	-	-		0	0	11
06-01-12-04-03	Butte Creek (Wild)			N/P	N/P	12383	35	-	-	0	-	-	-		0	0	0
06-01-12-04-04	Butte Creek (Wild)			N/P	N/P	11114	35	04/22/2001	04/22/01	1	200	0.139	0.084		0	0	4
	Total		01/16/2001			36487		04/22/2001	04/22/01	1	200	0.139		0.026			
06-01-12-04-05	Butte Creek (Wild)			N/P	N/P	10568	35	05/11/2001	05/11/01	1	398	0.276	0.045		0	0	0
06-01-12-04-06	Butte Creek (Wild)			N/P	N/P	10646	35	-	-	0	-	-	-		0	0	3
06-01-12-04-07	Butte Creek (Wild)			N/P	N/P	8957	35	-	-	0	-	-	-		0	0	0
	Total		01/26/2001			30171		05/11/2001	05/11/01	1	398	0.276		0.016			
06-01-00-02-00	Butte Creek (Wild)			N/P	N/P	8365	36	-	-	0	-	-	-		0	0	0
06-01-00-02-02	Butte Creek (Wild)			N/P	N/P	13505	35	-	-	0	-	-	-		0	0	4
06-01-12-04-08	Butte Creek (Wild)			N/P	N/P	12343	35	-	-	0	-	-	-		0	0	4
	Total		01/29/2001			34213											
06-01-00-02-03	Butte Creek (Wild)			N/P	N/P	2457	35	-	-	0	-	-	-		0	0	0
06-01-00-02-04	Butte Creek (Wild)			N/P	N/P	1452	35	-	-	0	-	-	-		0	0	0
	Total		02/07/2001			3909											
06-01-00-02-05	Butte Creek (Wild)		02/21/2001	N/P	N/P	5962	35	-	-	0	-	-	-		0	0	3
06-01-00-00-00	Butte Creek (Wild)		02/22/2001	N/P	N/P	5092	36	-	-	0	-	-	-		0	0	2
06-01-00-00-01	Butte Creek (Wild)		03/08/2001	N/P	N/P	7871	35	-	-	0	-	-	-		0	0	0
06-01-00-00-02	Butte Creek (Wild)		03/16/2001	N/P	N/P	8042	36	-	-	0	-	-	-		0	0	0
06-01-00-00-03	Butte Creek (Wild)		04/02/2001	N/P	N/P	8708	36	-	-	0	-	-	-		0	0	0
06-01-00-00-04	Butte Creek (Wild)		04/10/2001	N/P	N/P	9052	36	-	-	0	-	-	-		0	0	0
06-01-00-00-05	Butte Creek (Wild)		04/20/2001	N/P	N/P	8432	38	-	-	0	-	-	-		0	0	0
06-01-00-00-06	Butte Creek (Wild)		04/30/2001	N/P	N/P	7365	59	-	-	0	-	-	-		0	0	0
Fall run releases																	

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
Upper Sacramento River and Tributaries *																	
06-01-06-11-13	Thermalito Bypass (Wild)		01/05/2001	N/P	N/P	12929	35	-	-	0	-	-	-		0	0	7
06-01-06-11-14	Thermalito Bypass (Wild)		01/06/2001	N/P	N/P	12427	35	-	-	0	-	-	-		0	0	0
06-01-06-11-15	Thermalito Bypass (Wild)		01/10/2001	N/P	N/P	12243	35	-	-	0	-	-	-		0	0	3
06-01-06-12-01	Thermalito Bypass (Wild)		01/17/2001	N/P	N/P	10964	35	04/23/2001	04/23/01	1	200	0.139	0.085		0	0	0
06-01-06-12-02	Thermalito Bypass (Wild)		01/17/2001	N/P	N/P	12992	35	-	-	0	-	-	-		0	0	0
06-01-06-12-03	Thermalito Bypass (Wild)		01/22/2001	N/P	N/P	12915	35	-	-	0	-	-	-		0	0	0
06-01-06-12-04	Thermalito Bypass (Wild)		01/27/2001	N/P	N/P	11453	35	-	-	0	-	-	-		0	0	6
06-01-06-12-05	Thermalito Bypass (Wild)		01/28/2001	N/P	N/P	12763	35	-	-	0	-	-	-		0	0	2
06-01-07-01-01	Thermalito Bypass (Wild)		02/03/2001	N/P	N/P	10153	35	-	-	0	-	-	-		0	0	0
06-01-07-01-02	Thermalito Bypass (Wild)		02/03/2001	N/P	N/P	9399	35	-	-	0	-	-	-		0	0	6
06-01-07-01-05	Thermalito Bypass (Wild)		02/08/2001	N/P	N/P	10097	35	-	-	0	-	-	-		0	0	0
06-01-07-01-03	Thermalito Bypass (Wild)		02/09/2001	N/P	N/P	10538	35	05/10/2001	05/10/01	1	400	0.278	0.044		0	0	0
06-01-07-01-04	Thermalito Bypass (Wild)		02/13/2001	N/P	N/P	10077	35	-	-	0	-	-	-		0	0	0
06-01-07-01-07	Thermalito Bypass (Wild)		02/15/2001	N/P	N/P	9994	35	05/10/2001	05/10/01	1	400	0.278	0.047		0	0	3
05-01-03-05-02	RBDD (CNFH)		02/16/2001	N/P	N/P	44594	46	04/25/2001	04/25/01	1	200	0.139	0.021		0	9	44
06-01-07-01-08	Thermalito Bypass (Wild)		02/16/2001	N/P	N/P	10169	35	05/07/2001	05/07/01	1	400	0.278	0.046		0	0	0
06-01-07-01-09	Thermalito Bypass (Wild)		02/20/2001	N/P	N/P	10003	35	04/30/2001	04/30/01	1	200	0.139	0.094		0	0	0
06-01-07-01-00	Thermalito Bypass (Wild)		02/22/2001	N/P	N/P	10122	35	-	-	0	-	-	-		0	0	0
06-01-07-00-08	Thermalito Bypass (Wild)		02/26/2001	N/P	N/P	10039	35	-	-	0	-	-	-		0	0	0
* group indices not calculated for Thermalito Bypass releases since they occurred over several days with some groups overlapping																	
06-01-06-12-06	Live Oak (Wild)			N/P	N/P	26077	63	-	-	0	-	-	-		0	0	23
06-01-06-12-07	Live Oak (Wild)			N/P	N/P	25679	63	-	-	0	-	-	-		0	0	25
06-01-06-12-08	Live Oak (Wild)			N/P	N/P	26280	63	03/12/2001	03/14/01	2	400	0.093	0.107		0	0	18
06-01-06-12-09	Live Oak (Wild)			N/P	N/P	25947	63	03/12/2001	04/22/01	4	4265	0.071	0.284		0	12	23
06-01-06-12-10	Live Oak (Wild)			N/P	N/P	27042	63	03/07/2001	03/07/01	1	200	0.139	0.035		0	6	13
06-01-06-12-11	Live Oak (Wild)			N/P	N/P	25574	63	04/25/2001	04/25/01	1	200	0.139	0.037		0	21	11
06-01-06-12-12	Live Oak (Wild)			N/P	N/P	25464	63	-	-	0	-	-	-		0	12	21
06-01-06-12-13	Live Oak (Wild)			N/P	N/P	26921	63	04/18/2001	04/18/01	1	200	0.139	0.035		0	6	31
	Total		02/26/2001			208984		03/07/2001	04/25/01	9	5265	0.073		0.077			
05-01-03-05-01	RBDD (CNFH)		03/05/2001	N/P	N/P	46413	49	04/18/2001	04/28/01	7	2080	0.131	0.149		0	0	127

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05-01-03-05-03	Battle Creek (CNFH)			N/P	N/P	57896	75	04/25/2001	05/13/01	10	5660	0.207	0.109		0	0	137
05-01-03-05-04	Battle Creek (CNFH)			N/P	N/P	62298	76	04/24/2001	05/10/01	21	4662	0.190	0.230		0	0	308
05-01-03-05-05	Battle Creek (CNFH)			N/P	N/P	61379	75	04/25/2001	05/11/01	14	4860	0.199	0.149		0	0	226
05-01-03-05-06	Battle Creek (CNFH)			N/P	N/P	62634	73	04/23/2001	05/10/01	18	4862	0.188	0.199		0	0	193
05-01-03-05-07	Battle Creek (CNFH)			N/P	N/P	59109	73	04/27/2001	05/10/01	10	4182	0.207	0.106		0	0	187
05-01-03-05-08	Battle Creek (CNFH)			N/P	N/P	59872	73	04/25/2001	05/07/01	10	3268	0.175	0.124		12	0	170
05-01-03-05-09	Battle Creek (CNFH)			N/P	N/P	58197	70	04/27/2001	05/08/01	7	3387	0.196	0.080		0	0	144
05-01-03-06-01	Battle Creek (CNFH)			N/P	N/P	58049	70	04/29/2001	05/11/01	13	4180	0.223	0.130		0	0	114
05-04-97	Battle Creek (CNFH)			N/P	N/P	65292	72	04/24/2001	05/09/01	11	4262	0.185	0.118		0	0	267
05-04-98	Battle Creek (CNFH)			N/P	N/P	65398	70	04/25/2001	05/12/01	12	5260	0.203	0.118		0	0	222
05-04-99	Battle Creek (CNFH)			N/P	N/P	62112	75	04/25/2001	05/10/01	15	4462	0.194	0.162		0	0	408
05-05-64	Battle Creek (CNFH)			N/P	N/P	58822	73	04/24/2001	05/10/01	14	4662	0.190	0.162		0	0	258
05-05-67	Battle Creek (CNFH)			N/P	N/P	62425	74	04/27/2001	05/11/01	14	4580	0.212	0.138		0	0	216
05-05-69	Battle Creek (CNFH)			N/P	N/P	65355	72	04/25/2001	05/10/01	17	4462	0.194	0.175		0	0	196
	Total		04/13/2001			858838		04/23/2001	05/13/01	186	6060	0.200		0.140			
05-01-03-06-02	Battle Creek (CNFH)			N/P	N/P	61071	77	05/09/2001	05/14/01	19	2393	0.277	0.146		0	6	227
05-01-03-06-03	Battle Creek (CNFH)			N/P	N/P	61754	75	05/10/2001	05/16/01	16	2798	0.278	0.121		0	0	224
05-01-03-06-04	Battle Creek (CNFH)			N/P	N/P	62325	76	05/07/2001	05/18/01	17	4792	0.277	0.128		0	0	202
05-01-03-06-05	Battle Creek (CNFH)			N/P	N/P	61099	74	05/10/2001	05/30/01	15	8011	0.265	0.120		0	6	124
05-01-03-06-06	Battle Creek (CNFH)			N/P	N/P	63265	72	05/09/2001	05/28/01	14	7606	0.264	0.109		0	0	124
05-01-03-06-07	Battle Creek (CNFH)			N/P	N/P	62573	70	05/10/2001	05/22/01	12	5198	0.278	0.090		0	0	66
05-01-03-06-08	Battle Creek (CNFH)			N/P	N/P	62485	70	05/10/2001	05/28/01	8	7211	0.264	0.063		0	0	127
05-05-65	Battle Creek (CNFH)			N/P	N/P	64185	71	05/08/2001	05/18/01	9	4392	0.277	0.066		0	0	153
05-05-66	Battle Creek (CNFH)			N/P	N/P	64479	76	05/07/2001	05/23/01	17	6645	0.271	0.126		0	0	261
05-05-68	Battle Creek (CNFH)			N/P	N/P	65319	71	05/08/2001	05/22/01	17	5992	0.277	0.122		0	0	100
05-05-70	Battle Creek (CNFH)			N/P	N/P	64981	76	05/07/2001	05/15/01	21	3592	0.277	0.152		0	0	331
05-05-71	Battle Creek (CNFH)			N/P	N/P	65463	76	05/07/2001	05/14/01	23	3192	0.277	0.165		0	0	270
05-05-72	Battle Creek (CNFH)			N/P	N/P	65502	74	05/08/2001	05/22/01	16	5992	0.277	0.114		0	0	195
05-05-73	Battle Creek (CNFH)			N/P	N/P	64110	69	05/08/2001	05/21/01	13	5592	0.277	0.095		0	0	77
	Total		04/27/2001			888611		05/07/2001	05/30/01	217	9205	0.266		0.119			
06-27-10	Feather River Hatchery (FRH)			N/P	N/P	20258	91	05/10/2001	05/14/01	8	1998	0.278	0.185		0	0	50
06-27-11	Feather River Hatchery (FRH)			N/P	N/P	20398	91	05/10/2001	05/18/01	10	3598	0.278	0.230		0	0	59
06-27-12	Feather River Hatchery (FRH)			N/P	N/P	19810	91	05/10/2001	05/11/01	6	798	0.277	0.142		0	0	89
06-27-13	Feather River Hatchery (FRH)			N/P	N/P	20129	91	05/10/2001	05/20/01	3	4398	0.278	0.070		0	0	58
	Total		05/03/2001			80595		05/10/2001	05/20/01	27	4398	0.278		0.157			
Sacramento-San Joaquin Estuary																	
06-02-57	New Hope Landing (MOK)			N/P	N/P	51076	189	10/02/2000	10/02/00	1	200	0.139	0.018		12	84	727
06-02-58	New Hope Landing (MOK)			N/P	N/P	52091	189	10/06/2000	10/06/00	1	200	0.139	0.018		60	30	655
	Total		09/14/2000			103167		10/02/2000	10/06/00	2	500	0.069		0.036			
06-01-13-02-08	Woodbridge Dam (Wild)		01/15/2001	N/P	N/P	2798	43	-	-	0	-	-	-		0	0	3
06-01-13-02-09	Woodbridge Dam (Wild)		02/07/2001	N/P	N/P	329	44	-	-	0	-	-	-		0	0	3
06-01-07-02-00	Yolo Bypass (FRH)			52	48	9419	63	-	-	0	-	-	-		0	0	0
06-01-07-02-01	Yolo Bypass (FRH)			52	48	9732	63	-	-	0	-	-	-		0	0	0
06-01-07-02-02	Yolo Bypass (FRH)			52	48	9448	63	-	-	0	-	-	-		0	0	4
06-01-07-02-03	Yolo Bypass (FRH)			52	48	9526	63	-	-	0	-	-	-		0	0	3
06-01-07-02-04	Yolo Bypass (FRH)			52	48	9166	63	-	-	0	-	-	-		0	0	0
	Total		02/15/2001			47291											
06-01-07-02-05	Elkhorn Park (FRH)			52	48	9149	63	03/19/2001	03/19/01	1	185	0.128	0.111		0	0	0
06-01-07-02-06	Elkhorn Park (FRH)			52	48	9507	63	03/19/2001	03/19/01	1	185	0.128	0.106		0	0	0
06-01-07-02-07	Elkhorn Park (FRH)			52	48	9508	63	-	-	0	-	-	-		0	0	7
06-01-07-02-08	Elkhorn Park (FRH)			52	48	9359	63	-	-	0	-	-	-		0	0	0
06-01-07-02-09	Elkhorn Park (FRH)			52	48	9000	63	-	-	0	-	-	-		0	0	0
	Total		02/15/2001			46523		03/19/2001	03/19/01	2	185	0.128		0.044			
05-01-03-01-05	Clarksburg (CNFH)		02/26/2001	N/P	N/P	49447	45	-	-	0	-	-	-		0	30	27

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-07-03-00	Elkhorn Park (FRH)			48	50	10241	59	03/14/2001	03/14/01	1	200	0.139	0.091		0	0	3
06-01-07-03-01	Elkhorn Park (FRH)			48	50	9915	59	-	-	0	-	-	-		0	0	0
06-01-07-03-02	Elkhorn Park (FRH)			48	50	9806	59	03/14/2001	03/14/01	1	200	0.139	0.095		0	6	5
06-01-07-03-03	Elkhorn Park (FRH)			48	50	9745	59	-	-	0	-	-	-		0	0	0
06-01-07-03-04	Elkhorn Park (FRH)			48	50	9544	59	-	-	0	-	-	-		0	0	0
	Total		02/27/2001			49251		03/14/2001	03/14/01	2	200	0.139		0.038			
06-01-07-03-05	Yolo Bypass (FRH)			48	51	10179	59	-	-	0	-	-	-		0	0	4
06-01-07-03-06	Yolo Bypass (FRH)			48	51	9134	59	-	-	0	-	-	-		0	0	11
06-01-07-03-07	Yolo Bypass (FRH)			48	51	10141	59	-	-	0	-	-	-		0	0	6
06-01-07-03-08	Yolo Bypass (FRH)			48	51	8921	59	-	-	0	-	-	-		0	0	10
06-01-07-03-09	Yolo Bypass (FRH)			48	51	9884	59	-	-	0	-	-	-		0	0	0
	Total		02/27/2001			48259											
06-01-07-00-00	Isleton (FRH)			57	59	24556	56	03/14/2001	04/23/01	3	4265	0.072	0.220		0	9	7
06-01-07-00-01	Isleton (FRH)			57	59	21924	56	-	-	0	-	-	-		0	0	4
	Total		03/02/2001			46480		03/14/2001	04/23/01	3	4265	0.072		0.116			
06-01-07-00-02	Lighthouse Marina (FRH)			57	57	23271	60	-	-	0	-	-	-		0	3	11
06-01-07-00-03	Lighthouse Marina (FRH)			57	57	22919	60	-	-	0	-	-	-		0	6	4
	Total		03/02/2001			46190											
05-01-02-15-15	Clarksburg (CNFH)		03/08/2001	57	53	46944	46	03/12/2001	04/22/01	2	4265	0.071	0.079		0	24	37
06-27-14	West Sacramento (MOK)			55	64	25795	81	04/22/2001	05/08/01	24	4267	0.174	0.694		0	0	294
06-27-15	West Sacramento (MOK)			55	64	25795	81	04/21/2001	05/06/01	25	3668	0.159	0.791		0	0	309
	Total		04/16/2001			51590		04/21/2001	05/08/01	49	4467	0.172		0.716			
06-02-64	New Hope Landing (MOK)			52	61	51174	82	04/27/2001	05/05/01	11	2188	0.169	0.166		0	0	131
06-02-65	New Hope Landing (MOK)			52	61	52382	82	04/27/2001	05/07/01	5	2988	0.189	0.066		0	0	119
	Total		04/17/2001			103556		04/27/2001	05/07/01	16	2988	0.189		0.106			
06-02-66	South Fork Mokelumne (MOK)			53	61	50964	81	04/27/2001	05/10/01	10	4182	0.207	0.123		0	0	145
06-02-67	South Fork Mokelumne (MOK)			53	61	51875	81	04/27/2001	05/07/01	6	2988	0.189	0.080		0	0	91
	Total		04/19/2001			102839		04/27/2001	05/10/01	16	4182	0.207		0.098			
06-02-68	North Fork Mokelumne (MOK)			53	61	50804	81	04/27/2001	05/09/01	13	3782	0.202	0.165		0	0	190
06-02-69	North Fork Mokelumne (MOK)			53	61	50978	81	04/26/2001	05/07/01	15	3068	0.178	0.215		0	0	168
	Total		04/19/2001			101782		04/26/2001	05/09/01	28	3862	0.192		0.187			
06-02-70	Jersey Point (MOK)			N/P	65	51207	86	04/27/2001	05/10/01	39	4182	0.207	0.477		0	0	736
06-02-71	Jersey Point (MOK)			N/P	65	51746	86	04/27/2001	05/10/01	49	4182	0.207	0.593		0	6	742
	Total		04/24/2001			102953		04/27/2001	05/10/01	88	4182	0.207		0.536			
06-27-16	West Sacramento (MOK)			54	66	25757	78	04/29/2001	04/29/01	1	200	0.139	0.036		0	0	391
06-27-17	West Sacramento (MOK)			54	66	25757	78	-	-	0	-	-	-		0	0	337
	Total		04/26/2001			51514		04/29/2001	04/29/01	1	200	0.139		0.018			
06-27-06	Benicia (MOK)			54	63	25760	80	05/01/2001	05/11/01	12	-	-	**		0	0	160
06-27-07	Benicia (MOK)			54	63	25760	80	05/01/2001	05/20/01	18	-	-	**		0	0	159
	Total		04/27/2001			51520		05/01/2001	05/20/01	30	-	-		**			

** Survival not calculated for releases downstream of Chipps Island

06-44-29	Durham Ferry (MRFF)			58	71	23351	89	05/06/2001	05/10/01	14	1994	0.277	0.281		12	0	96
06-44-30	Durham Ferry (MRFF)			58	71	22720	89	05/05/2001	05/11/01	22	2782	0.276	0.456		24	0	158
06-44-31	Durham Ferry (MRFF)			58	71	22376	89	05/05/2001	05/10/01	17	2384	0.276	0.358		48	0	112
	Total		04/30/2001			68447		05/05/2001	05/11/01	53	2782	0.276		0.365			
06-44-32	Mossdale (MRFF)			59	67	23022	91	05/07/2001	05/12/01	17	2392	0.277	0.347		24	12	123
06-44-33	Mossdale (MRFF)			59	67	22191	91	05/05/2001	05/11/01	14	2782	0.276	0.297		12	0	106

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		05/01/2001			45213		05/05/2001	05/12/01	31	3182	0.276		0.323			
06-44-34	Jersey Point (MRFF)			59	68	24444	88	05/05/2001	05/11/01	50	2782	0.276	0.964		0	0	472
06-44-35	Jersey Point (MRFF)			59	68	24993	88	05/05/2001	05/11/01	61	2782	0.276	1.150		0	0	559
	Total		05/04/2001			49437		05/05/2001	05/11/01	111	2782	0.276		1.058			
06-44-36	Durham Ferry (MRFF)			58	66	24029	85	05/13/2001	05/15/01	2	1200	0.278	0.039		12	9	17
06-44-37 *	Durham Ferry (MRFF)			58	66	23907	85	05/12/2001	05/17/01	4	2400	0.278	0.078		0	0	47
06-44-38	Durham Ferry (MRFF)			58	66	24054	85	05/14/2001	05/20/01	2	2800	0.278	0.039		12	6	28
	Total		05/07/2001			71990		05/12/2001	05/20/01	8	3600	0.278		0.052			

* For tag code, 06-44-37, the first day of recovery was 5/9/01, but this was possibly due to a processing error in the lab. Therefore, it was omitted from these calculations.

