

Appendix 1. 1995-2002 Feather River Hatchery and Wild Chinook CWT and Non-CWT Releases by Release Group and Location

Brood Year	<u>INBF</u> In-basin FRH fall releases - Fingerlings			<u>TRKF</u> Trucked FRH releases - Fingerlings			<u>XHAF</u> Experimental FRH releases - Fingerlings			<u>FRHS</u> FRH spring run - Fingerlings			<u>FRW</u> Wild Chinook trapped and tagged in Feather River		
	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged
1995	11	617,167	965,954 ^{a/}	9	643,835	5,774,481	15	764,149	27,558			4,448,850			
1996	10	357,623	115,074	6	258,540	7,079,105	6	148,465	204,638	6	314,173	2,038,227 ^{b/}			
1997	10	289,573	5,205	9	156,974	4,816,308	12	251,698	6,793	6	183,145	1,322,855 ^{c/}	5	63,296	301,300 ^{d/}
1998	22	771,624	9,647	10	457,538	5,727,786	12	301,057	14,820	6	309,587	1,494,473	9	133,043	516,016 ^{d/}
1999	18	618,963	10,609	5	372,607	5,445,654	11	347,747	192,409	2	300,322	1,818,882	12	144,217	516,128 ^{d/}
2000	24	431,833	9,786	10	691,450	3,618,450	12	141,740	222,803	6	281,382	776,020	19	209,680	4,281
2001	15	378,551	10,393	7	999,602	4,792,057	18	381,579	128,170	5	585,162	1,547,342	20	202,796	8,450
2002	20	836,733	23,720	10	476,472	6,533,146	6	204,688	5,764	17	1,390,186	52,885	19	197,227	5,110

Brood Year	<u>TRHY</u> Tiburon FRH fall yearlings			<u>OROF</u> ^{e/} Lake Oroville FRH releases			<u>OHFF</u> Other facilities releases			<u>Total FRH Releases</u> ^{f/}			
	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged	# Untagged	# CWT codes	# Tagged ^{g/}	# Untagged	Total
1995				8	309,448		6	310,602	1,497,582	35	2,025,151	11,216,843	13,241,994
1996							2	102,552	2,029,688	28	1,078,801	9,437,044	10,515,845
1997										42	881,390	6,452,461	7,333,851
1998				7	184,936					59	1,839,806	7,761,726	9,601,532
1999	1	28,888	500							49	1,668,527	7,968,230	9,636,757
2000	1	41,819	12							72	1,588,224	4,627,071	6,215,295
2001										65	2,344,894	6,477,962	8,822,856
2002										72	2,908,079	6,615,515	9,523,594

a/ Does not include 257,400 unexpandable INBF production

b/ Does not include 2,002,550 unexpandable spring production

c/ Does not include 2,269,000 unexpandable spring production

d/ Wild juvenile salmon trapped and CWT tagged in Feather River used as surrogates for unmarked FRH fall chinook released inbasin (Honcut Creek, Dry Creek & Bear River) at same time.

e/ FRH fall chinook planted in Lake Oroville for inland fishery; however some escaped during flooding of 1999 and were recovered in ocean fisheries and in Feather River Basin.

f/ Does not include Lake Oroville or Other facilities releases

g/ Total tagged releases does not include Feather River Wilds; only unmarked INBF expanded for in cohort reconstruction

Appendix 1a. 1995 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes		
1995	FRHS	Untagged	19960514	19960514	San Francisco Bay	G		128,800								
1995	FRHS	Untagged	19960514	19960514	San Francisco Bay	G		135,700								
1995	FRHS	Untagged	19960516	19960516	San Francisco Bay	G		135,700								
1995	FRHS	Untagged	19960516	19960516	San Francisco Bay	G		103,250								
1995	FRHS	Untagged	19960516	19960516	San Francisco Bay	G		117,300								
1995	FRHS	Untagged	19960520	19960520	San Francisco Bay	G		105,800								
1995	FRHS	Untagged	19960520	19960520	San Francisco Bay	G		105,800								
1995	FRHS	Untagged	19960522	19960522	San Francisco Bay	G		119,600								
1995	FRHS	Untagged	19960524	19960524	San Francisco Bay	G		119,600								
1995	FRHS	Untagged	19960524	19960524	San Francisco Bay	G		119,600								
1995	FRHS	Untagged	19960603	19960603	San Francisco Bay	G		117,300								
1995	FRHS	Untagged	19960607	19960607	San Francisco Bay	G		121,900								
1995	FRHS	Untagged	19960611	19960611	San Francisco Bay	G		115,000								
1995	FRHS	Untagged	19960611	19960611	San Francisco Bay	G		115,000								
1995	FRHS	Untagged	19960612	19960612	San Francisco Bay	G		70,000								
1995	FRHS	Untagged	19960612	19960612	San Francisco Bay	G		115,000								
1995	FRHS	Untagged	19960617	19960617	San Francisco Bay	G		117,300								
1995	FRHS	Untagged	19960619	19960619	San Francisco Bay	G		89,700								
1995	FRHS	Untagged	19960619	19960619	San Francisco Bay	G		89,700								
1995	FRHS	Untagged	19960619	19960619	San Francisco Bay	G		92,000								
1995	FRHS	Untagged	19960620	19960620	San Francisco Bay	G		92,000								
1995	FRHS	Untagged	19960620	19960620	San Francisco Bay	G		87,400								
1995	FRHS	Untagged	19960620	19960620	San Francisco Bay	G		92,000								
1995	FRHS	Untagged	19960621	19960621	San Francisco Bay	G		96,600								
1995	FRHS	Untagged	19960621	19960621	San Francisco Bay	G		96,600								
1995	FRHS	Untagged	19960621	19960621	San Francisco Bay	G		42,000								
1995	FRHS	Untagged	19960624	19960624	San Francisco Bay	G		87,400								
1995	FRHS	Untagged	19960624	19960624	San Francisco Bay	G		87,400								
1995	FRHS	Untagged	19960625	19960625	San Francisco Bay	G		87,400								
1995	FRHS	Untagged	19960626	19960626	San Francisco Bay	G		87,400								
1995	FRHS	Untagged	19960626	19960626	San Francisco Bay	G		96,600								
1995	FRHS	Untagged	19960627	19960627	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960627	19960627	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960627	19960627	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960701	19960701	San Francisco Bay	G		105,800								
1995	FRHS	Untagged	19960701	19960701	San Francisco Bay	G		105,800								
1995	FRHS	Untagged	19960701	19960701	San Francisco Bay	G		105,800								
1995	FRHS	Untagged	19960702	19960702	San Francisco Bay	G		96,600								
1995	FRHS	Untagged	19960703	19960703	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960703	19960703	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960703	19960703	San Francisco Bay	G		82,800								
1995	FRHS	Untagged	19960709	19960709	San Francisco Bay	G		53,650								
1995	FRHS	Untagged	19960710	19960710	San Francisco Bay	G		62,100								
1995	FRHS	Untagged	19960710	19960710	San Francisco Bay	G		62,100								
1995	FRHS	Untagged	19960716	19960716	San Francisco Bay	G		50,000								
1995	FRHS	Untagged	19960717	19960717	San Francisco Bay	G		62,100								
1995	FRHS	Untagged	19960719	19960719	San Francisco Bay	G		61,250								
							Unexpandable Production	4,448,850							FRHS CWT Total	0
													Hat. Ann. Rpt.	4,448,850		
													Difference (Unexpandable Production)	4,448,850		
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1995	INBF	Untagged	January		Feather River	F		156,000								
1995	INBF	Untagged	January		Honcut Creek	F		50,700								
1995	INBF	Untagged	January		Honcut Creek	F		50,700								
							Unexpandable Production	257,400							257,400	
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1995	INBF	0601140513	19960405	19960405	Feather River	G	51,755	0	1,058	1.02	230,289	5.47	0.243			
1995	INBF	0601140514	19960405	19960405	Feather River	G	57,443	0	1,175	1.02	255,599	5.47	0.269			
1995	INBF	0601140515	19960405	19960405	Feather River	G	50,650	0	1,024	1.02	225,372	5.47	0.237			
1995	INBF	0601140605	19960405	19960405	Feather River	G	53,526	0	1,095	1.02	238,170	5.47	0.251			
							213,374	0	4,352		949,430		1.000	1,167,156 INBF Mar-Apr		
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1995	INBF	Untagged	March		Feather River	G		652,000								
1995	INBF	Untagged	March		Bear River	G		200,830								
1995	INBF	Untagged	March		Dry Creek	G		96,600								
								949,430								

Appendix 1a. 1995 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1995	INBF	0601060108	19960425	19960425	West Sac-Miller Pk	G	49,708	0	2,090	1.04				
1995	INBF	0601060103	19960503	19960503	Feather River	G	100,033	0	4,198	1.04				
1995	INBF	0601060202	19960506	19960506	West Sac-Miller Pk	G	49,881	0	1,709	1.03				
1995	INBF	0601140601	19960515	19960515	Yuba City	G	50,890	0	1,041	1.02				
1995	INBF	0601140602	19960515	19960515	Yuba City	G	51,610	0	1,055	1.02				
1995	INBF	0601140603	19960515	19960515	Yuba City	G	51,300	0	1,049	1.02				
1995	INBF	0601140604	19960515	19960515	Yuba City	G	50,371	0	1,030	1.02				
							403,793	0	12,172					415,965 INBF May
													1,840,521 INBF Total	
1995	OHHF	060216	19960515	19960515	Thornton-Mok R	V	49,946	0	3,415	1.07				FRH fall chinook reared @ MOK
1995	OHHF	060217	19960515	19960515	Thornton-Mok R	V	52,123	0	1,282	1.02				FRH fall chinook reared @ MOK
1995	OHHF	060218	19960520	19960520	Jersey Pt,San Joaq	V	50,832	0	1,898	1.04				FRH fall chinook reared @ MOK
1995	OHHF	060219	19960520	19960520	Jersey Pt,San Joaq	V	52,389	0	636	1.01				FRH fall chinook reared @ MOK
1995	OHHF	060228	19960606	19960613	Rodeo Minor Port	V	52,608	0	744,963	15.16				FRH fall chinook reared @ MOK
1995	OHHF	060229	19960606	19960613	Rodeo Minor Port	V	52,704	425	744,963	15.14				FRH fall chinook reared @ MOK
							310,602	425	1,497,157					1,808,184 OHHF Total
1995	OROF	062534	1996	1996	Lake Oroville	G	34,078	0	0	1.00				
1995	OROF	062535	1996	1996	Lake Oroville	G	35,111	0	0	1.00				
1995	OROF	062536	1996	1996	Lake Oroville	G	35,593	0	0	1.00				
1995	OROF	062537	1996	1996	Lake Oroville	G	33,249	0	0	1.00				
1995	OROF	062538	1996	1996	Lake Oroville	G	53,172	0	0	1.00				
1995	OROF	062540	1996	1996	Lake Oroville	G	12,404	0	0	1.00				
1995	OROF	062552	19960501	19960501	Lake Oroville	G	54,092	0	0	1.00				
1995	OROF	062553	19960501	19960501	Lake Oroville	G	51,749	0	0	1.00				
							309,448	0	0					309,448 OROF Total
1995	TRKF	0601140506	19960507	19960507	Benicia	G	51,288	0	512	1.01	458,429	9.95	0.080	
1995	TRKF	062937	19960626	19960626	Rodeo Minor Port	V	150,089	0	4,802	1.03	1,341,544	9.97	0.233	
1995	TRKF	062938	19960626	19960626	Rodeo Minor Port	V	149,440	0	6,232	1.04	1,335,743	9.98	0.232	
1995	TRKF	0601140507	19960709	19960724	Rodeo Minor Port	V	47,446	0	1,316	1.03	424,088	9.97	0.074	
1995	TRKF	0601140508	19960709	19960724	Rodeo Minor Port	V	47,188	0	1,309	1.03	421,781	9.97	0.073	
1995	TRKF	0601140509	19960709	19960724	Rodeo Minor Port	V	49,142	0	1,364	1.03	439,247	9.97	0.076	
1995	TRKF	0601140510	19960709	19960724	Rodeo Minor Port	V	49,410	0	1,371	1.03	441,642	9.97	0.077	
1995	TRKF	0601140511	19960709	19960724	Rodeo Minor Port	V	50,150	0	1,392	1.03	448,257	9.97	0.078	
1995	TRKF	0601140512	19960709	19960724	Rodeo Minor Port	V	49,682	0	1,379	1.03	444,074	9.97	0.077	
							643,835	0	19,677		5,754,804		1.000	6,418,316 TRKF Apr-July
1995	TRKF	Untagged	April		Benicia	G		556,400						
1995	TRKF	Untagged	April		Wickland	G		388,700						
1995	TRKF	Untagged	May		Benicia	G		545,100						
1995	TRKF	Untagged	May		Wickland	G		527,850						
1995	TRKF	Untagged	May		Unocal	G		126,500						
1995	TRKF	Untagged	May		Wickland	V		342,851						
1995	TRKF	Untagged	June		Wickland	V		179,200						
1995	TRKF	Untagged	June		Wickland Net Pen	V		24,000						
1995	TRKF	Untagged	June		Tiburon	V		49,400						
1995	TRKF	Untagged	July		Wickland Net Pen	V		202,400						
1995	TRKF	Untagged	July		Wickland Net Pen	V		146,728						
1995	TRKF	Untagged	July		Wickland Net Pen	V		51,072						
1995	TRKF	Untagged	July		Wickland Net Pen	V		73,364						
1995	TRKF	Untagged	July		Wickland Net Pen	V		25,536						
1995	TRKF	Untagged	July		Wickland Net Pen	V		282,900						
1995	TRKF	Untagged	July		Wickland Net Pen	V		460,000						
1995	TRKF	Untagged	July		Wickland	V		184,000						
1995	TRKF	Untagged	July		Wickland Net Pen	V		635,652						
1995	TRKF	Untagged	July		Wickland Net Pen	V		34,048						
1995	TRKF	Untagged	July		Wickland Net Pen	V		147,200						
1995	TRKF	Untagged	July		Wickland Net Pen	V		213,900						
1995	TRKF	Untagged	July		Wickland Net Pen	V		345,904						
1995	TRKF	Untagged	July		Wickland Net Pen	V		68,099						
1995	TRKF	Untagged	July		Wickland Net Pen	V		96,000						
1995	TRKF	Untagged	July		Wickland	V		48,000						
							5,754,804							6,418,316 TRKF Total

Appendix 1a. 1995 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1995	XHAF	0601060114	19960415	19960415	Mosssdale-SJ	G	49,024	0	2,596	1.05				
1995	XHAF	0601060115	19960415	19960415	Mosssdale-SJ	G	51,718	0	1,062	1.02				
1995	XHAF	0601140505	19960417	19960417	San Joaq.r,below Old	G	50,103	0	1,557	1.03				
1995	XHAF	0601060113	19960418	19960418	Jersey Pt,San Joaq	G	50,041	0	1,028	1.02				
1995	XHAF	0601060201	19960430	19960430	Mosssdale-SJ	G	50,462	0	2,108	1.04				
1995	XHAF	0601060205	19960430	19960430	Mosssdale-SJ	G	49,194	0	2,550	1.05				
1995	XHAF	0601060110	19960501	19960501	Dos Reis Road	G	48,770	0	2,577	1.05				
1995	XHAF	0601060203	19960501	19960501	Dos Reis Road	G	49,868	0	2,083	1.04				
1995	XHAF	0601060111	19960502	19960502	San Joaq.r,below Old	G	48,100	0	3,000	1.06				
1995	XHAF	0601060112	19960502	19960502	San Joaq.r,below Old	G	49,923	0	2,087	1.04				
1995	XHAF	0601060109	19960503	19960503	Jersey Pt,San Joaq	G	50,820	0	516	1.01				
1995	XHAF	0601060206	19960509	19960509	Dos Reis Road	G	50,168	0	1,562	1.03				
1995	XHAF	0601060204	19960516	19960516	Dos Reis Road	V	50,243	0	1,028	1.02				
							648,434	0	23,754					672,188 XHAF San Joaquin
1995	XHAF	062935	19960614	19960614	Monterey Minor Port	V	56,900	0	1,669	1.03				
1995	XHAF	062936	19960703	19960703	Moss Landing Min. Pt	V	58,815	0	2,135	1.04				
							115,715	0	3,804					119,519 XHAF Costal
1995	XHAY	062934	19960725	19960910	Avila Minor Port	Y	68,630	0	2,178	1.03				70,808 XHAY Total

Fall Hatchery Release 9,121,352
Hatchery Annual Report 9,557,946
Difference (430,027 Screen Efficiency Study) 436,594

Appendix 1b. 1996 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes	
1996	FRHS	Untagged	19970401	19970401	Benicia	G		138,000							
1996	FRHS	Untagged	19970407	19970407	Benicia	G		131,100							
1996	FRHS	Untagged	19970407	19970407	Benicia	G		124,200							
1996	FRHS	Untagged	19970409	19970418	Benicia	G		667,000							
1996	FRHS	Untagged	19970415	19970415	Benicia	G		131,100							
1996	FRHS	Untagged	19970416	19970416	Benicia	G		128,800							
1996	FRHS	Untagged	19970417	19970417	Benicia	G		102,000							
1996	FRHS	Untagged	19970418	19970418	Benicia	G		251,450							
1996	FRHS	Untagged	19970422	19970422	Benicia	G		115,000							
1996	FRHS	Untagged	19970425	19970425	Benicia	G		110,400							
1996	FRHS	Untagged	19970430	19970430	Benicia	G		103,500							
								Unexpandable Production	2,002,550						
1996	FRHS	0601060306	19970519	19970530	Benicia	V	52,345	19,922	475		319,195	7.49	0.167		
1996	FRHS	0601060307	19970519	19970530	Benicia	V	53,261	20,271	484		324,781	7.49	0.170		
1996	FRHS	0601060308	19970519	19970530	Benicia	V	52,818	20,102	480		322,080	7.49	0.168		
1996	FRHS	0601060309	19970519	19970530	Benicia	V	50,672	19,286	460		308,994	7.49	0.161		
1996	FRHS	0601060310	19970519	19970530	Benicia	V	52,023	19,800	472		317,232	7.49	0.166		
1996	FRHS	0601060311	19970519	19970530	Benicia	V	53,054	20,192	482		323,519	7.49	0.169		
									314,173	119,574	2,853	1,915,800		1.000	2,352,400 FRHS Total
1996	FRHS	Untagged	19970507	19970507	Benicia	V		69,700							
1996	FRHS	Untagged	19970519	19970530	Benicia	V		439,700							
1996	FRHS	Untagged	19970604	19970604	Benicia	V		92,000							
1996	FRHS	Untagged	19970605	19970605	Wickland	V		201,400							
1996	FRHS	Untagged	19970609	19970609	Wickland	V		119,600							
1996	FRHS	Untagged	19970604	19970613	Wickland	V		781,000							
1996	FRHS	Untagged	19970617	19970617	Wickland	V		212,400							
								Expandable Production	1,915,800						
													FRHS CWT Total 2,352,400		
													Hat. Ann. Rpt. 4,354,950		
													Difference (Unexpandable Production) 2,002,550		
1996	INBF	0601060211	19970415	19970415	West Sac.- Miller Park	G	25,642	1,123	0	1.04	24,948	2.02	0.249		
1996	INBF	0601060212	19970415	19970415	West Sac.- Miller Park	G	25,032	1,097	0	1.04	24,355	2.02	0.243		
1996	INBF	0601060213	19970415	19970415	West Sac.- Miller Park	V	25,829	1,048	0	1.04	25,130	2.01	0.251		
1996	INBF	0601060214	19970415	19970415	West Sac.- Miller Park	V	26,315	1,068	0	1.04	25,603	2.01	0.256		
								102,818	4,336		1.04	100,037	2.02	1.000	207,191 INBF Mar-Apr
1996	INBF	Untagged	19970315	19970315	Dry Creek - Feather River	G		100,037		No wilds available for surrogate					
1996	INBF	062541	19970424	19970424	Gridley Boat Ramp - Fea. R.	V	52,669	911	0		0	1.02			
1996	INBF	062542	19970424	19970424	Gridley Boat Ramp - Fea. R.	V	52,597	909	0		0	1.02			
1996	INBF	062543	19970424	19970424	Verona Boat Ramp - Fea. R.	V	50,756	3,217	0		0	1.06			
1996	INBF	062544	19970424	19970424	Verona Boat Ramp - Fea. R.	V	48,562	3,077	0		0	1.06			
1996	INBF	0601060209	19970515	19970515	West Sac.- Miller Park	V	25,152	1,296	0		0	1.05			
1996	INBF	0601060210	19970515	19970515	West Sac.- Miller Park	V	25,069	1,291	0		0	1.05			
								254,805	10,701						265,506 INBF Apr-May
1996	OHFF	060231	19970424	19970514	Rodeo Minor Port	V	52,317	0	891,283			18.04		472,697 INBF Total	
1996	OHFF	060230	19970602	19970708	Rodeo Minor Port	V	50,235	1,554	947,411			19.89		FRH fall chinook reared @ MOK	
								102,552	1,554	1,838,694					FRH fall chinook reared @ MOK
													1,942,800 OHFF Total		
1996	TRKF	0601060215	19970505	19970505	Port Chicago	V	24,766	3,764	0	1.15	58,514	3.51	0.510		
1996	TRKF	0601060301	19970505	19970505	Port Chicago	V	23,772	3,613	0	1.15	56,166	3.51	0.490		
								48,538	7,377		1.15	114,680	3.51	1.000	170,595 TRKF May
1996	TRKF	Untagged	19970505	19970505	Benicia	V		25,200							
1996	TRKF	Untagged	19971515	19971515	Wickland Oil Net Pens	V		36,830							
1996	TRKF	Untagged	19971515	19971515	Tiburon Net Pens	V		52,650							
									114,680						
1996	TRKF	0601060312	19970609	19970701	Wickland Oil Net Pens	V	52,408	530	0	1.01	1,735,668	34.13	0.250		
1996	TRKF	0601060313	19970609	19970701	Wickland Oil Net Pens	V	51,042	516	0	1.01	1,690,428	34.13	0.243		
1996	TRKF	0601060314	19970609	19970701	Wickland Oil Net Pens	V	54,728	553	0	1.01	1,812,503	34.13	0.261		

Appendix 1b. 1996 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	Release cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional Production factor	New Production factor	Proportion originally tagged	Hatchery notes
1996	TRKF	0601060315	19970609	19970701	Wickland Oil Net Pens	V	51,824	2,122	0	1.01	1,716,327	34.13	0.247	
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		131,100						
1996	TRKF	Untagged	19970609	19970609	San Francisco Maj. Pt. Area	V		93,800						
1996	TRKF	Untagged	19970609	19970609	San Francisco Maj. Pt. Area	V		62,100						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		222,400						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		168,200						
1996	TRKF	Untagged	19970609	19970609	Benicia	V		66,700						
1996	TRKF	Untagged	19970609	19970609	Benicia	V		80,500						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		55,000						
1996	TRKF	Untagged	19970609	19970609	Benicia	V		105,300						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		210,600						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		239,200						
1996	TRKF	Untagged	19970609	19970609	Benicia	V		177,100						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		67,500						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		542,800						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		487,600						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		121,900						
1996	TRKF	Untagged	19970609	19970609	San Francisco Maj. Pt. Area	V		135,700						
1996	TRKF	Untagged	19970609	19970609	Benicia	V		121,900						
1996	TRKF	Untagged	19970609	19970609	Wickland Oil Net Pens	V		393,600						
1996	TRKF	Tagged	19970701	19970701	Wickland	V		93,676						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		345,000						
1996	TRKF	Untagged	19970715	19970715	Wickland	V		115,000						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		407,100						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		156,400						
1996	TRKF	Untagged	19970715	19970715	Wickland	V		78,200						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		297,250						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		188,600						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		384,100						
1996	TRKF	Untagged	19970715	19970715	Wickland	V		218,400						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		806,400						
1996	TRKF	Untagged	19970715	19970715	Wickland	V		55,200						
1996	TRKF	Untagged	19970715	19970715	Wickland Oil Net Pens	V		326,600						
							6,954,926							
													7,167,050 TRKF Jun-July	
													7,337,645 TRKF Total	
<hr/>														
1996	XHAF	0601060302	19970428	19970428	Mossdale - SJ	V	23,701	3,083	0		0	1.13		
1996	XHAF	0601060303	19970428	19970428	Mossdale - SJ	V	25,073	3,261	0		0	1.13		
1996	XHAF	0601060304	19970429	19970429	Dos Reis Road	V	25,084	1,975	0		0	1.08		
1996	XHAF	0601060305	19970429	19970429	Dos Reis Road	V	24,746	1,949	0		0	1.08		
1996	XHAF	0601060207	19970502	19970502	Jersey Pt, San Joaq, R	V	24,812	2,453	0		0	1.10		
1996	XHAF	0601060208	19970502	19970502	Jersey Pt, San Joaq, R	V	25,049	2,477	0		0	1.10		
							148,465	15,198				1.10		163,663 XHAF SJ rel.
<hr/>														
1996	XHAF	Untagged	19970515	19970515	Monterey Bay	V		58,000						Vibrio Vaccinated
1996	XHAF	Untagged	19970609	19970609	Moss Landing	V		60,140						
1996	XHAF	Untagged	19970609	19970609	Port San Luis	V		71,300						
								189,440						189,440 XHAF Costal rel.

CWT	RMS Tag Rel. Rpt.	Hat. Est. of Rel.	
0601060312	52,408	530	21,200 Jun
0601060313	51,042	516	21,200 Jun
0601060314	54,728	553	21,200 Jun
0601060315	51,824	523	42,400 Jun
	210,002	2,122	84,800 Jun
CWT Report Total	212,124		115,000 July
			305,800
			Difference
			93,676

A. Kastner 10-15-04
 9 plants of 21,200 in June
 1 plant of 19,200 in July

19,200 Tagged of the 115,000
 210,000

Fall Hatchery Release 10,106,245
 Hatchery Annual Report 8,163,403
 Difference (OHFF releases from MOK) 1,942,842

Appendix 1c. 1997 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	Release cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1997	FRHS	Untagged	19980317	19980317	Benicia			224,200						
1997	FRHS	Untagged	March	March	Wickland Oil Net Pen			599,950						
1997	FRHS	Untagged	March	March	Wickland Oil Net Pen			466,800						
1997	FRHS	Untagged	March	March	Benicia			767,000						
1997	FRHS	Untagged	19980402	19980402	Benicia			211,050						
Unexpandable Production								2,269,000						
1997	FRHS	0601060601	19980526	19980609	Carquinez Strait	V	30,446	60,886	432		158,592	8.22	0.166	IHN Infected, Net Pen Release
1997	FRHS	0601060602	19980526	19980609	Carquinez Strait	V	30,715	61,424	436		159,994	8.22	0.168	IHN Infected, Net Pen Release
1997	FRHS	0601060603	19980526	19980609	Carquinez Strait	V	30,211	60,417	429		157,371	8.22	0.165	IHN Infected, Net Pen Release
1997	FRHS	0601060604	19980526	19980609	Carquinez Strait	V	30,420	60,833	432		158,454	8.22	0.166	IHN Infected, Net Pen Release
1997	FRHS	0601060605	19980526	19980609	Carquinez Strait	V	30,495	60,985	433		158,850	8.22	0.167	IHN Infected, Net Pen Release
1997	FRHS	0601060606	19980526	19980609	Carquinez Strait	V	30,858	61,710	438		160,739	8.22	0.168	IHN Infected, Net Pen Release
							183,145	366,255	2,600		954,000		1.000	1,506,000 FRHS Total
1997	FRHS	Untagged	May	May	Wickland Oil Net Pen			897,000						
1997	FRHS	Untagged	19980610	19980610	Wickland Oil Net Pen			57,000						
Expandable Production								954,000						
													FRHS CWT Total 1,506,000 Hat. Ann. Rpt. 3,775,000 Difference (Unexpandable Production) 2,269,000	
1997	FRW	0601060405	19980125	19980202	Thermalito - Live Oak	F	13,635	0	0		0	1.00		Wild
1997	FRW	0601060406	19980216	19980222	Thermalito - Live Oak	F	13,586	0	0	1.00	82,428	6.07	0.274	Surrogate for unmarked
1997	FRW	0601060407	19980222	19980226	Thermalito - Live Oak	F	10,869	0	0	1.00	65,944	6.07	0.219	Surrogate for unmarked
1997	FRW	0601060408	19980227	19980306	Thermalito - Live Oak	F	12,633	0	0	1.00	76,646	6.07	0.254	Surrogate for unmarked
1997	FRW	0601060409	19980306	19980322	Thermalito - Live Oak	F	12,573	0	0	1.00	76,282	6.07	0.253	Surrogate for unmarked
							49,661	0	0		301,300		1.000	63,296 Wild total
1997	INBF	Untagged	19980301	19980301	Feather River - Dry Creek	G		100,800						Surrogate w/ Wilds
1997	INBF	Untagged	19980307	19980307	Feather River - Honcut Ck - S.F.	G		100,000						Surrogate w/ Wilds
1997	INBF	Untagged	19980315	19980315	Feather River - Honcut Ck - N.F.	G		100,500						Surrogate w/ Wilds
								301,300						301,300 INBF Untagged
1997	INBF	0601060412	19980302	19980302	Elkhorn Boat Ramp - Sac R	G	25,701	636	0		0	1.02		POSSIBLY IHN INFECTED
1997	INBF	0601060413	19980302	19980302	Elkhorn Boat Ramp - Sac R	G	27,027	669	0		0	1.02		POSSIBLY IHN INFECTED
1997	INBF	0601060507	19980415	19980415	West Sacramento	G	21,380	131	0		0	1.01		POSSIBLY IHN INFECTED
1997	INBF	0601060508	19980415	19980415	West Sacramento	G	21,556	133	0		0	1.01		POSSIBLY IHN INFECTED
1997	INBF	0601060513	19980430	19980430	Verona - Feather R	G	37,791	1,169	0		0	1.03		IHN INFECTED
1997	INBF	0601060514	19980430	19980430	Verona - Feather R	G	38,116	1,179	0		0	1.03		IHN INFECTED
1997	INBF	0601060614	19980430	19980430	Gridley Boat Ramp - Fea. R.	G	42,987	538	0		0	1.01		IHN INFECTED
1997	INBF	0601060615	19980430	19980430	Gridley Boat Ramp - Fea. R.	G	40,687	538	0		0	1.01		IHN INFECTED
1997	INBF	0601060509	19980515	19980515	West Sacramento	V	17,830	110	0		0	1.01		IHN INFECTED
1997	INBF	0601060510	19980515	19980515	West Sacramento	V	16,498	102	0		0	1.01		IHN INFECTED
							289,573	5,205						294,778 596,078 INBF Total
1997	TRKF	0601060607	19980504	19980623	Wickland Oil Net Pens	V	17,989	578,060	403	33.16	551,581	31.68	0.115	IHN INFECTED
1997	TRKF	0601060608	19980504	19980623	Wickland Oil Net Pens	V	19,139	578,060	429	31.23	586,843	31.68	0.122	IHN INFECTED
1997	TRKF	0601060609	19980504	19980623	Wickland Oil Net Pens	V	17,525	578,060	393	34.01	537,354	31.68	0.112	IHN INFECTED
1997	TRKF	0601060610	19980504	19980623	Wickland Oil Net Pens	V	17,836	578,060	400	33.43	546,890	31.68	0.114	IHN INFECTED
1997	TRKF	0601060611	19980504	19980623	Wickland Oil Net Pens	V	18,027	578,060	404	33.09	552,747	31.68	0.115	IHN INFECTED
1997	TRKF	0601060612	19980504	19980623	Wickland Oil Net Pens	V	18,123	578,060	407	32.92	555,690	31.68	0.115	IHN INFECTED
1997	TRKF	0601060613	19980504	19980623	Wickland Oil Net Pens	V	17,777	578,060	399	33.54	545,081	31.68	0.113	IHN INFECTED
1997	TRKF	0601060501	19980507	19980507	Benicia	G	15,275	156	0	1.01	468,364	31.67	0.097	IHN INFECTED
1997	TRKF	0601060502	19980507	19980507	Benicia	G	15,283	156	0	1.01	468,610	31.67	0.097	IHN INFECTED
							156,974	4,046,732	2,835		4,813,161		1.000	4,972,970 4,972,970 TRKF Total
1997	XHAF	0601060410	19980302	19980302	Yolo Bypass - Fremont Wr	G	25,835	1,690	0		0	1.07		POSSIBLY IHN INFECTED
1997	XHAF	0601060411	19980302	19980302	Yolo Bypass - Fremont Wr	G	25,708	1,682	0		0	1.07		POSSIBLY IHN INFECTED
1997	XHAF	0601060505	19980423	19980423	Mossdale - SJ	G	15,537	259	0		0	1.02		IHN INFECTED
1997	XHAF	0601060506	19980423	19980423	Mossdale - SJ	G	18,365	305	0		0	1.02		IHN INFECTED
1997	XHAF	0601140606	19980424	19980424	Dos Reis Road	G	23,927	450	0		0	1.02		POSSIBLY IHN INFECTED
1997	XHAF	0601140607	19980424	19980424	Dos Reis Road	G	24,330	457	0		0	1.02		POSSIBLY IHN INFECTED
1997	XHAF	0601060511	19980427	19980427	Mokelumne R, Mouth	G	21,312	520	0		0	1.02		POSSIBLY IHN INFECTED
1997	XHAF	0601060512	19980427	19980427	Mokelumne R, Mouth	G	22,856	558	0		0	1.02		POSSIBLY IHN INFECTED
1997	XHAF	0601060503	19980428	19980428	Jersey Pt, San Joaq	G	15,334	126	0		0	1.01		IHN INFECTED
1997	XHAF	0601060504	19980428	19980428	Jersey Pt, San Joaq	G	15,909	131	0		0	1.01		IHN INFECTED