06-44-39	Mossdale (MRFF)			60	70	23882	90	05/13/2001	05/16/01	4	1600	0.278	0.078		12	0	25
06-44-40	Mossdale (MRFF)			60	70	25310	88	05/14/2001	05/18/01	4	2000	0.278	0.074		12	12	27
	Total		05/08/2001			49192		05/13/2001	05/18/01	8	2400	0.278		0.076			
06-27-08	West Sacramento (MOK)			54	72	25872	85	05/13/2001	05/17/01	6	2000	0.278	0.109		0	0	86
06-27-09	West Sacramento (MOK)			54	72	25872	85	05/12/2001	05/16/01	8	2000	0.278	0.145		0	0	83
	Total		05/09/2001			51744		05/12/2001	05/17/01	14	2400	0.278		0.127			
06-44-41	Jersey Point (MRFF)			61	73	25910	88	05/12/2001	05/17/01	17	2400	0.278	0.307		0	0	244
06-44-42	Jersey Point (MRFF)			61	73	25466	87	05/12/2001	05/22/01	27	4400	0.278	0.496		0	0	337
	Total		05/11/2001			51376		05/12/2001	05/22/01	44	4400	0.278		0.401			
Upper San Joaquin River and Tributaries																	
06-44-45 *	Grayson (MRFF)		04/11/2001	61	68	18722	71	05/07/2001	05/07/01	1	400	0.278	0.025		0	0	4

* Tag code, 06-44-45, was released between 4/11/01 to 5/24/01. These fish were also spray-dyed

06-44-15	Merced River FF (MRFF)			N/P	50	25029	81	05/04/2001	05/06/01	3	1190	0.275	0.057		0	0	23
06-44-16	Merced River FF (MRFF)			N/P	50	24077	81	05/05/2001	05/09/01	3	1984	0.276	0.059		0	6	35
06-44-17	Merced River FF (MRFF)			N/P	50	24342	81	05/06/2001	05/06/01	1	400	0.278	0.019		0	6	28
06-44-18	Merced River FF (MRFF)			N/P	50	24034	81	-	-	0	-	-	-		0	0	20
	Total		04/21/2001			97482		05/04/2001	05/09/01	7	2384	0.276		0.034			
06-44-12	La Grange (MRFF)			50	52	24572	82	05/03/2001	05/05/01	2	1188	0.275	0.038		0	0	6
06-44-13	La Grange (MRFF)			50	52	22757	82	05/05/2001	05/07/01	2	1190	0.275	0.041		12	0	23
06-44-14	La Grange (MRFF)			50	52	21524	82	05/04/2001	05/06/01	4	1190	0.275	0.088		0	0	15
	Total		04/22/2001			68853		05/03/2001	05/07/01	8	1988	0.276		0.055			
06-44-19	Hatfield State Park (MRFF)			55	62	24925	85	05/05/2001	05/09/01	8	1984	0.276	0.151		0	18	55
06-44-20	Hatfield State Park (MRFF)			55	62	24958	85	05/05/2001	05/09/01	6	1984	0.276	0.113		24	18	53

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-44-21	Hatfield State Park (MRFF)			55	62	24885	85	05/03/2001	05/09/01	17	2782	0.276	0.322		0	18	44
	Total		04/26/2001			74768		05/03/2001	05/09/01	31	2782	0.276		0.195			
06-44-44	Old Fisherman's Club - SJ River (MRFF)		04/26/2001	57	70	24303	85	05/05/2001	05/07/01	12	1190	0.275	0.233		12	12	67
06-44-43	Old Fisherman's Club - SJ River (MRFF)		04/28/2001	55	66	21965	91	05/06/2001	05/13/01	13	3192	0.277	0.278		0	0	60
06-44-22	Merced River FF (MRFF)			N/P	N/P	24722	83	05/17/2001	05/22/01	2	2400	0.278	0.038		0	0	0
06-44-23	Merced River FF (MRFF)			N/P	N/P	24121	83	05/22/2001	05/22/01	1	400	0.278	0.019		0	0	0
06-44-24	Merced River FF (MRFF)			N/P	N/P	25972	83	05/19/2001	05/19/01	1	400	0.278	0.018		0	0	0
06-44-25	Merced River FF (MRFF)			N/P	N/P	23074	83	-	-	0	-	-	-		0	0	6
	Total		05/08/2001			97889		05/17/2001	05/22/01	4	2400	0.278		0.019			
05-24-18	Head of Old River Barrier (MRFF)		05/10/2001	59	68	24401	84	05/14/2001	05/17/01	4	1600	0.278	0.077		390	267	35
06-44-26	Hatfield State Park (MRFF)		05/11/2001	55	64	23038	85	05/20/2001	05/20/01	1	400	0.278	0.020		0	0	13
06-44-27	Hatfield State Park (MRFF)			55	64	23227	85	05/21/2001	05/21/01	1	400	0.278	0.020		0	0	8
06-44-28	Hatfield State Park (MRFF)			55	64	23428	85	05/19/2001	05/26/01	4	3013	0.262	0.085		0	6	6
	Total		05/13/2001			46655		05/19/2001	05/26/01	5	3013	0.262		0.053			
06-01-11-08-04	Knights Ferry (MRFF)			56	53	24137	90	-	-	0	-	-	-		24	0	11
06-01-11-08-05	Knights Ferry (MRFF)			52	55	24037	91	-	-	0	-	-	-		24	0	0
	Total		05/22/2001			48174											
06-01-11-07-15	Two Rivers (MRFF)		05/25/2001	50	68	23630	94	-	-	0	-	-	-		0	0	0
2000																	
2000 (sampling period: 8/16/99 - 7/31/00)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-04-12	Sacramento River RM 246 (CNFH)		10/18/1999	N/P	N/P	4769	100	-	-	0	-	-	-		0	0	10
05-51-40	Battle Creek (CNFH)		11/12/1999	N/P	N/P	70500	110	12/01/1999	01/28/00	6	8880	0.105	0.106		12	10	155
05-51-41	Battle Creek (CNFH)		12/09/1999	N/P	N/P	75948	110	12/20/1999	02/19/00	16	7590	0.085	0.322		36	32	297
05-52-14	Battle Creek (CNFH)		12/21/1999	N/P	N/P	83383	110	01/03/2000	01/26/00	9	3770	0.109	0.129		0	33	81
05-52-07	Battle Creek (CNFH)			N/P	N/P	79868	120	01/19/2000	03/04/00	11	3640	0.055	0.326		84	69	574
05-52-08	Battle Creek (CNFH)			N/P	N/P	84451	120	01/21/2000	02/26/00	10	2840	0.053	0.289		84	87	651
05-52-09	Battle Creek (CNFH)			N/P	N/P	76398	120	01/21/2000	03/29/00	11	5615	0.057	0.331		36	43	478
05-52-10	Battle Creek (CNFH)			N/P	N/P	93556	120	01/21/2000	04/20/00	8	10705	0.082	0.136		12	57	466
05-52-11	Battle Creek (CNFH)			N/P	N/P	81228	120	01/21/2000	03/21/00	8	4815	0.055	0.234		60	42	518
05-52-12	Battle Creek (CNFH)			N/P	N/P	81352	120	01/21/2000	02/05/00	5	1380	0.060	0.133		48	27	355
	Total		01/04/2000			496853		01/19/2000	04/20/00	53	10905	0.081		0.170			
05-52-13	Battle Creek (CNFH)		01/12/2000	N/P	N/P	81680	120	01/21/2000	03/21/00	14	4815	0.055	0.407		84	28	496
Sacramento-San Joaquin Estuary																	
05-51-30	Georgiana Slough (CNFH)		12/10/1999	54	52	65517	152	12/20/1999	01/03/00	3	2360	0.109	0.054		24	0	43
05-51-32	Isleton (CNFH)		12/11/1999	54	50	53426	140	12/14/1999	01/04/00	16	3650	0.115	0.338		0	0	128
05-51-31	Georgiana Slough (CNFH)		12/20/1999	72	63	64515	132	12/27/1999	01/18/00	21	4000	0.121	0.350		60	22	151
05-51-33	Isleton (CNFH)		12/21/1999	59	50	49341	144	12/23/1999	02/05/00	19	6180	0.095	0.525		0	4	161
05-51-34	Port Chicago (CNFH)		12/29/1999	54	52	49208	138	12/30/1999	01/13/00	26	-	-	**		0	0	274

** Survival not calculated for releases downstream of Chipps Island

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-12-05	Caldwell Park (LSNFH)			N/P	N/P	860	80	03/29/2000	03/29/00	1	200	0.139	1.088		0	0	0
05-01-02-12-06	Caldwell Park (LSNFH)			N/P	N/P	1180	80	-	-	0	-	-	-		0	0	0
05-01-02-12-07	Caldwell Park (LSNFH)			N/P	N/P	1283	80	-	-	0	-	-	-		0	0	0
05-01-02-12-08	Caldwell Park (LSNFH)			N/P	N/P	816	80	-	-	0	-	-	-		0	0	8
05-01-02-12-09	Caldwell Park (LSNFH)			N/P	N/P	1000	80	-	-	0	-	-	-		0	0	0
05-01-02-12-10	Caldwell Park (LSNFH)			N/P	N/P	1265	80	-	-	0	-	-	-		0	0	0
05-01-02-12-11	Caldwell Park (LSNFH)			N/P	N/P	1557	80	-	-	0	-	-	-		0	0	0
05-01-02-12-12	Caldwell Park (LSNFH)			N/P	N/P	1145	80	-	-	0	-	-	-		0	6	0
05-01-02-12-13	Caldwell Park (LSNFH)			N/P	N/P	1738	80	03/18/2000	03/18/00	1	200	0.139	0.539		0	0	8
05-01-02-12-14	Caldwell Park (LSNFH)			N/P	N/P	1545	80	-	-	0	-	-	-		0	0	9
05-01-02-12-15	Caldwell Park (LSNFH)			N/P	N/P	1205	80	-	-	0	-	-	-		0	0	0
05-01-02-13-01	Caldwell Park (LSNFH)			N/P	N/P	1582	80	-	-	0	-	-	-		0	0	4
05-01-02-13-02	Caldwell Park (LSNFH)			N/P	N/P	2115	80	-	-	0	-	-	-		0	0	12
05-01-02-13-03	Caldwell Park (LSNFH)			N/P	N/P	2003	80	-	-	0	-	-	-		0	0	12
05-01-02-13-04	Caldwell Park (LSNFH)			N/P	N/P	1716	80	03/21/2000	03/21/00	1	180	0.125	0.606		0	0	5
05-01-02-13-05	Caldwell Park (LSNFH)			N/P	N/P	2125	80	-	-	0	-	-	-		0	0	4
05-01-02-13-06	Caldwell Park (LSNFH)			N/P	N/P	3069	80	05/01/2000	05/01/00	1	380	0.264	0.161		0	0	12
05-01-02-13-07	Caldwell Park (LSNFH)			N/P	N/P	4232	80	-	-	0	-	-	-		0	0	4
	Total		01/27/2000			30436		03/18/2000	05/01/00	4	10450	0.161		0.106			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-12-03-08	Butte Creek (Wild)		12/06/1999	N/P	N/P	4962	37	-	-	0	-	-			0	0	2
06-01-12-03-09	Butte Creek (Wild)		12/29/1999	N/P	N/P	9675	37	04/05/2000	04/05/00	1	160	0.111	- 0.121		0	6	4
06-01-12-03-10	Butte Creek (Wild)		01/10/2000	N/P	N/P	11508	38	-	-	0	-	-	-		0	0	24
06-01-12-03-11	Butte Creek (Wild)		01/19/2000	N/P	N/P	10081	37	-	-	0	-	-	-		0	0	19
06-01-12-03-12	Butte Creek (Wild)		01/27/2000	N/P	N/P	10050	37	-	-	0	-	-	-		0	0	2
06-01-12-03-13	Butte Creek (Wild)		02/07/2000	N/P	N/P	9237	37	04/04/2000	04/29/00	2	7490	0.200	0.141		0	0	7
06-01-12-03-14	Butte Creek (Wild)		02/22/2000	N/P	N/P	3341	38	-	-	0	-	-	-		0	0	0
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-01-06-10-09	Thermolito Bypass (FRH)		01/04/2000	N/P	N/P	12609	35	04/15/2000	04/18/00	2	1180	0.205	0.101		0	0	9
06-01-06-10-10	Thermolito Bypass (FRH)		01/09/2000	N/P	N/P	12744	35	-	-	0	-	-	-		0	0	0
06-01-06-10-11	Thermolito Bypass (FRH)		01/15/2000	N/P	N/P	12165	35	04/20/2000	04/20/00	1	400	0.278	0.038		0	0	0
06-01-06-10-12	Thermolito Bypass (FRH)		01/20/2000	N/P	N/P	12338	35	-	-	0	-	-	-		0	0	0
05-01-02-13-08	Sacramento River RM 242.5 (Wild)		01/21/2000	N/P	N/P	10365	39	-	-	0	-	-	-		0	0	2
06-01-06-10-13	Thermolito Bypass (FRH)		01/23/2000	N/P	N/P	12489	35	04/28/2000	04/28/00	1	400	0.278	0.037		0	0	3
06-01-06-10-14	Thermolito Bypass (FRH)		01/28/2000	N/P	N/P	12503	35	-	-	0	-	-	-		0	0	3
06-01-06-10-15	Thermolito Bypass (FRH)		01/30/2000	N/P	N/P	12241	35	03/18/2000	03/18/00	1	200	0.139	0.076		0	0	0
05-01-02-13-09	Sacramento River RM 242.5 (Wild)		01/31/2000	N/P	N/P	10154	42	05/01/2000	05/01/00	1	380	0.264	0.049		0	0	3
06-01-06-11-01	Thermolito Bypass (FRH)		02/02/2000	N/P	N/P	12246	35	-	-	0	-	-	-		0	0	5
05-01-02-13-10	Sacramento River RM 242.5 (Wild)		02/07/2000	N/P	N/P	11072	40	-	-	0	-	-	-		0	0	3

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-06-11-02	Thermolito Bypass (FRH)		02/09/2000	N/P	N/P	12625	35	05/02/2000	05/02/00	1	400	0.278	0.037		0	0	6
05-01-02-13-11	Sacramento River RM 242.5 (Wild)		02/11/2000	N/P	N/P	6383	42	-	-	0	-	-	-		0	0	0
06-01-06-11-03	Thermolito Bypass (FRH)		02/14/2000	N/P	N/P	14494	35	05/02/2000	05/02/00	1	400	0.278	0.032		0	0	0
06-01-06-11-12	Thermolito Bypass (FRH)		02/19/2000	N/P	N/P	10681	35	06/12/2000	06/12/00	1	200	0.139	0.088		0	0	1
05-01-02-01-01	RBDD (CNFH)		03/06/2000	N/P	N/P	47341	57	04/06/2000	04/23/00	16	4930	0.190	0.231		12	0	245
06-01-06-11-11	Thermolito Bypass (FRH)		03/08/2000	N/P	N/P	7082	35	-	-	0	-	-	-		0	0	18
05-01-01-15-14	RBDD (CNFH)		03/13/2000	N/P	N/P	48798	56	04/09/2000	04/22/00	18	3940	0.195	0.245		0	6	287
05-01-02-13-13	Battle Creek (CNFH)			N/P	N/P	33820	75	04/15/2000	04/26/00	28	4380	0.253	0.425		0	3	354
05-01-02-13-14	Battle Creek (CNFH)			N/P	N/P	34092	74	04/15/2000	04/28/00	22	4980	0.247	0.340		0	0	308
	Total		04/07/2000			67912		04/15/2000	04/28/00	50	4980	0.247		0.387			
05-01-02-13-15	Battle Creek (CNFH)			N/P	N/P	32998	77	04/21/2000	05/07/00	21	6435	0.263	0.315		0	0	475
05-01-02-14-01	Battle Creek (CNFH)			N/P	N/P	32504	77	04/20/2000	04/30/00	22	4200	0.265	0.332		0	0	482
05-01-02-14-02	Battle Creek (CNFH)			N/P	N/P	34357	76	04/20/2000	05/04/00	21	5680	0.263	0.302		0	0	470
05-01-02-14-03	Battle Creek (CNFH)			N/P	N/P	34445	77	04/20/2000	05/09/00	27	7635	0.265	0.384		0	0	512
05-01-02-14-04	Battle Creek (CNFH)			N/P	N/P	34628	77	04/21/2000	04/29/00	23	3400	0.262	0.329		0	0	535
05-01-02-14-05	Battle Creek (CNFH)			N/P	N/P	33380	77	04/21/2000	05/01/00	24	4180	0.264	0.354		0	0	530
05-01-02-14-06	Battle Creek (CNFH)			N/P	N/P	33546	76	04/20/2000	05/04/00	19	5680	0.263	0.280		0	0	472
05-01-02-14-07	Battle Creek (CNFH)			N/P	N/P	34969	77	04/21/2000	04/30/00	19	3800	0.264	0.268		0	0	553
05-01-02-14-08	Battle Creek (CNFH)			N/P	N/P	33500	76	04/21/2000	05/18/00	26	10535	0.261	0.386		0	3	576
05-01-02-14-09	Battle Creek (CNFH)			N/P	N/P	34381	75	04/21/2000	05/21/00	26	11535	0.258	0.380		0	0	555
05-01-02-14-10	Battle Creek (CNFH)			N/P	N/P	32996	77	04/21/2000	04/28/00	11	3000	0.260	0.166		0	0	581
05-01-02-14-11	Battle Creek (CNFH)			N/P	N/P	34485	77	04/21/2000	05/13/00	19	8535	0.258	0.278		0	3	549
	Total		04/14/2000			406189		04/20/2000	05/21/00	258	11935	0.259		0.319			
05-01-02-14-12	Battle Creek (CNFH)			N/P	N/P	35099	78	04/28/2000	05/29/00	15	10455	0.227	0.245		0	0	495
05-01-02-14-13	Battle Creek (CNFH)			N/P	N/P	34002	77	04/27/2000	05/20/00	17	8935	0.259	0.251		0	0	496
05-01-02-14-14	Battle Creek (CNFH)			N/P	N/P	35228	78	04/26/2000	05/20/00	23	9335	0.259	0.327		0	0	589
05-01-02-14-15	Battle Creek (CNFH)			N/P	N/P	32609	76	04/28/2000	05/20/00	14	8735	0.264	0.212		0	0	543
05-01-02-15-01	Battle Creek (CNFH)			N/P	N/P	34041	77	04/28/2000	05/09/00	26	4635	0.268	0.370		0	0	438
05-01-02-15-02	Battle Creek (CNFH)			N/P	N/P	34076	76	04/28/2000	05/19/00	18	8335	0.263	0.261		0	0	379
05-01-02-15-03	Battle Creek (CNFH)			N/P	N/P	34797	74	04/28/2000	05/18/00	22	7935	0.262	0.313		0	0	430
05-01-02-15-04	Battle Creek (CNFH)			N/P	N/P	34355	76	04/28/2000	05/21/00	20	8935	0.259	0.293		0	0	330
05-01-02-15-05	Battle Creek (CNFH)			N/P	N/P	34378	75	04/28/2000	05/20/00	19	8735	0.264	0.272		0	0	411
05-01-02-15-06	Battle Creek (CNFH)			N/P	N/P	34703	75	04/28/2000	05/23/00	22	9275	0.248	0.333		0	0	279
05-01-02-15-07	Battle Creek (CNFH)			N/P	N/P	34712	76	04/28/2000	05/23/00	21	9275	0.248	0.317		0	0	310
05-01-02-15-08	Battle Creek (CNFH)			N/P	N/P	36075	76	04/28/2000	05/19/00	23	8335	0.263	0.315		0	0	348
05-01-02-15-09	Battle Creek (CNFH)			N/P	N/P	35945	74	04/29/2000	05/23/00	16	8875	0.247	0.235		0	0	258
	Total		04/21/2000			450020		04/26/2000	05/29/00	256	11055	0.226		0.328			
06-26-60	Live Oak (Wild)		06/07/2000	N/P	N/P	42275	109	-	-	0	-	-	-		0	0	179
Sacramento-San Joaquin Estuary																	
06-01-13-02-07	Woodbridge Dam (Wild)		01/25/2000	N/P	N/P	5464	37	-	-	0	-	-	-		0	0	0
06-01-06-11-04	Yolo Bypass Elkhorn/Toedrain (FRH)		02/04/2000	N/P	N/P	100901	56	03/30/2000	03/30/00	1	200	0.139	0.009		0	0	42
06-01-06-10-03	Lighthouse Marina (FRH)			54	54	26302	52	03/07/2000	03/07/00	1	200	0.139	0.036		0	6	0
06-01-06-10-04	Lighthouse Marina (FRH)			54	54	24059	52	-	-	0	-	-	-		0	0	3
	Total		02/14/2000			50361		03/07/2000	03/07/00	1	200	0.139		0.019			
06-01-06-10-05	Isleton (FRH)			52	55	24857	49	-	-	0	-	-	-		0	0	0
06-01-06-10-06	Isleton (FRH)			52	55	26436	49	03/29/2000	03/29/00	1	200	0.139	0.035		0	0	4
	Total		02/15/2000			51293		03/29/2000	03/29/00	1	200	0.139		0.018			

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-06-11-07	Elkhorn Park (FRH)		02/22/2000	N/P	N/P	52886	56	03/30/2000	04/19/00	3	4690	0.155	0.048		0	0	46
06-01-06-10-07	Yolo Bypass (FRH)			N/P	N/P	27250	57	04/15/2000	04/19/00	2	1580	0.219	0.043		0	0	17
06-01-06-10-08	Yolo Bypass (FRH)			N/P	N/P	27302	57	-	-	0	-	-	-		0	0	10
	Total		02/22/2000			54552		04/15/2000	04/19/00	2	1580	0.219		0.022			
06-01-06-09-12	Lighthouse Marina (FRH)			48	55	27514	63	03/30/2000	03/30/00	1	200	0.139	0.034		0	6	13
06-01-06-09-13	Lighthouse Marina (FRH)			48	55	25459	63	04/18/2000	05/11/00	2	9015	0.261	0.039		0	0	6
	Total		02/28/2000			52973		03/30/2000	05/11/00	3	12925	0.209		0.035			
05-01-02-08-09	Isleton (FRH)			50	55	26837	59	03/11/2000	03/28/00	3	1575	0.061	0.239		0	0	7
05-01-02-08-10	Isleton (FRH)			50	55	26033	59	04/04/2000	04/04/00	1	200	0.139	0.036		0	0	0
	Total		02/29/2000			52870		03/11/2000	04/04/00	4	2975	0.083		0.119			
05-01-02-01-02	Clarksburg (CNFH)		03/07/2000	50	52	47168	57	03/09/2000	04/19/00	13	6665	0.110	0.325		0	6	41
06-02-44	Woodbridge Dam (Wild)		03/13/2000	N/P	N/P	6067	82	05/15/2000	05/23/00	3	2940	0.227	0.283		0	0	7
05-01-01-15-15	Clarksburg (CNFH)		03/14/2000	57	55	46461	57	03/16/2000	04/18/00	11	5670	0.116	0.266		0	18	73
06-26-57	Verona (FRH)			N/P	N/P	103165	64	04/15/2000	05/15/00	16	11315	0.253	0.080		0	0	473
06-01-06-11-05	Verona (FRH)			N/P	N/P	101115	64	04/06/2000	05/14/00	36	12665	0.226	0.205		0	3	336
	Total		03/22/2000			204280		04/06/2000	05/15/00	52	13065	0.227		0.146			
05-01-02-08-03	Georgiana Slough (FRH)			52	57	24571	71	04/22/2000	04/28/00	3	2600	0.258	0.062		0	9	35
05-01-02-08-04	Georgiana Slough (FRH)			52	57	25253	71	04/21/2000	05/21/00	4	11535	0.258	0.080		0	6	40
	Total		03/28/2000			49824		04/21/2000	05/21/00	7	11535	0.258		0.071			
05-01-02-08-05	Ryde (FRH)			50	59	23042	71	04/10/2000	04/20/00	5	2940	0.186	0.152		0	0	56
05-01-02-08-06	Ryde (FRH)			50	59	23468	71	04/06/2000	04/29/00	6	7130	0.206	0.161		0	0	29
	Total		03/29/2000			46510		04/06/2000	04/29/00	11	7130	0.206		0.149			
06-26-55	West Sacramento (FRH)			55	63	25005	77	04/17/2000	05/20/00	15	12915	0.264	0.296		0	0	253
06-26-56	West Sacramento (FRH)			55	63	25011	77	04/15/2000	05/15/00	19	11315	0.253	0.390		0	0	190
	Total		04/10/2000			50016		04/15/2000	05/20/00	34	13315	0.257		0.344			
05-38-29	Port Chicago (FRH)			55	63	23582	79	04/14/2000	04/14/00	1	-	-	**		0	0	84
05-38-30	Port Chicago (FRH)			55	63	23352	79	04/18/2000	04/21/00	2	-	-	**		0	0	176
	Total		04/12/2000			46934		04/14/2000	04/21/00	3	-	-		**			

** Survival not calculated for releases downstream of Chipps Island

06-04-01	Durham Ferry (MRFF)			55	57	23529	80	04/22/2000	04/29/00	7	3000	0.260	0.149		24	144	215
06-04-02	Durham Ferry (MRFF)			55	57	24177	80	04/23/2000	05/19/00	10	10135	0.261	0.206		24	132	232
06-45-63	Durham Ferry (MRFF)			54	57	24457	80	04/24/2000	05/05/00	11	4480	0.259	0.226		12	185	246
	Total		04/17/2000			72163		04/22/2000	05/19/00	28	10535	0.261		0.193			
06-44-01	Mossdale (MRFF)			52	55	23465	79	04/23/2000	05/04/00	9	4480	0.259	0.192		12	213	207
06-44-02	Mossdale (MRFF)			52	55	22784	79	04/23/2000	04/29/00	9	2600	0.258	0.199		12	220	174
	Total		04/18/2000			46249		04/23/2000	05/04/00	18	4480	0.259		0.195			
06-44-05	Mossdale (MRFF)		04/19/2000	55	61	23371	86	04/29/2000	05/11/00	7	4835	0.258	0.151		12	144	154
06-44-03	Jersey Point (MRFF)			54	64	25527	82	04/22/2000	05/02/00	24	4180	0.264	0.463		0	0	649
06-44-04	Jersey Point (MRFF)			54	64	25824	82	04/22/2000	05/02/00	41	4180	0.264	0.782		0	0	709
	Total		04/20/2000			51351		04/22/2000	05/02/00	65	4180	0.264		0.624			
06-26-62	Mouth of Mokelumne River (MOK)			N/P	N/P	24353	94	04/23/2000	05/04/00	32	4480	0.259	0.659		0	6	549
06-26-63	Mouth of Mokelumne River (MOK)			N/P	N/P	24250	94	04/23/2000	04/26/00	34	1600	0.278	0.656		0	0	461
	Total		04/21/2000			48603		04/23/2000	05/04/00	66	4480	0.259		0.681			
06-02-49	New Hope Landing (MOK)			N/P	N/P	50603	66	04/29/2000	05/16/00	20	6735	0.260	0.198		0	0	144

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-02-52	New Hope Landing (MOK)			N/P	N/P	51134	73	04/30/2000	05/17/00	12	6735	0.260	0.117		0	0	137
	Total		04/24/2000			101737		04/29/2000	05/17/00	32	7135	0.261		0.157			
06-01-06-11-09	Georgiana Slough (FRH)			57	64	19471	79	05/15/2000	05/28/00	2	3920	0.194	0.069		0	0	20
06-01-06-11-10	Georgiana Slough (FRH)			57	64	19665	79	05/14/2000	05/20/00	5	2800	0.278	0.119		0	0	38
	Total		04/27/2000			39136		05/14/2000	05/28/00	7	4320	0.200		0.116			
05-01-02-08-07	Ryde (FRH)			55	64	21419	79	04/30/2000	05/17/00	9	6735	0.260	0.210		0	0	68
05-01-02-08-08	Ryde (FRH)			55	64	21395	79	04/30/2000	05/18/00	12	7135	0.261	0.280		0	0	63
	Total		04/28/2000			42814		04/30/2000	05/18/00	21	7135	0.261		0.245			
06-01-06-09-14	Durham Ferry (MRFF)			52	63	23698	77	05/04/2000	05/14/00	7	4055	0.256	0.150		12	75	46
06-01-06-09-15	Durham Ferry (MRFF)			52	63	26805	77	05/03/2000	05/12/00	5	3655	0.254	0.096		24	96	45
06-01-11-08-14	Durham Ferry (MRFF)			52	63	23889	77	05/04/2000	05/21/00	10	6655	0.257	0.212		12	60	71
	Total		04/28/2000			74392		05/03/2000	05/21/00	22	6955	0.254		0.151			
06-26-53	West Sacramento (FRH)			57	64	20926	83	05/04/2000	05/25/00	21	7385	0.233	0.560		0	0	214
06-26-54	West Sacramento (FRH)			57	64	20613	83	05/05/2000	05/18/00	23	5255	0.261	0.556		0	0	221
	Total		05/01/2000			41539		05/04/2000	05/25/00	44	7385	0.233		0.591			
06-01-06-10-01	Jersey Point (MRFF)			54	63	25572	78	05/03/2000	05/17/00	48	5555	0.257	0.949		0	3	359
06-01-06-10-02	Jersey Point (MRFF)			54	63	24661	76	05/02/2000	05/14/00	30	4755	0.254	0.623		0	3	230
	Total		05/01/2000			50233		05/02/2000	05/17/00	78	5955	0.258		0.781			
06-02-53	Jersey Point (MOK)			N/P	N/P	50445	87	05/03/2000	05/14/00	95	4355	0.252	0.971		0	5	735
06-02-54	Jersey Point (MOK)			N/P	N/P	51167	85	05/02/2000	05/12/00	74	4055	0.256	0.734		0	0	634
	Total		05/01/2000			101612		05/02/2000	05/14/00	169	4755	0.254		0.851			
06-02-55	New Hope Landing (MOK)			N/P	N/P	46721	80	05/09/2000	05/20/00	22	4500	0.260	0.235		0	12	167
06-02-56	New Hope Landing (MOK)			N/P	N/P	50683	77	05/09/2000	05/20/00	32	4500	0.260	0.315		24	3	225
	Total		05/03/2000			97404		05/09/2000	05/20/00	54	4500	0.260		0.277			
06-26-52	Port Chicago (FRH)			61	66	15541	82	05/04/2000	05/16/00	4	-	-	**		0	0	146
06-26-51	Port Chicago (FRH)			61	66	15770	82	05/07/2000	05/10/00	3	-	-	**		0	0	114
	Total		05/03/2000			31311		05/04/2000	05/16/00	7	-	-		**			

** Survival not calculated for releases downstream of Chipps Island

06-26-49	West Sacramento (FRH)			54	63	17416	93	05/19/2000	05/25/00	19	1730	0.172	0.826		0	0	309
06-26-50	West Sacramento (FRH)			54	63	17064	93	05/19/2000	05/24/00	12	1530	0.177	0.516		0	0	265
	Total		05/15/2000			34480		05/19/2000	05/25/00	31	1730	0.172		0.681			
Upper San Joaquin River and Tributaries																	
06-45-39	Merced River FF (MRFF)			N/P	N/P	25313	78	04/25/2000	05/09/00	5	5635	0.261	0.098		0	20	23
06-45-40	Merced River FF (MRFF)			N/P	N/P	25507	78	04/25/2000	04/28/00	3	1400	0.243	0.063		0	51	22
06-45-41	Merced River FF (MRFF)			N/P	N/P	25318	78	04/24/2000	04/26/00	4	1200	0.278	0.074		12	41	10
06-45-42	Merced River FF (MRFF)			N/P	N/P	25395	78	04/25/2000	05/07/00	5	4835	0.258	0.099		12	47	59
	Total		04/12/2000			101533		04/24/2000	05/09/00	17	6035	0.262		0.083			
06-45-43	Hatfield State Park (MRFF)			54	68	24525	76	04/22/2000	04/28/00	5	2600	0.258	0.103		12	146	116
06-45-44	Hatfield State Park (MRFF)			54	68	24490	76	04/21/2000	04/26/00	6	2400	0.278	0.115		0	128	80
06-45-45	Hatfield State Park (MRFF)			54	68	24432	76	04/23/2000	04/24/00	2	800	0.278	0.038		12	127	138
	Total		04/13/2000			73447		04/21/2000	04/28/00	13	3000	0.260		0.088			
06-45-56	La Grange (MRFF)		04/13/2000	55	52	23603	74	04/29/2000	05/17/00	6	7135	0.261	0.127		12	59	82
06-45-61	Roberts Ferry - Hughson (MRFF)			55	57	17936	82	05/05/2000	05/21/00	3	6255	0.256	0.085		24	44	49
06-45-62	Roberts Ferry - Hughson (MRFF)			55	57	19198	82	05/02/2000	05/21/00	2	7355	0.255	0.053		0	24	27
	Total		04/13/2000			19198		05/02/2000	05/21/00	5	7355	0.255		0.133			
06-45-60	Old Fisherman's Club - SJ River (MRFF)		04/14/2000	54	61	21698	75	04/26/2000	04/30/00	5	1800	0.250	0.120		12	95	99

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-45-57	La Grange (MRFF)			55	52	22096	74	04/28/2000	04/28/00	1	400	0.278	0.021		24	22	82
06-45-58	La Grange (MRFF)			54	52	21952	80	04/24/2000	05/23/00	5	10675	0.247	0.120		0	59	68
	Total		04/15/2000			44048		04/24/2000	05/23/00	6	10675	0.247		0.072			
06-45-59	Old Fisherman's Club - SJ River (MRFF)		04/16/2000	54	55	23071	73	04/23/2000	05/01/00	4	3380	0.261	0.086		12	116	141
06-46-08	Grayson (MRFF)		04/16/2000	57	59	11803	82	05/01/2000	05/21/00	4	7735	0.256	0.172		0	3	13
06-45-49	Merced River FF (MRFF)			N/P	N/P	25433	76	05/06/2000	05/19/00	5	5255	0.261	0.098		0	9	42
06-45-50	Merced River FF (MRFF)			N/P	N/P	27042	76	05/04/2000	05/19/00	6	6055	0.263	0.110		36	12	37
06-45-51	Merced River FF (MRFF)			N/P	N/P	24378	76	05/05/2000	05/05/00	1	400	0.278	0.019		0	24	20
06-45-52	Merced River FF (MRFF)			N/P	N/P	25293	76	05/04/2000	05/20/00	4	6455	0.264	0.078		12	0	26
	Total		04/24/2000			102146		05/04/2000	05/20/00	16	6455	0.264		0.077			
06-45-53	Hatfield State Park (MRFF)			54	57	25794	81	05/06/2000	05/12/00	5	2555	0.253	0.099		0	57	63
06-45-54	Hatfield State Park (MRFF)			54	57	26189	81	05/08/2000	05/11/00	4	1400	0.243	0.082		12	93	99
06-45-55	Hatfield State Park (MRFF)			54	57	25444	81	05/05/2000	05/15/00	6	4055	0.256	0.120		24	81	40
	Total		04/27/2000			77427		05/05/2000	05/15/00	15	4055	0.256		0.098			
06-44-08	Knights Ferry (MRFF)			55	54	25786	84	05/31/2000	05/31/00	1	200	0.139	0.036		144	144	4
06-44-09	Knights Ferry (MRFF)			55	52	26140	84	-	-	0	-	-	-		156	117	3
	Total		05/18/2000			51926		05/31/2000	05/31/00	1	200	0.139		0.018			
06-44-07	Knights Ferry (MRFF)		05/19/2000	55	54	25511	83	05/29/2000	06/06/00	3	1060	0.082	0.187		204	99	7
06-44-10	Two Rivers (MRFF)			57	70	25712	85	05/24/2000	05/28/00	4	980	0.136	0.149		276	471	12
06-44-11	Two Rivers (MRFF)			57	70	24835	84	-	-	0	-	-	-		144	219	6
	Total		05/20/2000			50547		05/24/2000	05/28/00	4	980	0.136		0.076			
1999																	
1999 (sampling period: 9/2/98 - 7/27/99)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-23-09	Battle Creek (CNFH)			N/P	N/P	66119	116	11/24/1998	12/13/98	11	2830	0.098	0.220		0	4	155
05-23-11	Battle Creek (CNFH)			N/P	N/P	71874	116	11/24/1998	02/05/99	21	12118	0.114	0.334		0	0	145
	Total		11/12/1998			137993		11/24/1998	02/05/99	32	12118	0.114		0.265			
05-23-16	Battle Creek (CNFH)			N/P	N/P	64546	120	12/22/1998	02/03/99	24	7648	0.121	0.400		0	12	282
05-23-17	Battle Creek (CNFH)			N/P	N/P	62678	120	12/23/1998	03/17/99	24	10352	0.085	0.589		12	0	232
	Total		12/15/1998			127224		12/22/1998	03/17/99	48	10552	0.085		0.576			
05-23-10	Battle Creek (CNFH)			N/P	N/P	63983	129	01/17/1999	04/17/99	8	10004	0.076	0.213		12	0	310
05-23-13	Battle Creek (CNFH)			N/P	N/P	66112	125	01/20/1999	04/18/99	12	9604	0.075	0.315		0	2	209
05-23-14	Battle Creek (CNFH)			N/P	N/P	61860	124	01/16/1999	05/26/99	19	21979	0.117	0.343		0	0	161
05-23-15	Battle Creek (CNFH)			N/P	N/P	70022	124	01/19/1999	03/08/99	18	5144	0.073	0.458		0	0	167
05-23-18	Battle Creek (CNFH)			N/P	N/P	61565	119	01/20/1999	02/22/99	12	3864	0.079	0.321		0	26	176
05-23-19	Battle Creek (CNFH)			N/P	N/P	66883	119	01/20/1999	02/17/99	18	3464	0.083	0.422		0	0	226
05-41-28	Battle Creek (CNFH)			N/P	N/P	56491	129	01/20/1999	03/15/99	11	5264	0.066	0.381		0	0	114
05-41-29	Battle Creek (CNFH)			N/P	N/P	59032	126	01/11/1999	02/08/99	12	4748	0.114	0.232		0	2	83
	Total		01/04/1999			505948		01/11/1999	05/26/99	110	22967	0.117		0.241			
Sacramento-San Joaquin Estuary																	
05-23-08	Georgiana Slough (CNFH)		12/01/1998	56	53	69180	120	12/07/1998	01/22/99	12	8488	0.125	0.180		12	16	173
05-23-20	Ryde (CNFH)		12/02/1998	56	52	48207	120	12/04/1998	02/17/99	30	11952	0.109	0.741		0	0	182
05-23-22	Port Chicago (CNFH)		12/22/1998	44	48	45195	120	01/14/1999	01/14/99	1	-	-	**		0	0	140

** Survival not calculated for releases downstream of Chipps Island

05-23-12	Georgiana Slough (CNFH)		12/29/1998	48	46	68843	119	01/04/1999	03/10/99	12	7992	0.084	0.269		24	24	156

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-23-21	Ryde (CNFH)		12/30/1998	50	48	48804	120	01/03/1999	02/05/99	17	5928	0.121	0.374		0	0	156
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-08-11	Caldwell Park (CNFH)			N/P	N/P	10434	82	04/17/1999	04/17/99	1	200	0.139	0.090		0	8	4
05-01-02-08-12	Caldwell Park (CNFH)			N/P	N/P	10243	70	03/15/1999	04/02/99	2	1560	0.057	0.445		0	0	3
05-01-02-08-13	Caldwell Park (CNFH)			N/P	N/P	9685	74	-	-	0	-	-	-		0	0	12
05-01-02-08-14	Caldwell Park (CNFH)			N/P	N/P	7130	86	03/29/1999	03/31/99	2	400	0.093	0.394		0	0	21
05-01-02-08-15	Caldwell Park (CNFH)			N/P	N/P	7244	82	03/17/1999	03/17/99	1	180	0.125	0.144		0	0	14
05-01-02-09-01	Caldwell Park (CNFH)			N/P	N/P	8075	76	-	-	0	-	-	-		0	0	3
05-01-02-09-02	Caldwell Park (CNFH)			N/P	N/P	7614	75	03/31/1999	03/31/99	1	200	0.139	0.123		0	0	14
05-01-02-09-03	Caldwell Park (CNFH)			N/P	N/P	6924	78	03/29/1999	04/19/99	2	3980	0.126	0.299		0	0	16
05-01-02-09-04	Caldwell Park (CNFH)			N/P	N/P	6341	88	03/26/1999	03/26/99	1	180	0.125	0.164		0	0	4
05-01-02-09-05	Caldwell Park (CNFH)			N/P	N/P	6079	84	03/17/1999	04/04/99	2	1640	0.060	0.714		0	0	4
05-01-02-09-06	Caldwell Park (CNFH)			N/P	N/P	9414	84	-	-	0	-	-	-		0	0	4
05-01-02-09-07	Caldwell Park (CNFH)			N/P	N/P	9263	70	03/29/1999	03/29/99	1	200	0.139	0.101		0	0	0
05-01-02-09-08	Caldwell Park (CNFH)			N/P	N/P	7910	70	04/17/1999	04/17/99	1	200	0.139	0.118		0	0	5
05-01-02-09-09	Caldwell Park (CNFH)			N/P	N/P	7403	73	04/10/1999	04/10/99	1	200	0.139	0.126		0	0	7
05-01-02-09-10	Caldwell Park (CNFH)			N/P	N/P	5096	84	04/01/1999	04/14/99	2	2580	0.128	0.399		0	0	3
05-01-02-09-11	Caldwell Park (CNFH)			N/P	N/P	7869	74	04/01/1999	04/01/99	1	200	0.139	0.119		0	0	3
05-01-02-09-12	Caldwell Park (CNFH)			N/P	N/P	6167	78	-	-	0	-	-	-		0	0	4
05-01-02-09-13	Caldwell Park (CNFH)			N/P	N/P	5415	91	03/31/1999	03/31/99	1	200	0.139	0.173		0	8	23
05-01-02-09-14	Caldwell Park (CNFH)			N/P	N/P	5931	89	03/26/1999	03/26/99	1	180	0.125	0.175		0	0	11
05-01-02-09-15	Caldwell Park (CNFH)			N/P	N/P	2803	87	03/22/1999	03/22/99	1	200	0.139	0.334		0	0	3
05-01-02-10-01	Caldwell Park (CNFH)			N/P	N/P	353	87	-	-	0	-	-	-		0	0	0
	Total		01/28/1999			147393		03/15/1999	04/19/99	21	4740	0.091		0.203			
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-12-02-08	Okie Dam (Wild)		12/10/1998	N/P	N/P	1149	33	-	-	0	-	-	-		0	0	0
06-01-12-02-09	Okie Dam (Wild)		12/29/1998	N/P	N/P	6313	35	-	-	0	-	-	-		0	0	3
06-01-12-02-10	Okie Dam (Wild)		01/13/1999	N/P	N/P	9647	35	04/10/1999	05/01/99	3	5510	0.174	0.232		0	0	0
06-01-12-02-11	Okie Dam (Wild)			N/P	N/P	14013	34	04/05/1999	04/15/99	4	2100	0.133	0.280		0	0	3
06-01-12-02-12	Okie Dam (Wild)			N/P	N/P	12447	34	-	-	0	-	-	-		0	0	5
	Total		01/19/1999			26460		04/05/1999	04/15/99	4	2100	0.133		0.148			
06-01-12-02-13	Okie Dam (Wild)		01/20/1999	N/P	N/P	12867	35	-	-	0	-	-	-		0	0	0
06-01-12-02-14	Okie Dam (Wild)		01/25/1999	N/P	N/P	10793	35	04/02/1999	04/02/99	1	200	0.139	0.087		0	0	4
06-01-12-02-15	Okie Dam (Wild)			N/P	N/P	5271	38	-	-	0	-	-	-		0	0	9
06-01-12-03-01	Okie Dam (Wild)			N/P	N/P	5711	38	-	-	0	-	-	-		0	0	0
	Total		02/01/1999			10982											
06-01-12-03-02	Okie Dam (Wild)			N/P	N/P	6840	41	-	-	0	-	-	-		0	0	0
06-01-12-03-03	Okie Dam (Wild)			N/P	N/P	8813	41	-	-	0	-	-	-		0	0	0
	Total		03/02/1999			15653											
06-01-12-03-04	Okie Dam (Wild)		03/22/1999	N/P	N/P	8059	42	-	-	0	-	-	-		0	0	0
06-01-12-03-05	Okie Dam (Wild)		04/29/1999	N/P	N/P	1512	58	-	-	0	-	-	-		0	0	0
06-01-12-03-06	Okie Dam (Wild)		05/19/1999	N/P	N/P	2862	62	-	-	0	-	-	-		0	0	0
Fall run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-04-09	RBDD (CNFH)		01/27/1999	N/P	N/P	13936	38	04/15/1999	04/15/99	1	200	0.139	0.067		0	0	9
06-01-06-08-06	Thermalito Bypass (Wild)		02/06/1999	N/P	N/P	10861	35	-	-	0	-	-	-		0	0	10