Appendix 1c. 1997 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1997	XHAF	0601060414	19980506	19980506	Mossdale - SJ	G	21,405	309	0		0	1.01		IHN INFECTED
1997	XHAF	0601060415	19980506	19980506	Mossdale - SJ	G	21,180	306	0		0	1.01		IHN INFECTED
							251,698	6,793						
														258,491 XHAF Total

RMIS				Hatchery Rpt.	
0601060607	17,989	578,060	403	1,194,000	May
0601060608	19,139	578,060	429	2,392,200	May
0601060609	17,525	578,060	393	30,870	May (Benica)
0601060610	17,836	578,060	400	411,700	June
0601060611	18,027	578,060	404	443,400	June
0601060612	18,123	578,060	407	112,000	June
0601060613	17,777	578,060	399	388,800	June
0601060501	15,275	156			
0601060502	15,283	156		4,972,970	Total Bay Rel.
	156,974	4,046,732	2,835	159,809	Tagged + Shed
Total	4,206,541			4,813,161	

Fall Hatchery Release 5,827,539
Hatchery Annual Report 5,827,563
Difference 24

Appendix 1d. 1998 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	Release cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1998	FRHS	0601060901	19990517	19990524	Crockett	V	51,784	347,167	789	7.72			0.506	w/ and wo/ net pens
1998	FRHS	0601060902	19990517	19990524	Crockett	V	50,473	338,378	769	7.72			0.494	w/ and wo/ net pens
							102,257	685,545	1,558				1.000	789,360
1998	FRHS	0601060903	19990525	19990604	Crockett	V	51,326	181,789	782	4.56			0.503	
1998	FRHS	0601060904	19990525	19990604	Crockett	V	50,713	179,618	772	4.56			0.497	
							102,039	361,407	1,554				1.000	465,000
1998	FRHS	0601060905	19990525	19990604	Crockett	V	51,333	215,883	782	5.22			0.488	
1998	FRHS	0601060906	19990525	19990604	Crockett	V	53,958	226,922	822	5.22			0.512	
							105,291	442,805	1,604				1.000	549,700
														FRHS CWT Total 1,804,060
														Hat. Ann. Rpt. 1,804,060
														Difference 0
1998	FRW	0601060402	19990118	19990205	Thermalito - Live Oak	F	38,119	770	0		0	1.02		Wild
1998	FRW	0601060813	19990323	19990330	Thermalito - Live Oak	F	12,048	246	0		0	1.02		Wild
							50,167	1,016	0					
1998	FRW	0601060806	19990206	19990211	Thermalito - Live Oak	F	10,861	222	165	1.04	67,491	6.21	0.131	Surrogate for unmarked
1998	FRW	0601060807	19990212	19990218	Thermalito - Live Oak	F	11,629	237	216	1.04	72,264	6.21	0.140	Surrogate for unmarked
1998	FRW	0601060808	19990218	19990225	Thermalito - Live Oak	F	12,811	261	111	1.03	79,609	6.21	0.155	Surrogate for unmarked
1998	FRW	0601060809	19990226	19990303	Thermalito - Live Oak	F	11,342	231	59	1.03	70,480	6.21	0.137	Surrogate for unmarked
1998	FRW	0601060810	19990227	19990309	Thermalito - Live Oak	F	12,577	257	37	1.02	78,155	6.21	0.152	Surrogate for unmarked
1998	FRW	0601060811	19990309	19990317	Thermalito - Live Oak	F	12,458	254	42	1.02	77,415	6.21	0.150	Surrogate for unmarked
1998	FRW	0601060812	19990318	19990322	Thermalito - Live Oak	F	11,198	229	32	1.02	69,586	6.21	0.135	Surrogate for unmarked
							82,876	1,691	662		515,000		1.000	136,412 Wild total
1998	INBF	Untagged	19990218	19990218	Feather River - Honcut Ck - S.F.	G		108,000						Surrogate w/ Wilds
1998	INBF	Untagged	19990218	19990218	Feather River - Honcut Ck - N.F.	G		108,000						Surrogate w/ Wilds
1998	INBF	Untagged	19990219	19990219	Feather River - Dry Creek	G		99,200						Surrogate w/ Wilds
1998	INBF	Untagged	19990305	19990305	Feather River - Bear River	G		64,200						Surrogate w/ Wilds
1998	INBF	Untagged	19990305	19990305	Feather River - Bear River	G		135,600						Surrogate w/ Wilds
								515,000						515,000 INBF unmarked total
1998	INBF	0601060705	19990211	19990211	Elkhorn Boat Ramp - Sac R	G	26,316	159	0		0	1.01		
1998	INBF	0601060706	19990211	19990211	Elkhorn Boat Ramp - Sac R	G	25,845	156	0		0	1.01		
1998	INBF	0601060707	19990211	19990211	Elkhorn Boat Ramp - Sac R	G	26,029	157	0		0	1.01		
1998	INBF	0601060708	19990211	19990211	Elkhorn Boat Ramp - Sac R	G	25,692	155	0		0	1.01		
1998	INBF	0601060403	19990211	19990211	Isleton - Sac R	F	49,715	1,803	0		0	1.04		
1998	INBF	0601060404	19990211	19990211	Isleton - Sac R	F	50,864	1,845	0		0	1.04		
1998	INBF	0601060907	19990211	19990211	Verona - Feather R	G	53,987	0	0		0	1.00		
1998	INBF	0601060908	19990211	19990211	Verona - Feather R	G	50,989	0	0		0	1.00		
1998	INBF	0601060909	19990211	19990211	Verona - Feather R	G	50,804	307	0		0	1.01		
1998	INBF	0601060910	19990211	19990211	Verona - Feather R	G	51,202	309	0		0	1.01		
1998	INBF	0501020714	19990211	19990211	Ryde-koket Sac R	G	25,873	130	0		0	1.01		
1998	INBF	0501020715	19990211	19990211	Ryde-koket Sac R	G	25,133	126	0		0	1.01		
1998	INBF	052416	19990211	19990211	West Sacramento	G	25,621	390	0		0	1.02		
1998	INBF	052417	19990211	19990211	West Sacramento	G	26,174	399	0		0	1.02		
1998	INBF	052414	19990211	19990211	Ryde-koket Sac R	G	26,489	133	0		0	1.01		
1998	INBF	052415	19990211	19990211	Ryde-koket Sac R	G	25,814	130	0		0	1.01		
1998	INBF	052324	19990211	19990211	West Sacramento	G	25,695	129	0		0	1.01		
1998	INBF	052325	19990211	19990211	West Sacramento	G	25,977	131	0		0	1.01		
1998	INBF	0501020706	19990211	19990211	West Sacramento	G	25,585	337	0		0	1.01		
1998	INBF	0501020707	19990211	19990211	West Sacramento	G	25,633	338	0		0	1.01		
1998	INBF	0601060814	19990211	19990211	Live Oak - Fea R	G	51,144	1,258	0		0	1.02		
1998	INBF	0601060815	19990211	19990211	Live Oak - Fea R	G	51,043	1,255	0		0	1.02		
							771,624	9,647						781,271 INBF marked total
1998	INBY	Untagged	20000204	20000204	Feather River - Therm. Forebay	Y		9,900						
1998	INBY	Untagged	20000204	20000204	Feather River - Therm. Forebay	Y		4,500						
1998	INBY	Untagged	20000204	20000204	Feather River - Therm. Forebay	Y		9,000						
								23,400						23,400 INBY Total
														1,319,671 INB Total

Appendix 1d. 1998 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	Release cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original	Additional	New	Proportion	Hatchery notes
										Production factor	Production factor	Production factor	originally tagged	
1998	TRKF	052326	19990426	19990426	Port Chicago	V	25,576	337	0	1.01	319,677	13.51	0.056	
1998	TRKF	052327	19990426	19990426	Port Chicago	V	25,518	336	0	1.01	318,952	13.51	0.056	
1998	TRKF	062631	19990607	19990611	Wickland Oil Net Pens	V	50,877	1,038	0	1.02	635,917	13.52	0.111	
1998	TRKF	062632	19990607	19990611	Wickland Oil Net Pens	V	50,893	1,039	0	1.02	636,117	13.52	0.111	
1998	TRKF	062633	19990607	19990611	Wickland Oil Net Pens	V	51,964	1,060	0	1.02	649,504	13.52	0.114	
1998	TRKF	062634	19990607	19990611	Wickland Oil Net Pens	V	50,928	1,039	0	1.02	636,555	13.52	0.111	
1998	TRKF	062635	19990607	19990611	Wickland Oil Net Pens	V	50,883	1,038	0	1.02	635,992	13.52	0.111	
1998	TRKF	062636	19990607	19990611	Wickland Oil Net Pens	V	50,932	1,039	0	1.02	636,605	13.52	0.111	
1998	TRKF	062637	19990607	19990611	Wickland Oil Net Pens	V	49,140	1,003	0	1.02	614,207	13.52	0.107	
1998	TRKF	062638	19990607	19990611	Wickland Oil Net Pens	V	50,827	1,037	0	1.02	635,293	13.52	0.111	
							457,538	8,966		1.02	5,718,820	13.52	1.000	6,185,324 TRKF Total
1998	TRKF	Untagged	19990518	19990518	Wickland Oil Net Pens	V		56,700						
1998	TRKF	Untagged	19990518	19990518	Wickland Oil Net Pens	V		56,700						
1998	TRKF	Untagged	19990518	19990518	Wickland Oil Net Pens	V		56,700						
1998	TRKF	Untagged	19990519	19990519	Wickland Oil Net Pens	V		64,860						
1998	TRKF	Untagged	19990520	19990520	Wickland Oil Net Pens	V		66,700						
1998	TRKF	Untagged	19990524	19990524	Wickland Oil Net Pens	V		62,100						
1998	TRKF	Untagged	19990525	19990525	Wickland Oil Net Pens	V		55,430						
1998	TRKF	Untagged	19990527	19990527	Wickland Oil Net Pens	G		80,500						
1998	TRKF	Untagged	19990527	19990527	Wickland Oil Net Pens	V		64,400						
1998	TRKF	Untagged	19990527	19990527	Wickland Oil Net Pens	G		87,400						
1998	TRKF	Untagged	19990528	19990528	Wickland Oil Net Pens	G		71,300						
1998	TRKF	Untagged	19990528	19990528	Wickland Oil Net Pens	G		69,000						
1998	TRKF	Untagged	19990601	19990601	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990601	19990601	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990601	19990601	Wickland Oil Net Pens	V		64,400						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		35,200						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		38,400						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990602	19990602	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990603	19990603	Wickland Oil Net Pens	G		73,600						
1998	TRKF	Untagged	19990604	19990604	Wickland Oil Net Pens	G		36,850						
1998	TRKF	Tagged	19990607	19990607	Wickland Oil Net Pens	G		56,600						
1998	TRKF	Tagged	19990607	19990607	Wickland Oil Net Pens	G		56,600						
1998	TRKF	Tagged	19990607	19990607	Wickland Oil Net Pens	G		56,600						
1998	TRKF	Tagged	19990608	19990608	Wickland Oil Net Pens	G		85,300						
1998	TRKF	Tagged	19990608	19990608	Wickland Oil Net Pens	G		85,300						
1998	TRKF	Tagged	19990608	19990608	Wickland Oil Net Pens	G		85,300						
1998	TRKF	Tagged	19990609	19990609	Wickland Oil Net Pens	G		87,600						
1998	TRKF	Untagged	19990609	19990609	Wickland Oil Net Pens	G		112,700						
1998	TRKF	Tagged	19990609	19990609	Wickland Oil Net Pens	G		87,600						
1998	TRKF	Tagged	19990610	19990610	Wickland Oil Net Pens	G		99,100						
1998	TRKF	Tagged	19990610	19990610	Wickland Oil Net Pens	G		99,100						
1998	TRKF	Tagged	19990610	19990610	Wickland Oil Net Pens	G		99,100						
1998	TRKF	Tagged	19990611	19990611	Wickland Oil Net Pens	G		104,300						
1998	TRKF	Tagged	19990611	19990611	Wickland Oil Net Pens	G		104,300						
1998	TRKF	Tagged	19990611	19990611	Wickland Oil Net Pens	G		104,300						
1998	TRKF	Untagged	19990614	19990614	Wickland Oil Net Pens	G		62,400						
1998	TRKF	Untagged	19990614	19990614	Wickland Oil Net Pens	G		133,400						
1998	TRKF	Untagged	19990614	19990614	Wickland Oil Net Pens	G		103,500						
1998	TRKF	Untagged	19990614	19990614	Wickland Oil Net Pens	G		58,000						
1998	TRKF	Untagged	19990615	19990615	Wickland Oil Net Pens	G		115,000						
1998	TRKF	Untagged	19990615	19990615	Wickland Oil Net Pens	G		105,800						
1998	TRKF	Untagged	19990615	19990615	Wickland Oil Net Pens	G		115,000						
1998	TRKF	Untagged	19990616	19990616	Wickland Oil Net Pens	G		128,800						
1998	TRKF	Untagged	19990616	19990616	Wickland Oil Net Pens	G		108,100						
1998	TRKF	Untagged	19990616	19990616	Wickland Oil Net Pens	G		123,510						
1998	TRKF	Untagged	19990617	19990617	Wickland Oil Net Pens	G		128,800						
1998	TRKF	Untagged	19990617	19990617	Wickland Oil Net Pens	G		128,800						
1998	TRKF	Untagged	19990617	19990617	Wickland Oil Net Pens	G		128,800						
1998	TRKF	Untagged	19990618	19990618	Wickland Oil Net Pens	G		105,800						
1998	TRKF	Untagged	19990618	19990618	Wickland Oil Net Pens	G		105,800						
1998	TRKF	Untagged	19990618	19990618	Wickland Oil Net Pens	G		100,970						
1998	TRKF	Untagged	19990621	19990621	Wickland Oil Net Pens	G		94,300						
1998	TRKF	Untagged	19990621	19990621	Wickland Oil Net Pens	G		94,300						
1998	TRKF	Untagged	19990621	19990621	Wickland Oil Net Pens	G		94,300						
1998	TRKF	Untagged	19990622	19990622	Wickland Oil Net Pens	G		92,000						
1998	TRKF	Untagged	19990622	19990622	Wickland Oil Net Pens	G		73,500						
1998	TRKF	Untagged	19990622	19990622	Wickland Oil Net Pens	G		80,500						
1998	TRKF	Untagged	19990623	19990623	Wickland Oil Net Pens	G		131,100						
1998	TRKF	Untagged	19990623	19990623	Wickland Oil Net Pens	G		131,100						
1998	TRKF	Untagged	19990624	19990624	Wickland Oil Net Pens	G		131,100						

Tot Rel	#Tagged	Untagged
108100	51504	56596
108100	51504	56596
108100	51504	56596
110400	25100	85300
110400	25100	85300
110400	25100	85300
110400	25100	85300
112700	25100	87600
112700	25100	87600
124200	25100	99100
124200	25100	99100
124200	25100	99100
124200	19907	104293
124200	19907	104293
124200	19907	104293
1626100	415033	1211067

Appendix 1d. 1998 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1998	TRKF	Untagged	19990624	19990624	Wickland Oil Net Pens	G		116,600						
1998	TRKF	Untagged	19990624	19990624	Wickland Oil Net Pens	G		121,900						
								5,718,820						
1998	XHAF	0601060701	19990211	19990211	Yolo Bypass-Fremont Wr Rd 16	G	25,241	754	0		0	1.03		
1998	XHAF	0601060702	19990211	19990211	Yolo Bypass-Fremont Wr Rd 16	G	27,699	827	0		0	1.03		
1998	XHAF	0601060703	19990211	19990211	Yolo Bypass-Fremont Wr Rd 16	G	25,262	754	0		0	1.03		
1998	XHAF	0601060704	19990211	19990211	Yolo Bypass-Fremont Wr Rd 16	G	25,269	755	0		0	1.03		
1998	XHAF	0501020708	19990301	19990301	Mokelumne R, Mouth	F	25,414	387	0		0	1.02		
1998	XHAF	0501020709	19990301	19990301	Mokelumne R, Mouth	F	25,649	391	0		0	1.02		
1998	XHAF	0501020710	19990301	19990301	Mokelumne R, Mouth	F	27,943	426	0		0	1.02		
1998	XHAF	0501020711	19990301	19990301	Mokelumne R, Mouth	F	24,721	376	0		0	1.02		
1998	XHAF	0501020712	19990330	19990330	Georgianna Slough	G	26,330	266	0		0	1.01		
1998	XHAF	0501020713	19990330	19990330	Georgianna Slough	G	26,248	244	0		0	1.01		
1998	XHAF	0501020801	19990427	19990427	Georgianna Slough	G	13,888	113	9,389		0	1.68		FULL-TAG LENGTHS USED FOR 9,389 FISH
1998	XHAF	0501020802	19990427	19990427	Georgianna Slough	G	27,393	138	0		0	1.01		
							301,057	5,431	9,389					
														315,877 XHAF Total
1998	OROF	601060711	19990525	19990525	Lake Oroville	G	25,000	0	0		0	1.00		
1998	OROF	0601060709	19991021	19991022	Lake Oroville	Y	26,262	0	0		0	1.00		
1998	OROF	601060710	19991021	19991022	Lake Oroville	Y	26,680	0	0		0	1.00		
1998	OROF	601060801	19991101	19991101	Lake Oroville	Y	28,125	0	0		0	1.00		
1998	OROF	0601060802	19991101	19991101	Lake Oroville	Y	26,666	0	0		0	1.00		
1998	OROF	0601060803	19991101	19991101	Lake Oroville	Y	26,317	0	0		0	1.00		
1998	OROF	0601060804	19991101	19991101	Lake Oroville	Y	25,886	0	0		0	1.00		
							184,936	0	0					184,936 OROF Total

Fall Hatchery Release 7,797,472
Hatchery Annual Report 7,794,457

Difference 3,015

Appendix 1e. 1999 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1999	FRHS	062659	20000517	20000517	Wickland Oil Net Pen	V	99,086	1,714	0		598,911	7.06	0.330	Net Pens 75 days
1999	FRHS	0601061106	20000518	20000602	Wickland Oil Net Pen	V	201,236	1,914	0		1,216,343	7.05	0.670	IHN DISEASE - Net Pens 80-95 days
							300,322	3,628	0		1,815,254		1.000	2,119,204 FRHS Total
1999	FRHS	Untagged	20000508	20000612	Wickland Oil Net Pen	V	1,785,554 New estimate 10/18/04							Net Pens
1999	FRHS	Untagged	June	June	Benicia	V	29,700 Submit change to RMIS							FRHS Total 2,119,204
														Hat. Ann. Rpt. 2,119,204
														Difference 0
1999	FRW	0601061009	20000104	20000109	Thermalito - Live Oak	F	12,609	257	0		0	1.02		Wild
1999	FRW	0601061010	20000109	20000115	Thermalito - Live Oak	F	12,744	260	0		0	1.02		Wild
1999	FRW	0601061011	20000115	20000119	Thermalito - Live Oak	F	12,165	248	0		0	1.02		Wild
1999	FRW	0601061112	20000219	20000307	Thermalito - Live Oak	F	10,681	218	0		0	1.02		Wild
1999	FRW	0601061111	3/8/2000	20000329	Thermalito - Live Oak	F	7,082	145	0		0	1.02		Wild
							55,281	1,128	0		0			
1999	FRW	0601061012	20000120	20000123	Thermalito - Live Oak	F	12,338	0	252	1.02	69,389	5.62	0.139	Surrogate for unmarked
1999	FRW	0601061013	20000123	20000128	Thermalito - Live Oak	F	12,489	0	255	1.02	70,238	5.62	0.140	Surrogate for unmarked
1999	FRW	0601061014	20000128	20000130	Thermalito - Live Oak	F	12,503	0	255	1.02	70,317	5.62	0.141	Surrogate for unmarked
1999	FRW	0601061015	20000130	20000202	Thermalito - Live Oak	F	12,241	0	250	1.02	68,843	5.62	0.138	Surrogate for unmarked
1999	FRW	0601061101	20000202	20000209	Thermalito - Live Oak	F	12,246	0	250	1.02	68,871	5.62	0.138	Surrogate for unmarked
1999	FRW	0601061102	20000209	20000214	Thermalito - Live Oak	F	12,625	0	258	1.02	71,003	5.62	0.142	Surrogate for unmarked
1999	FRW	0601061103	20000214	20000219	Thermalito - Live Oak	F	14,494	0	296	1.02	81,514	5.62	0.163	Surrogate for unmarked
							88,936	0	1,816		500,176		1.000	147,161 Wild total
1999	INBF	Untagged	20000127	20000127	Feather River - Honcut Ck - S.F.	G		100,100						Surrogate w/ Wilds
1999	INBF	Untagged	20000127	20000127	Feather River - Honcut Ck - N.F.	G		100,100						Surrogate w/ Wilds
1999	INBF	Untagged	20000128	20000128	Feather River - Dry Creek	G		100,100						Surrogate w/ Wilds
1999	INBF	Untagged	20000209	20000209	Feather River - Bear River	G		199,876						Surrogate w/ Wilds
							500,176							500,176 INBF unmarked
1999	INBF	0601061005	20000215	20000215	Isleton - Sac R	G	24,857	1,036	0		0	1.04		
1999	INBF	0601061006	20000215	20000215	Isleton - Sac R	G	26,436	1,101	0		0	1.04		
1999	INBF	0601061107	20000222	20000222	Elkhorn Boat Ramp - Sac R	G	52,886	0	0		0	1.00		
1999	INBF	0501020809	20000229	20000229	Isleton - Sac R	G	26,837	135	0		0	1.01		
1999	INBF	0501020810	20000229	20000229	Isleton - Sac R	G	26,033	131	0		0	1.01		
1999	INBF	0601061105	20000322	20000322	Verona - Feather R	G	101,115	3,127	0		0	1.03		
1999	INBF	062657	20000322	20000322	Verona - Feather R	G	103,165	1,571	0		0	1.02		
1999	INBF	0501020805	20000329	20000329	Ryde-koket Sac R	G	23,042	303	0		0	1.01		
1999	INBF	0501020806	20000329	20000329	Ryde-koket Sac R	G	23,468	309	0		0	1.01		
1999	INBF	062655	20000410	20000410	West Sacramento	G	25,005	253	0		0	1.01		
1999	INBF	062656	20000410	20000410	West Sacramento	G	25,011	253	0		0	1.01		
1999	INBF	0501020807	20000428	20000428	Ryde-koket Sac R	G	21,419	282	0		0	1.01		FISH HAD IHN DISEASE
1999	INBF	0501020808	20000428	20000428	Ryde-koket Sac R	G	21,395	282	0		0	1.01		FISH HAD IHN DISEASE
1999	INBF	062653	20000501	20000501	West Sacramento	G	20,926	211	0		0	1.01		FISH HAD IHN DISEASE
1999	INBF	062654	20000501	20000501	West Sacramento	G	20,613	208	0		0	1.01		FISH HAD IHN DISEASE
1999	INBF	062649	20000515	20000515	West Sacramento	G	17,416	319	0		0	1.02		FISH HAD IHN DISEASE
1999	INBF	062650	20000515	20000515	West Sacramento	G	17,064	313	0		0	1.02		FISH HAD IHN DISEASE
1999	INBF	062660	20000607	20000607	Live Oak - Fea R	V	42,275	775	0		0	1.02		FISH HAD IHN DISEASE
							618,963	10,609	0					629,572 INBF marked
1999	TRKF	053829	20000412	20000412	Port Chicago	G	23,582	780	0	1.03	344,058	15.62	0.063	FISH HAD IHN DISEASE
1999	TRKF	053830	20000412	20000412	Port Chicago	G	23,352	772	0	1.03	340,703	15.62	0.063	FISH HAD IHN DISEASE
1999	TRKF	062651	20000503	20000503	Port Chicago	G	15,770	289	0	1.02	230,082	15.61	0.042	FISH HAD IHN DISEASE
1999	TRKF	062652	20000503	20000503	Port Chicago	G	15,541	285	0	1.02	226,741	15.61	0.042	FISH HAD IHN DISEASE
1999	TRKF	062658	20000620	20000627	Wickland Oil Net Pen	V	294,362	7,238	0	1.02	4,294,705	15.61	0.790	FISH HAD IHN DISEASE
							372,607	9,364		1.03	5,436,290	15.62	1.000	5,818,261 TRKF total
1999	TRKF	Untagged	20000407	20000407	Wickland Oil Net Pens	G		218,400						
1999	TRKF	Untagged	20000407	20000407	Wickland Oil Net Pens	G		218,400						
1999	TRKF	Untagged	20000410	20000410	Rodeo Minor Port	G		200,100						
1999	TRKF	Untagged	20000410	20000410	Rodeo Minor Port	G		143,000						
1999	TRKF	Untagged	20000410	20000410	Rodeo Minor Port	G		143,000						
1999	TRKF	Untagged	20000412	20000412	Wickland Oil Net Pens	G		211,200						
1999	TRKF	Untagged	20000412	20000412	Wickland Oil Net Pens	G		211,200						
1999	TRKF	Untagged	20000511	20000511	Wickland Oil Net Pens	V		61,600						
1999	TRKF	Untagged	20000511	20000511	Wickland Oil Net Pens	V		36,400						
1999	TRKF	Untagged	20000512	20000512	Wickland Oil Net Pens	G		105,600						
1999	TRKF	Untagged	20000512	20000512	Wickland Oil Net Pens	G		101,200						
1999	TRKF	Untagged	20000525	20000525	Wickland Oil Net Pens	G		73,600						
1999	TRKF	Untagged	20000525	20000525	Rodeo Minor Port	G		68,540						
1999	TRKF	Untagged	20000525	20000525	Rodeo Minor Port	G		68,540						
1999	TRKF	Untagged	20000605	20000605	Wickland Oil Net Pens	G		67,850						
1999	TRKF	Untagged	20000605	20000605	Wickland Oil Net Pens	G		67,850						
1999	TRKF	Untagged	20000606	20000606	Wickland Oil Net Pens	V		61,600						
1999	TRKF	Untagged	20000606	20000606	Wickland Oil Net Pens	G		59,000						
1999	TRKF	Untagged	20000606	20000606	Wickland Oil Net Pens	G		67,850						
1999	TRKF	Untagged	20000607	20000607	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000607	20000607	Wickland Oil Net Pens	G		69,000						

Appendix 1e. 1999 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
1999	TRKF	Untagged	20000607	20000607	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000608	20000608	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000608	20000608	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000612	20000612	Wickland Oil Net Pens	G		105,800						
1999	TRKF	Untagged	20000612	20000612	Wickland Oil Net Pens	G		105,800						
1999	TRKF	Untagged	20000613	20000613	Wickland Oil Net Pens	G		112,700						
1999	TRKF	Untagged	20000613	20000613	Wickland Oil Net Pens	G		112,700						
1999	TRKF	Untagged	20000613	20000613	Wickland Oil Net Pens	G		73,100						
1999	TRKF	Untagged	20000613	20000613	Wickland Oil Net Pens	G		29,700						
1999	TRKF	Untagged	20000614	20000614	Wickland Oil Net Pens	V		43,700						
1999	TRKF	Untagged	20000614	20000614	Wickland Oil Net Pens	G		111,090						
1999	TRKF	Untagged	20000614	20000614	Wickland Oil Net Pens	G		111,090						
1999	TRKF	Untagged	20000614	20000614	Wickland Oil Net Pens	G		82,800						
1999	TRKF	Untagged	20000615	20000615	Wickland Oil Net Pens	G		115,000						
1999	TRKF	Untagged	20000615	20000615	Wickland Oil Net Pens	G		115,000						
1999	TRKF	Untagged	20000615	20000615	Wickland Oil Net Pens	V		30,400						
1999	TRKF	Untagged	20000615	20000615	Wickland Oil Net Pens	G		35,000						
1999	TRKF	Untagged	20000616	20000616	Wickland Oil Net Pens	G		103,730						
1999	TRKF	Untagged	20000616	20000616	Wickland Oil Net Pens	G		77,000						
1999	TRKF	Untagged	20000616	20000616	Wickland Oil Net Pens	G		39,600						
1999	TRKF	Untagged	20000616	20000616	Wickland Oil Net Pens	G		101,200						
1999	TRKF	Untagged	20000619	20000619	Wickland Oil Net Pens	G		102,900						
1999	TRKF	Untagged	20000619	20000619	Wickland Oil Net Pens	G		115,000						
1999	TRKF	Untagged	20000619	20000619	Wickland Oil Net Pens	G		115,000						
1999	TRKF	Untagged	20000620	20000620	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000620	20000620	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000621	20000621	Wickland Oil Net Pens	G		67,850						
1999	TRKF	Untagged	20000621	20000621	Wickland Oil Net Pens	G		67,850						
1999	TRKF	Untagged	20000622	20000622	Wickland Oil Net Pens	G		71,300						
1999	TRKF	Untagged	20000623	20000623	Wickland Oil Net Pens	G		72,000						
1999	TRKF	Untagged	20000623	20000623	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000623	20000623	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000623	20000623	Wickland Oil Net Pens	G		71,300						
1999	TRKF	Untagged	20000626	20000626	Wickland Oil Net Pens	V		66,700						
1999	TRKF	Untagged	20000626	20000626	Wickland Oil Net Pens	V		66,700						
1999	TRKF	Untagged	20000626	20000626	Wickland Oil Net Pens	V		66,700						
1999	TRKF	Untagged	20000627	20000627	Wickland Oil Net Pens	G		72,000						
1999	TRKF	Untagged	20000627	20000627	Wickland Oil Net Pens	G		86,250						
1999	TRKF	Untagged	20000627	20000627	Wickland Oil Net Pens	G		69,000						
1999	TRKF	Untagged	20000628	20000628	Wickland Oil Net Pens	G		14,400						
								5,436,290						
1999	TRHY	062940	20000826	20000826	Tiburon Net Pens	Y	28,888	500	0		0	1.02		FISH HAD IHN DISEASE 29,388 FRHY total
1999	XHAF	0601061104	20000204	20000204	Yolo Bypass-Fremont Wr	G	100,901	4,810	0		0	1.05		Planted into both Yolo and Sac.
1999	XHAF	0601061003	20000214	20000214	Mokelumne R, Mouth	G	26,302	647	0		0	1.02		
1999	XHAF	0601061004	20000214	20000214	Mokelumne R, Mouth	G	24,059	592	0		0	1.02		
1999	XHAF	0601061007	20000222	20000222	Yolo Bypass-Fremont Wr	G	27,250	415	0		0	1.02		COMBINED WITH 0601061008
1999	XHAF	0601061008	20000222	20000222	Yolo Bypass-Fremont Wr	G	27,302	416	0		0	1.02		COMBINED WITH 0601061007
1999	XHAF	0601060912	20000228	20000228	Mokelumne R, Mouth	G	27,514	705	0		0	1.03		FISH HAD IHN DISEASE
1999	XHAF	0601060913	20000228	20000228	Mokelumne R, Mouth	G	25,459	653	0		0	1.03		
1999	XHAF	0501020803	20000328	20000328	Georgianna Slough	G	24,571	476	0		0	1.02		
1999	XHAF	0501020804	20000328	20000328	Georgianna Slough	G	25,253	489	0		0	1.02		
1999	XHAF	0601061109	20000427	20000427	Georgianna Slough	G	19,471	177	0		0	1.01		
1999	XHAF	0601061110	20000427	20000427	Georgianna Slough	G	19,665	179	0		0	1.01		FISH HAD IHN DISEASE
							347,747	9,559						357,306 XHAF marked
1999	XHAF	Untagged	20000511	20000511	Monterey Bay	G		60,000						
1999	XHAF	Untagged	20000524	20000524	Monterey Bay	G		60,450						Vaccinated for Vibrio
1999	XHAF	Untagged	20000617	20000617	Avila	G		62,400						Vaccinated for Vibrio
								182,850						182,850 XHAF unmarked
1999	dead	0601061108												Destroyed; IHN
1999	dead	062661												Destroyed; IHN
														Fall Hatchery Release 7,517,553 Hatchery Annual Report 7,521,787
														Difference 4,234