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-01-02-04-08	RBDD (CNFH)		02/08/1999	N/P	N/P	13017	38	-	-	0	-	-	-		0	0	2
06-01-06-08-07	Thermalito Bypass (Wild)		02/12/1999	N/P	N/P	11629	35	-	-	0	-	-	-		0	0	2
06-01-06-08-08	Thermalito Bypass (Wild)		02/18/1999	N/P	N/P	12811	35	-	-	0	-	-	-		0	0	2
06-01-06-08-09	Thermalito Bypass (Wild)		02/26/1999	N/P	N/P	11342	35	05/21/1999	05/21/99	1	400	0.278	0.041		0	0	0
06-01-06-08-10	Thermalito Bypass (Wild)		02/27/1999	N/P	N/P	12577	35	05/18/1999	05/18/99	1	400	0.278	0.037		0	0	9
05-01-02-10-06	Bow River Resort (CNFH)		03/03/1999	N/P	N/P	27888	52	-	-	0	-	-	-		0	0	19
05-01-02-04-10	RBDD (CNFH)		03/08/1999	N/P	N/P	11458	38	-	-	0	-	-	-		0	0	4
06-01-06-08-11	Thermalito Bypass (Wild)		03/09/1999	N/P	N/P	12458	35	05/24/1999	05/27/99	2	800	0.139	0.150		0	0	0
06-01-06-08-12	Thermalito Bypass (Wild)		03/18/1999	N/P	N/P	11198	35	-	-	0	-	-	-		0	0	13
06-01-06-08-13	Thermalito Bypass (Wild)		03/23/1999	N/P	N/P	12048	35	-	-	0	-	-	-		0	0	7
05-01-02-10-15	Battle Creek (CNFH)		03/31/1999	N/P	N/P	29869	59	04/29/1999	05/03/99	3	1990	0.276	0.047		0	6	63
05-01-02-04-11	RBDD (CNFH)		04/05/1999	N/P	N/P	314	38	-	-	0	-	-	-		0	0	0
05-01-02-10-07	Battle Creek (CNFH)			N/P	N/P	24239	78	04/26/1999	05/07/99	19	3970	0.230	0.444		0	28	74
05-01-02-10-08	Battle Creek (CNFH)			N/P	N/P	22274	76	04/27/1999	05/03/99	15	2550	0.253	0.346		0	0	76
05-01-02-10-09	Battle Creek (CNFH)			N/P	N/P	28376	73	04/28/1999	05/13/99	20	5275	0.229	0.400		0	0	61
05-01-02-10-10	Battle Creek (CNFH)			N/P	N/P	28507	73	04/28/1999	05/07/99	14	3550	0.247	0.259		0	0	74
05-01-02-10-11	Battle Creek (CNFH)			N/P	N/P	31306	71	04/28/1999	05/09/99	21	3990	0.231	0.378		0	0	69
05-01-02-10-12	Battle Creek (CNFH)			N/P	N/P	31228	71	04/28/1999	05/17/99	14	6655	0.231	0.252		0	15	50
05-01-02-11-01	Battle Creek (CNFH)			N/P	N/P	32136	72	04/29/1999	05/15/99	25	5495	0.224	0.451		0	0	105
05-01-02-11-02	Battle Creek (CNFH)			N/P	N/P	32721	72	04/29/1999	05/13/99	21	4915	0.228	0.367		0	0	132
05-01-02-11-03	Battle Creek (CNFH)			N/P	N/P	33290	69	04/29/1999	05/11/99	9	4115	0.220	0.160		0	36	103
05-01-02-11-04	Battle Creek (CNFH)			N/P	N/P	32464	69	05/01/1999	05/18/99	12	5905	0.228	0.211		0	0	74
	Total		04/20/1999			296541		04/26/1999	05/18/99	170	7475	0.226		0.330			
05-01-02-11-05	Battle Creek (CNFH)			N/P	N/P	30240	68	05/01/1999	05/12/99	16	3725	0.216	0.319		0	0	81
05-01-02-11-06	Battle Creek (CNFH)			N/P	N/P	32241	68	05/06/1999	05/23/99	9	6065	0.234	0.155		0	0	46
	Total		04/21/1999			62481		05/01/1999	05/23/99	25	7665	0.231		0.225			
05-01-02-11-07	Battle Creek (CNFH)			N/P	N/P	34513	75	05/05/1999	05/16/99	16	3705	0.214	0.281		2	0	107
05-01-02-11-08	Battle Creek (CNFH)			N/P	N/P	37956	74	05/05/1999	05/20/99	14	5285	0.229	0.209		0	0	121
05-01-02-11-09	Battle Creek (CNFH)			N/P	N/P	38069	74	05/06/1999	05/27/99	12	6865	0.217	0.189		0	0	95
05-01-02-11-10	Battle Creek (CNFH)			N/P	N/P	34689	70	05/06/1999	05/16/99	16	3505	0.221	0.271		0	0	98
05-01-02-11-11	Battle Creek (CNFH)			N/P	N/P	36285	69	05/05/1999	05/22/99	11	6065	0.234	0.168		0	0	77
05-01-02-11-12	Battle Creek (CNFH)			N/P	N/P	35281	65	05/05/1999	05/22/99	12	6065	0.234	0.189		0	6	81
05-01-02-11-13	Battle Creek (CNFH)			N/P	N/P	36348	68	05/05/1999	05/25/99	11	6665	0.220	0.179		0	0	114
05-01-02-11-14	Battle Creek (CNFH)			N/P	N/P	36433	59	05/17/1999	05/28/99	6	3540	0.205	0.105		0	0	51
05-01-02-11-15	Battle Creek (CNFH)			N/P	N/P	35530	63	05/09/1999	05/28/99	12	6085	0.211	0.208		0	0	77
05-01-02-12-01	Battle Creek (CNFH)			N/P	N/P	36519	63	05/05/1999	05/21/99	7	5685	0.232	0.107		0	4	45
05-01-02-12-02	Battle Creek (CNFH)			N/P	N/P	36670	68	05/06/1999	05/21/99	16	5485	0.238	0.238		0	6	104
	Total		04/27/1999			398293		05/05/1999	05/28/99	133	7245	0.210		0.207			
05-01-02-10-13	Battle Creek (CNFH)			N/P	N/P	34037	78	05/05/1999	05/12/99	11	2325	0.202	0.208		0	0	135
05-01-02-10-14	Battle Creek (CNFH)			N/P	N/P	34171	73	05/05/1999	05/13/99	17	2725	0.210	0.308		0	0	98
	Total		04/28/1999			68208		05/05/1999	05/13/99	28	2725	0.210		0.254			
06-01-06-08-14	Live Oak (Wild)			N/P	N/P	51144	61	05/17/1999	06/06/99	16	4920	0.163	0.250		0	0	320
06-01-06-08-15	Live Oak (Wild)			N/P	N/P	51043	61	05/19/1999	05/28/99	17	2740	0.190	0.228		0	0	413
	Total		05/11/1999			102187		05/17/1999	06/06/99	33	4920	0.163		0.258			

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
Sacramento-San Joaquin Estuary																	
06-02-36	Woodbridge Dam (MOK)			N/P	N/P	16661	183	02/19/1999	02/19/99	1	200	0.139	0.056		12	0	33
06-02-37	Woodbridge Dam (MOK)			N/P	N/P	16660	183	01/28/1999	01/28/99	1	200	0.139	0.056		0	6	29
	Total		10/29/1998			33321		01/28/1999	02/19/99	2	2064	0.062		0.125			
06-01-13-01-13	Woodbridge Dam (Wild)		01/29/1999	N/P	N/P	11250	37	-	-	0	-	-	-		0	0	8
06-01-13-02-04	Woodbridge Dam (Wild)		02/08/1999	N/P	N/P	9733	37	05/07/1999	05/07/99	1	400	0.278	0.048		0	0	0
06-01-06-07-01	Yolo Bypass - County Road 16 (FRH)			N/P	N/P	25241	61	03/31/1999	04/20/99	5	3980	0.132	0.196		0	0	32
06-01-06-07-02	Yolo Bypass - County Road 16 (FRH)			N/P	N/P	27699	61	04/21/1999	04/21/99	1	200	0.139	0.034		0	0	37
06-01-06-07-03	Yolo Bypass - County Road 16 (FRH)			N/P	N/P	25262	61	04/02/1999	04/16/99	2	2780	0.129	0.080		0	6	21
06-01-06-07-04	Yolo Bypass - County Road 16 (FRH)			N/P	N/P	25269	61	04/05/1999	04/05/99	1	200	0.139	0.037		0	0	48
	Total		02/11/1999			103471		03/31/1999	04/21/99	9	4180	0.132		0.086			
06-01-06-07-05	Elkhorn Park (FRH)			N/P	N/P	26316	52	04/06/1999	04/30/99	4	5810	0.161	0.122		0	9	29
06-01-06-07-06	Elkhorn Park (FRH)			N/P	N/P	25845	52	03/26/1999	04/24/99	3	5560	0.129	0.117		0	3	53
06-01-06-07-07	Elkhorn Park (FRH)			N/P	N/P	26029	52	-	-	0	-	-	-		0	4	15
06-01-06-07-08	Elkhorn Park (FRH)			N/P	N/P	25692	52	04/02/1999	04/02/99	1	200	0.139	0.036		0	8	45
	Total		02/11/1999			103882		03/26/1999	04/24/99	8	5560	0.129		0.078			
06-01-13-02-05	Woodbridge Dam (Wild)		02/15/1999	N/P	N/P	11088	37	-	-	0	-	-	-		0	0	8
05-01-02-07-08	Lighthouse Marina (FRH)			50	54	25414	50	-	-	0	-	-	-		0	3	3
05-01-02-07-09	Lighthouse Marina (FRH)			50	54	25649	50	03/15/1999	04/24/99	2	6140	0.104	0.097		0	6	6
05-01-02-07-10	Lighthouse Marina (FRH)			50	54	27943	50	-	-	0	-	-	-		0	0	14
05-01-02-07-11	Lighthouse Marina (FRH)			50	54	24721	50	-	-	0	-	-	-		0	0	3
	Total		03/01/1999			103727		03/15/1999	04/24/99	2	6140	0.104		0.024			
06-01-06-09-09	Verona (FRH)			N/P	N/P	50804	52	04/05/1999	05/12/99	21	9735	0.178	0.302		2	0	189
06-01-06-09-10	Verona (FRH)			N/P	N/P	51202	52	04/19/1999	05/18/99	14	9215	0.213	0.167		0	4	164
	Total		03/02/1999			102006		04/05/1999	05/18/99	35	11915	0.188		0.237			
06-01-06-04-03	Isleton (FRH)			50	52	49715	50	03/10/1999	03/10/99	1	120	0.083	0.031		0	0	5
06-01-06-04-04	Isleton (FRH)			50	52	50864	50	03/10/1999	03/17/99	3	500	0.043	0.177		0	0	8
	Total		03/02/1999			100579		03/10/1999	03/17/99	4	500	0.043		0.119			
06-01-13-02-06	Woodbridge Dam (Wild)		03/02/1999	N/P	N/P	10251	60	05/01/1999	05/01/99	1	400	0.278	0.046		0	0	14
06-01-06-09-07	Verona (FRH)			N/P	N/P	53987	52	04/07/1999	05/06/99	18	7610	0.176	0.246		0	12	175
06-01-06-09-08	Verona (FRH)			N/P	N/P	50989	52	04/03/1999	05/19/99	18	12595	0.186	0.247		0	15	194
	Total		03/22/1999			104976		04/03/1999	05/19/99	36	12595	0.186		0.240			
05-01-02-07-12	Georgiana Slough (FRH)			56	47	26330	75	04/14/1999	05/04/99	10	5710	0.189	0.261		6	6	91
05-01-02-07-13	Georgiana Slough (FRH)			56	47	26248	75	04/16/1999	05/11/99	10	7235	0.193	0.256		12	3	78
	Total		03/30/1999			52578		04/14/1999	05/11/99	20	7635	0.189		0.261			
05-01-02-07-14	Ryde (FRH)			54	53	25873	75	04/11/1999	05/08/99	13	7470	0.185	0.353		0	11	126
05-01-02-07-15	Ryde (FRH)			54	53	25133	75	04/13/1999	05/03/99	10	5710	0.189	0.274		0	0	114
	Total		03/31/1999			51006		04/11/1999	05/08/99	23	7470	0.185		0.316			
05-24-16	West Sacramento (FRH)			59	55	25621	82	04/24/1999	05/07/99	28	4430	0.220	0.647		0	0	256
05-24-17	West Sacramento (FRH)			59	55	26174	82	04/21/1999	05/16/99	34	8015	0.214	0.789		0	4	306
	Total		04/15/1999			51795		04/21/1999	05/16/99	62	8015	0.214		0.727			
06-26-42	Mossdale (MRFF)			53	62	24765	79	04/22/1999	05/10/99	8	5790	0.212	0.198		438	463	128
06-26-43	Mossdale (MRFF)			53	62	24773	79	04/22/1999	05/06/99	15	4710	0.218	0.361		521	475	135
06-26-44	Mossdale (MRFF)			53	62	25279	79	04/22/1999	05/21/99	13	9795	0.227	0.295		546	497	132
	Total		04/19/1999			74817		04/22/1999	05/21/99	36	9795	0.227		0.276			
06-26-45	Dos Reis (MRFF)			54	63	25014	80	04/27/1999	05/04/99	20	2750	0.239	0.435		86	17	151
06-26-46	Dos Reis (MRFF)			54	63	24841	80	04/28/1999	05/21/99	19	8235	0.238	0.417		61	21	225

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		04/19/1999			49855		04/27/1999	05/21/99	39	8435	0.234		0.434			
06-46-06	Mossdale (MRFF)		04/20/1999	N/P	N/P	23775	78	04/30/1999	05/07/99	2	2790	0.242	0.045		479	367	70
06-26-47	Jersey Point (MRFF)			51	63	24359	81	04/23/1999	05/09/99	25	5270	0.215	0.620		0	2	380
06-01-11-08-15	Jersey Point (MRFF)			51	63	25101	81	04/23/1999	05/05/99	34	4030	0.215	0.818		12	46	334
	Total		04/21/1999			49460		04/23/1999	05/09/99	59	5270	0.215		0.720			
05-23-26	Port Chicago (FRH)			54	62	25576	89	04/28/1999	05/04/99	14	-	-	**		0	0	172
05-23-27	Port Chicago (FRH)			54	62	25518	89	04/28/1999	05/07/99	21	-	-	**		0	0	260
	Total		04/26/1999			51094		04/28/1999	05/07/99	35	-	-		**			
** Survival not calculated for releases downstream of Chipps Island																	
05-01-02-08-01	Georgiana Slough (FRH)			54	63	22577	86	05/05/1999	05/19/99	19	4905	0.227	0.482		0	9	160
05-01-02-08-02	Georgiana Slough (FRH)			54	63	27393	86	05/05/1999	05/15/99	12	3305	0.209	0.273		1	6	279
	Total		04/27/1999			49970		05/05/1999	05/19/99	31	4905	0.227		0.355			
05-24-14	Ryde (FRH)			55	61	26489	86	05/01/1999	05/18/99	34	5905	0.228	0.732		0	0	386
05-24-15	Ryde (FRH)			55	61	25814	86	05/02/1999	05/14/99	30	3925	0.210	0.721		0	0	379
	Total		04/28/1999			52303		05/01/1999	05/18/99	64	5905	0.228		0.698			
06-02-42	Woodbridge Dam (Wild)		04/30/1999	N/P	N/P	9179	86	05/16/1999	05/16/99	1	400	0.278	0.051		0	0	42
05-23-24	West Sacramento (FRH)			55	61	25695	82	05/05/1999	05/21/99	20	5685	0.232	0.436		0	0	311
05-23-25	West Sacramento (FRH)			55	61	25977	82	05/04/1999	05/18/99	18	4705	0.218	0.414		12	0	284
	Total		04/30/1999			51672		05/04/1999	05/21/99	38	5885	0.227		0.421			
06-49-16	New Hope Landing (MOK)			51	59	51042	88	05/07/1999	05/24/99	20	5865	0.226	0.225		0	0	388
06-49-17	New Hope Landing (MOK)			51	59	51078	88	05/01/1999	05/29/99	23	8845	0.212	0.276		0	0	360
	Total		05/03/1999			102120		05/01/1999	05/29/99	43	8845	0.212		0.258			
06-49-18	New Hope Landing (MOK)			51	59	49804	75	05/21/1999	05/27/99	10	1780	0.177	0.148		0	0	138
06-49-19	New Hope Landing (MOK)			51	59	48604	75	05/18/1999	05/24/99	7	2360	0.234	0.080		0	2	113
	Total		05/13/1999			98408		05/18/1999	05/27/99	17	2960	0.206		0.109			
05-01-02-07-06	West Sacramento (FRH)			54	64	25585	87	05/18/1999	05/21/99	10	1580	0.274	0.185		0	18	323
05-01-02-07-07	West Sacramento (FRH)			54	64	25633	87	05/18/1999	05/24/99	10	2360	0.234	0.217		0	3	288
	Total		05/14/1999			51218		05/18/1999	05/24/99	20	2360	0.234		0.217			
06-02-47	Sherman Island (MOK)			52	64	51366	81	05/22/1999	06/05/99	20	2760	0.128	0.396		0	0	505
06-02-48	Sherman Island (MOK)			52	64	49740	84	05/22/1999	05/29/99	26	1760	0.153	0.445		0	0	787
06-49-20	Sherman Island (MOK)			52	64	25162	90	05/22/1999	05/29/99	18	1760	0.153	0.609		0	0	391
06-49-21	Sherman Island (MOK)			52	64	25200	90	05/22/1999	06/03/99	23	2360	0.126	0.941		12	0	429
06-49-22	Sherman Island (MOK)			52	64	25121	90	05/22/1999	05/29/99	14	1760	0.153	0.474		12	0	402
06-49-23	Sherman Island (MOK)			52	64	25579	90	05/22/1999	05/27/99	14	1380	0.160	0.445		0	0	483
	Total		05/21/1999			202168		05/22/1999	06/05/99	115	2760	0.128		0.579			
06-02-43	Woodbridge Dam (Wild)		06/05/1999	N/P	N/P	2772	93	-	-	0	-	-	-		0	0	6
Upper San Joaquin River and Tributaries																	
06-45-33	Grayson (MRFF)		03/24/1999	N/P	N/P	20402	79	05/06/1999	05/06/99	1	400	0.278	0.023		313	230	33
06-45-28	Merced River FF (MRFF)			N/P	N/P	25462	82	04/29/1999	05/01/99	3	1190	0.275	0.056		262	356	48
06-45-29	Merced River FF (MRFF)			N/P	N/P	25445	82	04/28/1999	05/03/99	5	2350	0.272	0.094		291	244	67
06-45-30	Merced River FF (MRFF)			N/P	N/P	25221	82	04/24/1999	05/04/99	4	3430	0.217	0.095		232	320	49
	Total		04/14/1999			76128		04/24/1999	05/04/99	12	3430	0.217		0.095			
06-45-31	Hatfield State Park (MRFF)			N/P	N/P	24123	85	04/21/1999	05/07/99	14	5310	0.217	0.348		802	418	142
06-45-32	Hatfield State Park (MRFF)			N/P	N/P	24640	85	04/24/1999	05/04/99	7	3430	0.217	0.171		715	438	75
	Total		04/16/1999			48763		04/21/1999	05/07/99	21	5310	0.217		0.258			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-46-01	La Grange (MRFF)		04/17/1999	N/P	N/P	25534	86	04/28/1999	05/13/99	3	5275	0.229	0.067		334	369	84
06-46-02	La Grange (MRFF)		04/18/1999	N/P	N/P	25679	88	05/02/1999	05/15/99	2	4305	0.214	0.047		538	474	90
06-46-04	Old Fisherman's Club - SJ River (MRFF)		04/18/1999	N/P	N/P	25121	85	04/22/1999	05/14/99	11	7035	0.212	0.268		880	515	92
06-46-07	Tuolumne River (MRFF)		04/18/1999	N/P	N/P	13929	74	05/16/1999	05/16/99	1	400	0.278	0.034			156	18
06-46-03	La Grange (MRFF)		04/19/1999	N/P	N/P	25008	84	05/07/1999	05/14/99	2	2325	0.202	0.052		532	390	88
06-46-05	Old Fisherman's Club - SJ River (MRFF)		04/19/1999	N/P	N/P	25836	85	04/24/1999	05/06/99	9	4030	0.215	0.210		464	614	93
06-01-11-07-14	Merced River FF (MRFF)			N/P	N/P	24075	80	-	-	0	-	-	-		44	48	4
06-01-11-08-01	Merced River FF (MRFF)			N/P	N/P	25923	80	05/19/1999	05/19/99	1	400	0.278	0.018		24	60	9
06-01-11-08-02	Merced River FF (MRFF)			N/P	N/P	23868	80	-	-	0	-	-	-		44	39	4
06-01-11-08-03	Merced River FF (MRFF)			N/P	N/P	23936	80	-	-	0	-	-	-		56	101	10
	Total		05/05/1999			97802		05/19/1999	05/19/99	1	400	0.278		0.005			
06-45-34	Hatfield State Park (MRFF)			N/P	N/P	24337	81	05/15/1999	05/15/99	1	380	0.264	0.020		336	594	73
06-45-35	Hatfield State Park (MRFF)			N/P	N/P	23215	81	-	-	0	-	-	-		275	478	68
06-45-36	Hatfield State Park (MRFF)			N/P	N/P	23436	81	05/16/1999	05/16/99	2	400	0.278	0.040		396	263	66
	Total		05/07/1999			70988		05/15/1999	05/16/99	3	780	0.271		0.020			
06-45-37	Knights Ferry (MRFF)		06/01/1999	N/P	N/P	23358	88	-	-	0	-	-	-		84	0	6
06-45-38	Oakdale Recreation Area (MRFF)		06/01/1999	N/P	N/P	23532	86	-	-	0	-	-	-		60	6	0

(1) 1,230 fish were removed from this group during Mossdale efficiency studies.

1998

<u>1998</u> (sampling period: 8/1/97 - 6/29/98)

<u>Late-fall run releases</u>

Upper Sacramento River and Tributaries

05-50-40	Battle Creek (CNFH)			N/P	N/P	66316	118	11/26/1997	12/16/97	12	2820	0.093	0.252		12	38	71
05-50-41	Battle Creek (CNFH)			N/P	N/P	67659	120	12/03/1997	03/09/98	10	12348	0.088	0.217		24	26	46
	Total		11/10/1997			133975		11/26/1997	03/09/98	22	12488	0.083		0.256			
05-50-42	Battle Creek (CNFH)			N/P	N/P	59006	134	12/20/1997	03/16/98	17	9648	0.077	0.486		48	72	206
05-50-48	Battle Creek (CNFH)			N/P	N/P	66244	134	12/23/1997	03/16/98	17	9248	0.076	0.436		60	70	122
	Total		12/09/1997			125250		12/20/1997	03/16/98	34	9648	0.077		0.458			
05-50-59	Battle Creek (CNFH)		01/12/1998	N/P	N/P	61048	137	01/18/1998	03/18/98	26	6415	0.074	0.746		12	0	147
05-50-51	Battle Creek (CNFH)			N/P	N/P	63100	141	01/19/1998	03/11/98	17	5615	0.075	0.467		0	0	403
05-50-52	Battle Creek (CNFH)			N/P	N/P	63872	137	01/20/1998	03/09/98	26	5235	0.074	0.713		0	0	440
05-50-53	Battle Creek (CNFH)			N/P	N/P	61656	139	01/20/1998	03/16/98	20	5815	0.072	0.585		0	0	215
	Total		01/13/1998			188628		01/19/1998	03/16/98	63	6015	0.073		0.593			
05-50-54	Battle Creek (CNFH)			N/P	N/P	67408	137	01/20/1998	03/16/98	15	5815	0.072	0.401		12	0	245
05-50-55	Battle Creek (CNFH)			N/P	N/P	62350	140	01/22/1998	03/12/98	22	5215	0.072	0.633		0	0	252
05-50-56	Battle Creek (CNFH)			N/P	N/P	59003	140	01/21/1998	03/12/98	17	5415	0.074	0.508		24	0	155
	Total		01/14/1998			188761		01/20/1998	03/16/98	54	5815	0.072		0.516			
05-50-57	Battle Creek (CNFH)			N/P	N/P	57046	138	01/27/1998	03/18/98	18	4715	0.064	0.639		24	0	201
05-50-58	Battle Creek (CNFH)			N/P	N/P	60145	141	01/28/1998	03/18/98	13	4515	0.063	0.448		12	0	130
	Total		01/22/1998			117191		01/27/1998	03/18/98	31	4715	0.064		0.536			

Sacramento-San Joaquin Estuary

05-50-50	Georgiana Slough (CNFH)		12/04/97	54	52	61276	127	01/17/1998	02/01/98	2	3100	0.135	0.032		52	101	7
05-50-60	Ryde (CNFH)		12/05/1997	54	52	46756	123	12/11/1997	01/14/98	22	4573	0.091	0.674		0	18	41

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-50-61	Port Chicago (CNFH)		12/29/1997	52	48	48080	127	01/03/1998	01/09/98	5	-	-	**		0	0	141
** Survival not calculated for releases downstream of Chipps Island																	
05-50-49	Georgiana Slough (CNFH)		01/13/98	52	50	66893	140	01/18/1998	02/03/98	18	3300	0.135	0.260		24	0	240
05-50-62	Ryde (CNFH)		01/14/1998	50	50	49059	142	01/16/1998	02/01/98	48	3300	0.135	0.944		0	0	167
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-01-15-12	Caldwell Park (LSNFH)		04/09/1998	N/P	N/P	20846	78	04/20/1998	05/06/98	15	6440	0.263	0.356		0	0	0
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-12-01-12	Okie Dam (Wild)		01/08/1998	N/P	N/P	1631	36	-	-	0	-	-	-		0	0	2
06-01-12-01-13	Okie Dam (Wild)		01/14/1998	N/P	N/P	1794	35	-	-	0	-	-	-		0	0	0
06-01-12-01-14	Okie Dam (Wild)		01/30/1998	N/P	N/P	267	35	-	-	0	-	-	-		0	0	0
06-01-12-01-15	Okie Dam (Wild)		02/26/1998	N/P	N/P	98	40	-	-	0	-	-	-		0	0	0
06-01-12-02-01	Adams Dam (Wild)		03/09/1998	N/P	N/P	1018	37	-	-	0	-	-	-		0	0	3
06-01-12-02-05	Okie Dam (Wild)		03/12/1998	N/P	N/P	110	36	-	-	0	-	-	-		0	0	5
Fall run releases																	
Upper Sacramento River and Tributaries																	
06-01-06-04-05	Feather River (DWRRO)		01/25/1998	N/P	N/P	13635	37	04/20/1998	05/04/98	2	5640	0.261	0.073		0	0	0
06-01-06-04-06	Feather River (DWRRO)		02/16/1998	N/P	N/P	13586	37	-	-	0	-	-	-		0	0	16
06-01-06-04-07	Feather River (DWRRO)		02/22/1998	N/P	N/P	10869	37	05/15/1998	06/15/98	4	8702	0.189	0.253		0	0	33
06-01-06-04-08	Feather River (DWRRO)		02/27/1998	N/P	N/P	12633	37	-	-	0	-	-	-		0	0	63
05-01-02-05-08	Battle Creek (CNFH)			N/P	N/P	32198	58	04/13/1998	05/15/98	7	11875	0.250	0.113		0	0	19
05-01-02-05-09	Battle Creek (CNFH)			N/P	N/P	35715	59	04/16/1998	05/07/98	12	8380	0.265	0.165		0	0	28
05-01-02-05-12	Battle Creek (CNFH)			N/P	N/P	27628	56	03/25/1998	05/01/98	10	7870	0.144	0.327		0	0	21
05-01-02-05-13	Battle Creek (CNFH)			N/P	N/P	35600	53	04/16/1998	04/25/98	5	3780	0.263	0.070		0	0	24
	Total		03/04/1998			131141		03/25/1998	05/15/98	34	13245	0.177		0.191			
05-01-02-05-10	Battle Creek (CNFH)			N/P	N/P	36747	58	04/15/1998	05/07/98	13	8580	0.259	0.178		0	0	39
05-01-02-05-11	Battle Creek (CNFH)			N/P	N/P	35122	59	03/27/1998	05/11/98	10	11500	0.174	0.213		0	0	26
	Total		03/06/1998			71869		03/27/1998	05/11/98	23	11500	0.174		0.240			
06-01-06-04-09	Feather River (DWRRO)		03/06/1998	N/P	N/P	12573	37	05/22/1998	06/12/98	3	5592	0.177	0.176		0	0	84
05-01-02-05-14	Battle Creek (CNFH)			N/P	N/P	34610	68	04/18/1998	05/14/98	23	10320	0.265	0.325		0	0	60
05-01-02-05-15	Battle Creek (CNFH)			N/P	N/P	37000	64	04/20/1998	05/22/98	14	12525	0.264	0.187		0	0	39
05-01-02-06-01	Battle Creek (CNFH)			N/P	N/P	37067	64	04/16/1998	05/21/98	23	13790	0.266	0.303		0	0	41
05-01-02-06-02	Battle Creek (CNFH)			N/P	N/P	32511	65	04/19/1998	05/18/98	31	11455	0.265	0.467		0	0	56
05-01-02-06-03	Battle Creek (CNFH)			N/P	N/P	33701	66	04/17/1998	05/13/98	20	10280	0.264	0.292		0	0	33
05-01-02-06-04	Battle Creek (CNFH)			N/P	N/P	29548	65	04/18/1998	05/22/98	24	13345	0.265	0.399		0	0	41
05-01-02-06-05	Battle Creek (CNFH)			N/P	N/P	30971	61	04/16/1998	05/16/98	14	11815	0.265	0.222		0	0	63
05-01-02-06-06	Battle Creek (CNFH)			N/P	N/P	33413	62	04/23/1998	05/15/98	13	8835	0.267	0.190		0	0	56
	Total		03/31/1998			268821		04/16/1998	05/22/98	162	14105	0.265		0.296			
05-01-02-06-07	Battle Creek (CNFH)			N/P	N/P	33392	65	04/19/1998	05/13/98	20	9520	0.264	0.294		0	0	27
05-01-02-06-08	Battle Creek (CNFH)			N/P	N/P	32007	66	04/20/1998	05/19/98	25	11435	0.265	0.384		0	0	47
05-01-02-06-09	Battle Creek (CNFH)			N/P	N/P	31952	64	04/20/1998	05/18/98	27	11055	0.265	0.415		0	0	48
05-01-02-07-04	Battle Creek (CNFH)			N/P	N/P	35534	55	05/03/1998	05/29/98	15	10322	0.265	0.207		0	0	130

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	Total		04/07/1998			132885		04/19/1998	05/29/98	87	15662	0.265		0.321			
05-01-02-06-10	Battle Creek (CNFH)			N/P	N/P	27447	72	04/29/1998	05/28/98	31	11442	0.265	0.554		0	0	102
05-01-02-06-11	Battle Creek (CNFH)			N/P	N/P	28307	73	04/29/1998	05/24/98	39	9925	0.265	0.676		0	0	104
05-01-02-06-12	Battle Creek (CNFH)			N/P	N/P	28585	72	04/28/1998	05/29/98	45	12242	0.266	0.770		0	0	150
05-01-02-06-13	Battle Creek (CNFH)			N/P	N/P	28682	71	04/29/1998	05/28/98	41	11442	0.265	0.702		0	0	159
05-01-02-06-14	Battle Creek (CNFH)			N/P	N/P	30741	70	04/29/1998	05/31/98	47	12442	0.262	0.759		0	0	104
05-01-02-06-15	Battle Creek (CNFH)			N/P	N/P	33286	68	04/30/1998	05/30/98	47	11822	0.265	0.693		0	0	202
05-01-02-07-01	Battle Creek (CNFH)			N/P	N/P	35032	69	04/30/1998	05/30/98	40	11842	0.265	0.560		0	0	208
05-01-02-07-02	Battle Creek (CNFH)			N/P	N/P	31762	67	04/29/1998	06/03/98	46	12802	0.247	0.762		0	0	253
	Total		04/22/1998			243842		04/28/1998	06/03/98	336	13202	0.248		0.723			
05-01-02-07-03	Battle Creek (CNFH)			N/P	N/P	32007	66	05/01/1998	05/30/98	38	11502	0.266	0.580		0	0	228
05-01-02-07-05	Battle Creek (CNFH)			N/P	N/P	34922	57	05/06/1998	06/03/98	15	10182	0.244	0.229		0	0	277
	Total		04/23/1998			66929		05/01/1998	06/03/98	53	12062	0.246		0.418			
06-01-06-06-14	Gridley (FRH)			N/P	N/P	42987	78	05/03/1998	06/08/98	45	12242	0.230	0.592		0	0	248
06-01-06-06-15	Gridley (FRH)			N/P	N/P	40687	78	05/04/1998	06/01/98	49	10622	0.254	0.616		0	0	166
	Total		04/30/1998			83674		05/03/1998	06/08/98	94	12242	0.230		0.636			
Sacramento-San Joaquin Estuary																	
06-49-14	Woodbridge Dam (MOK)			N/P	N/P	26721	153	-	-	0	-	-	-		12	0	86
06-49-15	Woodbridge Dam (MOK)			N/P	N/P	26633	153	-	-	0	-	-	-		12	0	128
	Total		09/30/1997			53354											
06-01-13-01-14	Woodbridge Dam (Wild)		03/01/1998	N/P	N/P	11278	59	04/17/1998	05/31/98	13	17022	0.263	0.570		0	0	21
06-01-06-04-10	Fremont Weir (FRH)			N/P	N/P	25835	69	04/01/1998	04/16/98	2	1580	0.069	0.147		0	0	41
06-01-06-04-11	Fremont Weir (FRH)			N/P	N/P	25708	69	04/15/1998	04/26/98	7	4380	0.253	0.140		0	0	37
	Total		03/02/1998			51543		04/01/1998	04/26/98	9	5360	0.143		0.159			
06-01-06-04-12	Elkhorn Park (FRH)			N/P	N/P	25701	67	04/17/1998	05/15/98	4	11075	0.265	0.076		0	0	13
06-01-06-04-13	Elkhorn Park (FRH)			N/P	N/P	27027	67	04/17/1998	05/12/98	6	9920	0.265	0.109		0	0	22
	Total		03/02/1998			52728		04/17/1998	05/15/98	10	11075	0.265		0.093			
06-01-06-05-07	West Sacramento (FRH)			50	56	21380	83	04/19/1998	05/15/98	32	10315	0.265	0.733		0	0	28
06-01-06-05-08	West Sacramento (FRH)			50	56	21556	83	04/17/1998	05/09/98	26	8740	0.264	0.594		0	0	32
	Total		04/15/1998			42936		04/17/1998	05/15/98	58	11075	0.265		0.662			
06-01-11-08-09	Mossdale (MRFF)			54	57	26465	86	04/21/1998	05/02/98	25	4540	0.263	0.467		12	0	60
06-01-11-08-10	Mossdale (MRFF)			54	57	25264	86	04/20/1998	05/02/98	31	4940	0.264	0.605		24	0	39
06-01-11-08-11	Mossdale (MRFF)			54	57	25926	86	04/20/1998	05/01/98	32	4540	0.263	0.611		12	0	58
	Total		04/16/1998			77655		04/20/1998	05/02/98	88	4940	0.264		0.558			
06-01-13-01-15	Woodbridge Dam (Wild)		04/16/1998	N/P	N/P	11367	87	05/01/1998	05/17/98	10	6495	0.265	0.431		0	0	36
06-01-11-08-06	Dos Reis (MRH)			54	59	26215	86	04/21/1998	05/01/98	34	4140	0.261	0.645		0	0	48
06-01-11-08-07	Dos Reis (MRH)			54	59	26366	86	04/21/1998	05/01/98	25	4140	0.261	0.472		0	0	35
06-01-11-08-08	Dos Reis (MRH)			54	59	24792	86	04/20/1998	04/29/98	34	3820	0.265	0.672		0	0	62
	Total		04/17/1998			77373		04/20/1998	05/01/98	93	4540	0.263		0.595			
06-01-11-08-12	Jersey Point (MRH)			59	63	24598	89	04/21/1998	05/03/98	87	4920	0.263	1.750		0	0	110
06-01-11-08-13	Jersey Point (MRH)			59	63	25673	89	04/21/1998	05/01/98	100	4140	0.261	1.937		0	0	91
	Total		04/20/1998			50271		04/21/1998	05/03/98	187	4920	0.263		1.840			
06-02-32	New Hope Landing (MOK)			N/P	N/P	51107	81	04/26/1998	05/18/98	46	8835	0.267	0.439		0	0	23
06-02-33	New Hope Landing (MOK)			N/P	N/P	51372	77	04/26/1998	05/15/98	30	7695	0.267	0.284		0	0	12
	Total		04/21/1998			102479		04/26/1998	05/18/98	76	8835	0.267		0.361			
06-01-06-05-05	Mossdale (FRH)			54	66	24765	84	05/08/1998	05/09/98	2	760	0.264	0.040		72	0	2
06-01-06-05-06	Mossdale (FRH)			54	66	24773	84	04/25/1998	05/16/98	5	8415	0.266	0.099		120	0	11
	Total		04/23/1998			49538		04/25/1998	05/16/98	7	8415	0.266		0.069			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-14-06-06	Dos Reis (FRH)			56	66	23927	91	05/02/1998	05/17/98	8	6115	0.265	0.164		0	0	41
06-01-14-06-07	Dos Reis (FRH)			56	66	24330	91	05/01/1998	05/13/98	9	4960	0.265	0.182		0	0	15
	Total		04/24/1998			48257		05/01/1998	05/17/98	17	6495	0.265		0.173			
06-01-06-05-11	Lighthouse Marina (FRH)			59	61	21312	89	05/01/1998	05/15/98	34	5755	0.266	0.778		0	0	68
06-01-06-05-12	Lighthouse Marina (FRH)			59	61	22856	89	05/01/1998	05/13/98	27	4960	0.265	0.580		0	0	49
	Total		04/27/1998			44168		05/01/1998	05/15/98	61	5755	0.266		0.674			
06-01-06-05-03	Jersey Point (FRH)			59	66	15334	78	05/02/1998	05/07/98	14	2280	0.264	0.450		0	0	16
06-01-06-05-04	Jersey Point (FRH)			59	66	15909	78	04/30/1998	05/12/98	26	4940	0.264	0.805		0	0	31
	Total		04/28/1998			31243		04/30/1998	05/12/98	40	4940	0.264		0.631			
06-02-34	Jersey Point (MOK)			N/P	N/P	51227	86	04/29/1998	05/14/98	110	6100	0.265	1.054		0	0	55
06-02-35	Jersey Point (MOK)			N/P	N/P	52127	84	04/29/1998	05/12/98	105	5340	0.265	0.989		0	0	49
	Total		04/28/1998			103354		04/29/1998	05/14/98	215	6100	0.265		1.021			
06-01-06-05-13	Verona (FRH)			N/P	N/P	37791	78	05/05/1998	05/30/98	38	10022	0.268	0.488		0	0	241
06-01-06-05-14	Verona (FRH)			N/P	N/P	38116	78	05/05/1998	06/06/98	45	11182	0.235	0.652		0	0	194
	Total		04/30/1998			75907		05/05/1998	06/06/98	83	11182	0.235		0.604			
06-01-06-04-14	Mossdale (FRH)			52	64	21405	90	05/08/1998	05/26/98	15	7262	0.265	0.343		360	0	56
06-01-06-04-15	Mossdale (FRH)			52	64	21180	90	05/11/1998	05/21/98	6	4270	0.270	0.137		264	0	34
	Total		05/06/1998			42585		05/08/1998	05/26/98	21	7262	0.265		0.242			
06-01-13-02-01	Woodbridge Dam (Wild)		05/07/1998	N/P	N/P	12311	92	05/17/1998	05/26/98	9	3827	0.266	0.358		0	0	64
06-01-06-05-01	Benicia (FRH)			N/P	N/P	15275	92	-	-	0	-	-	**		0	0	72
06-01-06-05-02	Benicia (FRH)			N/P	N/P	15283	92	-	-	0	-	-	**		0	0	30
	Total		05/07/1998			30558								**			

** Survival not calculated for releases downstream of Chipps Island

06-02-38	New Hope Landing (MOK)			N/P	N/P	51046	101	05/19/1998	06/02/98	52	4967	0.230	0.576		0	0	211
06-02-39	New Hope Landing (MOK)			N/P	N/P	51624	101	05/17/1998	06/07/98	63	6767	0.214	0.743		0	0	300
	Total		05/14/1998			102670		05/17/1998	06/07/98	115	6767	0.214		0.682			
06-01-06-05-09	West Sacramento (FRH)			54	57	17830	99	05/19/1998	05/30/98	37	4607	0.267	1.012		0	0	114
06-01-06-05-10	West Sacramento (FRH)			54	57	16498	99	05/18/1998	05/26/98	29	3427	0.264	0.864		0	0	132
	Total		05/15/1998			34328		05/18/1998	05/30/98	66	5007	0.267		0.935			
06-01-13-02-02	Woodbridge Dam (Wild)		05/20/1998	N/P	N/P	10413	97	06/08/1998	06/08/98	1	160	0.111	0.112		0	0	52
06-01-13-02-03	Woodbridge Dam (Wild)		06/11/1998	N/P	N/P	3484	109	-	-	0	-	-	-		0	0	6
Upper San Joaquin River and Tributaries																	
06-25-20	Merced River FF (MRFF)			50	53	27973	83	04/26/1998	05/29/98	15	13042	0.266	0.262		276	4	53
06-45-23	Merced River FF (MRFF)			50	53	35800	83	04/26/1998	05/30/98	25	13442	0.267	0.340		224	4	81
06-45-24	Merced River FF (MRFF)			50	53	36289	83	04/23/1998	05/21/98	24	11150	0.267	0.322		364	0	66
	Total		04/12/1998			100062		04/23/1998	05/30/98	64	14582	0.266		0.312			
06-25-21	Hatfield State Park (MRFF)			49	50	34805	85	04/27/1998	05/11/98	21	5740	0.266	0.295		512	0	69
06-25-22	Hatfield State Park (MRFF)			49	50	30857	85	04/23/1998	05/12/98	18	7680	0.267	0.284		280	0	46
06-25-23	Hatfield State Park (MRFF)			49	50	8447	85	04/28/1998	05/02/98	2	1920	0.267	0.115		76	0	4
	Total		04/14/1998			74109		04/23/1998	05/12/98	41	7680	0.267		0.270			
06-01-11-07-03	La Grange (MRFF)			50	51	32787	83	04/21/1998	05/29/98	28	14862	0.265	0.420		284	6	94
06-01-11-07-04	La Grange (MRFF)			50	51	26633	83	04/23/1998	05/09/98	5	6500	0.266	0.092		256	0	74
06-01-11-07-05	La Grange (MRFF)			50	51	27404	83	04/29/1998	06/02/98	19	12602	0.250	0.360		312	6	104
06-01-11-07-06	La Grange (MRFF)			50	51	7234	83	05/13/1998	05/20/98	2	3075	0.267	0.135		84	10	45
	Total		04/15/1998			94058		04/21/1998	06/02/98	54	15622	0.252		0.296			

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06-01-11-07-07	Mouth of Tuolumne River (MRFF)		04/16/1998	N/P	59	25754	86	04/21/1998	05/16/98	18	9855	0.263	0.345		212	0	43
06-01-11-07-08	Mouth of Tulomune River (MRFF)		04/17/1998	N/P	59	22006	83	04/23/1998	05/22/98	20	11465	0.265	0.445		220	0	42
06-01-11-07-09	Merced River FF (MRFF)			N/P	52	28248	85	05/13/1998	06/04/98	8	7662	0.231	0.159		228	6	128
06-01-11-07-10	Merced River FF (MRFF)			N/P	52	25482	85	05/18/1998	05/30/98	6	5007	0.267	0.114		180	0	97
06-01-11-07-11	Merced River FF (MRFF)			N/P	52	25220	85	05/25/1998	05/30/98	5	2317	0.268	0.096		204	30	94
06-01-11-07-12	Merced River FF (MRFF)			N/P	52	25046	85	05/15/1998	05/27/98	10	4942	0.264	0.197		228	18	58
	Total		05/03/1998			103996		05/13/1998	06/04/98	29	7662	0.231		0.157			
06-01-11-05-02	Hatfield State Park (MRFF)			53	59	49873	89	05/10/1998	05/29/98	18	7682	0.267	0.176		840	17	214
06-01-11-07-13	Hatfield State Park (MRFF)			53	59	25314	89	05/10/1998	05/30/98	16	8082	0.267	0.307		408	20	97
	Total		05/05/1998			75187		05/10/1998	05/30/98	34	8082	0.267		0.220			
1997																	
1997 (sampling period: 8/5/96 - 7/30/97)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-42-32	Battle Creek (CNFH)			N/P	N/P	61364	98	12/04/1996	02/04/97	8	8242	0.091	0.187		0	0	5
05-42-33	Battle Creek (CNFH)			N/P	N/P	59692	118	11/25/1996	02/19/97	12	10042	0.080	0.326		0	0	147
	Total		11/07/1996			121056		11/25/1996	02/19/97	20	10042	0.080		0.268			
05-42-34	Battle Creek (CNFH)			N/P	N/P	60112	132	12/15/1996	02/28/97	19	8239	0.075	0.546		0	0	497
05-42-35	Battle Creek (CNFH)			N/P	N/P	57947	131	12/15/1996	03/07/97	16	8824	0.074	0.486		0	0	510
	Total		12/10/1996			118059		12/15/1996	03/07/97	35	8824	0.074		0.522			
05-42-36	Battle Creek (CNFH)			N/P	N/P	57910	121	01/16/1997	03/28/97	11	8064	0.078	0.318		0	0	338
05-42-37	Battle Creek (CNFH)			N/P	N/P	63321	117	01/15/1997	04/04/97	17	8864	0.077	0.454		0	0	366
	Total		01/09/1997			121231		01/15/1997	04/04/97	28	8864	0.077		0.390			
05-41-23	Battle Creek (CNFH)			N/P	N/P	53302	147	01/21/1997	03/03/97	12	5124	0.085	0.345		0	0	740
05-41-24	Battle Creek (CNFH)			N/P	N/P	52286	132	01/22/1997	03/25/97	18	6689	0.074	0.607		0	0	393
05-41-25	Battle Creek (CNFH)			N/P	N/P	57739	153	01/21/1997	02/26/97	17	4764	0.089	0.428		0	0	669
05-41-26	Battle Creek (CNFH)			N/P	N/P	57987	115	02/05/1997	04/10/97	16	5505	0.059	0.610		0	0	487
05-41-27	Battle Creek (CNFH)			N/P	N/P	58479	114	01/22/1997	03/28/97	9	6889	0.072	0.276		0	1	422
05-42-41	Battle Creek (CNFH)			N/P	N/P	46137	150	01/22/1997	02/21/97	6	4184	0.094	0.180		0	6	506
	Total		01/16/1997			325930		01/21/1997	04/10/97	78	8269	0.072		0.433			
05-42-38	Battle Creek (CNFH)			N/P	N/P	59919	125	01/23/1997	03/21/97	8	6289	0.075	0.231		0	0	572
05-42-39	Battle Creek (CNFH)			N/P	N/P	53936	149	01/22/1997	03/31/97	15	7089	0.071	0.507		0	0	846
05-42-40	Battle Creek (CNFH)			N/P	N/P	61902	121	01/22/1997	03/21/97	19	6489	0.076	0.522		0	0	426
	Total		01/17/1997			175757		01/22/1997	03/31/97	42	7089	0.071		0.435			
Sacramento-San Joaquin Estuary																	
05-42-31	Miller Park (CNFH)		12/02/1996	52	54	50437	117	12/08/1996	12/17/96	20	2003	0.139	0.371		0	6	145
05-42-29	Benicia (CNFH)		12/30/1996	56	57	46965	118	-	-	0	-	-	**		0	0	413
** Survival not calculated for releases downstream of Chipps Island																	
05-42-30	Miller Park (CNFH)		01/14/1997	41	45	43241	118	01/16/1997	02/07/97	11	4359	0.132	0.251		0	0	42
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-02-07	Caldwell Park (CNFH)		01/30/1997	N/P	N/P	4553	56	-	-	0	-	-	-		0	0	0
Spring run releases																	
Upper Sacramento River and Tributaries																	
06-01-08-05-05	Parrot-Phelan Dam (Wild)		10/12/1996	N/P	N/P	20	114	-	-	0	-	-	-		0	0	0
06-01-12-01-11	Okie Dam (Wild)		12/08/1996	N/P	N/P	429	35	-	-	0	-	-	-		0	0	0