Appendix 1f. 2000 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2000	FRHS 062677	20010327	20010330	Wickland Oil Net Pen	V	46,052	2,732	0					Net Pens
2000	FRHS 062678	20010327	20010330	Wickland Oil Net Pen	V	46,052	2,732	0					Net Pens
2000	FRHS 062679	20010327	20010330	Wickland Oil Net Pen	V	46,052	2,732	0					Net Pens
						138,156	8,196	0					146,352 March FRHS
2000	FRHS 062680	20010328	20010426	Wickland Oil Net Pen	G	47,742	69,826	2,832		183,283	2.52	0.333	Net Pens
2000	FRHS 062681	20010328	20010423	Wickland Oil Net Pen	G	47,742	69,826	2,832		183,283	2.52	0.333	Net Pens
2000	FRHS 062682	20010328	20010426	Wickland Oil Net Pen	G	47,742	69,826	2,832		183,283	2.52	0.333	Net Pens
						143,226	209,478	8,496		549,850		1.000	911,050 April-May FRHS
2000	FRHS Untagged	20010423	20010424	Wickland Oil Net Pen	V		248,400						Net Pens
2000	FRHS Untagged	20010508	20010509	Wickland Oil Net Pen	V		301,450						Net Pens
							549,850						
									FRHS Total	1,057,402			
									Hat. Ann. Rpt.	1,061,250			
									Difference	3,848			
2000	FRW 0601061113	20010105	20010109	Thermalito - Live Oak	F	12,929	264	0		0	1.02		Wild
2000	FRW 0601061114	20010106	20010115	Thermalito - Live Oak	F	12,427	254	0		0	1.02		Wild
2000	FRW 0601061115	20010110	20010118	Thermalito - Live Oak	F	12,243	250	0		0	1.02		Wild
2000	FRW 0601061201	20010117	20010126	Thermalito - Live Oak	F	10,964	224	0		0	1.02		Wild
2000	FRW 0601061202	20010117	20010122	Thermalito - Live Oak	F	12,992	265	0		0	1.02		Wild
2000	FRW 0601061203	20010122	20010126	Thermalito - Live Oak	F	12,915	264	0		0	1.02		Wild
2000	FRW 0601061204	20010127	20010202	Thermalito - Live Oak	F	11,453	234	0		0	1.02		Wild
2000	FRW 0601061205	20010128	20010202	Thermalito - Live Oak	F	12,763	260	0		0	1.02		Wild
2000	FRW 0601070101	20010203	20010208	Thermalito - Live Oak	F	10,153	207	0		0	1.02		Wild
2000	FRW 0601070102	20010203	20010208	Thermalito - Live Oak	F	9,399	192	0		0	1.02		Wild
2000	FRW 0601070105	20010208	20010213	Thermalito - Live Oak	F	10,097	206	0		0	1.02		Wild
2000	FRW 0601070103	20010209	20010213	Thermalito - Live Oak	F	10,538	215	0		0	1.02		Wild
2000	FRW 0601070106	20010213	20010213	Thermalito - Live Oak	F	10,403	212	0		0	1.02		Wild
2000	FRW 0601070104	20010213	20010215	Thermalito - Live Oak	F	10,077	206	0		0	1.02		Wild
2000	FRW 0601070107	20010215	20010220	Thermalito - Live Oak	F	9,994	204	0		0	1.02		Wild
2000	FRW 0601070108	20010216	20010222	Thermalito - Live Oak	F	10,169	208	0		0	1.02		Wild
2000	FRW 0601070109	20010220	20010227	Thermalito - Live Oak	F	10,003	204	0		0	1.02		Wild
2000	FRW 0601070100	20010222	20010308	Thermalito - Live Oak	F	10,122	207	0		0	1.02		Wild
2000	FRW 0601070008	20010226	20010310	Thermalito - Live Oak	F	10,039	205	0		0	1.02		Wild
						209,680	4,281	0		0			213,961 Wild total
2000	INBF 0601070205	20010215	20010215	Elkhorn Boat Ramp - Sac R	G	9,149	405	0		0	1.04		
2000	INBF 0601070206	20010215	20010215	Elkhorn Boat Ramp - Sac R	G	9,507	421	0		0	1.04		
2000	INBF 0601070207	20010215	20010215	Elkhorn Boat Ramp - Sac R	G	9,508	421	0		0	1.04		
2000	INBF 0601070208	20010215	20010215	Elkhorn Boat Ramp - Sac R	G	9,359	414	0		0	1.04		
2000	INBF 0601070209	20010215	20010215	Elkhorn Boat Ramp - Sac R	G	9,000	399	0		0	1.04		
2000	INBF 0601061206	20010226	20010226	Live Oak - Fea R	G	26,077	641	0		0	1.02		
2000	INBF 0601061207	20010226	20010226	Live Oak - Fea R	G	25,679	631	0		0	1.02		
2000	INBF 0601061208	20010226	20010226	Live Oak - Fea R	G	26,280	646	0		0	1.02		
2000	INBF 0601061209	20010226	20010226	Live Oak - Fea R	G	25,947	638	0		0	1.02		
2000	INBF 0601061210	20010226	20010226	Live Oak - Fea R	G	27,042	665	0		0	1.02		
2000	INBF 0601061211	20010226	20010226	Live Oak - Fea R	G	25,574	629	0		0	1.02		
2000	INBF 0601061212	20010226	20010226	Live Oak - Fea R	G	25,464	626	0		0	1.02		
2000	INBF 0601061213	20010226	20010226	Live Oak - Fea R	G	26,921	662	0		0	1.02		
2000	INBF 0601070300	20010227	20010227	Elkhorn Boat Ramp - Sac R	G	10,241	156	0		0	1.02		
2000	INBF 0601070301	20010227	20010227	Elkhorn Boat Ramp - Sac R	G	9,915	151	0		0	1.02		
2000	INBF 0601070302	20010227	20010227	Elkhorn Boat Ramp - Sac R	G	9,806	149	0		0	1.02		
2000	INBF 0601070303	20010227	20010227	Elkhorn Boat Ramp - Sac R	G	9,745	145	0		0	1.01		
2000	INBF 0601070304	20010227	20010227	Elkhorn Boat Ramp - Sac R	G	9,544	145	0		0	1.02		
2000	INBF 0601070000	20010302	20010302	Isleton - Sac R	G	24,556	759	0		0	1.03		
2000	INBF 0601070001	20010302	20010302	Isleton - Sac R	G	21,924	678	0		0	1.03		
2000	INBF 062710	20010503	20010503	Live Oak - Fea R	V	20,258	102	0		0	1.01		
2000	INBF 062711	20010503	20010503	Live Oak - Fea R	V	20,398	102	0		0	1.01		
2000	INBF 062712	20010503	20010503	Live Oak - Fea R	V	19,810	100	0		0	1.01		
2000	INBF 062713	20010503	20010503	Live Oak - Fea R	V	20,129	101	0		0	1.01		
						431,833	9,786						441,619 INBF Total
2000	TRKF 062673	20010329	20010424	Wickland Oil Net Pen	G	46,642	3,189	0	1.07	356,546	8.71	0.134	FISH INFECTED W/ IHN
2000	TRKF 062674	20010329	20010426	Wickland Oil Net Pen	V	47,369	3,239	0	1.07	362,103	8.71	0.136	FISH INFECTED W/ IHN
2000	TRKF 062672	20010329	20010522	Wickland Oil Net Pen	G	42,003	2,872	0	1.07	321,084	8.71	0.121	FISH INFECTED W/ IHN
2000	TRKF 062676	20010424	20010426	Wickland Oil Net Pen	V	44,021	3,010	0	1.07	336,510	8.71	0.127	FISH INFECTED W/ IHN
2000	TRKF 062675	20010424	20010426	Wickland Oil Net Pen	V	42,704	2,920	0	1.07	326,442	8.71	0.123	FISH INFECTED W/ IHN
2000	TRKF 062669	20010501	20010523	Wickland Oil Net Pen	V	41,872	2,194	0	1.05	320,082	8.70	0.121	FISH INFECTED W/ IHN
2000	TRKF 062670	20010501	20010523	Wickland Oil Net Pen	V	41,174	2,146	0	1.05	314,747	8.70	0.119	FISH INFECTED W/ IHN
2000	TRKF 062671	20010501	20010523	Wickland Oil Net Pen	V	41,365	2,159	0	1.05	316,207	8.70	0.119	FISH INFECTED W/ IHN
						347,150	21,729	0	1.06	2,653,721	8.71	1.000	3,022,600 Mar-29-May23 TRKF sub-total
2000	TRKF 062664	20010529	20010530	Wickland Oil Net Pen	V	202,096	732	0	1.00	552,480	3.74	0.587	MASS MARKING DEMONSTRATION
2000	TRKF 062665	20010530	20010531	Wickland Oil Net Pen	V	142,204	1,038	0	1.01	388,750	3.74	0.413	MASS MARKING DEMONSTRATION
						344,300	1,770	0	1.01	941,230	3.74	1.000	1,287,300 May24-Jun.12 TRKF sub-total
						691,450	23,499	0	1.03	3,594,951	6.23		4,309,900 TRKF Total

Appendix 1f. 2000 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
All Bay Releases - Tagged and Untagged StateWide													
2000	TRKF	Tagged	20010329	20010329	San Pablo Bay	G		170,000					
2000	TRKF	Tagged	20010423	20010423	San Pablo Bay	G		126,500					
2000	TRKF	Tagged	20010424	20010424	San Pablo Bay	G		79,650					
2000	TRKF	Tagged	20010424	20010424	San Pablo Bay	G		117,300					
2000	TRKF	Tagged	20010425	20010425	San Pablo Bay	G		131,100					
2000	TRKF	Tagged	20010425	20010425	San Pablo Bay	G		126,500					
2000	TRKF	Untagged	20010425	20010425	San Pablo Bay	G		170,200					
2000	TRKF	Untagged	20010426	20010426	San Pablo Bay	G		138,000					
2000	TRKF	Tagged	20010426	20010426	San Pablo Bay	G		102,600					
2000	TRKF	Tagged	20010426	20010426	San Pablo Bay	G		5,700					
2000	TRKF	Untagged	20010430	20010430	San Pablo Bay	G		138,000					
2000	TRKF	Untagged	20010430	20010430	San Pablo Bay	G		121,900					
2000	TRKF	Untagged	20010501	20010501	San Pablo Bay	G		69,600					
2000	TRKF	Tagged	20010501	20010501	San Pablo Bay	G		135,700					
2000	TRKF	Untagged	20010502	20010502	Rodeo Minor Port	G		46,200					
2000	TRKF	Untagged	20010507	20010507	San Pablo Bay	G		115,000					
2000	TRKF	Untagged	20010507	20010507	San Pablo Bay	G		115,000					
2000	TRKF	Untagged	20010509	20010509	San Pablo Bay	G		44,250					
2000	TRKF	Untagged	20010509	20010509	San Pablo Bay	G		115,000					
2000	TRKF	Untagged	20010510	20010510	San Pablo Bay	G		117,300					
2000	TRKF	Untagged	20010510	20010510	San Pablo Bay	G		117,300					
2000	TRKF	Untagged	20010511	20010511	San Pablo Bay	G		117,300					
2000	TRKF	Untagged	20010511	20010511	San Pablo Bay	G		117,300					
2000	TRKF	Untagged	20010515	20010515	Rodeo Minor Port	G		34,300					
2000	TRKF	Untagged	20010521	20010521	San Pablo Bay	V		29,000					
2000	TRKF	Untagged	20010521	20010521	San Pablo Bay	G		135,700					
2000	TRKF	Untagged	20010521	20010521	San Pablo Bay	V		64,400					
2000	TRKF	Tagged	20010522	20010522	San Pablo Bay	G		66,700					
2000	TRKF	Tagged	20010522	20010522	San Pablo Bay	G		64,400					
2000	TRKF	Untagged	20010522	20010522	San Pablo Bay	G		47,200		3,022,600	Mar 29-May 23 Tot. TRHF StateWide		
2000	TRKF	Tagged	20010523	20010523	San Pablo Bay	G		43,500		368,879	Tot. CWTed + Untagged from Non-Mass Marking		
								3,022,600		2,653,721	Difference		
2000	TRKF	Untagged	20010524	20010524	San Pablo Bay	G		117,300					
2000	TRKF	Untagged	20010525	20010525	San Pablo Bay	G		112,700					
2000	TRKF	Untagged	20010525	20010525	San Pablo Bay	G		112,700					
2000	TRKF	Untagged	20010525	20010525	San Pablo Bay	G		112,700					
2000	TRKF	Tagged	20010529	20010529	San Pablo Bay	G		59,800					
2000	TRKF	Tagged	20010529	20010529	San Pablo Bay	G		62,100					
2000	TRKF	Tagged	20010530	20010530	San Pablo Bay	G		33,600					
2000	TRKF	Tagged	20010530	20010530	San Pablo Bay	G		64,400					
2000	TRKF	Tagged	20010530	20010530	San Pablo Bay	G		64,400					
2000	TRKF	Tagged	20010531	20010531	San Pablo Bay	G		9,000					
2000	TRKF	Untagged	20010531	20010531	San Pablo Bay	G		51,000					
2000	TRKF	Untagged	20010611	20010611	San Pablo Bay	G		121,900					
2000	TRKF	Untagged	20010611	20010611	San Pablo Bay	G		121,900					
2000	TRKF	Untagged	20010612	20010612	San Pablo Bay	G		121,900		1,287,300	May 24-Jun. 12 Tot. TRHF StateWide		
2000	TRKF	Untagged	20010612	20010612	San Pablo Bay	G		121,900		346,070	Tot. CWTed + Untagged from Mass Marking		
								1,287,300		941,230	Difference		
2000	TRHY	062941	20010825	20010825	Tiburon Net Pens	Y	41,819	12	0	0	1.00		41,831 FRHY Total
2000	XHAF	0601070200	20010215	20010215	Yolo Bypass - Fremont Wr	G	9,419	372	0	0	1.04		
2000	XHAF	0601070201	20010215	20010215	Yolo Bypass - Fremont Wr	G	9,732	384	0	0	1.04		
2000	XHAF	0601070202	20010215	20010215	Yolo Bypass - Fremont Wr	G	9,448	373	0	0	1.04		
2000	XHAF	0601070203	20010215	20010215	Yolo Bypass - Fremont Wr	G	9,526	376	0	0	1.04		
2000	XHAF	0601070204	20010215	20010215	Yolo Bypass - Fremont Wr	G	9,166	362	0	0	1.04		
2000	XHAF	0601070305	20010227	20010227	Yolo Bypass - Fremont Wr	G	10,179	315	0	0	1.03		
2000	XHAF	0601070306	20010227	20010227	Yolo Bypass - Fremont Wr	G	9,134	283	0	0	1.03		
2000	XHAF	0601070307	20010227	20010227	Yolo Bypass - Fremont Wr	G	10,141	314	0	0	1.03		
2000	XHAF	0601070308	20010227	20010227	Yolo Bypass - Fremont Wr	G	8,921	276	0	0	1.03		
2000	XHAF	0601070309	20010227	20010227	Yolo Bypass - Fremont Wr	G	9,884	306	0	0	1.03		
2000	XHAF	0601070002	20010302	20010302	Mokelumne R, Mouth	G	23,271	1,860	0	0	1.08		
2000	XHAF	0601070003	20010302	20010302	Mokelumne R, Mouth	G	22,919	1,832	0	0	1.08		
							141,740	7,053					148,793 XHAF Marked
2000	XHAF	Untagged	20010509	20010509	Monterey Bay	G		53,940					
2000	XHAF	Untagged	20010509	20010509	Santa Cruz Harbor	G		53,940					
2000	XHAF	Untagged	20010523	20010523	Monterey Bay	G		53,870					
2000	XHAF	Untagged	20010523	20010523	Santa Cruz Harbor	G		54,000					
								215,750					215,750 XHAF Untagged

Fall Hatchery Release 5,157,893
Hatchery Annual Report 5,153,734

Difference (4,798 Screen Efficiency Study) 4,159

Appendix 1g. 2001 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2001	FRHS	062734	20020403	20020403	Live Oak	G	88,470	1,805	0		0	1.02	0.341	In Basin Release
2001	FRHS	062732	20020418	20020418	Live Oak	G	86,121	1,610	0		0	1.02	0.332	In Basin Release
2001	FRHS	062733	20020429	20020429	Live Oak	G	84,844	3,554	0		0	1.04	0.327	In Basin Release
							259,435	6,969	0				1.000	266,404 In Basin Total
2001	FRHS	062689	20020328	20020328	Wickland Oil Net Pen	G	159,922	5,678	0	1.04	750,079	5.73	0.491	No Net Pens
2001	FRHS	062731	20020401	20020411	Wickland Oil Net Pen	G	165,805	6,945	0	1.04	777,671	5.73	0.509	w/ and wo/ net pens
							325,727	12,623	0		1,527,750		1.000	1,866,100 Trucked Total
2001	FRHS	Untagged	20020328	20020411	Wickland Oil Net Pen	G		95,650						
2001	FRHS	Untagged	20020501	20020501	Wickland Oil Net Pen	G		92,000						
2001	FRHS	Untagged	20020506	20020506	Wickland Oil Net Pen	G		77,000						
2001	FRHS	Untagged	20020507	20020507	Wickland Oil Net Pen	G		54,000						
2001	FRHS	Untagged	20020507	20020507	Wickland Oil Net Pen	G		110,400						
2001	FRHS	Untagged	20020508	20020508	Wickland Oil Net Pen	G		124,200						
2001	FRHS	Untagged	20020508	20020508	Wickland Oil Net Pen	G		121,900						
2001	FRHS	Untagged	20020509	20020509	Wickland Oil Net Pen	G		128,800						
2001	FRHS	Untagged	20020509	20020509	Wickland Oil Net Pen	G		128,800						
2001	FRHS	Untagged	20020513	20020513	Wickland Oil Net Pen	G		110,400						
2001	FRHS	Untagged	20020513	20020513	Wickland Oil Net Pen	G		14,400						
2001	FRHS	Untagged	20020513	20020513	Wickland Oil Net Pen	G		92,000						
2001	FRHS	Untagged	20020514	20020514	Wickland Oil Net Pen	G		101,200						
2001	FRHS	Untagged	20020514	20020514	Wickland Oil Net Pen	G		105,800						
2001	FRHS	Untagged	20020515	20020515	Wickland Oil Net Pen	G		119,600						
2001	FRHS	Untagged	20020515	20020515	Wickland Oil Net Pen	G		51,600						
							1,527,750							FRHS Total 2,132,504 Hat. Ann. Rpt. 2,132,504 Difference 0
2001	FRW	0601070400	20020117	20020120	Thermalito - Live Oak	F	10,000	417	0		0	1.04		
2001	FRW	0601070401	20020117	20020123	Thermalito - Live Oak	F	10,350	431	0		0	1.04		
2001	FRW	0601070403	20020121	20020124	Thermalito - Live Oak	F	10,284	429	0		0	1.04		
2001	FRW	0601070404	20020123	20020126	Thermalito - Live Oak	F	10,104	421	0		0	1.04		
2001	FRW	0601070405	20020124	20020129	Thermalito - Live Oak	F	10,425	434	0		0	1.04		
2001	FRW	0601070406	20020127	20020130	Thermalito - Live Oak	F	9,725	405	0		0	1.04		
2001	FRW	0601070407	20020129	20020131	Thermalito - Live Oak	F	10,521	438	0		0	1.04		
2001	FRW	0601070408	20020130	20020201	Thermalito - Live Oak	F	10,084	420	0		0	1.04		
2001	FRW	0601070409	20020131	20020204	Thermalito - Live Oak	F	10,152	423	0		0	1.04		
2001	FRW	0601070501	20020201	20020204	Thermalito - Live Oak	F	10,040	418	0		0	1.04		
2001	FRW	0601070500	20020204	20020209	Thermalito - Live Oak	F	9,958	415	0		0	1.04		
2001	FRW	0601070502	20020204	20020213	Thermalito - Live Oak	F	10,785	449	0		0	1.04		
2001	FRW	0601070503	20020209	20020217	Thermalito - Live Oak	F	10,095	421	0		0	1.04		
2001	FRW	0601070504	20020214	20020221	Thermalito - Live Oak	F	10,670	445	0		0	1.04		
2001	FRW	0601070505	20020217	20020223	Thermalito - Live Oak	F	9,827	409	0		0	1.04		
2001	FRW	0601070402	20020220	20020223	Thermalito - Live Oak	F	10,035	418	0		0	1.04		
2001	FRW	0601070506	20020221	20020227	Thermalito - Live Oak	F	10,696	446	0		0	1.04		
2001	FRW	0601070507	20020223	20020228	Thermalito - Live Oak	F	11,378	474	0		0	1.04		
2001	FRW	0601070508	20020227	20020313	Thermalito - Live Oak	F	10,141	423	0		0	1.04		
2001	FRW	0601070509	20020228	20020313	Thermalito - Live Oak	F	7,526	314	0		0	1.04		
							202,796	8,450	0		0			211,246 Wild total
2001	INBF	0601070006	20020205	20020205	Elkhorn Boat Ramp - Sac R	G	26,380	561	0		0	1.02		
2001	INBF	0601070007	20020205	20020205	Elkhorn Boat Ramp - Sac R	G	24,566	523	0		0	1.02		
2001	INBF	0601070605	20020221	20020221	Elkhorn Boat Ramp - Sac R	G	9,652	48	0		0	1.00		
2001	INBF	0601070606	20020221	20020221	Elkhorn Boat Ramp - Sac R	G	10,426	52	0		0	1.00		
2001	INBF	0601070607	20020221	20020221	Elkhorn Boat Ramp - Sac R	G	10,389	52	0		0	1.01		
2001	INBF	0601070608	20020221	20020221	Elkhorn Boat Ramp - Sac R	G	11,192	56	0		0	1.01		
2001	INBF	0601070609	20020221	20020221	Elkhorn Boat Ramp - Sac R	G	8,751	44	0		0	1.01		
2001	INBF	0601070702	20020222	20020222	Isleton - Sac R	G	25,462	707	0		0	1.03		
2001	INBF	0601070703	20020222	20020222	Isleton - Sac R	G	25,276	701	0		0	1.03		
2001	INBF	0601070704	20020313	20020313	Isleton - Sac R	G	24,138	1,321	0		0	1.05		
2001	INBF	0601070705	20020313	20020313	Isleton - Sac R	G	24,319	1,331	0		0	1.05		
2001	INBF	062695	20020402	20020402	West Sacramento	G	44,563	541	0		0	1.01		
2001	INBF	062699	20020404	20020404	Ryde-koket - Sac R	G	43,789	1,123	0		0	1.03		
2001	INBF	062697	20020417	20020417	West Sacramento	G	45,972	1,179	0		0	1.03		
2001	INBF	062698	20020418	20020418	Ryde-koket - Sac R	G	43,676	2,154	0		0	1.05		
							378,551	10,393						388,944 INBF Total
2001	TRKF	062090	20020410	20020425	Wickland Oil Net Pen	G	263,768	6,832	0	1.03	1,486,709	6.66	0.506	MASS MARKING DEMONSTRATION.
2001	TRKF	062737	20020412	20020412	Wickland Oil Net Pen	V	107,348	3,853	0	1.04	605,059	6.67	0.206	
2001	TRKF	062738	20020412	20020423	Wickland Oil Net Pen	V	105,753	3,796	0	1.04	596,069	6.67	0.203	
2001	TRKF	062696	20020426	20020426	Port Chicago	G	44,789	682	0	1.02	252,450	6.65	0.086	

Appendix 1g. 2001 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
							521,658	15,163	0		2,940,288		1.000	3,477,109 Mar.-Apr. TRKF total
2001	TRKF	062735	20020502	20020503	Wickland Oil Net Pen	V	106,870	3,305	0	1.03	407,641	4.85	0.224	
2001	TRKF	062736	20020503	20020506	Wickland Oil Net Pen	V	106,336	3,289	0	1.03	405,604	4.85	0.222	
2001	TRKF	062091	20020506	20020507	Wickland Oil Net Pen	G	264,738	6,962	0	1.03	1,009,806	4.84	0.554	MASS MARKING DEMONSTRATION.
							477,944	13,556	0		1,823,050		1.000	2,314,550 May-Jun. TRKF total
							999,602	28,719	0	1.03	4,763,338	5.79		5,791,659 TRKF total
2001	TRKF	Untagged	20020328	20020328	San Pablo Bay	G		162,800						
2001	TRKF	Untagged	20020408	20020408	San Pablo Bay	G		184,000						
2001	TRKF	Untagged	20020409	20020409	San Pablo Bay	G		207,000						
2001	TRKF	Untagged	20020409	20020409	San Pablo Bay	G		179,400						
2001	TRKF	Untagged	20020410	20020410	San Pablo Bay	G		184,000						
2001	TRKF	Tagged	20020410	20020410	San Pablo Bay	G		179,400						
2001	TRKF	Untagged	20020411	20020411	San Pablo Bay	G		163,800						
2001	TRKF	Tagged	20020412	20020412	San Pablo Bay	G		138,000						
2001	TRKF	Untagged	20020412	20020412	San Pablo Bay	G		184,000						
2001	TRKF	Untagged	20020422	20020422	San Pablo Bay	G		163,300						
2001	TRKF	Untagged	20020422	20020422	San Pablo Bay	G		158,700						
2001	TRKF	Untagged	20020423	20020423	San Pablo Bay	G		70,800						
2001	TRKF	Tagged	20020423	20020423	San Pablo Bay	G		86,700						
2001	TRKF	Untagged	20020423	20020423	San Pablo Bay	G		149,500						
2001	TRKF	Untagged	20020424	20020424	San Pablo Bay	G		135,700						
2001	TRKF	Untagged	20020424	20020424	San Pablo Bay	G		135,700						
2001	TRKF	Untagged	20020425	20020425	San Pablo Bay	G		59,000						
2001	TRKF	Tagged	20020425	20020425	San Pablo Bay	G		91,200						
2001	TRKF	Untagged	20020425	20020425	San Pablo Bay	G		17,700						
2001	TRKF	Untagged	20020426	20020426	San Pablo Bay	G		149,500						
2001	TRKF	Untagged	20020426	20020426	San Pablo Bay	G		99,400						
2001	TRKF	Tagged	20020426	20020426	San Pablo Bay	G		45,471						
2001	TRKF	Untagged	20020429	20020429	San Pablo Bay	G		79,200						
2001	TRKF	Untagged	20020429	20020429	San Pablo Bay	G		151,800						
2001	TRKF	Untagged	20020430	20020430	San Pablo Bay	G		93,338						
2001	TRKF	Untagged	20020430	20020430	San Pablo Bay	G		80,400			3,477,109			Mar.-Apr.Tot. TRHF StateWide
2001	TRKF	Untagged	20020430	20020430	San Pablo Bay	G		127,300			536,821			Tot. CWT
							3,477,109				2,940,288			Difference
2001	TRKF	Untagged	20020501	20020501	San Pablo Bay	G		60,200						
2001	TRKF	Untagged	20020501	20020501	San Pablo Bay	G		98,900						
2001	TRKF	Untagged	20020502	20020502	San Pablo Bay	G		114,000						
2001	TRKF	Tagged	20020502	20020502	San Pablo Bay	G		70,800						
2001	TRKF	Tagged	20020502	20020502	San Pablo Bay	G		63,000						
2001	TRKF	Tagged	20020503	20020503	San Pablo Bay	G		117,000						
2001	TRKF	Tagged	20020506	20020506	San Pablo Bay	G		79,800						
2001	TRKF	Tagged	20020506	20020506	San Pablo Bay	G		74,100						
2001	TRKF	Tagged	20020506	20020506	San Pablo Bay	G		32,000						
2001	TRKF	Tagged	20020507	20020507	San Pablo Bay	G		117,800						
2001	TRKF	Untagged	20020509	20020509	Rodeo Minor Port Area	G		32,200						
2001	TRKF	Untagged	20020515	20020515	Rodeo Minor Port Area	G		22,000						
2001	TRKF	Untagged	20020515	20020515	San Pablo Bay	G		48,400						
2001	TRKF	Untagged	20020516	20020516	San Pablo Bay	G		119,600						
2001	TRKF	Untagged	20020516	20020516	San Pablo Bay	G		119,600						
2001	TRKF	Untagged	20020517	20020517	San Pablo Bay	G		138,000						
2001	TRKF	Untagged	20020517	20020517	San Pablo Bay	G		138,000						
2001	TRKF	Untagged	20020521	20020521	San Pablo Bay	G		138,000						
2001	TRKF	Untagged	20020521	20020521	San Pablo Bay	G		138,000						
2001	TRKF	Untagged	20020523	20020523	Rodeo Minor Port Area	G		27,000						
2001	TRKF	Untagged	20020529	20020529	San Pablo Bay	G		108,100						
2001	TRKF	Untagged	20020606	20020606	Rodeo Minor Port Area	G		36,000						
2001	TRKF	Untagged	20020610	20020610	San Pablo Bay	G		66,000						
2001	TRKF	Untagged	20020611	20020611	San Pablo Bay	G		55,000						
2001	TRKF	Untagged	20020612	20020612	San Pablo Bay	G		52,800						
2001	TRKF	Untagged	20020617	20020617	San Pablo Bay	G		57,600						
2001	TRKF	Untagged	20020618	20020618	San Pablo Bay	G		55,200						
2001	TRKF	Untagged	20020619	20020619	San Pablo Bay	G		56,250						
2001	TRKF	Untagged	20020620	20020620	San Pablo Bay	G		51,600			2,314,550			May-Jun.Tot. TRHF StateWide
2001	TRKF	Untagged	20020621	20020621	San Pablo Bay	G		27,600			491,500			Tot. CWT
							2,314,550				1,823,050			Difference
2001	XHAF	0601070004	20020205	20020205	Yolo Bypass - Fremont Wr	G	23,922	251	0		0	1.01	0.063	
2001	XHAF	0601070005	20020205	20020205	Yolo Bypass - Fremont Wr	G	25,744	270	0		0	1.01	0.067	
2001	XHAF	0601070600	20020221	20020221	Yolo Bypass - Fremont Wr	G	9,664	224	0		0	1.02	0.025	
2001	XHAF	0601070601	20020221	20020221	Yolo Bypass - Fremont Wr	G	10,375	240	0		0	1.02	0.027	
2001	XHAF	0601070602	20020221	20020221	Yolo Bypass - Fremont Wr	G	9,839	228	0		0	1.02	0.026	

Appendix 1g. 2001 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2001	XHAF	0601070603	20020221	20020221	Yolo Bypass - Fremont Wr	G	10,838	251	0		0	1.02	0.028	
2001	XHAF	0601070604	20020221	20020221	Yolo Bypass - Fremont Wr	G	8,937	207	0		0	1.02	0.023	
2001	XHAF	0601070700	20020222	20020222	Mokelumne R, Mouth	G	26,104	617	0		0	1.02	0.068	
2001	XHAF	0601070701	20020222	20020222	Mokelumne R, Mouth	G	25,728	606	0		0	1.02	0.067	
2001	XHAF	0601070706	20020313	20020313	Mokelumne R, Mouth	G	26,463	1,218	0		0	1.05	0.069	
2001	XHAF	0601070707	20020313	20020313	Mokelumne R, Mouth	G	22,337	1,028	0		0	1.05	0.059	
2001	XHAF	062724	20020404	20020404	Georgianna Slough	G	22,883	587	0		0	1.03	0.060	
2001	XHAF	062725	20020404	20020404	Georgianna Slough	G	22,436	575	0		0	1.03	0.059	
2001	XHAF	062726	20020404	20020404	Georgianna Slough	G	23,630	606	0		0	1.03	0.062	
2001	XHAF	062730	20020405	20020405	Georgianna Slough	G	44,565	224	0		0	1.01	0.117	
2001	XHAF	062727	20020418	20020418	Georgianna Slough	G	22,705	346	0		0	1.02	0.060	
2001	XHAF	062728	20020418	20020418	Georgianna Slough	G	22,714	346	0		0	1.02	0.060	
2001	XHAF	062729	20020418	20020418	Georgianna Slough	G	22,695	346	0		0	1.02	0.059	
							381,579	8,170					1.000	389,749 XHAF Tagged
2001	XHAF	Untagged	20020508	20020508	Monterey Bay	G		60,000						
2001	XHAF	Untagged	20020508	20020508	Santa Cruz	G		60,000						
								120,000						120,000 XHAF Untagged

All Hatchery Release 6,690,352
Hatchery Annual Report 6,734,386

Difference (36,739 Screen Efficiency Study) 44,034

Appendix 1h. 2002 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2002	FRHS	062788	20030428	20030521	Live Oak	V	107,854	3,785	0		0	1.04	0.169	
2002	FRHS	062789	20030428	20030521	Live Oak	V	107,181	3,761	0		0	1.04	0.168	
2002	FRHS	062790	20030428	20030521	Live Oak	V	108,680	3,814	0		0	1.04	0.170	
2002	FRHS	062791	20030428	20030521	Live Oak	V	107,891	3,786	0		0	1.04	0.169	
2002	FRHS	062792	20030428	20030521	Live Oak	V	108,477	3,806	0		0	1.04	0.170	
2002	FRHS	062793	20030519	20030519	Live Oak	V	97,602	4,596	0		0	1.05	0.153	
							637,685	23,548	0				1.000	661,233 In Basin Total
2002	FRHS	062756	20030428	20030428	Benicia	V	54,359	1,360	0		0	1.03	0.072	No Net Pens
2002	FRHS	062757	20030428	20030429	Benicia	V	54,358	1,359	0		0	1.03	0.072	No Net Pens
2002	FRHS	062758	20030428	20030429	Benicia	V	54,318	1,358	0		0	1.03	0.072	No Net Pens
2002	FRHS	062759	20030428	20030429	Benicia	V	55,376	1,385	0		0	1.03	0.074	No Net Pens
2002	FRHS	062760	20030428	20030429	Benicia	V	54,357	1,360	0		0	1.03	0.072	
2002	FRHS	062761	20030428	20030429	Benicia	V	55,041	1,377	0		0	1.03	0.073	
2002	FRHS	062762	20030428	20030429	Benicia	V	54,307	1,358	0		0	1.03	0.072	
2002	FRHS	062763	20030428	20030429	Benicia	V	53,522	1,339	0		0	1.03	0.071	
2002	FRHS	062785	20030520	20030521	Benicia	V	105,706	6,152	0		0	1.06	0.140	
2002	FRHS	062786	20030520	20030521	Benicia	V	105,692	6,151	0		0	1.06	0.140	
2002	FRHS	062787	20030520	20030521	Benicia	V	105,465	6,138	0		0	1.06	0.140	
							752,501	29,337	0				1.000	781,838 Trucked Total
													FRHS Total 1,443,071	
													Hat. Ann. Rpt. 1443071	
													Difference 0	
2002	FRW	0601070804	20030102	20030105	Live Oak	G	10,636	443	0		0	1.04		
2002	FRW	0601070708	20030102	20030107	Live Oak	G	11,124	464	0		0	1.04		
2002	FRW	0601070709	20030105	20030107	Live Oak	G	11,659	486	0		0	1.04		
2002	FRW	0601070800	20030105	20030110	Live Oak	G	6,126	255	0		0	1.04		
2002	FRW	0601070801	20030107	20030112	Live Oak	G	6,675	136	0		0	1.02		
2002	FRW	0601070802	20030107	20030112	Live Oak	G	5,839	243	0		0	1.04		
2002	FRW	0601070009	20030110	20030114	Live Oak	G	10,696	108	0		0	1.01		
2002	FRW	0601070803	20030112	20030115	Live Oak	G	11,042	421	0		0	1.04		
2002	FRW	0601070805	20030112	20030117	Live Oak	G	11,907	60	0		0	1.01		
2002	FRW	0601070806	20030114	20030117	Live Oak	G	12,517	63	0		0	1.01		
2002	FRW	0601070807	20030115	20030117	Live Oak	G	10,486	399	0		0	1.04		
2002	FRW	0601070808	20030116	20030118	Live Oak	G	11,465	0	0		0	1.00		
2002	FRW	0601070900	20030117	20030119	Live Oak	G	13,311	67	0		0	1.01		
2002	FRW	0601070901	20030117	20030122	Live Oak	G	11,161	465	0		0	1.04		
2002	FRW	0601070809	20030119	20030122	Live Oak	G	10,978	0	0		0	1.00		
2002	FRW	0601070902	20030120	20030126	Live Oak	G	11,882	0	0		0	1.00		
2002	FRW	0601070903	20030122	20030126	Live Oak	G	10,194	1,133	0		0	1.11		
2002	FRW	0601070904	20030123	20030126	Live Oak	G	10,720	0	0		0	1.00		
2002	FRW	0601070905	20030126	20030127	Live Oak	G	8,809	367	0		0	1.04		
							197,227	5,110	0					202,337 FRW Total
2002	INBF	0601080809	20030205	20030205	Elkhorn Boat Ramp - Sac R	G	51,964	791	0		0	1.02		
2002	INBF	0601080901	20030220	20030220	Elkhorn Boat Ramp - Sac R	G	51,388	258	0		0	1.01		
2002	INBF	0601090000	20030224	20030224	Vierra's Resort	G	25,815	130	0		0	1.01		
2002	INBF	0601090001	20030224	20030224	Viera's Landing - Sac R	G	26,026	131	0		0	1.01		
2002	INBF	062781	20030317	20030317	Viera's Landing - Sac R	G	24,938	771	0		0	1.03		
2002	INBF	062782	20030317	20030317	Viera's Landing - Sac R	G	24,923	771	0		0	1.03		
2002	INBF	062764	20030415	20030415	Live Oak	G	53,275	2,510	0		0	1.05		
2002	INBF	062765	20030415	20030415	Live Oak	G	53,435	2,518	0		0	1.05		
2002	INBF	062766	20030415	20030415	Live Oak	G	53,601	2,526	0		0	1.05		
2002	INBF	0601080804	20030415	20030415	West Sacramento	G	24,505	1,564	0		0	1.06		
2002	INBF	0601080805	20030415	20030415	West Sacramento	G	24,589	1,509	0		0	1.06		
2002	INBF	062685	20030430	20030430	Live Oak	G	54,186	1,106	0		0	1.02		
2002	INBF	062767	20030430	20030430	Live Oak	G	54,971	1,122	0		0	1.02		
2002	INBF	062768	20030430	20030430	Live Oak	G	54,493	1,112	0		0	1.02		
2002	INBF	0601080800	20030430	20030430	West Sacramento	G	24,362	1,418	0		0	1.06		
2002	INBF	0601080801	20030430	20030430	West Sacramento	G	25,475	1,483	0		0	1.06		
2002	INBF	062704	20030515	20030515	Live Oak	G	79,302	1,618	0		0	1.02		

Appendix 1h. 2002 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2002	INBF	062705	20030515	20030515	Live Oak	G	79,201	1,616	0		0	1.02		
2002	INBF	0601080802	20030515	20030515	West Sacramento	G	25,292	385	0		0	1.02		
2002	INBF	0601080803	20030515	20030515	West Sacramento	G	24,992	381	0		0	1.02		
							836,733	23,720						860,453 INBF Total
2002	TRKF	0601080806	20030501	20030501	Port Chicago	G	25,266	781	0	1.03	345,772	14.72	0.053	
2002	TRKF	0601080807	20030501	20030501	Port Chicago	G	25,209	780	0	1.03	344,992	14.72	0.053	
2002	TRKF	062769	20030609	20030610	Crockett	V	54,152	1,389	0	1.03	741,085	14.71	0.114	
2002	TRKF	062770	20030609	20030610	Crockett	V	51,748	1,327	0	1.03	708,186	14.71	0.109	
2002	TRKF	062771	20030609	20030610	Crockett	V	52,105	1,344	0	1.03	713,072	14.71	0.109	
2002	TRKF	062772	20030609	20030610	Crockett	V	52,675	1,351	0	1.03	720,872	14.71	0.111	
2002	TRKF	062773	20030609	20030610	Crockett	V	55,625	1,426	0	1.03	761,244	14.71	0.117	
2002	TRKF	062774	20030609	20030610	Crockett	V	53,377	1,369	0	1.03	730,479	14.71	0.112	
2002	TRKF	062775	20030609	20030610	Crockett	V	55,611	1,426	0	1.03	761,052	14.71	0.117	
2002	TRKF	062776	20030609	20030610	Crockett	V	50,704	1,300	0	1.03	693,898	14.71	0.106	
							476,472	12,493	0		6,520,653		1.000	7,009,618 TRKF Total
2002	TRKF	Untagged	20030512	20030512	Rodeo Minor Port Area	G	0	104,000	0					
2002	TRKF	Untagged	20030512	20030512	Rodeo Minor Port Area	G	0	116,000	0					
2002	TRKF	Untagged	20030512	20030512	Rodeo Minor Port Area	G	0	52,000	0					
2002	TRKF	Untagged	20030512	20030512	Rodeo Minor Port Area	G	0	36,000	0					
2002	TRKF	Untagged	20030512	20030512	Rodeo Minor Port Area	G	0	120,000	0					
2002	TRKF	Untagged	20030513	20030513	Rodeo Minor Port Area	G	0	115,000	0					
2002	TRKF	Untagged	20030513	20030513	Rodeo Minor Port Area	G	0	115,000	0					
2002	TRKF	Untagged	20030513	20030513	Rodeo Minor Port Area	G	0	138,000	0					
2002	TRKF	Untagged	20030513	20030513	Rodeo Minor Port Area	G	0	72,000	0					
2002	TRKF	Untagged	20030513	20030513	Rodeo Minor Port Area	G	0	36,000	0					
2002	TRKF	Untagged	20030514	20030514	Benicia	G	0	135,700	0					
2002	TRKF	Untagged	20030514	20030514	Benicia	G	0	135,700	0					
2002	TRKF	Untagged	20030514	20030514	Benicia	G	0	36,000	0					
2002	TRKF	Untagged	20030514	20030514	Benicia	G	0	18,000	0					
2002	TRKF	Untagged	20030515	20030515	Benicia	G	0	78,200	0					
2002	TRKF	Untagged	20030515	20030515	Benicia	G	0	78,200	0					
2002	TRKF	Untagged	20030519	20030519	Benicia	G	0	133,400	0					
2002	TRKF	Untagged	20030520	20030520	Benicia	G	0	69,600	0					
2002	TRKF	Untagged	20030520	20030520	Benicia	G	0	105,800	0					
2002	TRKF	Untagged	20030521	20030521	Benicia	G	0	96,600	0					
2002	TRKF	Untagged	20030522	20030522	Crockett	G	0	119,600	0					
2002	TRKF	Untagged	20030522	20030522	Crockett	G	0	133,400	0					
2002	TRKF	Untagged	20030522	20030522	Crockett	G	0	124,200	0					
2002	TRKF	Untagged	20030523	20030523	Crockett	G	0	128,800	0					
2002	TRKF	Untagged	20030523	20030523	Crockett	G	0	128,800	0					
2002	TRKF	Untagged	20030527	20030527	Crockett	G	0	133,400	0					
2002	TRKF	Untagged	20030527	20030527	Crockett	G	0	133,400	0					
2002	TRKF	Untagged	20030527	20030527	Crockett	G	0	133,400	0					
2002	TRKF	Untagged	20030528	20030528	Crockett	G	0	135,700	0					
2002	TRKF	Untagged	20030528	20030528	Crockett	G	0	150,000	0					
2002	TRKF	Untagged	20030602	20030602	Crockett	G	0	138,000	0					
2002	TRKF	Untagged	20030602	20030602	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030603	20030603	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030603	20030603	Crockett	G	0	135,700	0					
2002	TRKF	Untagged	20030603	20030603	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030604	20030604	Crockett	G	0	138,000	0					
2002	TRKF	Untagged	20030604	20030604	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030605	20030605	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030605	20030605	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030606	20030606	Crockett	G	0	138,000	0					
2002	TRKF	Untagged	20030609	20030609	Crockett	G	0	133,400	0					
2002	TRKF	Untagged	20030610	20030610	Crockett	G	0	63,800	0					
2002	TRKF	Untagged	20030610	20030610	San Francisco Bay	G	0	133,400	0					
2002	TRKF	Untagged	20030611	20030611	Crockett	G	0	58,000	0					

Appendix 1h. 2002 Feather River Hatchery and Wild Chinook releases

Brood Year	Release Group	cwtcode	1st release date	Last release date	Release Site	Release Stage	# CWT tagged	# fish untagged	# fish shedtag	Original Production factor	Additional untagged	New Production factor	Proportion originally tagged	Hatchery notes
2002	TRKF	Untagged	20030611	20030611	Crockett	G	0	48,000	0					
2002	TRKF	Untagged	20030611	20030611	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030612	20030612	Crockett	G	0	138,000	0					
2002	TRKF	Untagged	20030612	20030612	Crockett	G	0	135,700	0					
2002	TRKF	Untagged	20030623	20030623	Crockett	G	0	43,200	0					
2002	TRKF	Untagged	20030623	20030623	Crockett	G	0	42,000	0					
2002	TRKF	Untagged	20030707	20030707	Crockett	G	0	21,000	0					
2002	TRKF	Untagged	20030707	20030707	Crockett	G	0	42,000	0					
2002	TRKF	Untagged	20030707	20030707	Crockett	G	0	62,100	0					
2002	TRKF	Untagged	20030707	20030707	Crockett	G	0	62,100	0					
2002	TRKF	Untagged	20030708	20030708	Crockett	G	0	24,000	0					
2002	TRKF	Untagged	20030708	20030708	Crockett	G	0	45,000	0					
2002	TRKF	Untagged	20030708	20030708	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030708	20030708	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030709	20030709	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030709	20030709	Crockett	G	0	69,000	0					
2002	TRKF	Untagged	20030709	20030709	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030710	20030710	Crockett	G	0	66,700	0					
2002	TRKF	Untagged	20030710	20030710	Crockett	G	0	66,700	0					
2002	TRKF	Untagged	20030710	20030710	Crockett	G	0	66,700	0					
2002	TRKF	Untagged	20030714	20030714	Crockett	G	0	66,700	0					
2002	TRKF	Untagged	20030714	20030714	Crockett	G	0	64,400	0					
2002	TRKF	Untagged	20030715	20030715	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030715	20030715	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030716	20030716	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030716	20030716	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030716	20030716	Crockett	G	0	72,000	0					
2002	TRKF	Untagged	20030718	20030718	Crockett	G	0	63,000	0					
2002	TRKF	Untagged	20030718	20030718	Crockett	G	0	60,000	0					
2002	TRKF	Untagged	20030804	20030804	Crockett	G	0	14,689	0					
							0	6,520,653	0					
2002	XHAF	0601080808	20030205	20030205	Yolo Bypass	G	53,133	267	0			1.01	0.260	
2002	XHAF	0601080900	20030220	20030220	Yolo Bypass	G	51,386	1,318	0			1.03	0.251	
2002	XHAF	062779	20030224	20030224	Lighthouse Marina	G	24,813	1,306	0			1.05	0.121	
2002	XHAF	062780	20030224	20030224	Lighthouse Marina	G	25,025	1,317	0			1.05	0.122	
2002	XHAF	062783	20030317	20030317	Lighthouse Marina	G	25,317	783	0			1.03	0.124	
2002	XHAF	062784	20030317	20030317	Lighthouse Marina	G	25,014	773	0			1.03	0.122	
							204,688	5,764	0				1.000	210,452 XHAF Total

All Hatchery Release 8,080,523
Hatchery Annual Report 8,146,209

Difference (63,250 Screen Efficiency Study) 65,686

Appendix 2. Summary of FRH '98 BY fall and spring Chinook CWT recoveries by Central Valley area.

FRH CWT release Group	# CWT tagged	# CWTs recovered*			Total CWT recoveries	% total CWTs recovered	% total recoveries		
		Feather Basin	Yuba River	Outside FR basin			Feather Basin	Yuba Carcass	Outside Basin
In-basin FRH fall releases (INBF)	771,624	2,133		125	2,258	0.29%	94%		5.5%
Trucked FRH fall releases (TRKF)	457,538	2,918	16	204	3,138	0.69%	93%	1%	7%
Experimental FRH fall releases (XHAF)	301,057	264	4	126	394	0.13%	67%	1%	32%
Trucked FRH spring releases (FRHS)	309,587	2,770	14	80	2,864	0.93%	97%	0%	3%
Wild Feather River releases (FRW)*	133,043	4			4	0.00%	100%		
Lake Oroville FRH fall releases (OROF)*	184,936	18			18	0.01%	100%		
FRH '98 BY totals	1,839,806	8,085	34	536	8,654	0.47%	93%	0%	6%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 2a. FRH '98 BY fall and spring Chinook CWT recoveries in Feather River basin and Yuba River.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*			% of total CWTs recovered				
				Feather River Basin			Yuba Carcass	Feather River Basin		Combined	
				Hatchery	Carcass	Total		Hatchery	Carcass	Feather	Fea + Yuba
In-basin FRH fall releases (INBF)											
0601060705	Elkhorn Boat Ramp-Sac	19990211	26,316	6		6		0.02%		0.02%	0.02%
0601060706	Elkhorn Boat Ramp-Sac	19990211	25,845	9		9		0.04%		0.04%	0.04%
0601060707	Elkhorn Boat Ramp-Sac	19990211	26,029	9		9		0.03%		0.03%	0.03%
0601060708	Elkhorn Boat Ramp-Sac	19990211	25,692	11		11		0.04%		0.04%	0.04%
			103,882	35		35		0.03%		0.03%	0.03%
0601060403	Isleton-Sac R	19990302	49,715	2		2		0.00%		0.00%	0.00%
0601060404	Isleton-Sac R	19990302	50,864	1		1		0.00%		0.00%	0.00%
			100,579	3		3		0.00%		0.00%	0.00%
0601060814	Live Oak-Fea R	19990511	51,144	110	48	158		0.22%	0.09%	0.31%	0.31%
0601060815	Live Oak-Fea R	19990511	51,043	132	49	181		0.26%	0.10%	0.35%	0.35%
			102,187	242	97	339		0.24%	0.09%	0.33%	0.33%
0501020714	Ryde-Koket Sac R	19990331	25,873	31	2	34		0.12%	0.01%	0.13%	0.13%
0501020715	Ryde-Koket Sac R	19990331	25,133	23	6	29		0.09%	0.02%	0.11%	0.11%
052414	Ryde-Koket Sac R	19990428	26,489	118	77	195		0.45%	0.29%	0.74%	0.74%
052415	Ryde-Koket Sac R	19990428	25,814	126	92	219		0.49%	0.36%	0.85%	0.85%
			103,309	299	177	476		0.29%	0.17%	0.46%	0.46%
0601060907	Verona - Feather R	19990322	53,987	76	69	144		0.14%	0.13%	0.27%	0.27%
0601060908	Verona - Feather R	19990322	50,989	81	56	137		0.16%	0.11%	0.27%	0.27%
0601060909	Verona - Feather R	19990322	50,804	69	24	93		0.14%	0.05%	0.18%	0.18%
0601060910	Verona - Feather R	19990322	51,202	59	13	72		0.11%	0.03%	0.14%	0.14%
			206,982	284	162	446		0.14%	0.08%	0.22%	0.22%
0501020706	West Sacramento	19990504	25,585	80	56	136		0.31%	0.22%	0.53%	0.53%
0501020707	West Sacramento	19990504	25,633	69	36	105		0.27%	0.14%	0.41%	0.41%
052324	West Sacramento	19990430	25,695	97	109	206		0.38%	0.42%	0.80%	0.80%
052325	West Sacramento	19990430	25,977	76	27	103		0.29%	0.10%	0.40%	0.40%
052416	West Sacramento	19990415	25,621	71	47	117		0.28%	0.18%	0.46%	0.46%
052417	West Sacramento	19990415	26,174	84	82	166		0.32%	0.31%	0.63%	0.63%
			154,685	476	357	833		0.31%	0.23%	0.54%	0.54%
	INBF '98 BY totals		771,624	1,340	793	2,133		0.17%	0.10%	0.28%	0.28%

Appendix 2a. FRH '98 BY fall and spring Chinook CWT recoveries in Feather River basin and Yuba River.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*			Yuba Carcass	% of total CWTs recovered			
				Feather River Basin				Feather River Basin Hatchery	Carcass	Combined	
				Hatchery	Carcass	Total				Feather	Fea + Yuba
Trucked FRH fall releases (TRKF)											
052326	Port Chicago	19990426	25,576	50	41	91		0.20%	0.16%	0.36%	0.36%
052327	Port Chicago	19990426	25,518	67	33	100		0.26%	0.13%	0.39%	0.39%
			51,094	117	74	191		0.23%	0.14%	0.37%	0.37%
062631	Wickland Oil Net Pen	19990607	50,877	196	149	345	8	0.39%	0.29%	0.68%	0.69%
062632	Wickland Oil Net Pen	19990607	50,893	178	150	327	2	0.35%	0.29%	0.64%	0.65%
062633	Wickland Oil Net Pen	19990607	51,964	162	276	437	2	0.31%	0.53%	0.84%	0.85%
062634	Wickland Oil Net Pen	19990607	50,928	170	174	344	2	0.33%	0.34%	0.67%	0.68%
062635	Wickland Oil Net Pen	19990607	50,883	162	155	317		0.32%	0.31%	0.62%	0.62%
062636	Wickland Oil Net Pen	19990607	50,932	190	107	297		0.37%	0.21%	0.58%	0.58%
062637	Wickland Oil Net Pen	19990607	49,140	118	135	253		0.24%	0.27%	0.51%	0.51%
062638	Wickland Oil Net Pen	19990607	50,827	158	250	407	2	0.31%	0.49%	0.80%	0.81%
			406,444	1,332	1,395	2,727	16	0.33%	0.34%	0.67%	0.67%
	TRKF '98 BY totals		457,538	1,449	1,469	2,918	16	0.32%	0.32%	0.64%	0.64%
Experimental FRH fall releases (XHAF)											
0501020712	Georgianna Slough	19990330	26,330	26	10	36		0.10%	0.04%	0.14%	0.14%
0501020713	Georgianna Slough	19990330	26,248	26	6	32	2	0.10%	0.02%	0.12%	0.13%
0501020801	Georgianna Slough	19990427	13,888	63	8	71		0.45%	0.06%	0.51%	0.51%
0501020802	Georgianna Slough	19990427	27,393	84	18	102		0.31%	0.07%	0.37%	0.37%
			93,859	199	42	241	2	0.21%	0.05%	0.26%	0.26%
0501020708	Mokelumne R, Mouth	19990301	25,414	1		1		0.00%		0.00%	0.00%
0501020709	Mokelumne R, Mouth	19990301	25,649								
0501020710	Mokelumne R, Mouth	19990301	27,943								
0501020711	Mokelumne R, Mouth	19990301	24,721								
			103,727	1		1		0.00%		0.00%	0.00%
0601060701	Yolo Bypass-Fremont	19990211	25,241	5	3	8		0.02%	0.01%	0.03%	0.03%
0601060702	Yolo Bypass-Fremont	19990211	27,699	3	3	6		0.01%	0.01%	0.02%	0.02%
0601060703	Yolo Bypass-Fremont	19990211	25,262	2		2		0.01%		0.01%	0.01%
0601060704	Yolo Bypass-Fremont	19990211	25,269	4	2	6	2	0.02%	0.01%	0.02%	0.03%
			103,471	14	8	22	2	0.01%	0.01%	0.02%	0.02%
	XHAF '98 BY totals		301,057	214	50	264	4	0.07%	0.02%	0.09%	0.09%

Appendix 2a. FRH '98 BY fall and spring Chinook CWT recoveries in Feather River basin and Yuba River.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*			Yuba Carcass	% of total CWTs recovered			
				Feather River Basin				Feather River Basin Hatchery	Carcass	Combined	
				Hatchery	Carcass	Total				Feather	Fea +Yuba
Trucked FRH spring releases (FRHS)											
0601060901	Wickland Oil Net Pen	19990517	51,784	188	523	711		0.36%	1.01%	1.37%	1.37%
0601060902	Wickland Oil Net Pen	19990517	50,473	131	270	400	4	0.26%	0.53%	0.79%	0.80%
0601060903	Wickland Oil Net Pen	19990525	51,326	128	244	372		0.25%	0.47%	0.73%	0.73%
0601060904	Wickland Oil Net Pen	19990525	50,713	125	315	440	4	0.25%	0.62%	0.87%	0.88%
0601060905	Wickland Oil Net Pen	19990525	51,333	107	150	257	2	0.21%	0.29%	0.50%	0.50%
0601060906	Wickland Oil Net Pen	19990525	53,958	158	431	589	4	0.29%	0.80%	1.09%	1.10%
FRHS '98 BY totals			309,587	837	1,932	2,770	14	0.27%	0.62%	0.89%	0.90%
Wild Feather River releases (FRW)											
0601060402	Thermalito-Live Oak	19990118	38,119								
0601060806	Thermalito-Live Oak	19990206	10,861	1	3	4		0.01%	0.03%	0.03%	0.03%
0601060807	Thermalito-Live Oak	19990212	11,629								
0601060808	Thermalito-Live Oak	19990218	12,811								
0601060809	Thermalito-Live Oak	19990226	11,342								
0601060810	Thermalito-Live Oak	19990227	12,577								
0601060811	Thermalito-Live Oak	19990309	12,458								
0601060812	Thermalito-Live Oak	19990318	11,198								
0601060813	Thermalito-Live Oak	19990323	12,048								
FRW '98 BY totals*			133,043	1	3	4		0.00%	0.00%	0.00%	0.00%
Lake Oroville FRH fall releases (OROF)											
0601060709	Lake Oroville	19991101	26,262								
0601060710	Lake Oroville	1999	26,680		16	16			0.06%	0.06%	0.06%
0601060711	Lake Oroville	1999	25,000	1		1		0.00%		0.00%	0.00%
0601060801	Lake Oroville	1999	28,125								
0601060802	Lake Oroville	19991101	26,666								
0601060803	Lake Oroville	19991101	26,317								
0601060804	Lake Oroville	19991101	25,886	1		1		0.00%		0.00%	0.00%
OROF '98 BY totals*			184,936	2	16	18		0.00%	0.01%	0.01%	0.01%
FRH '98 BY Totals			1,839,806	3,840	4,244	8,085	34	0.21%	0.23%	0.44%	0.44%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 2b. FRH '98 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin				Out of Basin	
				Coleman Hatchery	<u>Sac R.& Tribs</u> Carcass	<u>American River</u> Hatchery	Carcass	<u>Mokelumne River</u> Hatchery	Carcass	<u>Stanislaus R.</u> Carcass	<u>Merced River</u> Hatchery	Carcass	Total recoveries
In-basin FRH fall releases (INBF)													
0601060705	Elkhorn Boat Ramp-Sac	19990211	26,316										
0601060706	Elkhorn Boat Ramp-Sac	19990211	25,845										
0601060707	Elkhorn Boat Ramp-Sac	19990211	26,029		36							36	0.14%
0601060708	Elkhorn Boat Ramp-Sac	19990211	25,692	1								1	0.00%
			103,882	1	36							37	0.04%
0601060403	Isleton-Sac R	19990302	49,715										
0601060404	Isleton-Sac R	19990302	50,864										
			100,579										
0601060814	Live Oak-Fea R	19990511	51,144										
0601060815	Live Oak-Fea R	19990511	51,043										
			102,187										
0501020714	Ryde-Koket Sac R	19990331	25,873	3	9							12	0.05%
0501020715	Ryde-Koket Sac R	19990331	25,133	2	14							16	0.07%
052414	Ryde-Koket Sac R	19990428	26,489	2	18	1						21	0.08%
052415	Ryde-Koket Sac R	19990428	25,814		7	1						8	0.03%
			103,309	7	47	2						56	0.05%
0601060907	Verona - Feather R	19990322	53,987		8							8	0.01%
0601060908	Verona - Feather R	19990322	50,989	2								2	0.00%
0601060909	Verona - Feather R	19990322	50,804										
0601060910	Verona - Feather R	19990322	51,202										
			206,982	2	8							10	0.00%
0501020706	West Sacramento	19990504	25,585	3								3	0.01%
0501020707	West Sacramento	19990504	25,633		3	2	3					8	0.03%
052324	West Sacramento	19990430	25,695										
052325	West Sacramento	19990430	25,977		3	1						4	0.02%
052416	West Sacramento	19990415	25,621			1						1	0.00%
052417	West Sacramento	19990415	26,174		3	3						6	0.02%
			154,685	3	10	7	3					22	0.01%
	INBF '98 BY totals		771,624	13	101	9	3					125	0.02%

Appendix 2b. FRH '98 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin				Out of Basin	
				Coleman Hatchery	<u>Sac R. & Tribs</u> Carcass	<u>American River</u> Hatchery	Carcass	<u>Mokelumne River</u> Hatchery	Carcass	<u>Stanislaus R.</u> Carcass	<u>Merced River</u> Hatchery	Carcass	Total recoveries
Trucked FRH fall releases (TRKF)													
052326	Port Chicago	19990426	25,576	1								1	0.00%
052327	Port Chicago	19990426	25,518	1								1	0.00%
			51,094	2								2	0.00%
062631	Wickland Oil Net Pen	19990607	50,877	1	6	1					1	9	0.02%
062632	Wickland Oil Net Pen	19990607	50,893	2	7	1	1					11	0.02%
062633	Wickland Oil Net Pen	19990607	51,964	7	9	1				1		18	0.03%
062634	Wickland Oil Net Pen	19990607	50,928	1	59	2	3					65	0.13%
062635	Wickland Oil Net Pen	19990607	50,883	2	9							11	0.02%
062636	Wickland Oil Net Pen	19990607	50,932	1	19				18			38	0.07%
062637	Wickland Oil Net Pen	19990607	49,140	3	27		1				12	44	0.09%
062638	Wickland Oil Net Pen	19990607	50,827	1	2	2	1			2		8	0.02%
			406,444	18	137	7	6		18	4	12	202	0.05%
	TRKF '98 BY totals		457,538	20	137	7	6		18	4	12	204	0.04%
Experimental FRH fall releases (XHAF)													
0501020712	Georgianna Slough	19990330	26,330		6							6	0.02%
0501020713	Georgianna Slough	19990330	26,248	2								2	0.01%
0501020801	Georgianna Slough	19990427	13,888	1	6							7	0.05%
0501020802	Georgianna Slough	19990427	27,393	2	6	1						9	0.03%
			93,859	5	17	1						23	0.02%
0501020708	Mokelumne R, Mouth	19990301	25,414	2								2	0.01%
0501020709	Mokelumne R, Mouth	19990301	25,649										
0501020710	Mokelumne R, Mouth	19990301	27,943	1	69							70	0.25%
0501020711	Mokelumne R, Mouth	19990301	24,721										
			103,727	3	69								
0601060701	Yolo Bypass-Fremont	19990211	25,241	3	3							6	0.02%
0601060702	Yolo Bypass-Fremont	19990211	27,699		8							8	0.03%
0601060703	Yolo Bypass-Fremont	19990211	25,262		10							10	0.04%
0601060704	Yolo Bypass-Fremont	19990211	25,269	4	3							7	0.03%
			103,471	7	25							32	0.03%
	XHAF '98 BY totals		301,057	15	110	1						126	0.04%

Appendix 2b. FRH '98 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin				Out of Basin		
				Coleman Hatchery	<u>Sac R.& Tribs</u> Carcass	<u>American River</u> Hatchery	Carcass	<u>Mokelumne River</u> Hatchery	Carcass	<u>Stanislaus R.</u> Carcass	<u>Merced River</u> Hatchery	Carcass	Total recoveries	% releases recovered
Trucked FRH spring releases (FRHS)														
0601060901	Wickland Oil Net Pen	19990517	51,784	1	45							46	0.09%	
0601060902	Wickland Oil Net Pen	19990517	50,473		27	1						28	0.06%	
0601060903	Wickland Oil Net Pen	19990525	51,326											
0601060904	Wickland Oil Net Pen	19990525	50,713			1						1	0.00%	
0601060905	Wickland Oil Net Pen	19990525	51,333	1	3							4	0.01%	
0601060906	Wickland Oil Net Pen	19990525	53,958	1								1	0.00%	
FRHS '98 BY totals			309,587	3	75	2						80	0.03%	
Wild Feather River releases (FRW)														
0601060402	Thermalito-Live Oak	19990118	38,119											
0601060806	Thermalito-Live Oak	19990206	10,861											
0601060807	Thermalito-Live Oak	19990212	11,629											
0601060808	Thermalito-Live Oak	19990218	12,811											
0601060809	Thermalito-Live Oak	19990226	11,342											
0601060810	Thermalito-Live Oak	19990227	12,577											
0601060811	Thermalito-Live Oak	19990309	12,458											
0601060812	Thermalito-Live Oak	19990318	11,198											
0601060813	Thermalito-Live Oak	19990323	12,048											
FRW '98 BY totals*			133,043											
Lake Oroville FRH fall releases (OROF)														
0601060709	Lake Oroville	19991101	26,262											
0601060710	Lake Oroville	1999	26,680											
0601060711	Lake Oroville	1999	25,000											
0601060801	Lake Oroville	1999	28,125											
0601060802	Lake Oroville	19991101	26,666											
0601060803	Lake Oroville	19991101	26,317											
0601060804	Lake Oroville	19991101	25,886											
OROF '98 BY totals*			184,936											
FRH '98 BY Totals			1,839,806	51	423	19	3	6		18	4	12	536	0.03%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 2c. FRH '98 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*				% total Releases Recovered	% total recoveries		
				Feather basin	Yuba River	Outside FR basin	Total Returns		Feather basin	Yuba River	Outside FR basin
In-basin FRH fall releases (INBF)											
0601060705	Elkhorn Boat Ramp-Sac	19990211	26,316	6			6	0.02%	100%		
0601060706	Elkhorn Boat Ramp-Sac	19990211	25,845	9			9	0.04%	100%		
0601060707	Elkhorn Boat Ramp-Sac	19990211	26,029	9		36	45	0.17%	20%		80%
0601060708	Elkhorn Boat Ramp-Sac	19990211	25,692	11		1	12	0.05%	92%		8%
			103,882	35		37	72	0.07%	49%		51%
0601060403	Isleton-Sac R	19990302	49,715	2			2	0.00%	100%		
0601060404	Isleton-Sac R	19990302	50,864	1			1	0.00%	100%		
			100,579	3			3	0.00%	100%		
0601060814	Live Oak-Fea R	19990511	51,144	158			158	0.31%	100%		
0601060815	Live Oak-Fea R	19990511	51,043	181			181	0.35%	100%		
			102,187	339			339	0.33%	100%		
0501020714	Ryde-Koket Sac R	19990331	25,873	34		12	45	0.18%	74%		26%
0501020715	Ryde-Koket Sac R	19990331	25,133	29		16	45	0.18%	64%		36%
052414	Ryde-Koket Sac R	19990428	26,489	195		21	215	0.81%	90%		10%
052415	Ryde-Koket Sac R	19990428	25,814	219		8	226	0.88%	97%		3%
			103,309	476		56	532	0.52%	89%		11%
0601060907	Verona - Feather R	19990322	53,987	144		8	152	0.28%	95%		5%
0601060908	Verona - Feather R	19990322	50,989	137		2	139	0.27%	99%		1%
0601060909	Verona - Feather R	19990322	50,804	93			93	0.18%	100%		
0601060910	Verona - Feather R	19990322	51,202	72			72	0.14%	100%		
			206,982	446		10	456	0.22%	98%		2%
0501020706	West Sacramento	19990504	25,585	136		3	139	0.54%	98%		2%
0501020707	West Sacramento	19990504	25,633	105		8	112	0.44%	93%		7%
052324	West Sacramento	19990430	25,695	206			206	0.80%	100%		
052325	West Sacramento	19990430	25,977	103		4	107	0.41%	96%		4%
052416	West Sacramento	19990415	25,621	117		1	118	0.46%	99%		1%
052417	West Sacramento	19990415	26,174	166		6	172	0.66%	96%		4%
			154,685	833		22	855	0.55%	97%		3%
	INBF '98 BY totals		771,624	2,133		125	2,258	0.29%	94%		6%