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Sacramento-San Joaquin Estuary																	
06-01-06-03-06	Benicia (FRH)			N/P	N/P	52345	100	05/28/1997	06/03/97	4	-	-	**		0	8	312
06-01-06-03-07	Benicia (FRH)			N/P	N/P	53261	100	05/29/1997	05/29/97	2	-	-	**		0	0	302
06-01-06-03-08	Benicia (FRH)			N/P	N/P	52818	100	05/28/1997	05/30/97	3	-	-	**		0	0	328
06-01-06-03-09	Benicia (FRH)			N/P	N/P	50672	100	05/29/1997	05/29/97	2	-	-	**		0	0	356
06-01-06-03-10	Benicia (FRH)			N/P	N/P	52023	100	05/29/1997	06/04/97	3	-	-	**		0	0	310
06-01-06-03-11	Benicia (FRH)			N/P	N/P	53054	100	05/29/1997	06/05/97	7	-	-	**		0	0	352
	Total		05/15/1997			314173		05/28/1997	06/05/97	21				**			

** Survival not calculated for releases downstream of Chipps Island

Fall run releases

Upper Sacramento River and Tributaries																	
05-01-01-15-11	RBDD (Wild)		02/05/1997	N/P	N/P	641	43	-	-	0	-	-	-		0	0	0
05-01-02-02-08	Battle Creek (CNFH)			N/P	N/P	30589	72	04/15/1997	04/23/97	2	1800	0.139	0.061		0	0	150
05-01-02-02-09	Battle Creek (CNFH)			N/P	N/P	32018	73	04/16/1997	04/23/97	7	1600	0.139	0.205		0	0	140
05-01-02-02-10	Battle Creek (CNFH)			N/P	N/P	33307	73	04/17/1997	04/22/97	3	1200	0.139	0.084		0	0	203
05-01-02-02-11	Battle Creek (CNFH)			N/P	N/P	30962	71	04/22/1997	05/03/97	5	2350	0.136	0.154		0	0	134
05-01-02-02-12	Battle Creek (CNFH)			N/P	N/P	32813	69	04/18/1997	05/03/97	6	3150	0.137	0.174		0	0	94
05-01-02-02-13	Battle Creek (CNFH)			N/P	N/P	28501	70	04/17/1997	05/02/97	8	3150	0.137	0.267		0	0	182
05-01-02-02-14	Battle Creek (CNFH)			N/P	N/P	32178	72	04/16/1997	04/29/97	9	2750	0.136	0.267		0	0	206
05-01-02-02-15	Battle Creek (CNFH)			N/P	N/P	34936	69	04/24/1997	05/07/97	5	2747	0.136	0.137		0	0	171
05-01-02-03-01	Battle Creek (CNFH)			N/P	N/P	33195	71	04/18/1997	05/03/97	7	3150	0.137	0.201		0	3	84
	Total		04/01/1997			288499		04/15/1997	05/07/97	52	4547	0.137		0.171			
05-01-02-03-03	Battle Creek (CNFH)			N/P	N/P	31826	72	04/21/1997	04/28/97	4	1550	0.135	0.121		0	0	87
05-01-02-03-09	Battle Creek (CNFH)			N/P	N/P	33626	69	04/21/1997	05/07/97	5	3347	0.137	0.141		0	0	95
05-01-02-03-10	Battle Creek (CNFH)			N/P	N/P	31777	67	05/05/1997	05/08/97	2	797	0.138	0.059		0	0	86
	Total		04/09/1997			97229		04/21/1997	05/08/97	11	3547	0.137		0.107			
05-01-02-03-02	Battle Creek (CNFH)			N/P	N/P	30619	75	04/26/1997	05/01/97	11	1150	0.133	0.351		0	0	157
05-01-02-03-04	Battle Creek (CNFH)			N/P	N/P	31413	73	04/25/1997	05/07/97	4	2547	0.136	0.122		0	0	195
05-01-02-03-05	Battle Creek (CNFH)			N/P	N/P	34517	74	04/26/1997	04/30/97	6	950	0.132	0.171		0	0	243
05-01-02-03-06	Battle Creek (CNFH)			N/P	N/P	34492	73	04/26/1997	05/18/97	11	4517	0.136	0.304		0	0	171
05-01-02-03-07	Battle Creek (CNFH)			N/P	N/P	34829	73	04/26/1997	05/15/97	12	3947	0.137	0.327		0	0	198
05-01-02-03-08	Battle Creek (CNFH)			N/P	N/P	35473	72	04/29/1997	05/04/97	6	1200	0.139	0.158		0	0	174
05-01-02-03-11	Battle Creek (CNFH)			N/P	N/P	35198	68	04/30/1997	05/08/97	4	1797	0.139	0.107		0	0	128
	Total		04/15/1997			236541		04/25/1997	05/18/97	54	4717	0.136		0.217			
05-01-02-03-12	Battle Creek (CNFH)			N/P	N/P	35045	68	04/30/1997	05/08/97	6	1797	0.139	0.161		0	0	108
05-01-02-03-13	Battle Creek (CNFH)			N/P	N/P	34257	67	05/01/1997	05/07/97	5	1397	0.139	0.137		0	0	100
05-01-02-03-14	Battle Creek (CNFH)			N/P	N/P	34681	61	04/28/1997	04/28/97	1	200	0.139	0.027		0	0	49
05-01-02-03-15	Battle Creek (CNFH)			N/P	N/P	34680	61	04/30/1997	05/11/97	4	2397	0.139	0.108		0	0	61
05-01-02-04-01	Battle Creek (CNFH)			N/P	N/P	34417	56	05/24/1997	05/24/97	1	200	0.139	0.027		0	0	14
05-01-02-04-02	Battle Creek (CNFH)			N/P	N/P	34416	56	-	-	0	-	-			0	0	22
	Total		04/16/1997			207496		04/28/1997	05/24/97	17	5167	0.133		0.080			
05-01-02-04-03	Battle Creek (CNFH)			N/P	N/P	34802	73	-	-	0	-	-			0	0	46
05-01-02-04-04	Battle Creek (CNFH)			N/P	N/P	35000	73	05/16/1997	06/04/97	2	3750	0.130	0.057		12	0	30
05-01-02-04-05	Battle Creek (CNFH)			N/P	N/P	34298	71	05/17/1997	05/18/97	3	370	0.128	0.089		0	0	61
	Total		05/06/1997			104100		05/16/1997	06/04/97	5	3750	0.130		0.048			
Sacramento-San Joaquin Estuary																	
06-48-05	Woodbridge (MOK)			N/P	66	42466	161	-	-	0	-	-	-		24	6	0
06-48-06	Woodbridge (MOK)			N/P	66	42807	161	-	-	0	-	-	-		12	6	5
	Total		10/03/1996														
06-01-13-01-11	Woodbridge Dam (Wild)		04/07/1997	N/P	N/P	11815	85	05/07/1997	05/08/97	2	400	0.139	0.158		0	0	3
06-01-06-02-11	West Sacramento (FRH)			48	63	25642	95	04/22/1997	05/07/97	14	3147	0.137	0.520		0	0	192
06-01-06-02-12	West Sacramento (FRH)			48	63	25032	95	04/22/1997	05/08/97	9	3347	0.137	0.342		0	0	279

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
	Total		04/15/1997			50674		04/22/1997	05/08/97	23	3347	0.137		0.432			
06-49-10	New Hope Landing (MOK)			N/P	N/P	52424	78	04/30/1997	05/05/97	6	1200	0.139	0.107		0	0	72
06-49-11	New Hope Landing (MOK)			N/P	N/P	51032	76	04/29/1997	05/11/97	10	2597	0.139	0.184		0	0	74
	Total		04/23/1997			103456		04/29/1997	05/11/97	16	2597	0.139		0.145			
06-25-41	Gridley (FRH)			N/P	N/P	52669	97	05/04/1997	05/18/97	18	2967	0.137	0.323		0	0	278
06-25-42	Gridley (FRH)			N/P	N/P	52597	97	05/03/1997	05/26/97	17	4567	0.132	0.318		0	0	265
	Total		04/24/1997			105266		05/03/1997	05/26/97	35	4567	0.132		0.327			
06-25-43	Verona (FRH)			N/P	N/P	50757	96	04/30/1997	05/11/97	12	2397	0.139	0.222		0	0	428
06-25-44	Verona (FRH)			N/P	N/P	48562	96	04/29/1997	05/12/97	18	2797	0.139	0.347		0	0	397
	Total		04/24/1997			99319		04/29/1997	05/12/97	30	2797	0.139		0.283			
06-01-06-03-02	Mossdale (FRH)			50	61	23701	100	05/03/1997	05/07/97	2	997	0.138	0.079		96	10	144
06-01-06-03-03	Mossdale (FRH)			50	61	25073	100	05/05/1997	05/18/97	8	2767	0.137	0.302		96	24	185
	Total		04/28/1997			48774		05/03/1997	05/18/97	10	3167	0.137		0.194			
06-01-06-03-04	Dos Reis (FRH)			51	60	25084	97	05/06/1997	05/11/97	7	1197	0.139	0.262		60	17	124
06-01-06-03-05	Dos Reis (FRH)			51	60	24746	97	05/06/1997	05/11/97	3	1197	0.139	0.114		36	12	135
	Total		04/29/1997			49830		05/06/1997	05/11/97	10	1197	0.139		0.188			
06-25-45	Dos Reis (MRFF)			56	60	48973	74	05/08/1997	05/16/97	9	1800	0.139	0.172		108	72	180
06-25-46	Dos Reis (MRFF)			56	60	53483	74	05/10/1997	05/15/97	7	1200	0.139	0.123		156	58	168
	Total		04/29/1997			102456		05/08/1997	05/16/97	16	1800	0.139		0.146			
06-01-06-02-13	West Sacramento (FRH)			49	65	25829	102	05/05/1997	05/15/97	15	2197	0.139	0.544				209
06-01-06-02-14	West Sacramento (FRH)			49	65	26315	102	05/07/1997	05/10/97	7	800	0.139	0.249				291
	Total		05/01/1997			52144		05/05/1997	05/15/97	22	2197	0.139		0.395			
06-01-06-02-07	Jersey Point (MRFF)			48	63	24812	99	05/03/1997	05/10/97	27	1597	0.139	1.020		12	0	293
06-01-06-02-08	Jersey Point (MRFF)			48	63	25049	99	05/04/1997	05/11/97	28	1597	0.139	1.048		0	0	404
06-25-47	Jersey Point (MRFF)			55	64	51576	75	05/04/1997	05/19/97	27	3167	0.137	0.495		12	12	356
	Total		05/02/1997			101437		05/03/1997	05/19/97	82	3367	0.138		0.764			
06-01-06-03-01	Port Chicago (FRH)			58	65	23772	99										335
06-01-06-02-15	Port Chicago (FRH)			58	65	24766	99										251
	Total		05/05/1997														
06-25-48	Dos Reis (MRFF)		05/08/1997	57	63	46674	75	05/15/1997	05/22/97	5	1370	0.119	0.117		24	54	90
06-25-49	Jersey Point (MRFF)		05/12/1997	58	67	47534	74	05/15/1997	05/25/97	18	1970	0.124	0.396		12	2	192
06-01-06-02-09	West Sacramento (FRH)			52	72	25152	107	-	-	0	-	-	-		0	0	40
06-01-06-02-10	West Sacramento (FRH)			82	72	25069	107	05/21/1997	05/21/97	1	200	0.139	0.037		0	0	50
	Total		05/15/1997			50221		05/21/1997	05/21/97	1	200	0.139		0.019			
06-01-13-01-10	Woodbridge Dam (Wild)		05/15/1997	N/P	N/P	11666	88	-	-	0	-	-	-		0	4	3
06-01-13-01-09	Woodbridge Dam (Wild)		05/21/1997	N/P	N/P	3346	86	-	-	0	-	-	-		0	0	0
06-01-13-01-12	Woodbridge Dam (Wild)		05/26/1997	N/P	N/P	7118	92	-	-	0	-	-	-		0	0	0
06-25-50	Dos Reis (MRFF)		05/27/1997	55	68	49078	77	06/04/1997	06/10/97	7	1130	0.112	0.165		312	36	27
06-02-22	Woodbridge Dam (Wild)		05/30/1997	N/P	N/P	12156	92	-	-	0	-	-	-		0	0	15
06-02-23	Woodbridge Dam (Wild)		06/06/1997	N/P	N/P	8090	94	-	-	0	-	-	-		0	0	0
06-02-24	Woodbridge Dam (Wild)		06/10/1997	N/P	N/P	10014	94	-	-	0	-	-	-		0	0	3

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-49-08	New Hope Landing (MOK)			N/P	N/P	53513	101	-	-	0	-	-	-		0	0	15
06-49-09	New Hope Landing (MOK)			N/P	N/P	52155	101	-	-	0	-	-	-		0	0	8
	Total		06/12/1997														
06-02-25	Woodbridge Dam (Wild)		06/14/1997	N/P	N/P	10602	96	-	-	0	-	-	-		0	0	0
06-02-27	Woodbridge Dam (Wild)		06/24/1997	N/P	N/P	5997	101	-	-	0	-	-	-		0	0	6
Upper San Joaquin River and Tributaries																	
06-01-11-05-11	Merced River FF (MRFF)			N/P	53	26045	77	05/06/1997	05/06/97	1	197	0.137	0.036		0	18	21
06-01-11-05-12	Merced River FF (MRFF)			N/P	53	27683	77	05/06/1997	05/08/97	3	597	0.138	0.102		24	3	11
06-01-11-05-13	Merced River FF (MRFF)			N/P	53	31930	77	05/09/1997	05/09/97	1	200	0.139	0.029		36	0	8
	Total		04/20/1997			85658		05/06/1997	05/09/97	5	797	0.138		0.055			
06-01-11-05-15	Hatfield State Park (MRFF)			54	61	24398	75	05/04/1997	05/14/97	6	2197	0.139	0.231		24	18	37
06-01-11-06-01	Hatfield State Park (MRFF)			54	61	29011	75	05/04/1997	05/09/97	3	1197	0.139	0.097		72	11	81
06-01-11-06-02	Hatfield State Park (MRFF)			54	61	25761	75	05/03/1997	05/12/97	7	1997	0.139	0.255		24	2	58
06-01-11-06-03	Hatfield State Park (MRFF)			54	61	25317	75	-	-	0	-	-	-		24	4	59
	Total		04/22/1997			104487		05/03/1997	05/14/97	16	2397	0.139		0.144			
06-01-11-06-07	La Grange (MRFF)			55	48	31112	71	05/18/1997	05/18/97	1	170	0.118	0.035		72	12	6
06-01-11-06-08	La Grange (MRFF)			55	48	29947	71	-	-	0	-	-	-		180	16	29
06-01-11-06-09	La Grange (MRFF)			55	48	24551	71	05/24/1997	05/24/97	1	200	0.139	0.038		96	8	30
06-01-11-06-10	La Grange (MRFF)			55	48	7897	71	05/18/1997	05/18/97	1	170	0.118	0.139		12	0	3
	Total		04/22/1997			93507		05/18/1997	05/24/97	3	1170	0.116		0.036			
06-01-11-06-04	Upper Tuolumne River (MRFF)			56	56	25241	75	05/11/1997	05/18/97	6	1570	0.136	0.227		48	28	83
06-01-11-06-05	Upper Tuolumne River (MRFF)			56	56	25692	75	05/11/1997	05/18/97	2	1570	0.136	0.074		60	14	84
06-01-11-06-06	Upper Tuolumne River (MRFF)			56	56	21531	75	05/08/1997	05/21/97	4	2570	0.127	0.189		84	6	46
	Total		04/23/1997			72464		05/08/1997	05/21/97	12	2570	0.127		0.169			
06-01-11-06-11	Merced River FF (MRFF)			N/P	55	28031	76	-	-	0	-	-	-		0	0	2
06-01-11-06-12	Merced River FF (MRFF)			N/P	55	27915	76	-	-	0	-	-	-		0	0	0
06-01-11-06-13	Merced River FF (MRFF)			N/P	55	10561	76	-	-	0	-	-	-		0	0	0
	Total		05/12/1997														
06-01-11-06-14	Hatfield State Park (MRFF)			61	66	33064	67	-	-	0	-	-	-		180	8	0
06-01-11-06-15	Hatfield State Park (MRFF)			61	66	28294	67	05/28/1997	05/28/97	1	200	0.139	0.033		132	18	5
06-01-11-07-01	Hatfield State Park (MRFF)			61	66	24943	67	-	-	0	-	-	-		96	0	0
06-01-11-07-02	Hatfield State Park (MRFF)			61	66	5856	67	-	-	0	-	-	-		24	0	3
	Total		05/14/1997			92157		05/28/1997	05/28/97	1	200	0.139		0.010			
1996																	
1996 (sampling period: 8/2/95 - 7/29/96)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-36-27	Battle Creek (CNFH)			N/P	N/P	59566	122	12/20/1995	12/20/95	2	155	0.108	0.041		0	24	208
05-41-16	Battle Creek (CNFH)			N/P	N/P	64794	116	12/28/1995	01/24/96	3	3081	0.076	0.079		0	9	203
	Total		11/09/1995			124360		12/20/1995	01/24/96	5	3236	0.062		0.084			
05-41-07	Battle Creek (CNFH)			N/P	N/P	74726	123	12/20/1995	01/29/96	17	4236	0.072	0.412		24	38	388
05-41-09	Battle Creek (CNFH)			N/P	N/P	62091	126	12/28/1995	02/01/96	6	4681	0.090	0.139		36	24	553
	Total		12/08/1995			136817		12/20/1995	02/01/96	23	4836	0.076		0.286			
05-34-16	Battle Creek (CNFH)			N/P	N/P	59136	121	01/11/1996	03/15/96	31	9007	0.096	0.708		72	194	258
05-36-18	Battle Creek (CNFH)			N/P	N/P	129697	134	01/12/1996	03/26/96	57	9907	0.092	0.623		108	625	1110
	Total		01/02/1996			188833		01/11/1996	03/26/96	88	10007	0.091		0.663			
05-41-08	Battle Creek (CNFH)			N/P	N/P	68104	132	01/14/1996	03/04/96	28	7106	0.097	0.552		60	308	469
05-41-17	Battle Creek (CNFH)			N/P	N/P	67195	143	01/17/1996	03/21/96	35	8506	0.091	0.745		84	271	664
05-41-18	Battle Creek (CNFH)			N/P	N/P	60395	110	01/17/1996	03/07/96	16	6906	0.094	0.366		12	26	299
	Total		01/03/1996			195694		01/14/1996	03/21/96	79	9106	0.093		0.564			

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TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
05-36-28	Battle Creek (CNFH)			N/P	N/P	64933	127	01/19/1996	03/21/96	24	8106	0.089	0.538		72	126	384
05-41-19	Battle Creek (CNFH)			N/P	N/P	66808	114	01/21/1996	03/25/96	13	7906	0.084	0.299		36	34	337
	Total		01/10/1996			131741		01/19/1996	03/25/96	37	8306	0.086		0.424			
Sacramento-San Joaquin Estuary																	
05-41-12	Courtland (CNFH)		01/09/1996	53	52	34122	131	01/15/1996	02/13/96	26	5320	0.123	0.804		72	469	226
05-41-13	Georgiana Slough (CNFH)		01/10/1996	55	52	33670	125	01/19/1996	02/16/96	5	4720	0.113	0.171		180	588	146
05-41-14	Ryde (CNFH)		01/11/1996	52	51	30281	122	01/17/1996	01/27/96	21	2140	0.135	0.667		12	0	240
05-41-11	Port Chicago (CNFH)		01/16/1996	N/P	N/P	34596	145	01/17/1996	01/28/96	21	-	-	**		0	0	265

** Survival not calculated for releases downstream of Chipps Island

Winter run releases

Upper Sacramento River and Tributaries

05-01-01-13-01	Caldwell Park (CNFH)			N/P	54	1176	75	-	-	0	-	-	-		0	0	7
05-01-01-13-02	Caldwell Park (CNFH)			N/P	54	1043	75	-	-	0	-	-	-		0	0	0
05-01-01-13-03	Caldwell Park (CNFH)			N/P	54	1385	73	-	-	0	-	-	-		0	0	0
05-01-01-13-04	Caldwell Park (CNFH)			N/P	54	643	72	-	-	0	-	-	-		0	0	0
05-01-01-13-05	Caldwell Park (CNFH)			N/P	54	1515	69	-	-	0	-	-	-		0	0	0
05-01-01-13-06	Caldwell Park (CNFH)			N/P	54	759	75	-	-	0	-	-	-		0	0	0
05-01-01-13-07	Caldwell Park (CNFH)			N/P	54	1852	67	-	-	0	-	-	-		0	0	0
05-01-01-13-08	Caldwell Park (CNFH)			N/P	54	1432	71	-	-	0	-	-	-		0	0	0
05-01-01-13-09	Caldwell Park (CNFH)			N/P	54	1061	60	03/26/1996	03/26/96	1	200	0.139	0.882		0	0	0
05-01-01-13-10	Caldwell Park (CNFH)			N/P	54	1848	58	-	-	0	-	-	-		0	0	0
05-01-01-13-11	Caldwell Park (CNFH)			N/P	54	1399	58	-	-	0	-	-	-		0	0	0
05-01-01-13-12	Caldwell Park (CNFH)			N/P	54	1269	57	-	-	0	-	-	-		0	0	0
05-01-01-13-13	Caldwell Park (CNFH)			N/P	54	1616	58	-	-	0	-	-	-		0	0	0
05-01-01-13-14	Caldwell Park (CNFH)			N/P	54	1401	55	-	-	0	-	-	-		0	0	0
05-01-01-13-15	Caldwell Park (CNFH)			N/P	54	1474	61	-	-	0	-	-	-		0	0	0
05-01-01-14-01	Caldwell Park (CNFH)			N/P	54	1705	60	-	-	0	-	-	-		0	0	0
05-01-01-14-02	Caldwell Park (CNFH)			N/P	54	1770	60	-	-	0	-	-	-		0	0	0
05-01-01-14-03	Caldwell Park (CNFH)			N/P	54	1462	54	-	-	0	-	-	-		0	0	0
05-01-01-14-04	Caldwell Park (CNFH)			N/P	54	93	61	-	-	0	-	-	-		0	0	0
05-01-01-14-05	Caldwell Park (CNFH)			N/P	54	1276	60	-	-	0	-	-	-		0	0	0
05-01-01-14-06	Caldwell Park (CNFH)			N/P	54	1043	61	-	-	0	-	-	-		0	0	0
05-01-01-14-07	Caldwell Park (CNFH)			N/P	54	1694	59	-	-	0	-	-	-		0	0	0
05-01-01-14-08	Caldwell Park (CNFH)			N/P	54	1563	62	-	-	0	-	-	-		0	0	0
05-01-01-14-09	Caldwell Park (CNFH)			N/P	54	1602	60	-	-	0	-	-	-		0	0	8
05-01-01-14-10	Caldwell Park (CNFH)			N/P	54	1057	65	-	-	0	-	-	-		0	0	0
05-01-01-14-11	Caldwell Park (CNFH)			N/P	54	864	66	-	-	0	-	-	-		0	0	0
05-01-01-14-12	Caldwell Park (CNFH)			N/P	54	2093	62	-	-	0	-	-	-		0	0	4
05-01-01-14-13	Caldwell Park (CNFH)			N/P	54	1512	62	-	-	0	-	-	-		0	0	5
05-01-01-14-14	Caldwell Park (CNFH)			N/P	54	1833	53	-	-	0	-	-	-		0	0	0
05-01-01-14-15	Caldwell Park (CNFH)			N/P	54	1086	59	-	-	0	-	-	-		0	0	0
05-01-01-15-01	Caldwell Park (CNFH)			N/P	54	1411	57	-	-	0	-	-	-		0	0	0
05-01-01-15-02	Caldwell Park (CNFH)			N/P	54	1120	60	-	-	0	-	-	-		0	0	0
05-01-01-15-05	Caldwell Park (CNFH)			N/P	54	3185	66	-	-	0	-	-	-		0	0	0
05-01-01-15-06	Caldwell Park (CNFH)			N/P	54	1912	56	-	-	0	-	-	-		0	0	0
	Total		12/21/1995			48154		03/26/1996	03/26/96	1	200	0.139		0.019			