Appendix 2c. FRH '98 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*			Total Returns	% total Releases Recovered	% total recoveries		
				Feather basin	Yuba River	Outside FR basin			Feather basin	Yuba River	Outside FR basin
Trucked FRH fall releases (TRKF)											
052326	Port Chicago	19990426	25,576	91		1	92	0.36%	99%		1%
052327	Port Chicago	19990426	25,518	100		1	101	0.39%	99%		1%
			51,094	191		2	193	0.38%	99%		1%
062631	Wickland Oil Net Pen	19990607	50,877	345	8	9	361	0.71%	95%	2%	2%
062632	Wickland Oil Net Pen	19990607	50,893	327	2	11	340	0.67%	96%	1%	3%
062633	Wickland Oil Net Pen	19990607	51,964	437	2	18	457	0.88%	96%	0%	4%
062634	Wickland Oil Net Pen	19990607	50,928	344	2	65	410	0.81%	84%	0%	16%
062635	Wickland Oil Net Pen	19990607	50,883	317		11	328	0.64%	97%		3%
062636	Wickland Oil Net Pen	19990607	50,932	297		38	335	0.66%	89%		11%
062637	Wickland Oil Net Pen	19990607	49,140	253		44	296	0.60%	85%		15%
062638	Wickland Oil Net Pen	19990607	50,827	407	2	8	418	0.82%	98%	0%	2%
			406,444	2,727	16	202	2,945	0.72%	93%	1%	7%
			457,538	2,918	16	204	3,138	0.69%	93%	1%	7%
TRKF '98 BY totals											
Experimental FRH fall releases (XHAF)											
0501020712	Georgianna Slough	19990330	26,330	36		6	42	0.16%	87%		13%
0501020713	Georgianna Slough	19990330	26,248	32	2	2	36	0.14%	89%	6%	6%
0501020801	Georgianna Slough	19990427	13,888	71		7	78	0.56%	92%		8%
0501020802	Georgianna Slough	19990427	27,393	102		9	111	0.40%	92%		8%
			93,859	241	2	23	266	0.28%	91%	1%	9%
0501020708	Mokelumne R, Mouth	19990301	25,414	1		2	3	0.01%	34%		66%
0501020709	Mokelumne R, Mouth	19990301	25,649								
0501020710	Mokelumne R, Mouth	19990301	27,943			70	70	0.25%			100%
0501020711	Mokelumne R, Mouth	19990301	24,721								
			103,727	1			1	0.00%	100%		
0601060701	Yolo Bypass-Fremont	19990211	25,241	8		6	14	0.06%	55%		45%
0601060702	Yolo Bypass-Fremont	19990211	27,699	6		8	14	0.05%	41%		59%
0601060703	Yolo Bypass-Fremont	19990211	25,262	2		10	12	0.05%	17%		83%
0601060704	Yolo Bypass-Fremont	19990211	25,269	6	2	7	16	0.06%	40%	14%	46%
			103,471	22	2	32	56	0.05%	39%	4%	57%
			301,057	264	4	126	394	0.13%	67%	1%	32%
			301,057	264	4	126	394	0.13%	67%	1%	32%

Appendix 2c. FRH '98 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	# CWTs recovered*			Total Returns	% total Releases Recovered	% total recoveries		
				Feather basin	Yuba River	Outside FR basin			Feather basin	Yuba River	Outside FR basin
Trucked FRH spring releases (FRHS)											
0601060901	Wickland Oil Net Pen	19990517	51,784	711		46	757	1.46%	94%		6%
0601060902	Wickland Oil Net Pen	19990517	50,473	400	4	28	433	0.86%	93%	1%	7%
0601060903	Wickland Oil Net Pen	19990525	51,326	372			372	0.73%	100%		
0601060904	Wickland Oil Net Pen	19990525	50,713	440	4	1	445	0.88%	99%	1%	0%
0601060905	Wickland Oil Net Pen	19990525	51,333	257	2	4	263	0.51%	98%	1%	2%
0601060906	Wickland Oil Net Pen	19990525	53,958	589	4	1	594	1.10%	99%	1%	0%
FRHS '98 BY totals			309,587	2,770	14	80	2,864	0.93%	97%	0%	3%
Wild Feather River releases (FRW)											
0601060402	Thermalito-Live Oak	19990118	38,119								
0601060806	Thermalito-Live Oak	19990206	10,861	4			4	0.03%	100%		
0601060807	Thermalito-Live Oak	19990212	11,629								
0601060808	Thermalito-Live Oak	19990218	12,811								
0601060809	Thermalito-Live Oak	19990226	11,342								
0601060810	Thermalito-Live Oak	19990227	12,577								
0601060811	Thermalito-Live Oak	19990309	12,458								
0601060812	Thermalito-Live Oak	19990318	11,198								
0601060813	Thermalito-Live Oak	19990323	12,048								
FRW '98 BY totals*			133,043	4			4	0.00%	100%		
Lake Oroville FRH fall releases (OROF)											
0601060709	Lake Oroville	19991101	26,262								
0601060710	Lake Oroville	1999	26,680	16			16	0.06%	100%		
0601060711	Lake Oroville	1999	25,000	1			1	0.00%	100%		
0601060801	Lake Oroville	1999	28,125								
0601060802	Lake Oroville	19991101	26,666								
0601060803	Lake Oroville	19991101	26,317								
0601060804	Lake Oroville	19991101	25,886	1			1	0.00%	100%		
OROF '98 BY totals*			184,936	18			18	0.01%	100%		
FRH '98 BY Totals			1,839,806	8,085	34	536	8,654	0.47%	93.4%	0.4%	6.2%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 3. Summary of FRH '99 BY fall and spring Chinook CWT recoveries by Central Valley area.

FRH CWT release Group	# CWT tagged	# CWTs recovered*			Total CWT recoveries	% total CWTs recovered	% total recoveries		
		Feather Basin	Yuba River	Outside FR basin			Feather Basin	Yuba Carcass	Outside Basin
In-basin FRH fall releases (INBF)	618,963	1,427	35	47	1,509	0.24%	95%	2%	3%
Trucked FRH fall releases (TRKF)	372,607	845		1	846	0.23%	100%		0%
Experimental FRH fall releases (XHAF)	347,747	156		62	218	0.06%	71%		29%
Trucked FRH spring releases (FRHS)	300,322	2,107	94	39	2,240	0.75%	94%	4%	2%
Wild Feather River releases (FRW)	144,217	1			1	0.00%	100%		
Tiburon FRH fall yearlings (FRHY)	28,888	520	2	193	715	2.47%	73%	0%	27%
FRH '99 BY Totals	1,668,527	5,055	132	342	5,529	0.33%	91%	2%	6%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 3a. FRH '99 BY fall and spring Chinook CWT recoveries in Feather River basin and Yuba River.

Cwtcode	Release Site	Release date	# CWT tagged	Feather River Basin			Yuba Carcass	% of total CWT releases recovered			
				Hatchery	Carcass	Total		Feather River Basin		Combined	
								Hatchery	Carcass	Feather	Yuba+sport
In-basin FRH fall releases (INBF)											
0601061107	Elkhorn Boat Ramp-Sac	20000222	52,886	4	11	15		0.01%	0.02%	0.03%	0.03%
0501020809	Isleton-Sac R	20000229	26,837	2	16	18		0.01%	0.06%	0.07%	0.07%
0501020810	Isleton-Sac R	20000229	26,033	1		1		0.00%		0.00%	0.00%
0601061005	Isleton-Sac R	20000215	24,857		11	11			0.05%	0.05%	0.05%
			130,613	7	39	46		0.01%	0.03%	0.04%	0.04%
0601061006	Isleton-Sac R	20000215	26,436	1		1		0.00%		0.00%	0.00%
			26,436	1		1		0.00%		0.00%	0.00%
062660	Live Oak-Fea R	20000607	42,275	15	24	40		0.04%	0.06%	0.09%	0.09%
			42,275	15	24	40		0.04%	0.06%	0.09%	0.09%
0501020805	Ryde-Koket Sac R	20000329	23,042	4	11	15		0.02%	0.05%	0.07%	0.07%
0501020806	Ryde-Koket Sac R	20000329	23,468	5	16	21		0.02%	0.07%	0.09%	0.09%
0501020807	Ryde-Koket Sac R	20000428	21,419	16	49	65		0.08%	0.23%	0.31%	0.31%
0501020808	Ryde-Koket Sac R	20000428	21,395	13	23	36		0.06%	0.11%	0.17%	0.17%
			89,324	38	100	138		0.04%	0.11%	0.15%	0.15%
0601061105	Verona - Feather R	20000322	101,115	43	174	218	16	0.04%	0.17%	0.22%	0.23%
062657	Verona - Feather R	20000322	103,165	74	179	253		0.07%	0.17%	0.25%	0.25%
			204,280	117	354	471	16	0.06%	0.17%	0.23%	0.24%
062649	West Sacramento	20000515	17,416	41	57	98		0.24%	0.33%	0.56%	0.56%
062650	West Sacramento	20000515	17,064	43	125	169		0.25%	0.73%	0.99%	0.99%
062653	West Sacramento	20000501	20,926	28	72	100	18	0.14%	0.34%	0.48%	0.56%
062654	West Sacramento	20000501	20,613	26	34	60		0.13%	0.17%	0.29%	0.29%
062655	West Sacramento	20000410	25,005	26	141	167	2	0.10%	0.56%	0.67%	0.68%
062656	West Sacramento	20000410	25,011	38	98	136		0.15%	0.39%	0.54%	0.54%
			126,035	204	527	731	20	0.16%	0.42%	0.58%	0.60%
	INBF '99 BY totals		618,963	383	1,044	1,427	35	0.06%	0.17%	0.23%	0.24%

Appendix 3a. FRH '99 BY fall and spring Chinook CWT recoveries in Feather River basin and Yuba River.

Cwtcode	Release Site	Release date	# CWT tagged	Feather River Basin		Total	Yuba Carcass	% of total CWT releases recovered			
				Hatchery	Carcass			Feather River Basin Hatchery	Carcass	Combined Feather	Yuba+sport
Trucked FRH spring releases (FRHS)											
0601061106	Wickland Oil Net Pen	20000518	201,236	265	904	1,170	47	0.13%	0.45%	0.58%	0.60%
062659	Wickland Oil Net Pen	20000517	99,086	222	715	937	47	0.22%	0.72%	0.95%	0.99%
FRHS '99 BY totals			300,322	487	1,620	2,107	94	0.16%	0.54%	0.70%	0.73%
Wild Feather River releases (FRW)											
0601061009	Thermalito Bypass	20000104	12,609								
0601061010	Thermalito Bypass	20000109	12,744								
0601061011	Thermalito Bypass	20000115	12,165								
0601061012	Thermalito Bypass	20000120	12,338								
0601061013	Thermalito Bypass	20000123	12,489								
0601061014	Thermalito Bypass	20000128	12,503								
0601061015	Thermalito Bypass	20000130	12,241								
0601061101	Thermalito Bypass	20000202	12,246								
0601061102	Thermalito Bypass	20000209	12,625	1		1		0.01%		0.01%	0.01%
0601061103	Thermalito Bypass	20000214	14,494								
0601061111	Thermalito Bypass	20000308	7,082								
0601061112	Thermalito Bypass	20000219	10,681								
FRW '99 BY totals			144,217	1		1		0.00%		0.00%	0.00%
Tiburon FRH fall yearlings (FRHY)											
062940	Tiburon Net Pens	20000826	28,888	120	400	520	2	0.42%	1.38%	1.80%	1.81%
FRHY '99 BY totals			28,888	120	400	520	2	0.42%	1.38%	1.80%	1.81%
FRH '99 BY Totals			1,668,527	1,235	3,820	5,055	132	0.07%	0.23%	0.30%	0.31%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 3b. FRH '99 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin			Out of Basin	
				Coleman Hatchery	Up Sac R & Tribs Carcass	American Hatchery	Carcass	Mokelumne River Hatchery	Carcass	Stanislaus R. Carcass	Merced River Hatchery	Carcass
In-basin FRH fall releases (INBF)												
0601061107	Elkhorn Boat Ramp-Sac	20000222	52,886									
0501020809	Isleton-Sac R	20000229	26,837	1							1	0.00%
0501020810	Isleton-Sac R	20000229	26,033									
0601061005	Isleton-Sac R	20000215	24,857									
			130,613	1							1	0.00%
0601061006	Isleton-Sac R	20000215	26,436									
			26,436									
062660	Live Oak-Fea R	20000607	42,275									
			42,275									
0501020805	Ryde-Koket Sac R	20000329	23,042									
0501020806	Ryde-Koket Sac R	20000329	23,468									
0501020807	Ryde-Koket Sac R	20000428	21,419									
0501020808	Ryde-Koket Sac R	20000428	21,395									
			89,324									
0601061105	Verona - Feather R	20000322	101,115									
062657	Verona - Feather R	20000322	103,165		17			1			18	0.02%
			204,280		17			1			18	0.01%
062649	West Sacramento	20000515	17,416									
062650	West Sacramento	20000515	17,064									
062653	West Sacramento	20000501	20,926			1					1	0.00%
062654	West Sacramento	20000501	20,613		3	1	23				26	0.13%
062655	West Sacramento	20000410	25,005									
062656	West Sacramento	20000410	25,011									
			126,035		3	2	23				27	0.02%
	INBF '99 BY totals		618,963	1	20	2	23	1			47	0.01%

Appendix 3b. FRH '99 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin			Out of Basin	
				Coleman Hatchery	Up Sac R & Tribs Carcass	American Hatchery	Carcass	Mokelumne River Hatchery	Carcass	Stanislaus R. Carcass	Merced River Hatchery	Carcass
Trucked FRH fall releases (TRKF)												
062658	Wickland Oil Net Pen	20000620	294,362					1			1	0.00%
			294,362					1			1	0.00%
053829	Port Chicago	20000412	23,582									
053830	Port Chicago	20000412	23,352									
062651	Port Chicago	20000503	15,770									
062652	Port Chicago	20000503	15,541									
			78,245									
	TRKF '99 BY totals		372,607					1			1	0.00%
Experimental FRH fall releases (XHAF)												
0501020803	Georgianna Slough	20000328	24,571									
0501020804	Georgianna Slough	20000328	25,253									
0601061109	Georgianna Slough	20000427	19,471			1					1	0.01%
0601061110	Georgianna Slough	20000427	19,665									
			88,960			1					1	0.00%
0601060912	Mokelumne R, Mouth	20000228	27,514									
0601060913	Mokelumne R, Mouth	20000228	25,459									
0601061003	Mokelumne R, Mouth	20000214	26,302									
0601061004	Mokelumne R, Mouth	20000214	24,059									
			103,334									
0601061007	Yolo Bypass-Fremont	20000222	27,250									
0601061008	Yolo Bypass-Fremont	20000222	27,302		30						30	0.11%
0601061104	Yolo Bypass-Fremont	20000204	100,901	1	30						31	0.03%
			155,453	1	60						61	0.04%
	XHAF '99 BY totals		347,747	1	60	1					62	0.02%

Appendix 3b. FRH '99 BY fall and spring Chinook CWT recoveries outside Feather River basin.

Cwtcode	Release Site	Release date	# CWT tagged	Sacramento River Basin				San Joaquin River Basin			Out of Basin	
				Coleman Hatchery	Up Sac R & Tribs Carcass	American Hatchery	Carcass	Mokelumne River Hatchery	Carcass	Stanislaus R. Carcass	Merced River Hatchery	Carcass
Trucked FRH spring releases (FRHS)												
0601061106	Wickland Oil Net Pen	20000518	201,236									
062659	Wickland Oil Net Pen	20000517	99,086		34				5		39	0.04%
	FRHS '99 BY totals		300,322		34				5		39	0.01%
Wild Feather River releases (FRW)												
0601061009	Thermalito Bypass	20000104	12,609									
0601061010	Thermalito Bypass	20000109	12,744									
0601061011	Thermalito Bypass	20000115	12,165									
0601061012	Thermalito Bypass	20000120	12,338									
0601061013	Thermalito Bypass	20000123	12,489									
0601061014	Thermalito Bypass	20000128	12,503									
0601061015	Thermalito Bypass	20000130	12,241									
0601061101	Thermalito Bypass	20000202	12,246									
0601061102	Thermalito Bypass	20000209	12,625									
0601061103	Thermalito Bypass	20000214	14,494									
0601061111	Thermalito Bypass	20000308	7,082									
0601061112	Thermalito Bypass	20000219	10,681									
	FRW '99 BY totals		144,217									
Tiburon FRH fall yearlings (FRHY)												
062940	Tiburon Net Pens	20000826	28,888	6	163		23	1			193	0.67%
	FRHY '99 BY totals		28,888	6	163		23	1			193	0.67%
	FRH '99 BY Totals		1,668,527	8	277	3	46	3	5		342	0.02%

Appendix 3c. FRH '99 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	Number recovered			Total Returns	% total Releases Recovered	% total recoveries		
				Feather Basin	Yuba Carcass	Outside Basin			Feather Basin	Yuba Carcass	Outside Basin
In-basin FRH fall releases (INBF)											
0601061107	Elkhorn Boat Ramp-Sac	20000222	52,886	15			15	0.03%	100%		
0501020809	Isleton-Sac R	20000229	26,837	18		1	19	0.07%	95%		5%
0501020810	Isleton-Sac R	20000229	26,033	1			1	0.00%	100%		
0601061005	Isleton-Sac R	20000215	24,857	11			11	0.05%	100%		
			130,613	46		1	47	0.04%	98%		2%
0601061006	Isleton-Sac R	20000215	26,436	1			1	0.00%	100%		
			26,436	1			1	0.00%	100%		
062660	Live Oak-Fea R	20000607	42,275	40			40	0.09%	100%		
			42,275	40			40	0.09%	100%		
0501020805	Ryde-Koket Sac R	20000329	23,042	15			15	0.07%	100%		
0501020806	Ryde-Koket Sac R	20000329	23,468	21			21	0.09%	100%		
0501020807	Ryde-Koket Sac R	20000428	21,419	65			65	0.31%	100%		
0501020808	Ryde-Koket Sac R	20000428	21,395	36			36	0.17%	100%		
			89,324	138			138	0.15%	100%		
0601061105	Verona - Feather R	20000322	101,115	218	16		234	0.23%	93%	7%	
062657	Verona - Feather R	20000322	103,165	253		18	272	0.26%	93%		7%
			204,280	471	16	18	505	0.25%	93%	3%	4%
062649	West Sacramento	20000515	17,416	98			98	0.56%	100%		
062650	West Sacramento	20000515	17,064	169			169	0.99%	100%		
062653	West Sacramento	20000501	20,926	100	18	1	119	0.57%	84%	15%	1%
062654	West Sacramento	20000501	20,613	60		26	87	0.42%	70%		30%
062655	West Sacramento	20000410	25,005	167	2		169	0.68%	99%	1%	
062656	West Sacramento	20000410	25,011	136			136	0.54%	100%		
			126,035	731	20	27	778	0.62%	94%	3%	4%
			618,963	1,427	35	47	1,509	0.24%	95%	2%	3%

Appendix 3c. FRH '99 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	Number recovered				% total Releases Recovered	% total recoveries		
				Feather Basin	Yuba Carcass	Outside Basin	Total Returns		Feather Basin	Yuba Carcass	Outside Basin
Trucked FRH fall releases (TRKF)											
062658	Wickland Oil Net Pen	20000620	294,362	511		1	512	0.17%	100%	0%	
			294,362	511		1	512	0.17%	100%	0%	
053829	Port Chicago	20000412	23,582	113			113	0.48%	100%		
053830	Port Chicago	20000412	23,352	59			59	0.25%	100%		
062651	Port Chicago	20000503	15,770	87			87	0.55%	100%		
062652	Port Chicago	20000503	15,541	75			75	0.48%	100%		
			78,245	334			334	0.43%	100%		
	TRKF '99 BY totals		372,607	845		1	846	0.23%	100%	0%	
Experimental FRH fall releases (XHAF)											
0501020803	Georgianna Slough	20000328	24,571	34			34	0.14%	100%		
0501020804	Georgianna Slough	20000328	25,253	48			48	0.19%	100%		
0601061109	Georgianna Slough	20000427	19,471	22		1	23	0.12%	96%	4%	
0601061110	Georgianna Slough	20000427	19,665	7			7	0.04%	100%		
			88,960	111		1	112	0.13%	99%	1%	
0601060912	Mokelumne R, Mouth	20000228	27,514	3			3	0.01%	100%		
0601060913	Mokelumne R, Mouth	20000228	25,459	1			1	0.00%	100%		
0601061003	Mokelumne R, Mouth	20000214	26,302	1			1	0.00%	100%		
0601061004	Mokelumne R, Mouth	20000214	24,059	11			11	0.05%	100%		
			103,334	16			16	0.02%	100%		
0601061007	Yolo Bypass-Fremont	20000222	27,250	6			6	0.02%	100%		
0601061008	Yolo Bypass-Fremont	20000222	27,302	1		30	31	0.11%	3%	97%	
0601061104	Yolo Bypass-Fremont	20000204	100,901	21		31	53	0.05%	41%	59%	
			155,453	29		61	90	0.06%	32%	68%	
	XHAF '99 BY totals		347,747	156		62	218	0.06%	71%	29%	
Trucked FRH spring releases (FRHS)											
0601061106	Wickland Oil Net Pen	20000518	201,236	1,170	47		1,217	0.60%	96%	4%	
062659	Wickland Oil Net Pen	20000517	99,086	937	47	39	1,023	1.03%	92%	4%	
	FRHS '99 BY totals		300,322	2,107	94	39	2,240	0.75%	94%	2%	

Appendix 3c. FRH '99 BY fall and spring Chinook CWT recoveries in the Feather River basin, Yuba River and other areas of CV.

Cwtcode	Release Site	Release date	# CWT tagged	Number recovered			Total Returns	% total Releases Recovered	% total recoveries		
				Feather Basin	Yuba Carcass	Outside Basin			Feather Basin	Yuba Carcass	Outside Basin
Wild Feather River releases (FRW)											
0601061009	Thermalito Bypass	20000104	12,609								
0601061010	Thermalito Bypass	20000109	12,744								
0601061011	Thermalito Bypass	20000115	12,165								
0601061012	Thermalito Bypass	20000120	12,338								
0601061013	Thermalito Bypass	20000123	12,489								
0601061014	Thermalito Bypass	20000128	12,503								
0601061015	Thermalito Bypass	20000130	12,241								
0601061101	Thermalito Bypass	20000202	12,246								
0601061102	Thermalito Bypass	20000209	12,625	1			1	0.01%	100%		
0601061103	Thermalito Bypass	20000214	14,494								
0601061111	Thermalito Bypass	20000308	7,082								
0601061112	Thermalito Bypass	20000219	10,681								
FRW '99 BY totals			144,217	1			1	0.00%	100%		
Tiburon FRH fall yearlings (FRHY)											
062940	Tiburon Net Pens	20000826	28,888	520	2	193	715	2.47%	73%	0%	27%
FRHY '99 BY totals			28,888	520	2	193	715	2.47%	73%	0%	27%
FRH '99 BY Totals			1,668,527	5,055	132	342	5,529	0.33%	91%	2%	6%

* - FRW and OROF releases not included in total number of CWTs released by FRH or recovered in CV.

Appendix 4a. Contribution of age 2 FRH fall & spring chinook (brood year 1998) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release			FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	
INBF	2	NO																			
INBF	2	CO																			
INBF	2	KO																			
INBF	2	KC																			
INBF	2	FB																			
INBF	2	SF																			
INBF	2	MO						4			4						0.0%				0.0%
Total								4			4						0.0%				0.0%
Release																					
Group	Age	Port	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	
TRKF	2	NO																			
TRKF	2	CO																			
TRKF	2	KO																			
TRKF	2	KC																			
TRKF	2	FB																			
TRKF	2	SF					43				46	89				0.1%			0.2%		0.0%
TRKF	2	MO																			
Total							43				46	89				0.0%			0.1%		0.0%
Release																					
Group	Age	Port	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	
FRHS	2	NO																			
FRHS	2	CO																			
FRHS	2	KO																			
FRHS	2	KC																			
FRHS	2	FB																			
FRHS	2	SF																			
FRHS	2	MO																			
Total																					
Release																					
Group	Age	Port	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	
XHAF	2	NO								3	3								0.0%		0.0%
XHAF	2	CO																			
XHAF	2	KO																			
XHAF	2	KC																			
XHAF	2	FB																			
XHAF	2	SF																			
XHAF	2	MO					3				3					0.0%					0.0%
Total							3				3					0.0%			0.0%		0.0%

Total all releases 100

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	
NO (north of Falcon)	700	1,010		700	4,650	9,800	5,000	22,000	43,860									0.0%	0.0%
CO (Coos Bay)	1,100	2,700		600	1,500	1,900	14,800	27,200	49,800										
KO (KMZ Oregon)	200	400			50			1,400	2,050										
KC (KMZ California)	2,900								2,900										
FB (Fort Bragg)	2,400								2,400										
SF (San Francisco)	12,200				83,000	76,100	36,100	25,700	233,100					0.1%				0.2%	0.0%
MO (Monterey)	1,000				121,800	62,200	11,200	1,300	197,500					0.0%	0.0%				0.0%
Total	20,500	4,110		1,300	211,000	150,000	67,100	77,600	531,610					0.0%	0.0%			0.1%	0.0%

Appendix 4b. Contribution of age 2 FRH fall & spring chinook (brood year 1998) to ocean salmon SPORT fishery by release group, time, and port area.

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries												
			Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total				
INBF	2	NO								2									2			0.2%		0.1%
INBF	2	CO								1	1	3										0.0%	0.1%	0.0%
INBF	2	KO									9	9											0.1%	0.1%
INBF	2	KC								4	8	12											0.1%	0.1%
INBF	2	FB							7	3	10											0.1%	0.0%	0.0%
INBF	2	SF							60	50	42	152										0.4%	0.6%	0.6%
INBF	2	MO						5	38	23	29	95										0.0%	0.3%	0.2%
Total								5	105	84	90	284										0.0%	0.3%	0.2%

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries												
			Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total				
TRKF	2	NO								27		27										2.2%		0.7%
TRKF	2	CO								99	24	123										1.4%	0.9%	1.3%
TRKF	2	KO									47	47											0.6%	0.4%
TRKF	2	KC									51	51											0.8%	0.4%
TRKF	2	FB							276	175	45	496										4.8%	2.2%	0.6%
TRKF	2	SF							753	1,127	1,089	2,968										4.6%	13.3%	15.1%
TRKF	2	MO							878	876	508	2,261										6.6%	8.1%	16.9%
Total									1,906	2,303	1,763	5,973										5.0%	5.5%	5.0%

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries												
			Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total				
FRHS	2	NO																						
FRHS	2	CO								7	28	35											0.1%	1.1%
FRHS	2	KO																						0.3%
FRHS	2	KC									20	20												0.2%
FRHS	2	FB								84	43	127											1.0%	0.6%
FRHS	2	SF						25	91	180	229	526				0.2%	0.6%	2.1%	3.2%				0.9%	
FRHS	2	MO								123	34	118	275										0.9%	0.3%
Total								25	214	305	438	982				0.1%	0.6%	0.7%	1.2%				0.5%	

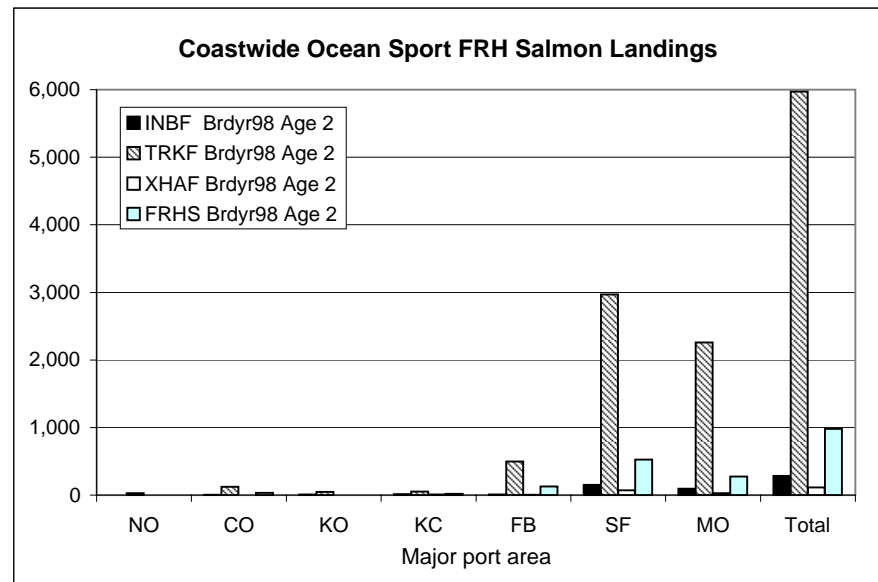
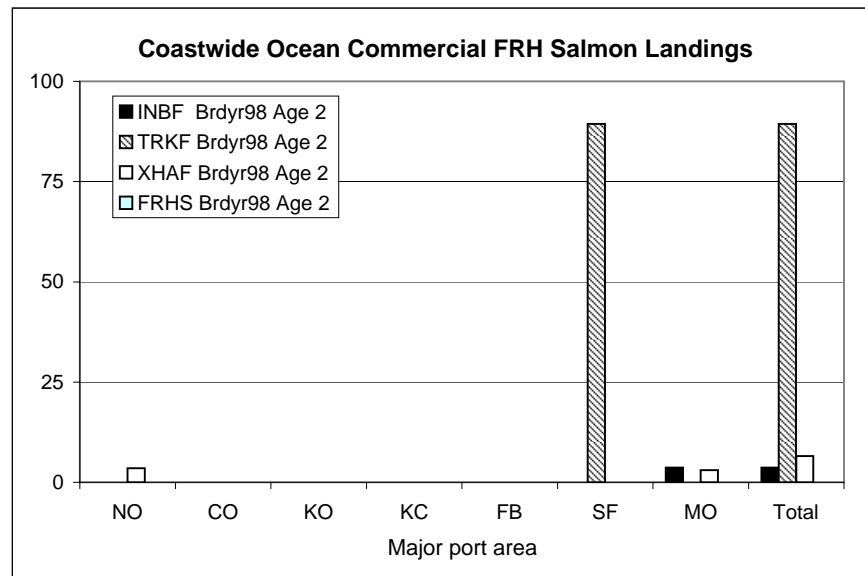
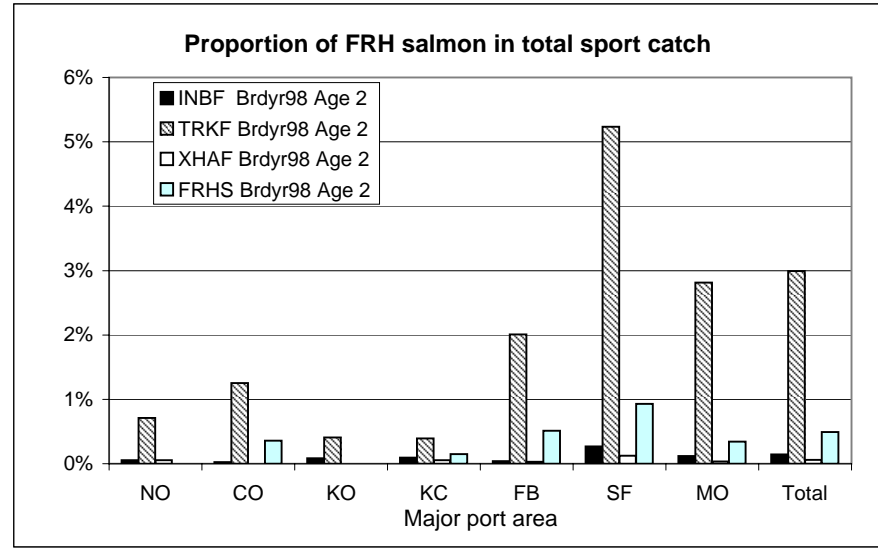
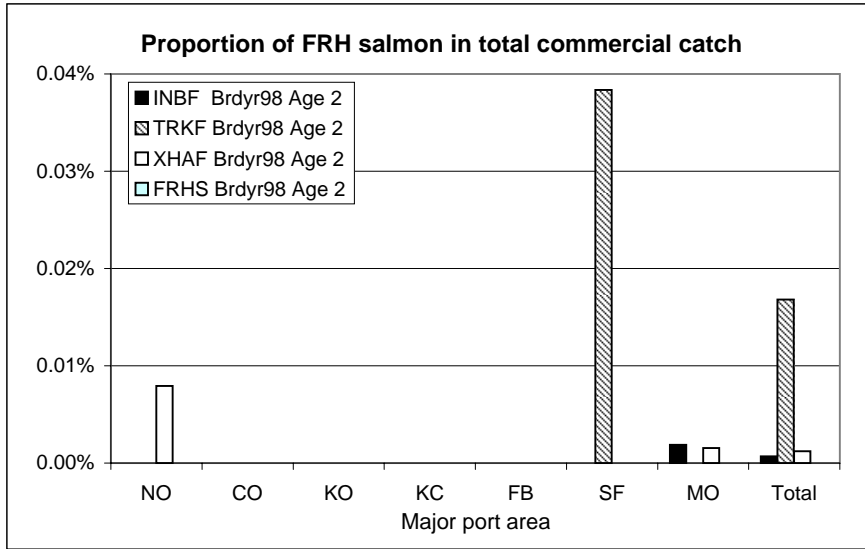
Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries												
			Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total				
XHAF	2	NO								2		2											0.2%	0.1%
XHAF	2	CO																						
XHAF	2	KO																						
XHAF	2	KC									7	7												0.1%
XHAF	2	FB								7	7	7												0.0%
XHAF	2	SF						3	9	33	24	70				0.03%	0.06%	0.39%	0.33%					0.1%
XHAF	2	MO							4	18	6	28												0.0%
Total								3	20	54	37	115				0.0%	0.1%	0.1%	0.1%					0.1%