Spring run releases

Upper Sacramento River and Tributaries

B6-12-01	Butte Creek (Wild)		01/04/1996	N/P	N/P	5259	36	-	-	0	-	-	-		0	0	3
B6-12-02	Butte Creek (Wild)		01/25/1996	N/P	N/P	5892	37	05/08/1996	05/08/96	1	200	0.139	0.159		0	0	5
B6-12-03	Butte Creek (Wild)		03/22/1996	N/P	N/P	68	46	-	-	0	-	-	-		0	0	0

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B6-12-04	Butte Creek (Wild)		04/08/1996	N/P	N/P	132	65	-	-	0	-	-	-		0	0	0
06-01-08-04-08	Deer Creek (Wild)		05/01/1996	N/P	N/P	782	38	-	-	0	-	-	-		0	0	0
06-01-08-04-09	Mill Creek (Wild)		05/02/1996	N/P	N/P	157	38	-	-	0	-	-	-		0	0	0
B6-12-05	Butte Creek (Wild)		05/04/1996	N/P	N/P	168	80	-	-	0	-	-	-		0	0	0
Fall run releases																	
Upper Sacramento River and Tributaries																	
05-01-02-01-14	Battle Creek (CNFH)		03/14/1996	N/P	N/P	295384	65	03/29/1996	05/26/96	62	9600	0.113	0.241		0	4	722
05-01-02-01-15	Battle Creek (CNFH)		03/29/1996	N/P	N/P	308443	68	04/08/1996	05/27/96	90	8940	0.124	0.306		0	0	1408
06-01-14-05-13	Live Oak (Wild)			N/P	N/P	51755	58	04/17/1996	05/20/96	27	6740	0.138	0.493		0	0	385
06-01-14-05-14	Live Oak (Wild)			N/P	N/P	57443	58	04/30/1996	05/20/96	29	4140	0.137	0.479		0	0	403
06-01-14-05-15	Live Oak (Wild)			N/P	N/P	50650	58	04/28/1996	05/17/96	22	3940	0.137	0.413		0	0	334
06-01-14-06-05	Live Oak (Wild)			N/P	N/P	53526	58	04/15/1996	05/17/96	32	6540	0.138	0.565		0	0	420
	Total		04/05/1996			213374		04/15/1996	05/20/96	110	7340	0.142		0.473			
05-01-02-02-01	Battle Creek (CNFH)		04/23/1996	N/P	N/P	268960	80	05/01/1996	05/28/96	125	5540	0.137	0.440		0	0	1962
06-01-06-01-03	Live Oak (Wild)		05/03/1996	N/P	N/P	100033	80	05/08/1996	05/30/96	57	4540	0.137	0.540		0	0	1022
06-01-14-06-01	Yuba City Ramp (FRH)			N/P	N/P	50890	87	05/19/1996	05/31/96	58	2600	0.139	1.067		0	0	750
06-01-14-06-02	Yuba City Ramp (FRH)			N/P	N/P	51610	87	05/19/1996	05/31/96	70	2600	0.139	1.270		0	0	873
06-01-14-06-03	Yuba City Ramp (FRH)			N/P	N/P	51300	87	05/19/1996	05/30/96	67	2400	0.139	1.223		0	0	774
06-01-14-06-04	Yuba City Ramp (FRH)			N/P	N/P	50371	87	05/19/1996	06/03/96	53	2760	0.120	1.142		0	0	770
	Total		05/15/1996			204171		05/19/1996	06/03/96	248	2760	0.120		1.318			
Sacramento-San Joaquin Estuary																	
06-57-61	Woodbridge Dam (MOK)		09/26/1995	N/P	N/P	75248	146	02/16/1996	02/16/96	1	200	0.139	0.012		48	0	299
06-01-13-01-07	Woodbridge Dam (Wild)		04/10/1996	N/P	N/P	3852	93	05/23/1996	05/23/96	1	200	0.139	0.243		0	0	17
06-01-06-01-14	Mossdale (FRH)			50	60	49024	78	-	-	0	-	-	-		480	28	32
06-01-06-01-15	Mossdale (FRH)			50	60	51718	78	04/25/1996	04/27/96	2	600	0.139	0.036		576	0	68
	Total		04/15/1996			100742		04/25/1996	04/27/96	2	600	0.139		0.019			
06-01-14-05-05	Turner Cut (FRH)		04/17/1996	52	63	50103	79	04/30/1996	05/15/96	5	3140	0.136	0.095		12	0	100
06-01-06-01-13	Jersey Point (FRH)		04/18/1996	50	62	50041	78	04/21/1996	06/03/96	25	8300	0.131	0.496		0	0	332
06-01-06-01-08	Miller Park (FRH)		04/25/1996	48	57	49708	81	04/30/1996	05/16/96	58	3340	0.136	1.112		0	0	618
06-01-06-02-01	Mossdale (FRH)			62	64	50462	81	05/07/1996	05/07/96	1	200	0.139	0.019		552	68	10
06-01-06-02-05	Mossdale (FRH)			62	64	49194	81	-	-	0	-	-	-		780	32	16
	Total		04/30/1996			99656		05/07/1996	05/07/96	1	200	0.139		0.009			
06-01-06-01-10	Dos Reis (FRH)			52	63	48770	84	05/11/1996	05/11/96	1	180	0.125	0.021		0	0	27
06-01-06-02-03	Dos Reis (FRH)			52	63	49868	83	05/09/1996	05/23/96	2	2940	0.136	0.038		0	0	40
	Total		05/01/1996			98638		05/09/1996	05/23/96	3	2940	0.136		0.029			
06-01-11-04-12	Dos Reis (MRFF)			59	63	22198	84	05/08/1996	05/10/96	2	600	0.139	0.084		0	0	3
06-01-11-04-13	Dos Reis (MRFF)			59	63	25414	84	05/05/1996	05/07/96	2	600	0.139	0.074		0	0	37
06-01-11-04-14	Dos Reis (MRFF)			59	63	16050	84	05/06/1996	05/06/96	1	200	0.139	0.058		0	0	8
06-01-11-04-15	Dos Reis (MRFF)			59	63	31208	84	05/08/1996	05/12/96	5	980	0.136	0.153		0	0	10
	Total		05/01/1996			94870		05/05/1996	05/12/96	10	1580	0.137		0.100			
06-01-06-01-11	Turner Cut (FRH)			56	70	48100	82	05/09/1996	05/13/96	3	940	0.131	0.062		12	0	30
06-01-06-01-12	Turner Cut (FRH)			62	70	49923	84	05/11/1996	05/11/96	1	180	0.125	0.021		12	0	41
	Total		05/02/1996			98023		05/09/1996	05/13/96	4	940	0.131		0.041			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	SWP	Expanded Ocean Recovery Numbers ^
06-01-06-01-09	Jersey Point (FRH)		05/03/1996	51	64	50820	87	05/06/1996	05/19/96	24	2740	0.136	0.452		12	0	311
06-01-11-05-01	Jersey Point (MRFF)		05/03/1996	50	66	46190	77	05/05/1996	05/22/96	39	3540	0.137	0.804		0	0	186
06-01-06-02-02	Miller Park (FRH)		05/06/1996	58	65	49881	83	05/10/1996	05/23/96	30	2740	0.136	0.575		12	0	540
06-01-14-05-06	Benicia (FRH)		05/07/1996	51	66	51288	84	05/11/1996	05/16/96	2	-	-	**		0	0	793
** Survival not calculated for releases downstream of Chipps Island																	
06-01-06-02-06	Dos Reis (FRH)		05/09/1996	54	60	50168	83	-	-	0	-	-	-		0	8	19
06-02-16	New Hope Landing (MOK)			N/P	N/P	49946	90	05/20/1996	06/03/96	14	2560	0.119	0.307		0	0	252
06-02-17	New Hope Landing (MOK)			N/P	N/P	52123	91	05/20/1996	05/25/96	11	1200	0.139	0.198		0	0	243
	Total		05/15/1996			102069		05/20/1996	06/03/96	25	2560	0.119		0.269			
06-01-06-02-04	Dos Reis (FRH)		05/16/1996	51	62	50243	88	-	-	0	-	-	-		12	36	90
06-02-18	Jersey Point (MOK)			N/P	N/P	50832	97	05/22/1996	05/29/96	88	1600	0.139	1.620		0	0	1067
06-02-19	Jersey Point (MOK)			N/P	N/P	52389	90	05/21/1996	05/30/96	107	2000	0.139	1.912		0	0	995
	Total		05/20/1996			103221		05/21/1996	05/30/96	195	2000	0.139		1.768			
06-02-20	New Hope Landing (MOK)			N/P	N/P	52382	107	06/08/1996	06/08/96	1	200	0.139	0.018		12	0	21
06-02-21	New Hope Landing (MOK)			N/P	N/P	52205	102	06/08/1996	06/08/96	1	200	0.139	0.018		0	4	4
	Total		06/04/1996			104587		06/08/1996	06/08/96	2	200	0.139		0.018			
Upper San Joaquin River and Tributaries																	
06-01-11-04-08	Merced River FF (MRFF)			N/P	51	21010	80	-	-	0	-	-	-		36	0	12
06-01-11-04-09	Merced River FF (MRFF)			N/P	51	21069	80	-	-	0	-	-	-		12	6	5
06-01-11-04-10	Merced River FF (MRFF)			N/P	51	22637	80	05/08/1996	05/08/96	1	200	0.139	0.041		144	0	5
06-01-11-04-11	Merced River FF (MRFF)			N/P	51	21691	80	-	-	0	-	-	-		96	0	0
	Total		04/25/1996			86407		05/08/1996	05/08/96	1	200	0.139		0.011			
06-01-11-05-03	Hatfield State Park (MRFF)			58	64	21705	93	-	-	0	-	-	-		36	0	1
06-01-11-05-04	Hatfield State Park (MRFF)			58	64	22018	93	05/05/1996	05/05/96	1	200	0.139	0.043		72	0	8
06-01-11-05-05	Hatfield State Park (MRFF)			58	64	20613	93	-	-	0	-	-	-		144	8	3
	Total		04/26/1996			64336		05/05/1996	05/05/96	1	200	0.139		0.015			
06-01-11-05-06	La Grange (MRFF)			53	49	21551	88	-	-	0	-	-	-		168	18	3
06-01-11-05-07	La Grange (MRFF)			53	49	22809	88	05/02/1996	05/06/96	2	1000	0.139	0.082		84	8	9
06-01-11-05-08	La Grange (MRFF)		04/26/1996	53	49	22931	88	05/06/1996	05/06/96	1	200	0.139	0.041		132	24	8
	Total					67291		05/02/1996	05/06/96	3	1000	0.139		0.042			
06-01-11-05-09	Upper Tuolumne River (MRFF)			N/P	N/P	22756	90	05/02/1996	05/02/96	1	200	0.139	0.041		156	12	7
06-01-11-05-10	Upper Tuolumne River (MRFF)			N/P	N/P	27779	90	05/01/1996	05/08/96	3	1600	0.139	0.101		204	0	13
	Total		04/27/1996			50535	90	05/01/1996	05/08/96	4	1600	0.139		0.074			
1995																	
1995 (sampling period: 10/3/94 - 7/31/95)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-36-22	Battle Creek (CNFH)		11/10/1994	N/P	N/P	61673	120	12/06/1994	01/21/95	19	8435	0.125	0.321		36	53	275
05-37-42	Battle Creek (CNFH)		12/07/1994	N/P	N/P	62356	127	12/22/1994	01/25/95	27	6034	0.120	0.470		60	165	268
05-35-46	Battle Creek (CNFH)			N/P	N/P	56340	121	01/11/1995	03/03/95	14	6797	0.091	0.356		12	50	258
05-36-20	Battle Creek (CNFH)			N/P	N/P	125754	138	01/11/1995	03/17/95	64	7829	0.082	0.803		36	422	1727
05-36-21	Battle Creek (CNFH)			N/P	N/P	128159	127	01/11/1995	04/07/95	34	9228	0.074	0.468		96	136	1322
	Total		01/05/1995			310253		01/11/1995	04/07/95	112	9228	0.074		0.637			
05-37-43	Battle Creek (CNFH)		01/11/1995	N/P	N/P	62847	114	01/18/1995	03/08/95	20	5797	0.081	0.514		12	44	330

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
Sacramento-San Joaquin Estuary																	
05-34-25	Georgiana Slough (CNFH)		12/05/1994	52	50	31532	112	12/19/1994	01/06/95	4	2880	0.105	0.157		48	39	11
05-34-26	Isleton (CNFH)		12/05/1994	54	50	30220	115	12/11/1994	01/03/95	15	3879	0.112	0.575		0	6	29
06-25-25	Georgiana Slough (CNFH)		01/04/1995	52	47	31328	128	01/12/1995	01/16/95	2	1000	0.139	0.060		120	717	101
06-25-24	Isleton (CNFH)		01/05/1995	54	48	31557	132	01/09/1995	01/14/95	13	1200	0.139	0.386		48	183	266
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-01-10-02	Bonnyview			N/P	N/P	359	71	-	-	0	-	-	-		0	0	0
05-01-01-10-03	Bonnyview			N/P	N/P	787	74	-	-	0	-	-	-		0	0	0
05-01-01-10-04	Bonnyview			N/P	N/P	1181	73	-	-	0	-	-	-		0	0	0
05-01-01-10-05	Bonnyview			N/P	N/P	875	70	04/14/1995	04/14/95	1	200	0.139	1.070		0	0	0
05-01-01-10-06	Bonnyview			N/P	N/P	767	76	-	-	0	-	-	-		0	0	0
05-01-01-10-07	Bonnyview			N/P	N/P	931	73	-	-	0	-	-	-		0	0	0
05-01-01-10-08	Bonnyview			N/P	N/P	910	78	-	-	0	-	-	-		0	0	0
05-01-01-10-09	Bonnyview			N/P	N/P	1403	72	04/14/1995	04/14/95	1	200	0.139	0.667		0	0	0
05-01-01-10-10	Bonnyview			N/P	N/P	1235	74	-	-	0	-	-	-		0	0	0
05-01-01-10-11	Bonnyview			N/P	N/P	1263	76	05/05/1995	05/05/95	1	200	0.139	0.741		0	0	4
05-01-01-10-12	Bonnyview			N/P	N/P	1063	73	-	-	0	-	-	-		0	0	2
05-01-01-10-13	Bonnyview			N/P	N/P	1263	82	-	-	0	-	-	-		0	0	0
05-01-01-10-14	Bonnyview			N/P	N/P	1585	82	-	-	0	-	-	-		0	0	0
05-01-01-10-15	Bonnyview			N/P	N/P	1841	81	03/06/1995	03/06/95	1	200	0.139	0.508		0	0	5
05-01-01-11-01	Bonnyview			N/P	N/P	1642	88	04/05/1995	04/05/95	1	200	0.139	0.570		0	0	2
05-01-01-11-02	Bonnyview			N/P	N/P	2304	88	-	-	0	-	-	-		0	0	5
05-01-01-11-03	Bonnyview			N/P	N/P	1416	84	-	-	0	-	-	-		0	0	0
05-01-01-11-04	Bonnyview			N/P	N/P	1336	84	-	-	0	-	-	-		0	0	0
05-01-01-11-05	Bonnyview			N/P	N/P	982	82	-	-	0	-	-	-		0	0	4
05-01-01-11-06	Bonnyview			N/P	N/P	1873	84	04/03/1995	04/03/95	1	200	0.139	0.500		0	0	4
05-01-01-11-07	Bonnyview			N/P	N/P	1700	77	-	-	0	-	-	-		0	0	0
05-01-01-11-08	Bonnyview			N/P	N/P	1703	79	-	-	0	-	-	-		0	0	0
05-01-01-11-09	Bonnyview			N/P	N/P	998	78	-	-	0	-	-	-		0	0	0
05-01-01-11-10	Bonnyview			N/P	N/P	1254	77	-	-	0	-	-	-		0	0	0
05-01-01-11-11	Bonnyview			N/P	N/P	1350	76	04/03/1995	04/03/95	1	200	0.139	0.693		0	0	0
05-01-01-11-12	Bonnyview			N/P	N/P	1258	93	-	-	0	-	-	-		0	0	2
05-01-01-11-13	Bonnyview			N/P	N/P	1011	94	-	-	0	-	-	-		0	0	4
05-01-01-11-14	Bonnyview			N/P	N/P	1162	85	-	-	0	-	-	-		0	0	0
05-01-01-11-15	Bonnyview			N/P	N/P	1389	86	-	-	0	-	-	-		0	0	2
05-01-01-12-01	Bonnyview			N/P	N/P	1452	84	-	-	0	-	-	-		0	0	3
05-01-01-12-02	Bonnyview			N/P	N/P	1744	86	-	-	0	-	-	-		0	0	0
05-01-01-12-03	Bonnyview			N/P	N/P	1375	87	-	-	0	-	-	-		0	0	0
	Total		01/26/1995			41412		03/06/1995	05/05/95	7	6570	0.075		0.294			
Fall run releases																	
Upper Sacramento River and Tributaries																	
05-01-01-12-04	RBDD (CNFH)			N/P	N/P	46730	49	04/25/1995	05/30/95	13	7016	0.135	0.267		0	0	391
05-01-01-12-05	RBDD (CNFH)			N/P	N/P	45472	49	04/24/1995	05/21/95	30	5399	0.134	0.641		0	0	328
	Total		03/10/1995			92202		04/24/1995	05/30/95	43	7195	0.135		0.449			
06-01-06-01-04	Yuba City Ramp (FRH)			48	50	54304	49	04/25/1995	05/29/95	14	6816	0.135	0.248		0	0	448
06-01-06-01-05	Yuba City Ramp (FRH)			48	50	52394	49	04/10/1995	05/22/95	19	7359	0.119	0.397		0	0	399
06-01-06-01-06	Yuba City Ramp (FRH)			48	50	51631	49	04/26/1995	05/21/95	18	5020	0.134	0.338		0	0	558
06-01-06-01-07	Yuba City Ramp (FRH)			48	50	38635	49	04/24/1995	05/26/95	14	6395	0.135	0.350		0	0	290
	Total		03/28/1995			196964		04/10/1995	05/29/95	65	8755	0.122		0.353			
05-01-01-12-06	Battle Creek (CNFH)			N/P	N/P	52653	79	05/02/1995	05/16/95	20	2820	0.131	0.378		0	0	527
05-01-01-12-07	Battle Creek (CNFH)			N/P	N/P	50036	75	05/01/1995	05/30/95	26	5816	0.135	0.502		0	0	497
05-01-01-12-08	Battle Creek (CNFH)			N/P	N/P	50718	64	05/05/1995	06/23/95	12	9416	0.131	0.235		0	0	342
	Total		04/24/1995			153407		05/01/1995	06/23/95	58	10216	0.131		0.374			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-25-26	Yuba City Ramp (FRH)			N/P	N/P	52249	77	05/22/1995	06/04/95	22	2796	0.139	0.395		0	0	592
06-25-27	Yuba City Ramp (FRH)			N/P	N/P	53398	77	05/23/1995	06/07/95	22	3196	0.139	0.386		0	0	709
06-25-28	Yuba City Ramp (FRH)			N/P	N/P	53486	77	05/22/1995	06/08/95	24	3596	0.139	0.420		0	0	846
06-25-29	Yuba City Ramp (FRH)			N/P	N/P	42525	77	05/23/1995	06/08/95	16	3396	0.139	0.353		0	0	711
	Total		05/18/1995			201658		05/22/1995	06/08/95	84	3596	0.139		0.390			
Sacramento-San Joaquin Estuary																	
06-63-47	Lower Mokelumne River (MOK)		10/17/1994	N/P	N/P	49861	160	10/28/1994	12/28/94	2	7079	0.079	0.066		36	30	117
06-63-48	Lower Mokelumne River (MOK)		10/18/1994	N/P	N/P	48142	160	10/26/1994	11/14/94	4	1600	0.056	0.194		12	36	196
06-01-13-01-06	Woodbridge Dam (Wild)		04/07/1995	N/P	N/P	4568	102	-	-	0	-	-	-				48
06-01-14-04-14	Mossdale (FRH)			51	57	50120	70	04/26/1995	05/17/95	10	4220	0.133	0.195		1434	24	245
06-01-14-05-01	Mossdale (FRH)			51	57	50849	70	04/25/1995	05/24/95	10	5820	0.135	0.190		1212	12	216
	Total		04/17/1995			50849		04/25/1995	05/24/95	20	5999	0.139		0.368			
06-01-14-04-12	Dos Reis (FRH)		04/17/1995	51	57	50848	70	05/05/1995	05/26/95	8	4216	0.133	0.154		0	0	234
06-02-11	New Hope Landing (MOK)			N/P	N/P	48345	80	04/25/1995	05/18/95	27	4620	0.134	0.543		0	0	395
06-02-12	New Hope Landing (MOK)			N/P	N/P	49531	80	04/25/1995	05/21/95	23	5220	0.134	0.450		0	0	380
	Total		04/18/1995			97876		04/25/1995	05/21/95	50	5220	0.134		0.495			
06-01-14-04-13	Jersey Point (FRH)		04/19/1995	51	60	50779	70	04/24/1995	05/11/95	26	3579	0.138	0.482		0	0	280
06-02-13	New Hope Landing (MOK)			N/P	N/P	49837	83	05/02/1995	05/17/95	26	3020	0.131	0.517		0	0	366
06-02-14	New Hope Landing (MOK)			N/P	N/P	49625	83	05/01/1995	05/20/95	24	3820	0.133	0.474		0	0	357
	Total		04/25/1995			99462		05/01/1995	05/20/95	50	3820	0.133		0.493			
06-01-14-05-02	Ryde (FRH)		05/01/1995	57	59	51597	81	05/03/1995	05/22/95	47	3820	0.133	0.893		0	0	729
06-01-14-05-03	Miller Park (FRH)		05/01/1995	60	59	50292	81	05/04/1995	05/21/95	32	3420	0.132	0.627		12	0	839
06-31-50	Mossdale (FRH)			49	62	52297	76	05/12/1995	05/24/95	10	2420	0.129	0.192		981	20	193
06-31-51	Mossdale (FRH)			49	62	50265	75	05/12/1995	06/02/95	3	4216	0.133	0.058		828	54	199
	Total		05/05/1995			102562		05/12/1995	06/02/95	13	4216	0.133		0.124			
06-31-47	Dos Reis (FRH)		05/05/1995	50	63	52097	76	05/11/1995	06/07/95	21	5416	0.134	0.390		0	0	393
06-01-14-05-04	Mossdale (FRH)			50	63	52702	79	05/29/1995	05/29/95	1	200	0.139	0.018		720	66	173
06-31-48	Mossdale (FRH)			50	63	51422	76	05/21/1995	05/29/95	7	1796	0.139	0.128		780	62	180
	Total		05/17/1995			104124		05/21/1995	05/29/95	8	1796	0.139		0.072			
06-31-49	Dos Reis (FRH)		05/17/1995	56	65	51670	77	05/23/1995	06/02/95	9	2196	0.139	0.163		12	0	245
06-02-10	Thornton (MOK)		06/15/1995	N/P	N/P	51757	100	06/19/1995	06/25/95	18	1400	0.139	0.326		0	0	223
Upper San Joaquin River and Tributaries																	
06-46-24	Merced River FF (MRFF)			N/P	N/P	10021	164	-	-	0	-	-	-		84	86	23
06-46-25	Merced River FF (MRFF)			N/P	N/P	8904	164	12/19/1994	12/19/94	1	200	0.139	0.105		240	62	22
	Total		11/17/1994			18925		12/19/1994	12/19/94	1	200	0.139		0.049			
06-01-02-01-11	Merced River FF (MRFF)		11/18/1994	N/P	N/P	48889	169	12/10/1994	01/11/95	5	5639	0.119	0.112		2058	565	137
06-01-02-01-12	Merced River FF (MRFF)		11/28/1994	N/P	N/P	48943	164	12/18/1994	01/24/95	4	6634	0.121	0.088		996	498	109
06-46-22	Mouth of Merced River (MRFF)			N/P	N/P	7600	169	12/19/1994	12/19/94	1	200	0.139	0.123		264	91	6
06-46-23	Mouth of Merced River (MRFF)			N/P	N/P	7586	169	12/12/1994	12/12/94	1	200	0.139	0.123		384	110	22
	Total		11/28/1994			15186		12/12/1994	12/19/94	2	1599	0.139		0.123			
06-01-11-04-01	Merced River FF (MRFF)			51	51	28349	84	05/08/1995	05/29/95	5	4216	0.133	0.172		348	114	231

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-01-11-04-02	Merced River FF (MRFF)			51	51	27961	84	05/21/1995	06/13/95	3	4796	0.139	0.101		300	146	210
06-01-11-04-03	Merced River FF (MRFF)			51	51	26839	84	05/28/1995	06/12/95	4	3200	0.139	0.140		596	193	145
06-01-11-04-04	Merced River FF (MRFF)			51	51	28141	84	05/23/1995	06/06/95	6	2996	0.139	0.200		432	137	116
	Total		05/03/1995			111290		05/08/1995	06/13/95	18	7216	0.135		0.155			
06-01-11-03-11	La Grange (MRFF)			51	48	28055	86	05/31/1995	06/13/95	8	2800	0.139	0.267		696	472	294
06-01-11-03-12	La Grange (MRFF)			51	48	27062	86	05/21/1995	06/25/95	6	6796	0.131	0.220		660	211	328
06-01-11-03-13	La Grange (MRFF)			51	48	28332	86	05/29/1995	06/14/95	8	3400	0.139	0.264		804	274	373
	Total		05/04/1995			83449		05/21/1995	06/25/95	22	6796	0.131		0.261			
06-01-11-04-05	Mouth of Merced River (MRFF)		05/04/1995	51	59	27317	82	05/21/1995	06/03/95	7	2796	0.139	0.240		384	136	223
06-01-11-04-06	Hatfield State Park (MRFF)			51	59	27642	82	05/21/1995	06/09/95	4	3996	0.139	0.136		504	125	241
06-01-11-04-07	Hatfield State Park (MRFF)			51	59	28141	82	05/20/1995	05/29/95	7	1996	0.139	0.233		432	150	194
	Total		05/04/1995			55783		05/20/1995	06/09/95	11	4196	0.139		0.185			
06-01-11-03-14	Lower Tuolumne (MRFF)			48	51	26007	89	05/18/1995	06/08/95	5	4396	0.139	0.180		756	268	310
06-01-11-03-15	Lower Tuolumne (MRFF)			48	51	27285	89	05/20/1995	06/26/95	7	7196	0.132	0.254		861	207	307
	Total		05/05/1995			53292		05/18/1995	06/26/95	12	7596	0.132		0.222			
1994																	
1994 (sampling period: 11/1/93 - 6/20/94)																	
Late-fall run releases																	
Upper Sacramento River and Tributaries																	
05-33-16	Battle Creek (CNFH)			N/P	N/P	52985	129	01/18/1994	03/18/94	15	5358	0.062	0.593		48	23	281
05-33-17	Battle Creek (CNFH)			N/P	N/P	53464	122	-	-	0	-	-			12	4	114
05-34-08	Battle Creek (CNFH)			N/P	N/P	67645	134	01/31/1994	03/09/94	11	3358	0.061	0.344		36	6	240
05-34-09	Battle Creek (CNFH)			N/P	N/P	72236	130	01/31/1994	02/25/94	8	2362	0.063	0.228		48	4	219
	Total		01/03/1994			246330		01/18/1994	03/18/94	34	5358	0.062		0.289			
05-34-11	Battle Creek (CNFH)			N/P	N/P	78423	124	01/31/1994	03/09/94	7	3358	0.061	0.189		24	2	148
05-34-12	Battle Creek (CNFH)			N/P	N/P	69894	129	02/02/1994	03/18/94	6	3958	0.061	0.183		24	15	223
05-34-13	Battle Creek (CNFH)			N/P	N/P	78569	136	01/28/1994	03/07/94	22	3362	0.060	0.608		72	18	465
05-34-14	Battle Creek (CNFH)			N/P	N/P	65609	128	02/02/1994	02/23/94	3	1962	0.062	0.096		24	8	222
05-34-15	Battle Creek (CNFH)			N/P	N/P	54248	123	01/28/1994	03/15/94	13	3958	0.058	0.533		144	0	219
	Total		01/04/1994			346743		01/28/1994	03/18/94	51	4358	0.061		0.316			
05-34-10	Battle Creek (CNFH)		01/05/1994	N/P	N/P	73882	127	02/07/1994	03/15/94	7	3171	0.060	0.207		0	4	143
Sacramento-San Joaquin Estuary																	
05-34-17	Clifton Court Forebay (CNFH)		11/21/1993	N/P	N/P	12312	124	12/01/1993	12/09/93	4	1597	0.123	0.343		0	0	16
06-45-21	Georgiana Slough (CNFH)		12/02/1993	54	51	33668	119	12/12/1993	03/04/94	5	8337	0.070	0.277		169	79	80
06-45-22	Ryde (CNFH)		12/02/1993	58	51	34650	129	12/06/1993	03/16/94	37	10533	0.072	1.917		0	10	292
Winter run releases																	
Upper Sacramento River and Tributaries																	
05-01-01-08-10	Caldwell Park (CNFH)			N/P	N/P	786	110	-	-	0	-	-	-		0	0	5
05-01-01-08-11	Caldwell Park (CNFH)			N/P	N/P	1135	101	-	-	0	-	-	-		0	0	0
05-01-01-08-12	Caldwell Park (CNFH)			N/P	N/P	892	98	-	-	0	-	-	-		0	0	0
05-01-01-08-14	Caldwell Park (CNFH)			N/P	N/P	1466	82	-	-	0	-	-	-		0	0	6
05-01-01-08-15	Caldwell Park (CNFH)			N/P	N/P	1297	81	-	-	0	-	-	-		0	0	0
05-01-01-09-01	Caldwell Park (CNFH)			N/P	N/P	838	74	-	-	0	-	-	-		0	0	0
05-01-01-09-02	Caldwell Park (CNFH)			N/P	N/P	375	84	-	-	0	-	-	-		0	0	3
05-01-01-09-03	Caldwell Park (CNFH)			N/P	N/P	296	88	-	-	0	-	-	-		0	0	0
05-01-01-09-04	Caldwell Park (CNFH)			N/P	N/P	173	70	-	-	0	-	-	-		0	0	0
05-01-01-09-05	Caldwell Park (CNFH)			N/P	N/P	2462	84	-	-	0	-	-	-		0	0	9
05-01-01-09-06	Caldwell Park (CNFH)			N/P	N/P	2615	69	-	-	0	-	-	-		0	0	0
05-01-01-09-07	Caldwell Park (CNFH)			N/P	N/P	4699	74	04/21/1994	04/21/94	1	200	0.139	0.199		0	0	10
	Total		01/27/1994			17034		04/21/1994	04/21/94	1	200	0.139		0.055			

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
Fall run releases																	
Upper Sacramento River and Tributaries																	
05-01-01-09-08	RBDD (CNFH)			N/P	N/P	54191	45	04/25/1994	04/29/94	2	1000	0.139	0.035		0	0	25
05-01-01-09-09	RBDD (CNFH)			N/P	N/P	57084	45	04/23/1994	04/28/94	3	1200	0.139	0.049		0	0	53
	Total		03/10/1994			111275		04/23/1994	04/29/94	5	1400	0.139		0.042			
06-01-06-01-01	Feather River Hatchery (FRH)		03/16/1994	49	N/P	103558	61	04/15/1994	05/06/94	6	4314	0.136	0.055		0	0	194
05-34-27	Coleman NFH (CNFH)			N/P	N/P	54892	64	04/28/1994	05/01/94	2	800	0.139	0.034		0	0	127
05-34-28	Coleman NFH (CNFH)			N/P	N/P	53430	71	04/28/1994	05/08/94	8	2200	0.139	0.140		0	0	253
05-34-29	Coleman NFH (CNFH)			N/P	N/P	52483	76	04/24/1994	05/08/94	12	3000	0.139	0.214		0	0	423
	Total		04/14/1994			160805		04/24/1994	05/08/94	22	3000	0.139		0.128			
06-01-06-01-02	Feather River FH		05/02/1994	49	N/P	100377	81	05/14/1994	05/14/94	1	200	0.139	0.009		0	0	96
Sacramento-San Joaquin Estuary																	
06-57-62	Mokelumne River FH (MOK)			N/P	N/P	46679	135	11/10/1993	11/10/93	3	200	0.139	0.060		36	55	271
06-57-63	Mokelumne River FH (MOK)			N/P	N/P	47355	135	11/09/1993	11/10/93	2	400	0.139	0.040		122	52	347
	Total		10/19/1993			94034		11/09/1993	11/10/93	5	400	0.139		0.050			
06-01-13-01-04	Woodbridge Dam (Wild)		04/08/1994	N/P	N/P	7119	87	-	-	0	-	-	-		0	0	8
06-01-14-03-14	Lower Old River (FRH)		04/11/1994	55	62	50032	74	-	-	0	-	-	-		84	6	0
06-01-14-03-15	Mossdale (FRH)		04/11/1994	53	63	51084	74	-	-	0	-	-	-		636	69	62
06-01-14-04-01	Ryde (FRH)		04/12/1994	54	63	51819	76	04/19/1994	05/01/94	11	2600	0.139	0.199		0	0	378
06-01-14-04-02	Georgiana Slough (FRH)		04/12/1994	55	62	51485	77	04/20/1994	04/25/94	3	1200	0.139	0.055		0	0	210
06-01-14-04-03	Jersey Point (FRH)		04/13/1994	57	64	50689	72	04/23/1994	05/03/94	10	2200	0.139	0.185		12	2	420
06-01-14-04-06	Ryde (FRH)		04/25/1994	54	62	56139	76	04/27/1994	05/11/94	10	3000	0.139	0.167		0	0	669
06-01-14-04-07	Georgiana Slough (FRH)		04/25/1994	53	62	50235	73	05/03/1994	05/20/94	6	3600	0.139	0.112		0	0	155
06-01-14-04-04	Mossdale (FRH)		04/26/1994	49	60	50726	77	05/11/1994	05/14/94	2	800	0.139	0.037		0	0	89
06-01-14-04-05	Lower Old River (FRH)		04/26/1994	51	62	50259	76	-	-	0	-	-			72	4	6
06-01-14-04-08	Jersey Point (FRH)		04/27/1994	51	63	53810	78	05/02/1994	05/22/94	16	4200	0.139	0.278		0	0	756
06-31-41	Mossdale (FRH)		05/02/1994	52	66	51632	82	-	-	0	-	-			12	24	40
06-31-42	Miller Park (FRH)		05/03/1994	52	67	53232	83	05/07/1994	05/15/94	4	1800	0.139	0.070		0	0	218
06-25-17	Benicia (FRH)		05/04/1994	N/P	N/P	102991	88	05/15/1994	05/15/94	1	-	-	**		0	0	3342
06-31-43	Mossdale (FRH)		05/09/1994	51	68	53880	88	05/22/1994	05/22/94	1	200	0.139	0.017		0	12	31
06-31-44	Benicia (FRH)		05/10/1994	58	67	54297	87	-	-	0	-	-	**		0	0	1168
06-48-03	New Hope Landing (MOK)			N/P	68	53606	87	05/15/1994	05/26/94	5	2340	0.135	0.090		0	12	136
06-48-04	New Hope Landing (MOK)			N/P	68	49864	92	05/15/1994	05/31/94	6	3340	0.136	0.115		12	18	169
	Total		05/10/1994			103470		05/15/1994	05/31/94	11	3340	0.136		0.101			
06-48-01	New Hope Landing (MOK)			N/P	67	51314	97	05/27/1994	05/31/94	9	1000	0.139	0.164		0	0	387
06-48-02	New Hope Landing (MOK)			N/P	67	51418	96	05/27/1994	06/06/94	10	2200	0.139	0.182		0	0	359
	Total		05/23/1994			102732		05/27/1994	06/06/94	19	2200	0.139		0.173			
06-31-45	Miller Park (FRH)		05/24/1994	49	71	49976	91	-	-	0	-	-	-		0	0	10

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

TagCode	Release Site/Stock	Study	Date	Truck Temp (F)	Release Temp (F)	Number Released	Average Size (mm)	First Day Recovered	Last Day Recovered	Number Recovered	Minutes Fished	Percent Sampled	Survival Index	Group Index	Expanded Salvage Numb CVP	Expanded Salvage Numb SWP	Expanded Ocean Recovery Numbers ^
06-25-18	Benicia (FRH)		05/31/1994	N/P	N/P	101125	88	-	-	0	-	-	**		0	0	3035
06-31-46	Benicia (FRH)		05/31/1994	N/P	N/P	51804	88	-	-	0	-	-	**		0	0	1448

** Survival not calculated for releases downstream of Chipps Island

Upper San Joaquin River and Tributaries

06-45-16	Merced River FF (MRFF)			55	55	32891	165	12/14/1993	05/02/94	3	15247	0.076	0.157		1753	205	214
06-45-17	Merced River FF (MRFF)			55	55	35064	165	04/01/1994	04/01/94	1	200	0.139	0.027		1549	173	208
06-45-18	Merced River FF (MRFF)			55	55	13145	165	-	-	0	-	-	-		396	47	54
06-46-20	Merced River FF (MRFF)			55	55	521	165	-	-	0	-	-	-		48	6	0
06-46-21	Merced River FF (MRFF)			55	55	2364	165	-	-	0	-	-	-		48	0	5
	Total		11/05/1993			83985		12/14/1993	05/02/94	4	15247	0.076		0.082			
06-01-11-02-10	Merced River FF (MRFF)			53	51	28315	88	05/01/1994	05/02/94	2	400	0.139	0.066		24	0	54
06-01-11-02-11	Merced River FF (MRFF)			53	51	25328	88	05/01/1994	05/01/94	1	200	0.139	0.037		48	0	152
06-01-11-02-12	Merced River FF (MRFF)			53	51	28532	88	05/01/1994	05/08/94	2	1600	0.139	0.066		24	0	79
06-01-11-02-13	Merced River FF (MRFF)			53	51	17390	88	05/15/1994	05/15/94	1	200	0.139	0.054		24	0	49
	Total		04/22/1994			99565		05/01/1994	05/15/94	6	3000	0.139		0.056			
06-01-11-02-14	Mouth of Merced River (MRFF)			48	62	35017	87	-	-	0	-	-	-		24	0	103
06-01-11-02-15	Mouth of Merced River (MRFF)			48	62	23324	87	05/01/1994	05/03/94	2	600	0.139	0.080		48	4	44
06-01-11-03-01	Mouth of Merced River (MRFF)			48	62	23750	87	-	-	0	-	-	-		0	0	89
	Total		04/22/1994			82091		05/01/1994	05/03/94	2	600	0.139		0.023			
06-01-11-03-02	La Grange (MRFF)			53	51	58859	85	05/05/1994	05/14/94	2	2000	0.139	0.032		12	6	89
06-01-11-03-03	La Grange (MRFF)			53	51	4281	85	05/12/1994	05/12/94	1	200	0.139	0.219		12	22	88
06-01-11-03-04	La Grange (MRFF)			53	51	20274	85	-	-	0	-	-	-		0	4	80
	Total		04/23/1994			83414		05/05/1994	05/14/94	3	2000	0.139		0.034			
06-01-11-03-05	Mapes Ranch - Lower Tuolumne (MRFF)			48	62	36429	82	05/06/1994	05/06/94	1	200	0.139	0.026		48	0	111
06-01-11-03-06	Mapes Ranch - Lower Tuolumne (MRFF)			48	62	13626	82	05/08/1994	05/08/94	1	200	0.139	0.069		24	14	49
	Total		04/24/1994			50055		05/06/1994	05/08/94	2	600	0.139		0.037			

1993

<u>1993</u> (sampling period: 4/5/93 -7/8/93)

<u>Spring run releases</u>

Upper Sacramento River and Tributaries

06-01-12-01-03	Clear Creek (FRH)			N/P	N/P	48416	59	04/21/1993	06/23/93	18	12025	0.130	0.370		0	0	469
06-01-12-01-04	Clear Creek (FRH)			N/P	N/P	50789	61	04/19/1993	06/06/93	17	9474	0.134	0.324		24	0	403
			03/22/1993			99205		04/19/1993	06/23/93	35	12411	0.131		0.351			

<u>Fall run releases</u>

Upper Sacramento River and Tributaries

05-01-01-08-01	RBDD (CNFH)			N/P	54	54398	53	04/18/1993	05/06/93	22	3679	0.134	0.391		0	0	439
05-01-01-08-02	RBDD (CNFH)			N/P	54	56721	53	04/19/1993	05/14/93	21	5079	0.136	0.355		0	0	432
	Total		03/10/1993			111119		04/18/1993	05/14/93	43	5279	0.136		0.371			
06-01-14-11-01	Battle Creek (CNFH)			N/P	50	30715	72	04/22/1993	05/08/93	18	3293	0.135	0.566		0	4	587
06-01-14-11-02	Battle Creek (CNFH)			N/P	50	28361	72	04/21/1993	05/08/93	27	3493	0.135	0.918		12	0	508
	Total		04/13/1993			59076		04/21/1993	05/08/93	45	3493	0.135		0.735			
05-01-01-08-03	Battle Creek (CNFH)			N/P	54	59697	62	05/05/1993	06/07/93	22	6595	0.135	0.356		0	0	807
05-01-01-08-04	Battle Creek (CNFH)			N/P	54	56131	75	05/03/1993	06/02/93	57	5995	0.134	0.983		0	0	1286
05-01-01-08-05	Battle Creek (CNFH)			N/P	54	59440	79	05/03/1993	05/28/93	51	5200	0.139	0.803		0	0	1361
	Total		04/26/1993			175268		05/03/1993	06/07/93	130	6995	0.135		0.715			

Sacramento-San Joaquin Estuary

06-01-14-03-06	Mossdale (FRH)		04/06/1993	52	64	50016	59	04/26/1993	05/20/93	2	4896	0.136	0.038		1272	52	37
06-01-14-03-05	Benicia (FRH) (split release - 2nd release on 4/15/93)		04/07/1993	55	60	53066	58	04/14/1993	05/12/93	12	-	-	**		0	0	434

CHIPPS ISLAND TAG SUMMARY, SURVIVAL CALCULATIONS, EXPANDED FISH FACILITY RECOVERIES, AND EXPANDED OCEAN RECOVERY NUMBERS FOR CODED WIRE TAGGED FISH RELEASED , 1993-2008, Updated DRAFT 12/2008

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** Survival not calculated for releases downstream of Chipps Island																	
06-01-14-03-08	Lower Old River (FRH)		04/13/1993	56	62	52747	64	-	-	0	-	-			564	174	40
06-01-14-03-09	Ryde (FRH)		04/14/1993	57	58	53265	61	04/23/1993	05/22/93	23	5896	0.136	0.411		0	0	527
06-01-14-03-10	Georgiana Slough (FRH)		04/14/1993	55	58	52857	63	05/02/1993	05/17/93	7	3100	0.135	0.128		24	0	204
06-01-14-03-07	Benicia (FRH)		04/15/1993	53	61	49335	63	04/28/1993	05/23/93	5	-	-	**		0	0	530
** Survival not calculated for releases downstream of Chipps Island																	
06-01-14-11-04	Clifton Court Forebay (FRH)		04/21/1993	57	67	25899	69	-	-	0	-	-	-		0	84	0
06-01-14-03-11	Miller Park (FRH)		04/23/1993	53	61	54454	68	05/01/1993	05/25/93	36	4900	0.136	0.631		12	0	768
06-01-14-11-03	Rio Vista (FRH)		04/26/1993	54	61	28056	69	04/29/1993	06/18/93	19	9828	0.134	0.658		24	0	325
06-01-14-03-12	Mossdale (FRH)		04/28/1993	52	64	55742	71	05/07/1993	05/16/93	4	2000	0.139	0.067		1044	60	94
06-01-14-03-13	Miller Park (FRH)		05/03/1993	56	62	51574	71	05/07/1993	06/01/93	23	4995	0.133	0.435		24	0	788
06-31-35	Mossdale (FRH)		05/04/1993	52	61	51937	72	05/11/1993	05/21/93	4	2200	0.139	0.072		900	78	111
06-63-45	Woodbridge Dam (Wild)		05/05/1993	N/P	N/P	9254	96	-	-	0	-	-	-		0	0	99
06-63-41	New Hope Landing (MOK)			N/P	63	50403	78	05/13/1993	05/27/93	15	3000	0.139	0.279		12	12	298
06-63-42	New Hope Landing (MOK)			N/P	63	50040	78	05/14/1993	06/04/93	13	4195	0.132	0.255		12	0	313
	Total		05/06/1993			100443		05/13/1993	06/04/93	28	4395	0.133		0.273			
06-31-37	Ryde (FRH)		05/10/1993	59	59	49699	75	05/13/1993	05/30/93	43	3400	0.131	0.858		0	0	1115
06-31-36	Georgiana Slough (FRH)		05/10/1993	62	65	51560	75	05/15/1993	06/06/93	15	4395	0.133	0.285		36	15	359
06-31-38	Mossdale (FRH)		05/12/1993	56	65	52616	75	05/19/1993	05/22/93	4	800	0.139	0.071		1320	134	88
06-63-43	New Hope Landing (MOK)			N/P	64	49543	87	05/28/1993	06/02/93	4	995	0.115	0.091		60	0	388
06-63-44	New Hope Landing (MOK)			N/P	64	49719	87	05/27/1993	06/02/93	6	1195	0.119	0.132		60	0	391
	Total		05/20/1993			99262		05/27/1993	06/02/93	10	1195	0.119		0.110			
06-31-39	Miller Park (FRH)		05/21/1993	51	65	49786	80	05/25/1993	06/17/93	18	4592	0.133	0.354		0	0	562
06-31-40	Miller Park (FRH)		05/28/1993	55	64	50116	82	05/31/1993	06/17/93	40	3592	0.139	0.749		0	16	1173
06-63-46	Woodbridge Dam (Wild)		06/08/1993	N/P	N/P	8260	98	-	-	0	-	-	-		0	0	20

^ The expanded ocean recovery numbers in this table are updated only once per year. For updated information, refer to the website: www.rmis.org

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In some cases average size was calculated from # fish / lb. using a conversion table (Table I-6, Fish Hatchery Management, USFWS, 1982)

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