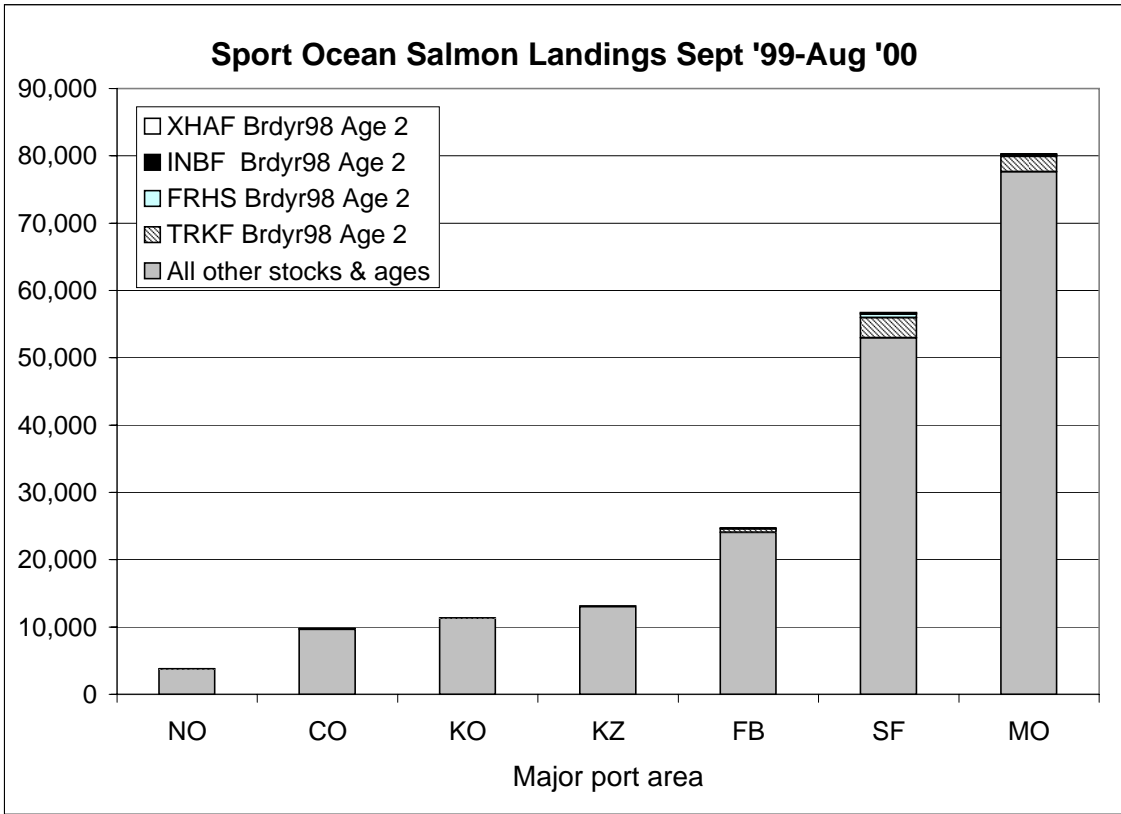
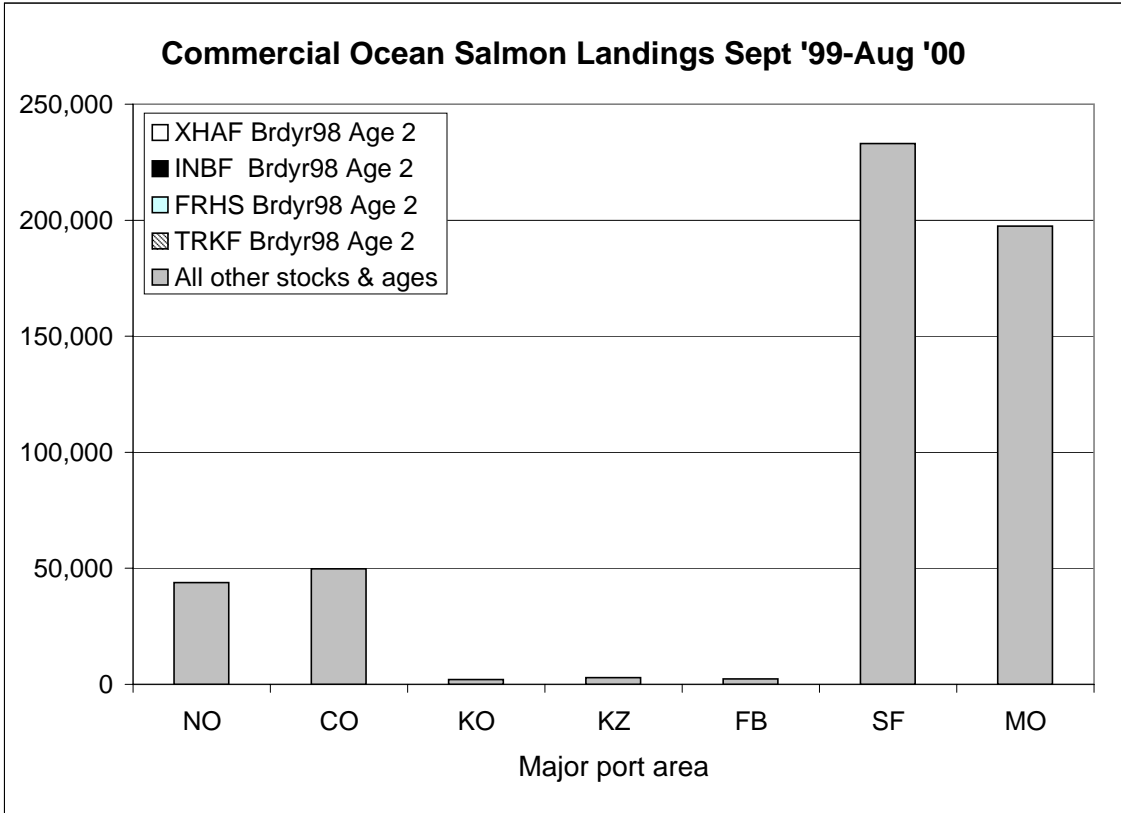
Total all releases 7,353

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total	Sept 99	Oct 99	Mar 00	Apr 00	May 00	Jun 00	July 00	Aug 00	Total		
NO (north of Falcon)	850	600		50	100	100	1,250	850	3,800										2.5%	0.8%
CO (Coos Bay)	50			50	50	50	7,000	2,600	9,800										1.5%	2.0%
KO (KMZ Oregon)	500	300				50	400	2,100	8,000											0.7%
KC (KMZ California)	200					300	2,300	3,800	6,500											0.1%
FB (Fort Bragg)	200				700	2,700	5,700	8,100	7,300						5.1%	3.2%	1.2%			2.6%
SF (San Francisco)	6,200	2,600		5,700	10,200	16,300	8,500	7,200	56,700					0.3%	5.6%	16.4%	19.2%			6.6%
MO (Monterey)	100			33,900	19,200	13,300	10,800	3,000	80,300						0.0%	7.8%	8.8%	22.0%		3.3%
Total	8,100	3,500		40,400	32,600	38,150	41,550	35,450	199,750					0.1%	5.9%	6.6%	6.6%			3.7%

Contribution of Brdyr '98 Age 2 FRH salmon to Commercial & Sport Fisheries Sept 99 through Aug 00





Appendix 4c. Contribution of age 3 FRH fall & spring chinook (brood year 1998) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release		FRH '98 brood year chinook recoveries										FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
INBF	3	NO	2	19		47	205	166	109	110	657	0.0%	0.2%		0.5%	0.4%	0.5%	0.4%	0.2%	0.3%	
INBF	3	CO		4		37	95	44	88	33	301				0.1%	0.4%	0.7%	0.4%	0.6%	0.2%	0.4%
INBF	3	KO		2				2		5	8				0.2%			0.5%		0.4%	0.2%
INBF	3	KC																			
INBF	3	FB	1				17				18	0.0%				0.4%					0.1%
INBF	3	SF					405	96	505	83	1,088					1.0%	1.2%	0.8%	0.6%		0.7%
INBF	3	MO					439	79	17		535					1.5%	2.3%	0.7%			1.5%
Total			3	24		84	1,161	387	719	231	2,608	0.0%	0.2%		0.5%	0.9%	0.7%	0.7%	0.3%		0.5%
Release		FRH '98 brood year chinook recoveries										FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
TRKF	3	NO	34	82		791	4,283	3,450	3,704	6,730	19,074	0.2%	0.9%		8.5%	9.2%	10.0%	15.3%	13.9%		10.1%
TRKF	3	CO	70	69		386	1,635	1,405	2,727	1,265	7,557	0.5%	1.3%		4.2%	11.4%	13.9%	19.2%	9.6%		9.4%
TRKF	3	KO						27		118	146						6.9%		9.1%		3.6%
TRKF	3	KC																			
TRKF	3	FB					478				478					11.1%					1.4%
TRKF	3	SF					8,976	1,225	9,218	1,423	20,843					23.2%	15.1%	15.2%	10.1%		13.8%
TRKF	3	MO					9,118	954	535		10,607					30.4%	28.1%	22.3%			29.5%
Total			105	151		1,177	24,490	7,061	16,184	9,537	58,704	0.1%	1.0%		6.4%	18.2%	12.5%	15.9%	12.4%		11.8%
Release		FRH '98 brood year chinook recoveries										FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
FRHS	3	NO	20	47		101	947	922	730	1,526	4,293	0.1%	0.5%		1.1%	2.0%	2.7%	3.0%	3.2%		2.3%
FRHS	3	CO				186	358	295	536	392	1,768				2.0%	2.5%	2.9%	3.8%	3.0%		2.2%
FRHS	3	KO						5			5						1.3%				0.1%
FRHS	3	KC																			
FRHS	3	FB					79				79					1.8%					0.2%
FRHS	3	SF					1,890	320	2,369	182	4,761					4.9%	3.9%	3.9%	1.3%		3.2%
FRHS	3	MO					2,138	131	94		2,363					7.1%	3.9%	3.9%			6.6%
Total			20	47		287	5,413	1,673	3,728	2,101	13,269	0.0%	0.3%		1.6%	4.0%	3.0%	3.7%	2.7%		2.7%
Release		FRH '98 brood year chinook recoveries										FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
XHAF	3	NO	4	3		12	8	18	14	16	76	0.0%	0.0%		0.1%	0.0%	0.1%	0.1%	0.0%		0.0%
XHAF	3	CO	4				10	9	13		36	0.0%				0.1%	0.1%	0.1%			0.0%
XHAF	3	KO		3							3		0.3%								0.1%
XHAF	3	KC																			
XHAF	3	FB	1				2				3	0.0%				0.0%					0.0%
XHAF	3	SF					116	15	86	18	234					0.3%	0.2%	0.1%	0.1%		0.2%
XHAF	3	MO					88	16	6		110					0.3%	0.5%	0.2%			0.3%
Total			10	6		12	224	58	119	33	462	0.0%	0.0%		0.1%	0.2%	0.1%	0.1%	0.0%		0.1%

Total all releases 75,043

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
NO (north of Falcon)	16,450	8,950		9,300	46,700	34,500	24,200	48,300	188,400	0.4%	1.7%		10.2%	11.7%	13.2%	18.8%	17.4%	12.8%	
CO (Coos Bay)	13,900	5,200		9,200	14,300	10,100	14,200	13,200	80,100	0.5%	1.4%		6.6%	14.7%	17.4%	23.7%	12.8%	12.1%	
KO (KMZ Oregon)	1,200	900			200	400		1,300	4,000		0.5%				8.7%		9.5%	4.1%	
KC (KMZ California)	2,100								2,100										
FB (Fort Bragg)	30,700				4,300				35,000	0.0%				13.4%					1.7%
SF (San Francisco)	29,000				38,700	8,100	60,700	14,100	150,600					29.4%	20.4%	20.1%	12.1%	17.9%	
MO (Monterey)					30,000	3,400	2,400	100	35,900					39.3%	34.7%	27.2%		37.9%	
Total	93,350	15,050		18,500	134,200	56,500	101,500	77,000	496,100	0.1%	1.5%		8.4%	23.3%	16.2%	20.4%	15.5%	15.1%	

Appendix 4d. Contribution of age 3 FRH fall & spring chinook (brood year 1998) to ocean salmon SPORT fishery by release group, time, and port area.

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries								FRH '98 brood year chinook recoveries										
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
INBF	3	NO	2							18	2	21	0.2%						0.6%	0.0%	0.2%
INBF	3	CO	2						10	23	35	0.5%					0.7%	0.4%			0.4%
INBF	3	KO		2				12	2	14	9	39		0.3%		1.5%	0.2%	1.1%	0.3%		0.5%
INBF	3	KC	4					27	28	13	72	0.7%				1.4%	0.7%	0.5%			0.6%
INBF	3	FB			5			6	48	58	35	152			0.9%	0.2%	0.8%	0.6%	0.7%		0.6%
INBF	3	SF	9	45		16	40	20	138	45	313	0.1%	0.5%		0.5%	0.6%	1.3%	1.2%	0.7%		0.7%
INBF	3	MO	4		23	239	60	15	17		359	0.2%		2.9%	1.7%	2.0%	7.6%	1.1%			1.7%
Total			21	48	28	255	146	123	281	91	991	0.2%	0.5%	2.0%	1.4%	1.0%	0.8%	0.8%	0.4%		0.7%

Release Group	Age	Port	FRH '98 brood year chinook recoveries								FRH '98 brood year chinook recoveries											
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total		
TRKF	3	NO								608	581	1,188							19.0%	14.5%	12.6%	
TRKF	3	CO	32						74	773	86	965	6.3%					5.3%	14.1%	3.9%	9.8%	
TRKF	3	KO	47					101	158	214	81	601	9.3%				12.7%	15.8%	17.9%	2.7%	8.2%	
TRKF	3	KC	56						241	366	176	62	901	9.3%				12.7%	8.7%	6.8%	2.5%	7.6%
TRKF	3	FB				34	335	892	1903	205	3,370				6.8%	12.4%	14.2%	18.3%	3.9%		12.4%	
TRKF	3	SF	393	921		361	853	327	3097	1234	7,186	4.9%	10.6%		10.9%	13.8%	20.4%	27.6%	18.4%		15.7%	
TRKF	3	MO	218		429	5392	1322	436	116		7,913	12.8%		53.6%	38.0%	44.1%	217.8%	7.3%			36.6%	
Total			746	921	429	5,787	2,854	2,253	6,888	2,249	22,125	5.5%	9.0%	31.8%	32.1%	19.2%	14.7%	19.3%	9.4%		16.7%	

Release Group	Age	Port	FRH '98 brood year chinook recoveries								FRH '98 brood year chinook recoveries										
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
FRHS	3	NO	12							123	140	275	1.4%						3.8%	3.5%	2.9%
FRHS	3	CO							60	240	76	376						4.3%	4.4%	3.5%	3.8%
FRHS	3	KO		19				32	24		14	89		2.3%			4.0%	2.4%		0.5%	1.2%
FRHS	3	KC	15					60	80			154	2.5%				3.1%	1.9%			1.3%
FRHS	3	FB			33			17	117	299	74	539			5.9%	0.6%	1.9%	2.9%	1.4%		2.0%
FRHS	3	SF	55	218		134	247	115	696	53	1,518	0.7%	2.5%		4.1%	4.0%	7.2%	6.2%	0.8%		3.3%
FRHS	3	MO	148		89	2198	260	254	20		2,968	8.7%		11.1%	15.5%	8.7%	126.9%	1.2%			13.7%
Total			230	236	121	2,332	616	649	1,377	358	5,920	1.7%	2.3%	9.0%	12.9%	4.1%	4.2%	3.9%	1.5%		4.5%

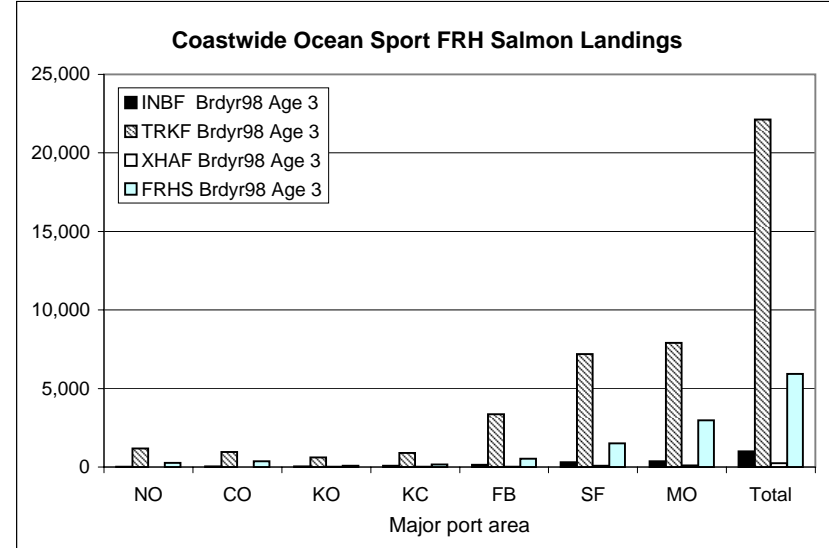
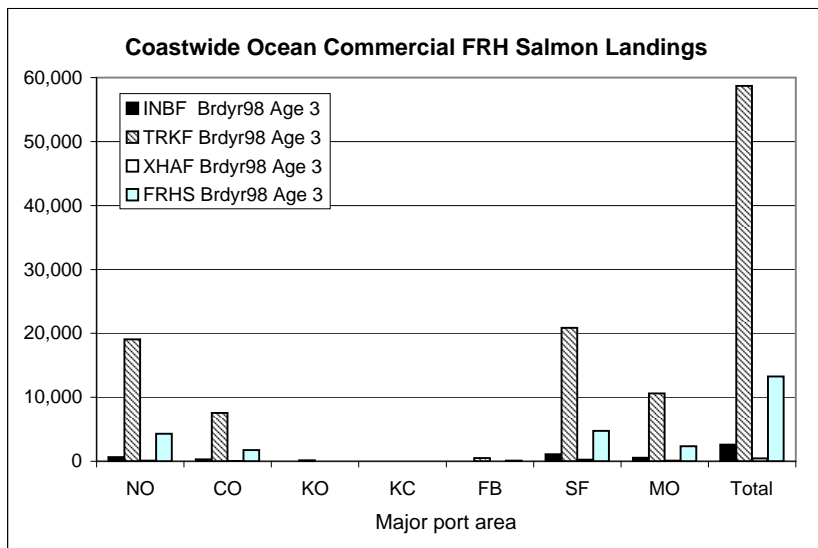
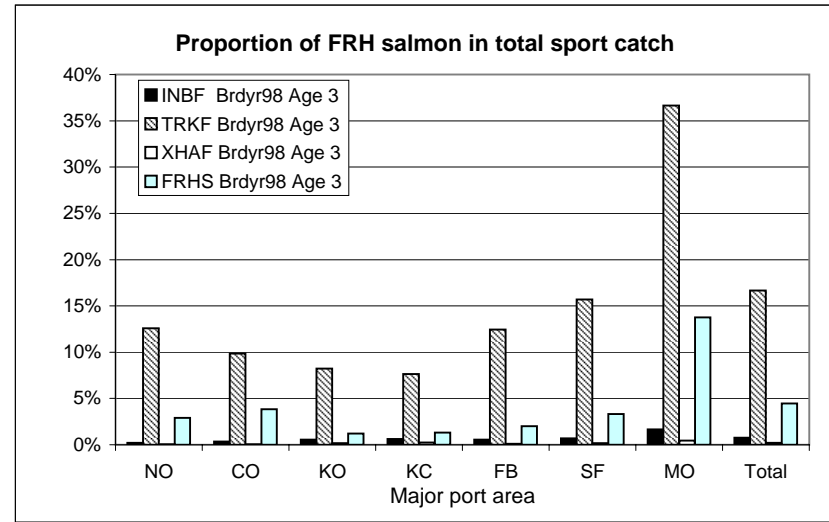
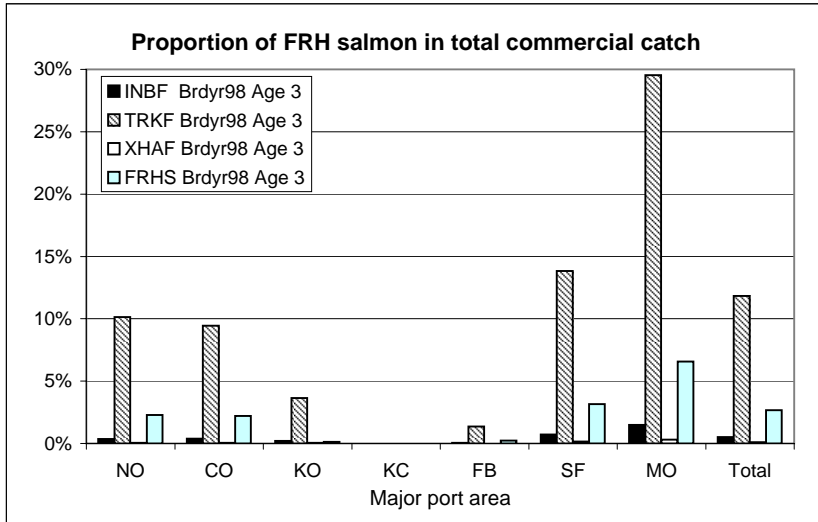
Release Group	Age	Port	FRH '98 brood year chinook recoveries								FRH '98 brood year chinook recoveries										
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
XHAF	3	NO	2									2	0.3%								0.0%
XHAF	3	CO									2	2							0.0%		0.0%
XHAF	3	KO						5	3	4		12					0.6%	0.3%	0.3%		0.2%
XHAF	3	KC						5	14	9		28					0.2%	0.3%	0.3%		0.2%
XHAF	3	FB								8	20	28							0.1%	0.4%	0.1%
XHAF	3	SF	4	15		5	18		35	8	85	0.05%	0.17%		0.14%	0.29%		0.31%	0.13%		0.2%
XHAF	3	MO	8			60	19	9			97	0.49%			0.42%	0.63%	4.45%				0.4%
Total			15	15		65	46	26	58	29	254	0.1%	0.1%		0.4%	0.3%	0.2%	0.2%	0.1%		0.2%

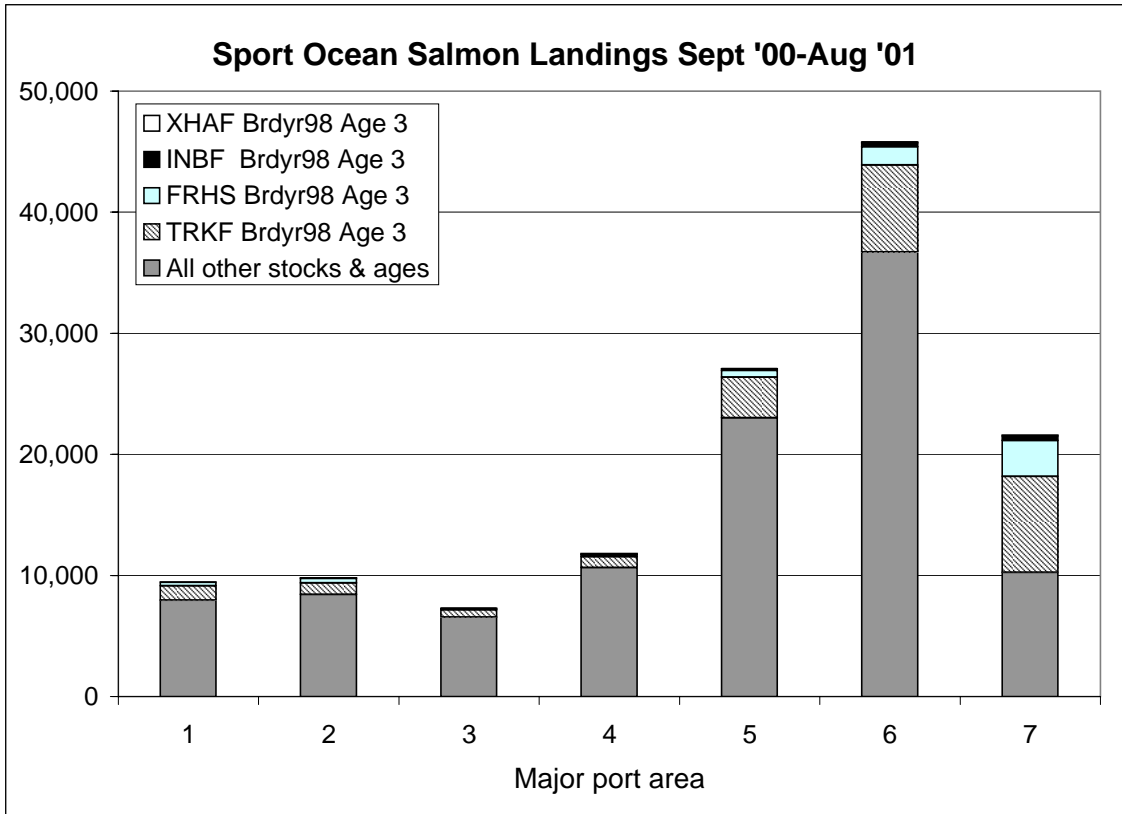
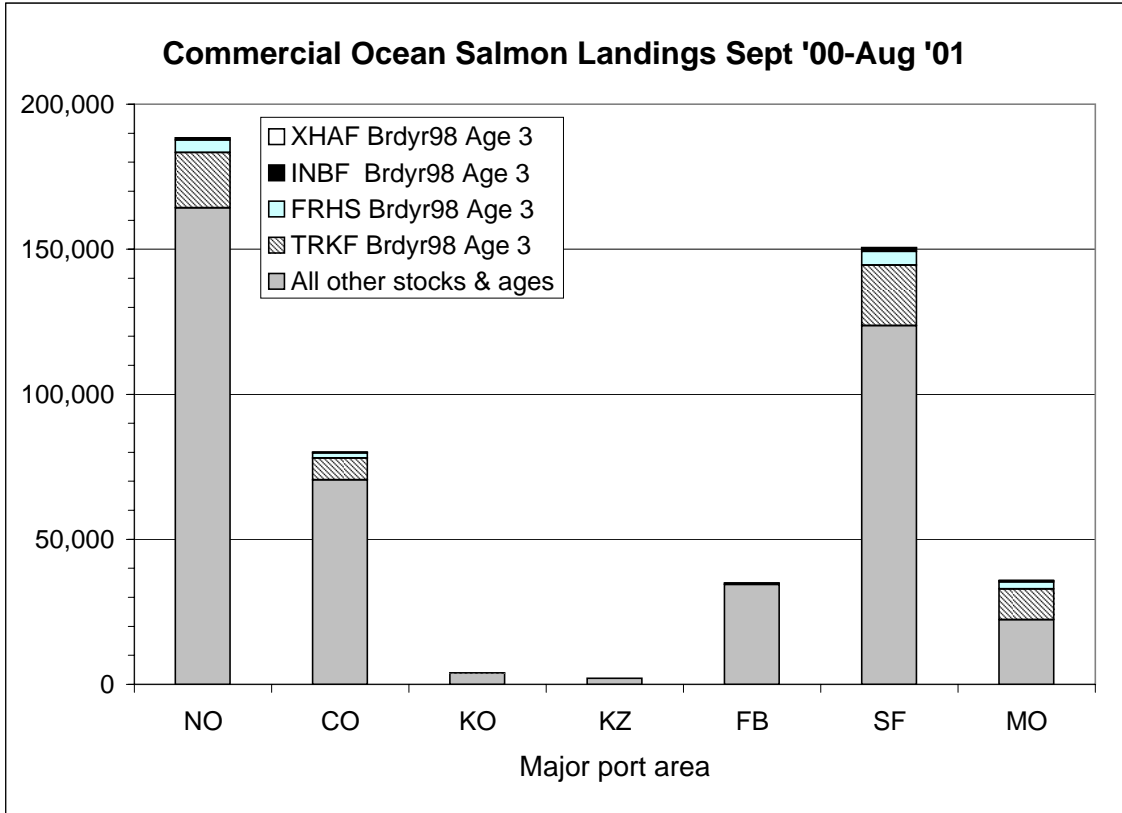
Total all releases 29,290

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	
NO (north of Falcon)	800	600		50	200	600	3,200	4,000	9450	1.9%						23.4%	18.1%	15.7%	
CO (Coos Bay)	500	100			100	1,400	5,500	2,200	9800	6.8%					10.3%	18.9%	7.4%	14.1%	
KO (KMZ Oregon)	500	800				800	1,000	3,000	7300	9.3%	2.6%			18.9%	18.7%	19.3%	3.5%	10.2%	
KC (KMZ California)	600					1,900	4,200	2,600	11800	12.5%				17.5%	11.6%	7.6%	2.5%	9.8%	
FB (Fort Bragg)	1,300	50	550	500	2,700	6,300	10,400	5,300	27100			6.8%	6.8%	13.3%	16.8%	21.8%	6.3%	15.1%	
SF (San Francisco)	8,100	8,700		3,300	6,200	1,600	11,200	6,700	45800	5.7%	13.8%		15.6%	18.7%	28.9%	35.4%	20.0%	19.9%	
MO (Monterey)	1,700		800	14,200	3,000	200	1,600	100	21600	22.3%			67.5%	55.6%	55.4%	356.8%	9.6%		52.5%
Total										7.5%	11.9%	42.8%	46.8%	24.6%	19.9%	24.1%	11.5%	22.0%	

Contribution of Brdyr '98 Age 3 FRH salmon to Commercial & Sport Fisheries Sept 00 through Aug 01





Appendix 4e. Contribution of age 4 FRH fall & spring chinook (brood year 1998) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release		FRH '98 brood year chinook recoveries										FRH '98 brood year chinook recoveries									
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	
INBF	4	NO	62	40		4	8	3	3		120	0.2%	0.3%		0.1%	0.1%	0.0%	0.0%		0.1%	
INBF	4	CO	20			3		7			30	0.3%			0.0%		0.0%			0.0%	
INBF	4	KO	4								4	0.4%								0.1%	
INBF	4	KC	22								22	0.4%								0.3%	
INBF	4	FB	14						8	14	37	0.1%						0.0%	0.0%	0.1%	
INBF	4	SF					33	13	26	14	86				0.1%	0.0%	0.0%	0.1%		0.0%	
INBF	4	MO					11	30	4		45				0.1%	0.1%	0.0%			0.1%	
Total			122	40		7	52	54	41	28	344	0.2%	0.2%		0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	
Release																					
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	
TRKF	4	NO	3147	841		87	276	258	126	48	4,783	12.7%	7.3%		2.0%	1.9%	1.7%	1.1%	0.3%	4.7%	
TRKF	4	CO	501	257		80	151	518	41	78	1,626	8.1%	5.1%		1.3%	1.5%	1.1%	0.7%	0.5%	1.7%	
TRKF	4	KO	102	30							133	10.2%	4.3%							2.3%	
TRKF	4	KC	564								564	10.3%								7.4%	
TRKF	4	FB	241						278	419	938	2.3%						1.5%	1.0%	1.3%	
TRKF	4	SF	134				1499	802	996	366	3,797	1.2%			2.3%	1.2%	1.1%	2.7%		1.5%	
TRKF	4	MO					579	1283	179		2,041				2.7%	5.3%	0.8%			2.9%	
Total			4,690	1,129		168	2,505	2,861	1,619	910	13,882	7.9%	5.4%		1.6%	2.3%	1.8%	1.1%	1.0%	2.3%	
Release																					
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	
FRHS	4	NO	834	208			60	19			1,121	3.4%	1.8%			0.4%	0.1%			1.1%	
FRHS	4	CO	288	93		23	37	65			506	4.6%	1.8%		0.4%	0.4%	0.1%			0.5%	
FRHS	4	KO	21								21	2.1%								0.4%	
FRHS	4	KC	162								162	3.0%								2.1%	
FRHS	4	FB	123								123	1.1%								0.2%	
FRHS	4	SF	24				361	271	171		827	0.2%			0.6%	0.4%	0.2%			0.3%	
FRHS	4	MO					229	222	29		480				1.1%	0.9%	0.1%			0.7%	
Total			1,453	301		23	687	577	200		3,240	2.4%	1.4%		0.2%	0.6%	0.4%	0.1%		0.5%	
Release																					
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	
XHAF	4	NO	7	4							11	0.0%	0.0%							0.0%	
XHAF	4	CO				3		4			7				0.1%		0.0%			0.0%	
XHAF	4	KO																			
XHAF	4	KC	4								4	0.1%								0.0%	
XHAF	4	FB																		0.0%	
XHAF	4	SF						3			3						0.0%			0.0%	
XHAF	4	MO						3			3						0.0%			0.0%	
Total			11	4		3		10			28	0.0%	0.0%		0.0%		0.0%			0.0%	

Total all releases 17,493

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total		
NO (north of Falcon)	24,700	11,450	4,100	4,400	14,400	15,300	11,000	17,500	102,850	16.4%	9.6%		2.1%	2.4%	1.8%	1.2%	0.3%	5.9%		
CO (Coos Bay)	6,200	5,050	2,600	6,200	9,900	47,800	5,500	15,300	98,550	13.0%	6.9%		1.8%	1.9%	1.2%	0.7%	0.5%	2.2%		
KO (KMZ Oregon)	1,000	700	50	100	100	1,000	1,500	1,300	5,750	12.8%	4.3%							2.7%		
KC (KMZ California)	5,500							2,100	7,600	13.7%									9.9%	
FB (Fort Bragg)	10,700						18,600	40,800	70,100	3.5%								1.5%	1.1%	1.6%
SF (San Francisco)	11,400	3,700			64,600	68,800	88,100	13,600	250,200	1.4%				2.9%	1.6%	1.4%	2.8%		1.9%	
MO (Monterey)	50				21,600	24,400	21,300	2,500	69,850					3.8%	6.3%	1.0%			3.7%	
Total			59,550	20,900	6,750	10,700	110,600	157,300	146,000	93,100	604,900	10.5%	7.1%		1.9%	2.9%	2.2%	1.3%	1.0%	2.9%

Appendix 4f. Contribution of age 4 FRH fall & spring chinook (brood year 1998) to ocean salmon SPORT fishery by release group, time, and port area.

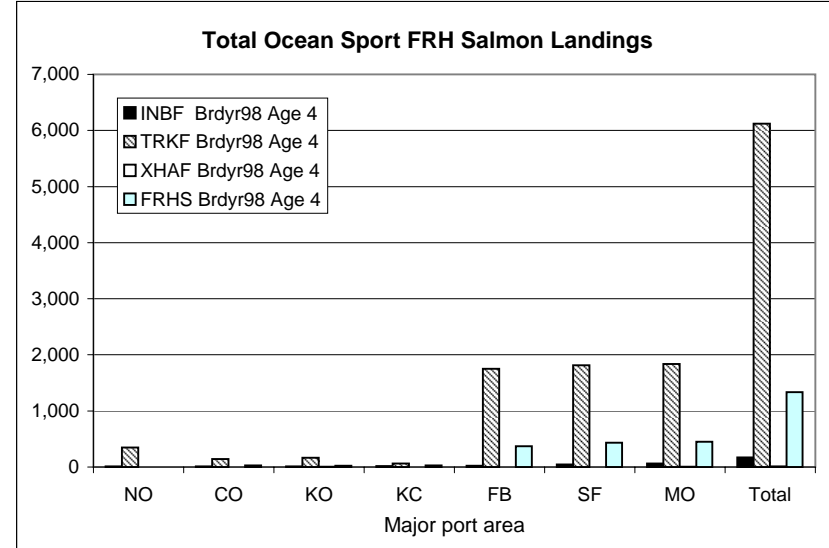
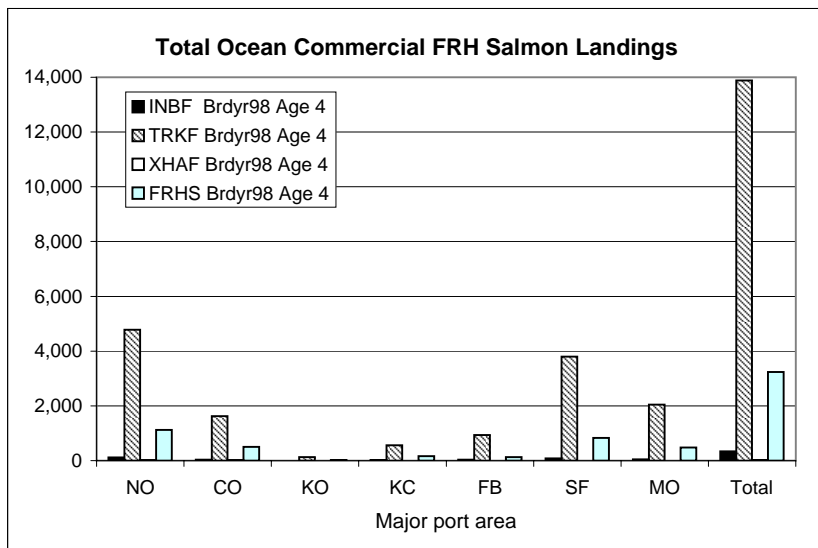
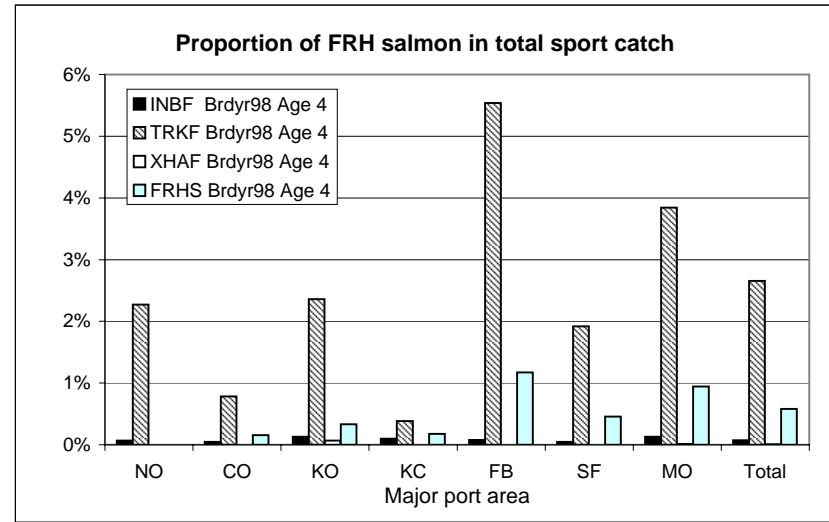
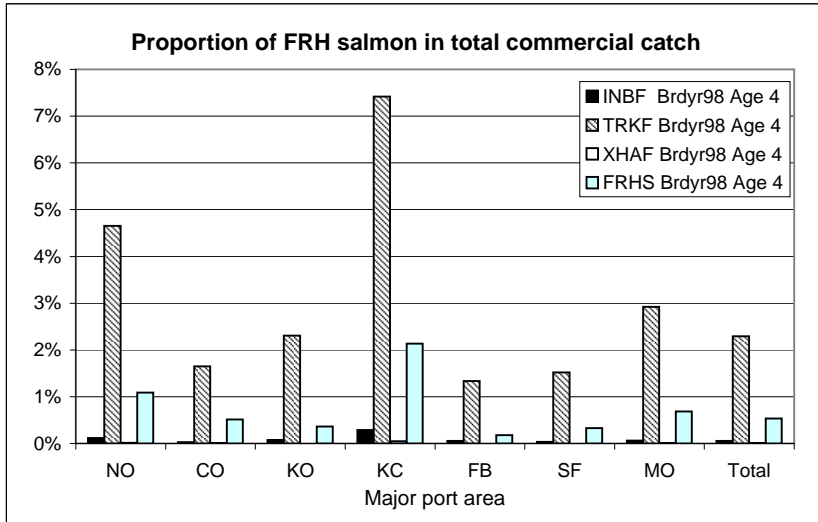
Release			FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries								
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total
INBF	4	NO	7					3			10	0.4%					0.6%			0.1%
INBF	4	CO				5			4		9				5.1%			0.0%		0.0%
INBF	4	KO	3					6			9	1.0%					0.2%			0.1%
INBF	4	KC	5					4			15	0.4%				0.2%	0.1%			0.1%
INBF	4	FB						8	4	13	24					0.2%	0.0%	0.1%		0.1%
INBF	4	SF						5	15	16	45					0.0%	0.1%	0.0%	0.1%	0.0%
INBF	4	MO			2	46		9	4		61			0.1%	0.2%		0.2%	0.1%		0.1%
Total			15		2	51	18	42	36	9	172	0.1%		0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Release																				
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total
TRKF	4	NO	112				81	84	69		347	6.2%				40.5%	14.0%	0.9%		2.3%
TRKF	4	CO							145		145							1.4%		0.8%
TRKF	4	KO		38			47	79			164		4.2%			9.5%	3.2%			2.4%
TRKF	4	KC						60			60						1.2%			0.4%
TRKF	4	FB				243	615	360	497	39	1,753				9.7%	15.4%	4.2%	4.3%	0.9%	5.5%
TRKF	4	SF	47				220	487	889	172	1,815	0.7%				1.7%	2.7%	2.6%	1.3%	1.9%
TRKF	4	MO			244	934	271	229	158		1,836			8.7%	3.1%	5.6%	6.0%	2.9%		3.8%
Total			159	38	244	1,177	1,234	1,299	1,759	211	6,120	1.4%	0.6%	8.0%	3.1%	4.9%	3.0%	2.5%	0.6%	2.7%
Release																				
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total
FRHS	4	NO						17	11		28						0.4%	0.1%		0.2%
FRHS	4	CO									23	7.7%								0.3%
FRHS	4	KO	23								23									0.2%
FRHS	4	KC	28								28	1.9%								0.2%
FRHS	4	FB				25	186	124	37		372				1.0%	4.7%	1.4%	0.3%		1.2%
FRHS	4	SF					44	200	189		432					0.3%	1.1%	0.6%		0.5%
FRHS	4	MO			49	324	55	24			452			1.7%	1.1%	1.1%	0.6%			0.9%
Total			51		49	349	285	365	237		1,335	0.5%		1.6%	0.9%	1.1%	0.8%	0.3%		0.6%
Release																				
Group	Age	Port	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total
XHAF	4	NO																		
XHAF	4	CO																		
XHAF	4	KO		5							5		0.5%							0.1%
XHAF	4	KC																		
XHAF	4	FB																		
XHAF	4	SF																		
XHAF	4	MO						5			5						0.12%			0.0%
Total				5				5			9			0.1%			0.0%			0.0%

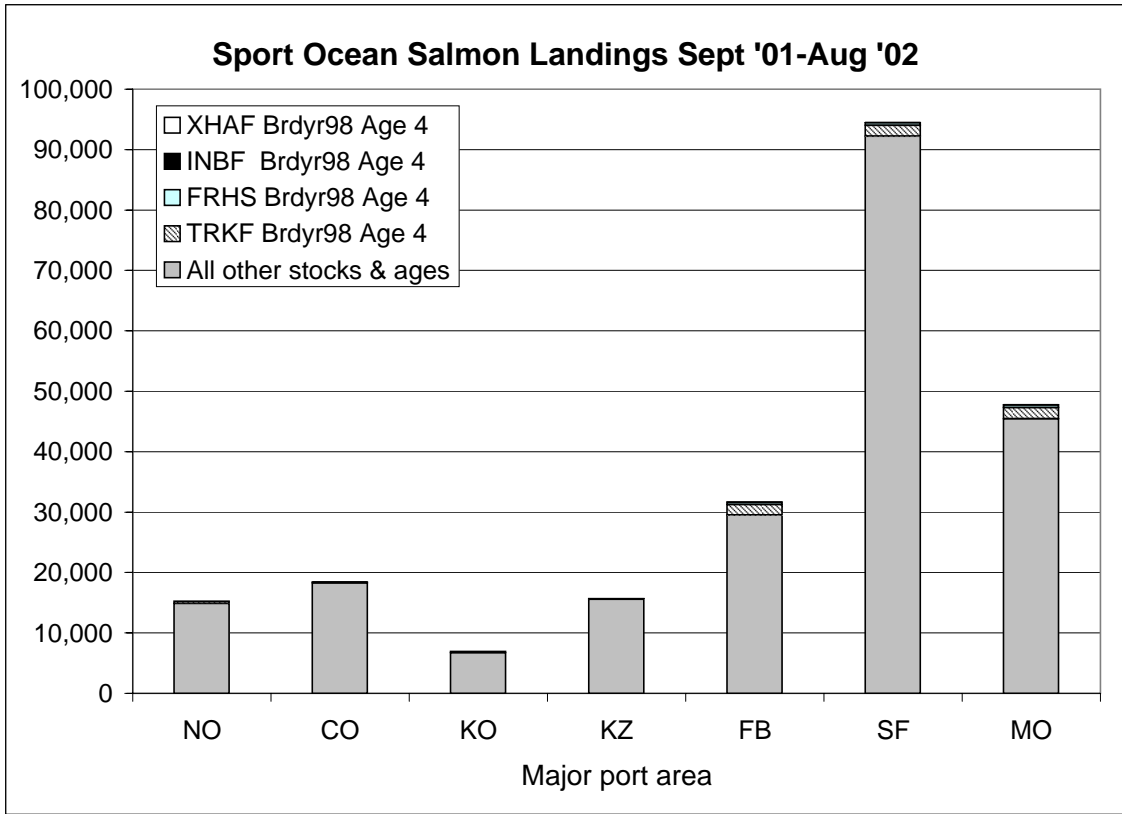
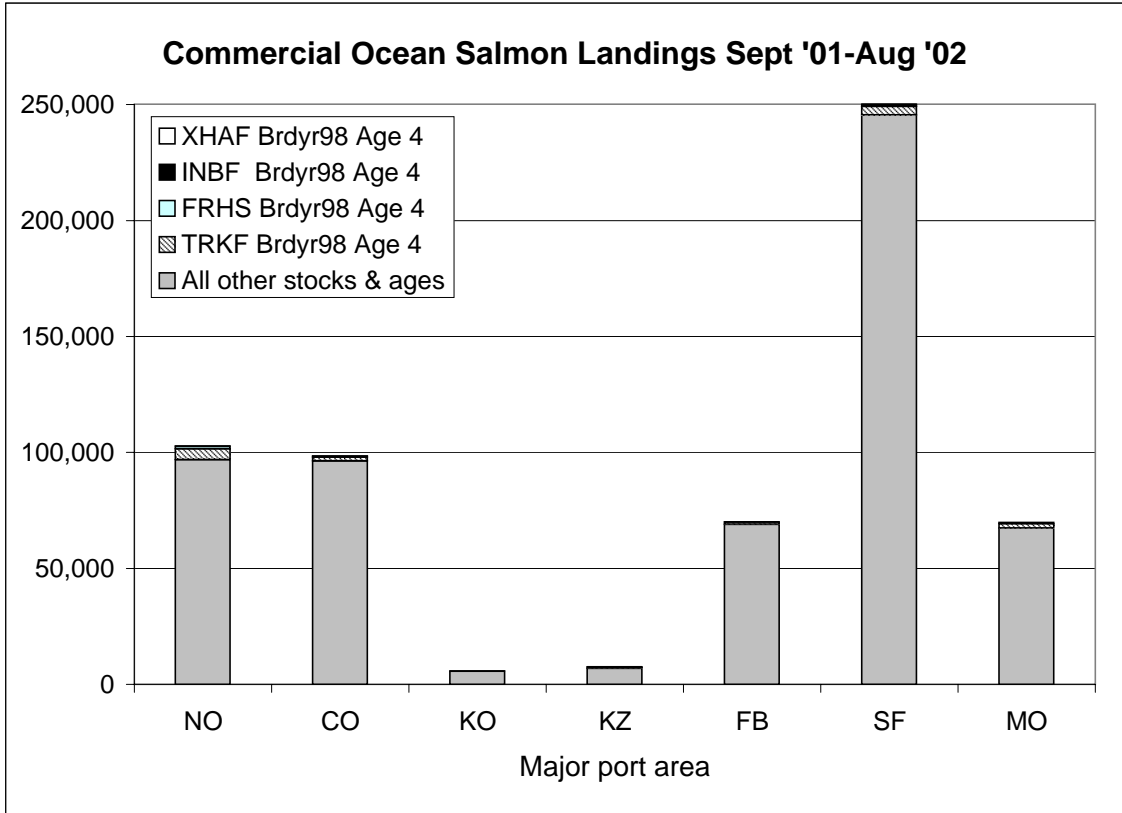
Total all releases 7,637

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total		
NO (north of Falcon)	1,800	650		100	200	600	7,900	4,000	15,250	6.6%				40.5%	14.6%	0.9%		2.3%		
CO (Coos Bay)	300	50		100	200	4,800	10,200	2,800	18,450				5.1%		0.4%	1.6%		1.0%		
KO (KMZ Oregon)	300	900				500	2,500	50	6,950	8.7%	4.7%			9.5%	3.4%			2.9%		
KC (KMZ California)	1,500				2,500	5,200	600	5,900	15,700	2.2%				0.2%	1.2%			0.7%		
FB (Fort Bragg)	400	100	250	2,500	4,000	8,600	11,600	4,200	31,650				10.7%	20.2%	5.7%	4.7%	0.9%	6.8%		
SF (San Francisco)	6,600	4,300		5,000	13,200	18,000	34,300	13,100	94,500	0.7%				2.0%	3.9%	3.2%	1.4%	2.4%		
MO (Monterey)	100		2,800	30,300	4,800	3,800	5,400	600	47,800			10.5%	4.3%	6.8%	7.0%	3.0%		4.9%		
Total			11,000	6,000	3,050	38,000	25,400	43,500	70,050	33,300	230,300	2.0%	0.7%	9.7%	4.1%	6.0%	3.9%	2.9%	0.7%	3.3%

Contribution of Brdyr '98 Age 4 FRH salmon to Commercial & Sport Fisheries Sept 01 through Aug 02





Appendix 4g. Contribution of age 5 FRH fall & spring chinook (brood year 1998) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries									
			Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	
INBF	5	NO	2								2	0.0%								0.00%	
INBF	5	CO																			
INBF	5	KO																			
INBF	5	KC																			
INBF	5	FB																			
INBF	5	SF																			
INBF	5	MO																			
Total			2								2	0.0%									0.00%

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries									
			Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	
TRKF	5	NO	59	61							121	0.1%	0.1%								0.06%
TRKF	5	CO																			
TRKF	5	KO																			
TRKF	5	KC	27								27	0.3%									0.26%
TRKF	5	FB																			
TRKF	5	SF																			
TRKF	5	MO																			
Total			87	61							148	0.1%	0.1%								0.02%

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries									
			Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	
FRHS	5	NO	16								16	0.0%									0.01%
FRHS	5	CO																			
FRHS	5	KO																			
FRHS	5	KC																			
FRHS	5	FB																			
FRHS	5	SF																			
FRHS	5	MO																			
Total			16								16	0.0%									0.00%

Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									FRH '98 brood year chinook recoveries									
			Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	
XHAF	5	NO					3				3				0.0%						0.00%
XHAF	5	CO																			
XHAF	5	KO																			
XHAF	5	KC																			
XHAF	5	FB																			
XHAF	5	SF																			
XHAF	5	MO																			
Total							3				3				0.0%						0.00%

Total all releases 169

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total
NO (north of Falcon)	41,900	66,610	1,000	9,000	38,700	23,900	13,900	23,600	218,610	0.1%	0.1%			0.0%				0.06%
CO - Coos Bay	16,900	17,970	2,200	49,900	34,800	7,900	5,600	13,100	148,270									
KO- KMZ Oregon	1,300	2,800	50	100	600	500	1,100	1,100	7,500									
KC- KMZ CA	10,600								10,600	0.3%								0.26%
FB (Fort Bragg)	5,900				31,100		70,500	84,300	190,500									
SF (San Francisco)	7,400	500			31,100	94,700	39,400	26,000	199,500									
MO (Monterey)	100				11,000	9,500	13,700	800	35,200									
Total	84,100	87,880	3,250	59,000	147,300	136,500	144,200	148,900	810,180	0.1%	0.1%			0.0%				0.02%

Appendix 5a. Contribution of age 2 FRH fall & spring chinook (brood year 1999) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release Group	Age	Major Port	FRH '99 brood year chinook recoveries									FRH '99 brood year chinook recoveries											
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total			
INBF	2	NO																					
INBF	2	CO																					
INBF	2	KO																					
INBF	2	KC																					
INBF	2	FB																					
INBF	2	SF																					
INBF	2	MO																					
		Total																					
TRKF	2	NO																					
TRKF	2	CO																					
TRKF	2	KO																					
TRKF	2	KC																					
TRKF	2	FB																					
TRKF	2	SF								69		69						0.1%		0.0%			
TRKF	2	MO																					
		Total								69		69						0.1%		0.0%			
FRHS	2	NO																					
FRHS	2	CO																					
FRHS	2	KO																					
FRHS	2	KC																					
FRHS	2	FB																					
FRHS	2	SF																					
FRHS	2	MO																					
		Total																					
XHAF	2	Total																					
TRKY	2	NO																					
TRKY	2	CO																					
TRKY	2	KO																					
TRKY	2	KZ																					
TRKY	2	FB																					
TRKY	2	SF								5		5						0.0%		0.0%			
TRKY	2	MO																					
		Total								5		5						0.0%		0.0%			
Total all releases																							
74																							

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total		
NO (north of Falcon)	16,450	8,950		9,300	46,700	34,500	24,200	48,300	188,400											
CO (Coos Bay)	13,900	5,200		9,200	14,300	10,100	14,200	13,200	80,100											
KO (KMZ Oregon)	1,200	900			200	400		1,300	4,000											
KC (KMZ California)	2,100								2,100											
FB (Fort Bragg)	30,700				4,300				35,000											
SF (San Francisco)	29,000				38,700	8,100	60,700	14,100	150,600									0.1%		0.0%
MO (Monterey)					30,000	3,400	2,400	100	35,900											
Total	93,350	15,050		18,500	134,200	56,500	101,500	77,000	496,100									0.1%		0.0%

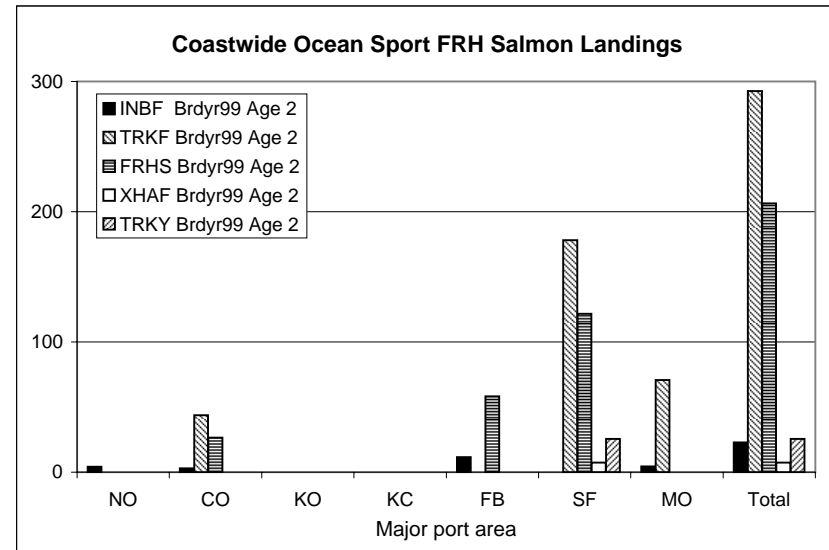
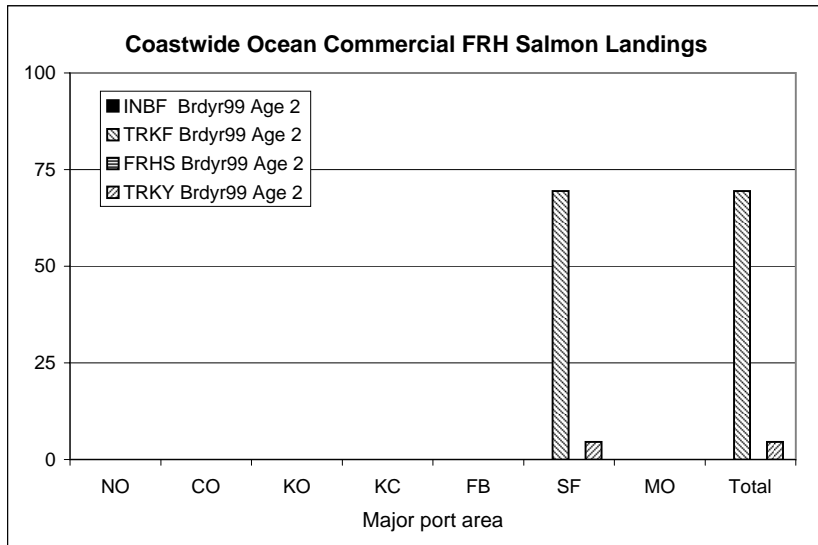
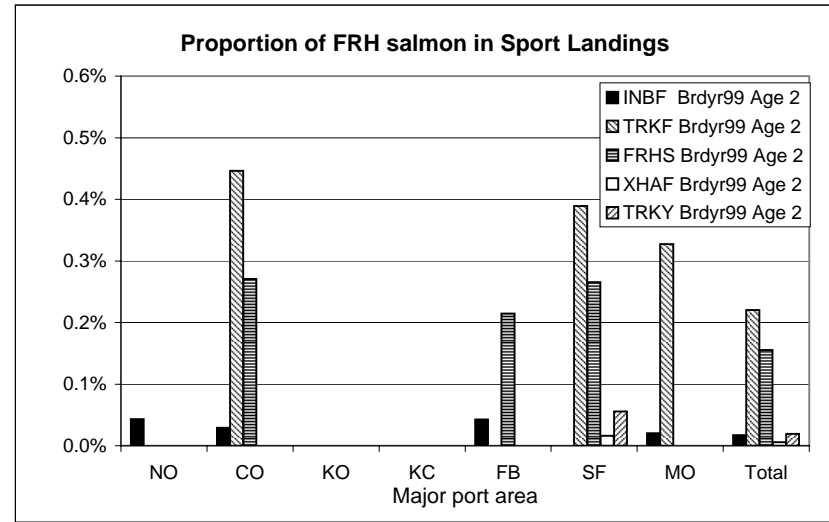
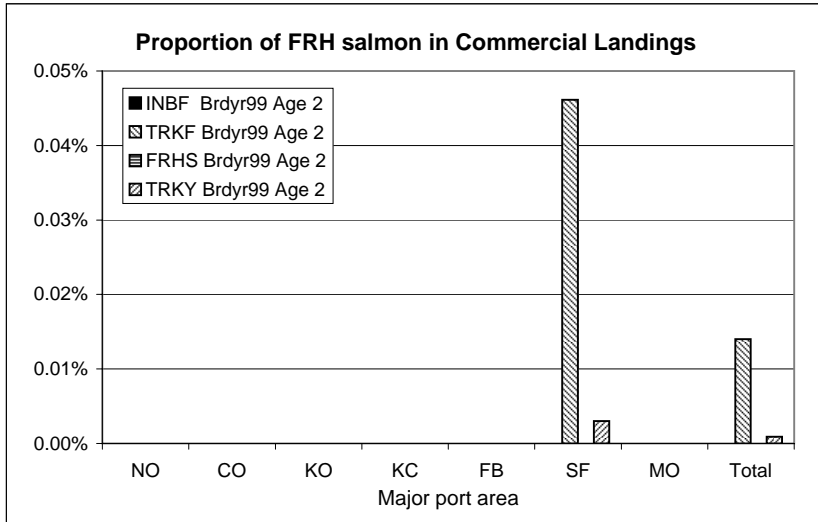
Appendix 5b. Contribution of age 2 FRH fall & spring chinook (brood year 1999) to ocean salmon SPORT fishery by release group, time, and port area.

Release Group	Age	Major Port	FRH '99 brood year chinook recoveries									FRH '99 brood year chinook recoveries												
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total				
INBF	2	NO								4	4									0.1%	0.0%			
INBF	2	CO							3		3									0.1%	0.0%			
INBF	2	KO																						
INBF	2	KC																						
INBF	2	FB							4	8	12									0.0%	0.1%	0.0%		
INBF	2	SF																						
INBF	2	MO							4		4									0.3%	0.0%			
		Total							11	12	23									0.0%	0.1%	0.0%		
TRKF	2	NO																						
TRKF	2	CO							44		44									0.8%		0.4%		
TRKF	2	KO																						
TRKF	2	KC																						
TRKF	2	FB																						
TRKF	2	SF								178	178									2.7%	0.4%			
TRKF	2	MO						71		71										0.5%	0.3%			
		Total						71	44	178	293									0.4%	0.1%	0.7%	0.2%	
FRHS	2	NO																						
FRHS	2	CO								27	27										1.2%	0.3%		
FRHS	2	KO																						
FRHS	2	KC																						
FRHS	2	FB						31		27	58									0.5%	0.5%	0.2%		
FRHS	2	SF							26	96	122									0.2%	1.4%	0.3%		
FRHS	2	MO																						
		Total						31	26	150	206									0.2%	0.1%	0.6%	0.2%	
XHAF	2	NO																						
XHAF	2	CO																						
XHAF	2	KO																						
XHAF	2	KC																						
XHAF	2	FB																						
XHAF	2	SF							7		7									0.07%		0.0%		
XHAF	2	MO																						
		Total							7		7									0.0%		0.0%		
TRKY	2	NO																						
TRKY	2	CO																						
TRKY	2	KO																						
TRKY	2	KZ																						
TRKY	2	FB																						
TRKY	2	SF							15	11	25									0.1%	0.2%	0.1%		
TRKY	2	MO																						
		Total							15	11	25									0.0%	0.0%	0.0%		
Total all releases											555											0.0%	0.0%	0.0%

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total			
NO (north of Falcon)	800	600		50	200	600	3,200	4,000	9,450										0.1%	0.0%	
CO (Coos Bay)	500	100				1,400	5,500	2,200	9,800										0.8%	1.2%	0.7%
KO (KMZ Oregon)	500	800			800	1,000	1,200	3,000	7,300												
KC (KMZ California)	600				1,900	4,200	2,600	2,500	11,800												
FB (Fort Bragg)	1,300	50	550	500	2,700	6,300	10,400	5,300	27,100						0.5%	0.0%	0.7%		0.3%	0.7%	
SF (San Francisco)	8,100	8,700		3,300	6,200	1,600	11,200	6,700	45,800							0.3%	4.1%		0.3%	4.1%	0.7%
MO (Monterey)	1,700		800	14,200	3,000	200	1,600	100	21,600				0.5%			0.3%			0.3%		0.3%
Total	13,500	10,250	1,350	18,050	14,900	15,300	35,700	23,800	132,850				0.4%		0.2%	0.2%	1.4%		0.4%		0.4%

Contribution of Brdyr '99 Age 2 FRH salmon to Commercial & Sport Fisheries Sept 00 through Aug 01



Appendix 5c. Contribution of age 3 FRH fall & spring chinook (brood year 1999) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release Group	Age	Major Port	FRH '99 brood year chinook recoveries									FRH '99 brood year chinook recoveries										
			Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total		
INBF	3	NO		28			8	15	29	17	25	123		0.2%		0.2%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%
INBF	3	CO					3	23	161	7	12	205				0.0%	0.2%	0.3%	0.1%	0.1%	0.1%	0.2%
INBF	3	KO								2		2								0.1%		0.0%
INBF	3	KC									1	1									0.1%	0.0%
INBF	3	FB								46	60	106							0.2%	0.1%	0.1%	0.2%
INBF	3	SF						210	101	153	18	482					0.3%	0.1%	0.2%	0.1%	0.1%	0.2%
INBF	3	MO						76	154	43		273					0.4%	0.6%	0.2%			0.4%
		Total		28			11	325	445	267	116	1,192		0.1%		0.1%	0.3%	0.3%	0.2%	0.1%		0.2%
TRKF	3	NO						324	198	661	871	2,054				2.2%	1.3%	6.0%	5.0%			2.0%
TRKF	3	CO						180	735		217	1,133				1.8%	1.5%			1.4%		1.1%
TRKF	3	KO								71	22	93							4.8%	1.7%		1.6%
TRKF	3	KC	29									29	0.5%									0.4%
TRKF	3	FB								385	621	1,006							2.1%	1.5%		1.4%
TRKF	3	SF						2,402	754	1,509		4,666					3.7%	1.1%	1.7%			1.9%
TRKF	3	MO						1,257	1,190	448		2,896					5.8%	4.9%	2.1%			4.1%
		Total	29					4,164	2,878	3,075	1,730	11,876	0.0%			3.8%	1.8%	2.1%	1.9%			2.0%
FRHS	3	NO	15	157				164	210	203	416	1,166	0.1%	1.4%			1.1%	1.4%	1.8%	2.4%		1.1%
FRHS	3	CO					62	110	893	45	52	1,162				1.0%	1.1%	1.9%	0.8%	0.3%		1.2%
FRHS	3	KO	19							32		51	1.9%						2.2%			0.9%
FRHS	3	KC									34	34									1.6%	0.4%
FRHS	3	FB								561	741	1,301							3.0%	1.8%		1.9%
FRHS	3	SF						1,799	995	2,221	48	5,064					2.8%	1.4%	2.5%	0.4%		2.0%
FRHS	3	MO						945	1,168	389		2,502					4.4%	4.8%	1.8%			3.6%
		Total	34	157			62	3,019	3,265	3,452	1,291	11,280	0.1%	0.8%		0.6%	2.7%	2.1%	2.4%	1.4%		1.9%
XHAF	3	NO									2	2									0.0%	0.0%
XHAF	3	CO						7	3			10				0.1%	0.0%					0.0%
XHAF	3	KO																				0.0%
XHAF	3	KC									1	1									0.1%	0.0%
XHAF	3	FB								3		3									0.0%	0.0%
XHAF	3	SF						29		11		40					0.0%		0.0%			0.0%
XHAF	3	MO						11	20	6		37					0.1%	0.1%	0.0%			0.1%
		Total						47	24	20	3	93					0.0%	0.0%	0.0%	0.0%		0.0%
TRKY	3	NO						23	5	14	9	51					0.2%	0.0%	0.1%	0.1%		0.0%
TRKY	3	CO					3	8	43		5	59				0.0%	0.1%	0.1%		0.0%		0.1%
TRKY	3	KO					1				1	3					1.4%			0.1%		0.0%
TRKY	3	KC									1	1									0.1%	0.0%
TRKY	3	FB								32	55	87								0.2%	0.1%	0.1%
TRKY	3	SF						103	55	144	21	323					0.2%	0.1%	0.2%	0.2%		0.1%
TRKY	3	MO						83	86	18		186					0.4%	0.4%	0.1%			0.3%
		Total					3	218	189	208	92	710					0.0%	0.2%	0.1%	0.1%	0.1%	0.1%

Total all releases 25,151

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total	Sept 01	Oct 01	Mar 02	Apr 02	May 02	Jun 02	July 02	Aug 02	Total
NO (north of Falcon)	24,700	11,450	4,100	4,400	14,400	15,300	11,000	17,500	102,850	0.1%	1.6%		0.2%	3.5%	2.9%	8.0%	7.5%	3.3%
CO (Coos Bay)	6,200	5,050	2,600	6,200	9,900	47,800	5,500	15,300	98,550				1.0%	3.2%	3.8%	0.9%	1.8%	2.5%
KO (KMZ Oregon)	1,000	700	50	100	100	1,000	1,500	1,300	5,750	1.9%						7.0%	1.7%	2.5%
KC (KMZ California)	5,500							2,100	7,600	0.5%							1.7%	0.9%
FB (Fort Bragg)	10,700						18,600	40,800	70,100							5.3%	3.5%	3.4%
SF (San Francisco)	11,400	3,700			64,600	68,800	88,100	13,600	250,200					6.9%	2.7%	4.4%	0.5%	4.1%
MO (Monterey)	50				21,600	24,400	21,300	2,500	69,850					10.6%	10.4%	4.2%		8.2%
Total	59,550	20,900	6,750	10,700	110,600	157,300	146,000	93,100	604,900	0.1%	0.9%		0.7%	6.8%	4.2%	4.7%	3.4%	4.0%

Appendix 5d. Contribution of age 3 FRH fall & spring chinook (brood year 1999) to ocean salmon SPORT fishery by release group, time, and port area.

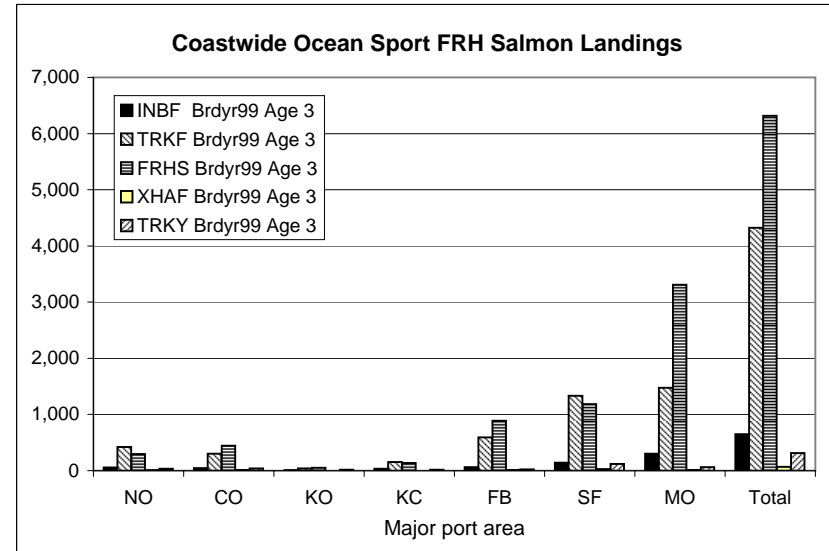
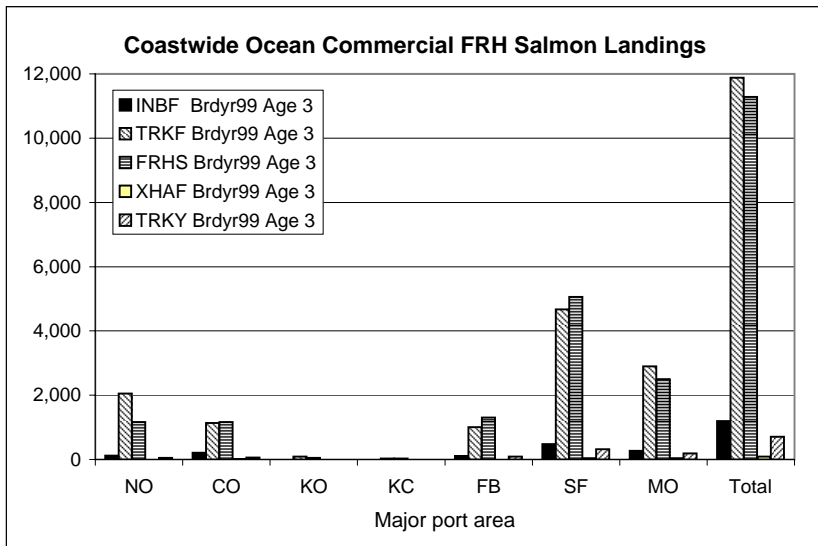
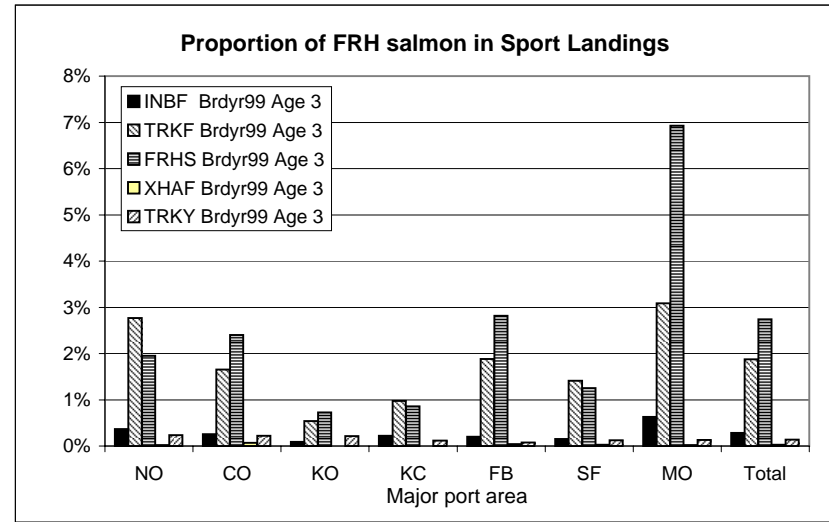
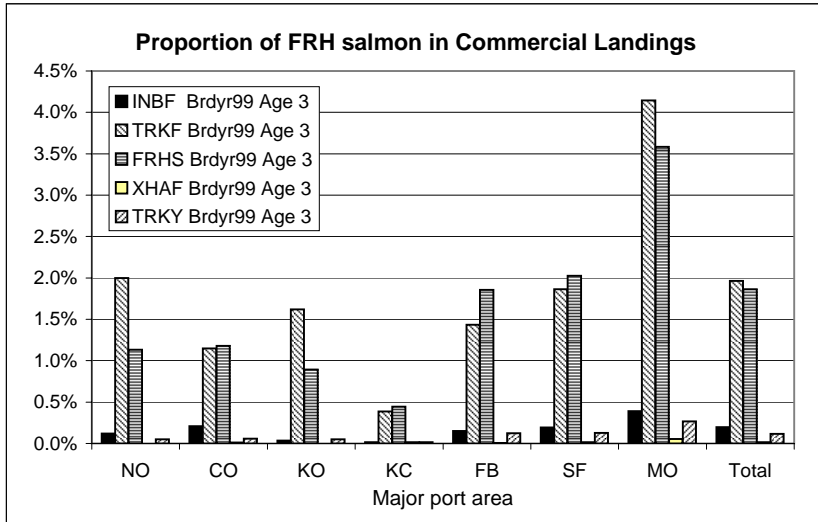
Release Group	Major Age	Port	FRH '98 brood year chinook recoveries									Total	FRH '98 brood year chinook recoveries												
			Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Sept 00		Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total					
INBF	3	NO							12	38	7	56									1.9%	0.5%	0.2%	0.4%	
INBF	3	CO					5		16	21	5	47				5.1%					0.3%	0.2%	0.2%	0.3%	
INBF	3	KO						6				6									1.2%			0.1%	
INBF	3	KC							16	14	4	34									0.7%	0.3%	0.7%	0.2%	
INBF	3	FB					4		27	9	17	64									0.2%	0.7%	0.1%	0.2%	
INBF	3	SF	4	3			6		17	19	88	144	0.1%	0.1%							0.1%	0.1%	0.3%	0.2%	
INBF	3	MO			16	203	12	57	11			299				0.6%	0.7%	0.3%	1.5%	0.2%				0.6%	
		Total	4	3	16	218	78	125	178	28		651	0.0%	0.1%	0.5%	0.6%	0.3%	0.3%	0.3%	0.1%				0.3%	
TRKF	3	NO							88	241	93	422									14.6%	3.1%	2.3%	2.8%	
TRKF	3	CO							91	163	51	305									1.9%	1.6%	1.8%	1.7%	
TRKF	3	KO									37	37											1.4%	0.5%	
TRKF	3	KC						84	69			153									3.3%	1.3%		1.0%	
TRKF	3	FB						59	131	194	211	595									1.5%	1.5%	1.7%	1.9%	
TRKF	3	SF		52			461	125	630	66	1,334		1.2%							3.5%	0.7%	1.8%	0.5%		
TRKF	3	MO			135	879	78	328	56		1,477				4.8%	2.9%	1.6%	8.6%	1.0%					3.1%	
		Total		52	135	879	683	832	1,285	458	4,323		0.9%	4.4%	2.3%	2.7%	1.9%	1.8%	1.4%					1.9%	
FRHS	3	NO							68	176	54	298									11.3%	2.2%	1.3%	2.0%	
FRHS	3	CO							165	226	53	444									3.4%	2.2%	1.9%	2.4%	
FRHS	3	KO						30	21			51									6.0%	0.8%		0.7%	
FRHS	3	KC						38	64		34	135									1.5%	1.2%		0.9%	
FRHS	3	FB			26	156	134	252	292	32	891				10.3%	6.2%	3.3%	2.9%	2.5%	0.8%				2.8%	
FRHS	3	SF	49			145	438	183	371		1,187	0.7%			2.9%	3.3%	1.0%	1.1%						1.3%	
FRHS	3	MO	35		414	2,375	192	294			3,311	35.3%			14.8%	7.8%	4.0%	7.7%						6.9%	
		Total	85		439	2,677	831	1,047	1,064	172	6,316	0.8%			14.4%	7.0%	3.3%	2.4%	1.5%	0.5%				2.7%	
XHAF	3	NO						3			3	3									0.5%			0.0%	
XHAF	3	CO							7	6	13	13										0.1%	0.2%	0.1%	
XHAF	3	KO																							
XHAF	3	KC																							
XHAF	3	FB						4	8		12	12									0.0%	0.1%		0.0%	
XHAF	3	SF				8		4	18		29	29					0.16%				0.02%	0.05%		0.0%	
XHAF	3	MO				10					10	10					0.03%							0.0%	
		Total				18		11	33	6	67	67					0.0%				0.0%	0.0%	0.0%	0.0%	
TRKY	3	NO	2					6	23	6	36	36	0.1%								1.0%	0.3%	0.1%	0.2%	
TRKY	3	CO						15	15	11	41	41										0.3%	0.1%	0.4%	0.2%
TRKY	3	KO					4	6		5	15	15									0.9%	0.2%	0.2%	0.2%	
TRKY	3	KC						9	4	5	18	18										0.2%	0.7%	0.1%	0.1%
TRKY	3	FB						4	12	9	25	25									0.1%	0.1%	0.2%	0.1%	
TRKY	3	SF	4	3		7		17	15	55	117	117	0.1%	0.1%			0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	
TRKY	3	MO			2	45	9	9			64	64				0.1%	0.1%	0.2%	0.2%					0.1%	
		Total	5	3	2	52	34	71	97	53	316	316	0.1%	0.1%			1.0%	0.3%	0.4%	0.3%	0.4%			0.1%	

Total all releases 11,672

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total	Sept 00	Oct 00	Mar 01	Apr 01	May 01	Jun 01	July 01	Aug 01	Total				
NO (north of Falcon)	1,800	650		100	200	600	7,900	4,000	15,250										28.3%	5.8%	3.9%	5.1%
CO (Coos Bay)	300	50		100	200	4,800	10,200	2,800	18,450				5.1%		5.7%	4.1%	4.1%				4.1%	4.4%
KO (KMZ Oregon)	300	900				500	2,500	50	6,950						7.2%						1.4%	1.4%
KC (KMZ California)	1,500				2,500	5,200	600	5,900	15,700						5.5%	2.8%	0.7%				0.6%	2.1%
FB (Fort Bragg)	400	100	250	2,500	4,000	8,600	11,600	4,200	31,650			10.3%	6.4%	5.5%	4.6%	4.4%	6.0%				6.0%	4.9%
SF (San Francisco)	6,600	4,300		5,000	13,200	18,000	34,300	13,100	94,500	0.8%	1.3%		3.2%	6.9%	1.8%	3.2%	0.6%				0.6%	2.9%
MO (Monterey)	100		2,800	30,300	4,800	3,800	5,400	600	47,800	35.3%		20.2%	11.4%	5.9%	17.9%	1.2%						10.7%
Total	11,000	6,000	3,050	38,000	25,400	43,500	70,050	33,300	230,300	0.8%	0.9%	19.4%	10.0%	6.3%	4.6%	3.7%	2.0%					4.9%

Contribution of Brdyr '99 Age 3 FRH salmon to Commercial & Sport Fisheries Sept 01 through Aug 02



Appendix 5e. Contribution of age 4 FRH fall & spring chinook (brood year 1999) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release Group	Major Age	Port	FRH '99 brood year chinook recoveries								FRH '99 brood year chinook recoveries									
			Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total	Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total
INBF	4	NO	180	177		4	43	16		17	437	0.4%	0.3%		0.0%	0.1%	0.1%		0.1%	0.2%
INBF	4	CO	28	10	5	24	30	4			101	0.2%	0.1%	0.2%	0.0%	0.1%	0.1%			0.1%
INBF	4	KO																		
INBF	4	KC	12								12	0.1%								0.1%
INBF	4	FB					41			11	53				0.1%		0.0%			0.0%
INBF	4	SF	9				39	20		8	75	0.1%			0.1%	0.0%	0.0%			0.0%
INBF	4	MO					3	66			69				0.0%	0.7%				0.2%
		Total	228	187	5	28	156	106	19	17	747	0.3%	0.2%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.1%
TRKF	4	NO	1888	1799		112	366	110			4,275	4.5%	2.7%		1.2%	0.8%	0.4%			1.9%
TRKF	4	CO	294	170		409	131	65			1,070	1.7%	0.9%		0.8%	0.4%	0.8%			0.7%
TRKF	4	KO																		
TRKF	4	KC	69								69	0.6%								0.6%
TRKF	4	FB					463			175	714				1.5%		0.2%	0.1%		0.4%
TRKF	4	SF					459	350		62	925				1.5%	0.4%	0.2%	0.2%		0.5%
TRKF	4	MO					52	527			579				0.5%	5.5%				1.7%
		Total	2,251	1,969		521	1,472	1,052	237	130	7,632	2.7%	2.2%		0.9%	1.0%	0.8%	0.2%	0.1%	0.9%
FRHS	4	NO	1452	1493	58		36	61	33	63	3,195	3.5%	2.2%	5.8%		0.1%	0.2%	0.2%	0.2%	1.4%
FRHS	4	CO	183	100	36	88	210	74			690	1.1%	0.6%	1.6%	0.2%	0.6%	0.9%			0.5%
FRHS	4	KO	19								19	1.5%								0.2%
FRHS	4	KC	226								226	2.1%								2.1%
FRHS	4	FB					346			34	380				1.1%			0.0%		0.2%
FRHS	4	SF					415	46	28		488				1.3%	0.0%	0.1%			0.2%
FRHS	4	MO					95	299			394				0.9%	3.2%				1.1%
		Total	1,880	1,593	94	88	1,101	479	61	97	5,392	2.2%	1.8%	2.9%	0.1%	0.7%	0.3%	0.0%	0.1%	0.7%
XHAF	4	NO	6	2				1			9	0.0%	0.0%				0.0%			0.0%
XHAF	4	CO				9	3	3			15				0.0%	0.0%	0.0%			0.0%
XHAF	4	KO																		
XHAF	4	KC																		
XHAF	4	FB					9				9				0.0%					0.0%
XHAF	4	SF					5				5				0.0%					0.0%
XHAF	4	MO					3	3	6		13				0.0%	0.0%	0.0%			0.0%
		Total	6	2		9	20	7	6		50	0.0%	0.0%		0.0%	0.0%	0.0%			0.0%
TRKY	4	NO	73	119			26	1	8	3	228	0.2%	0.2%		0.1%	0.0%	0.1%	0.0%		0.1%
TRKY	4	CO	13	10		38	33	9			103	0.1%	0.1%		0.1%	0.1%	0.1%			0.1%
TRKY	4	KO					2			7	9				0.3%			0.6%		0.1%
TRKY	4	KC	8								8	0.1%								0.1%
TRKY	4	FB	9				35		53	11	107	0.1%			0.1%		0.1%	0.0%		0.1%
TRKY	4	SF					31	20	13	5	68				0.1%	0.0%	0.0%	0.0%		0.0%
TRKY	4	MO					10	50			60				0.1%	0.5%				0.2%
		Total	102	129		38	136	80	73	25	583	0.1%	0.1%		0.1%	0.1%	0.1%	0.1%	0.0%	0.1%

Total all releases 14,404

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total	Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total
NO (north of Falcon)	41,900	66,650	1,000	9,000	43,700	25,100	15,200	26,000	228,550	8.4%	5.2%	5.8%	1.3%	1.0%	0.7%	0.2%	0.3%	3.5%
CO (Coos Bay)	16,900	17,970	2,200	49,900	34,800	7,900	5,600	13,100	148,370	3.0%	1.6%	1.9%	1.1%	1.1%	1.9%			1.3%
KO (KMZ Oregon)	1,300	2,800	50	100	600	500	1,100	1,100	7,550	1.5%								0.2%
KC (KMZ California)	10,600								10,600	2.9%								2.9%
FB (Fort Bragg)	5,900				31,100		70,500	84,300	191,800					2.8%		0.3%	0.1%	0.6%
SF (San Francisco)	7,400	500			31,100	94,700	39,400	26,000	199,100	0.1%				2.9%	0.4%	0.2%	0.2%	0.8%
MO (Monterey)	100				11,000	9,500	13,700	800	35,100					1.4%	9.4%	0.0%		3.0%
Total	84,100	87,920	3,250	59,000	152,300	137,700	145,500	151,300	821,070	5.2%	4.3%	3.1%	1.1%	1.8%	1.2%	0.2%	0.2%	1.7%

Appendix 5f. Contribution of age 4 FRH fall & spring chinook (brood year 1999) to ocean salmon SPORT fishery by release group, time, and port area.

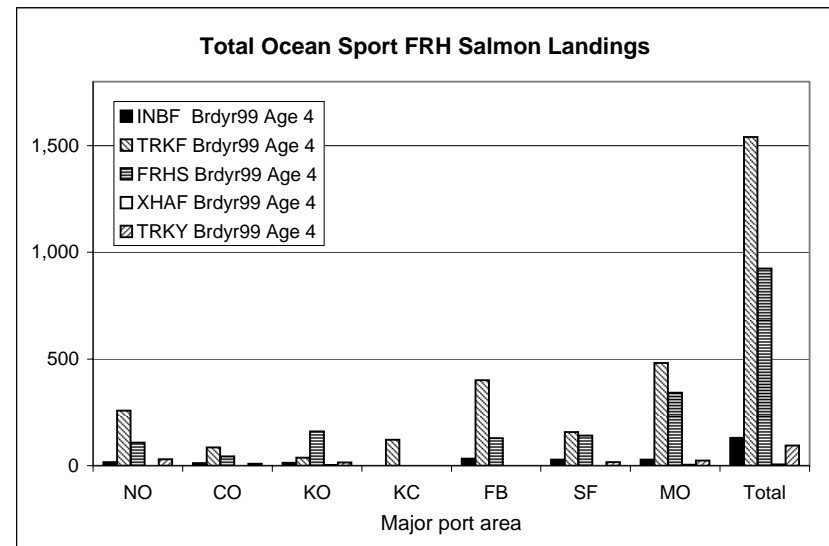
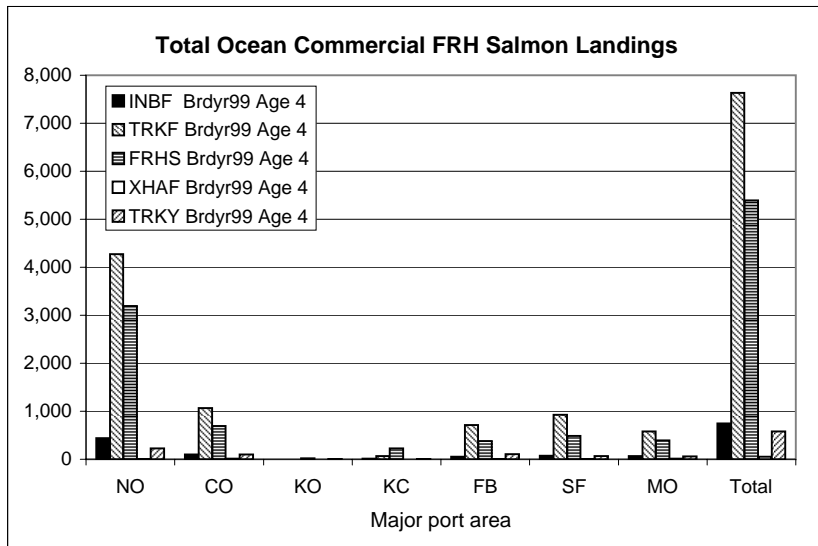
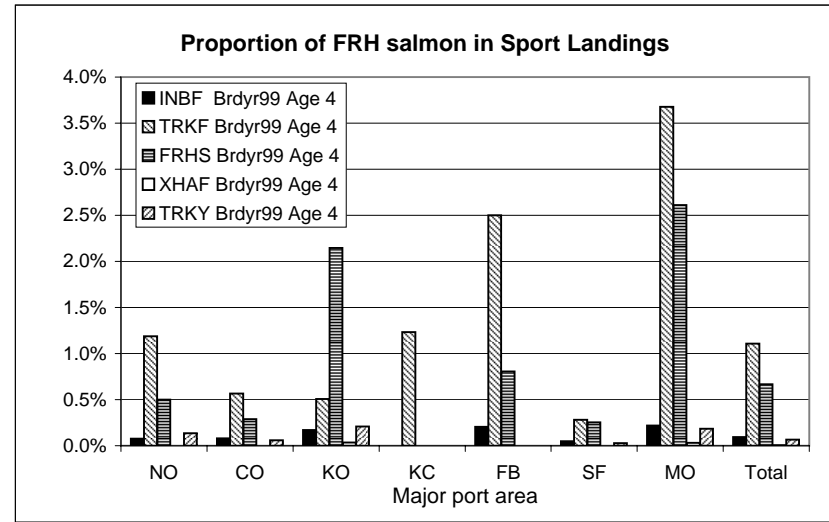
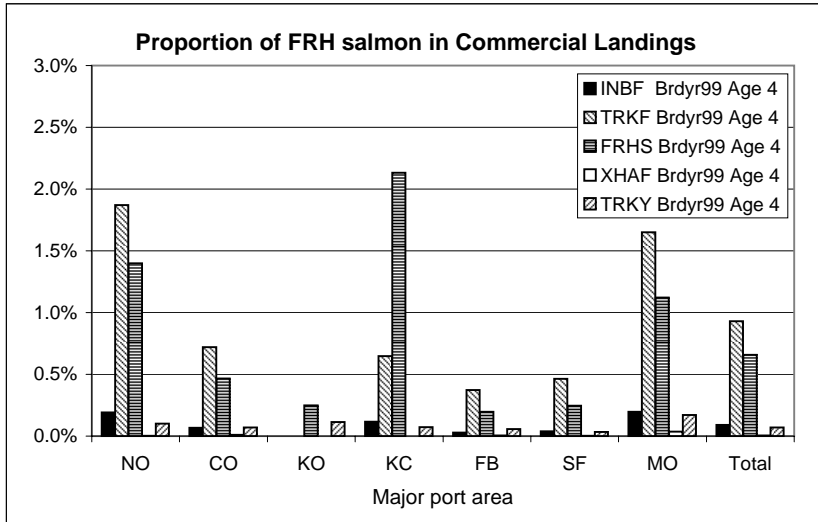
Release Group	Major Age	Port	FRH '99 brood year chinook recoveries									Total	FRH '99 brood year chinook recoveries									Total
			Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Sept 02		Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03			
INBF	4	NO	6	5			2		4		17	0.2%	0.2%			0.9%		0.0%		0.1%		
INBF	4	CO	10	2							12	0.8%	2.4%							0.1%		
INBF	4	KO	13								13	0.3%								0.2%		
INBF	4	KC																				
INBF	4	FB			6			11	4	12	33			0.5%		0.9%	0.1%	0.2%		0.2%		
INBF	4	SF					9	4	15	28					0.1%	0.0%	0.1%			0.1%		
INBF	4	MO				24		5		29					0.5%	0.6%				0.2%		
		Total	29	7	6	24	22	12	31	131		0.2%	0.2%	0.1%	0.2%	0.1%	0.1%	0.1%		0.1%		
TRKF	4	NO	45	153					60	258		1.6%	6.1%					0.7%		1.2%		
TRKF	4	CO	68			17				85		5.7%			33.4%					0.6%		
TRKF	4	KO	38							38		1.0%								0.5%		
TRKF	4	KC	121							121		6.4%								1.2%		
TRKF	4	FB			89			120	124	67	400			7.4%		2.4%	1.9%	4.8%		2.5%		
TRKF	4	SF					94		63	157					1.0%		0.3%			0.3%		
TRKF	4	MO			162	320				482				5.2%	7.3%					3.7%		
		Total	272	153	251	337	94	120	247	67	1,540		2.1%	4.6%	5.6%	3.5%	0.6%	0.5%	0.5%	0.3%	1.1%	
FRHS	4	NO	66					14		28	109		2.4%				1.0%		0.5%	0.5%		
FRHS	4	CO	43							43		3.6%								0.3%		
FRHS	4	KO	147				14			161		3.8%			3.5%					2.1%		
FRHS	4	KC																				
FRHS	4	FB			23		24	81		129				1.9%		2.0%	1.6%			0.8%		
FRHS	4	SF					84		57	141					0.9%			0.3%		0.3%		
FRHS	4	MO			37	278	28			342				1.2%	6.3%	1.7%				2.6%		
		Total	257		60	278	150	96	57	28	925		2.0%		1.3%	2.9%	1.0%	0.4%	0.1%	0.1%	0.7%	
XHAF	4	NO																				
XHAF	4	CO																				
XHAF	4	KO							3		3							0.2%		0.0%		
XHAF	4	KC																				
XHAF	4	FB																				
XHAF	4	SF																				
XHAF	4	MO							4		4					0.49%				0.0%		
		Total							4	3	7					0.0%	0.0%			0.0%		
TRKY	4	NO	3					5	21		29		0.1%				0.4%	0.2%		0.1%		
TRKY	4	CO	6							3	9		0.5%						0.0%	0.1%		
TRKY	4	FB						12	4		16					3.9%	0.3%			0.2%		
TRKY	4	KO																				
TRKY	4	KC																				
TRKY	4	SF							12	4	16							0.1%	0.1%	0.0%		
TRKY	4	MO			5	15		4			24				0.2%	0.3%		0.5%		0.2%		
		Total	10		5	15		21	37	6	94		0.1%		0.1%	0.2%		0.1%	0.1%	0.0%	0.1%	

Total all releases 2,696

Sport Fishery Ocean Salmon Landings

Major Port Area	Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total	Sept 02	Oct 02	Mar 03	Apr 03	May 03	Jun 03	July 03	Aug 03	Total
NO (north of Falcon)	2,800	2,500	100	100	200	1,400	9,100	5,500	21,700	4.2%	6.3%			0.9%	1.0%	0.7%	0.5%	1.8%
CO (Coos Bay)	1,200	100	50	50	100	1,600	6,500	5,400	15,000	10.1%	2.4%		33.4%					0.9%
KO (KMZ Oregon)	3,900	300			400	300	1,200	1,400	7,500	5.1%				3.5%		0.2%		2.9%
KC (KMZ California)	1,900				2,900	1,800	1,400	1,800	9,800	6.4%								1.2%
FB (Fort Bragg)	200	100	1,200	400	1,200	5,100	6,400	1,400	16,000			9.9%		2.9%	4.0%	2.1%	4.8%	3.5%
SF (San Francisco)	3,100	360		4,700	9,400	13,200	20,000	5,100	55,800					2.0%	0.0%	0.7%		0.6%
MO (Monterey)	50		3,100	4,400	1,600	800	3,100	50	13,100			6.4%	14.1%	1.7%	1.1%			6.5%
Total	13,150	3,360	4,450	9,650	15,800	24,200	47,700	20,650	138,960	4.2%	4.8%	7.1%	6.6%	1.7%	1.0%	0.7%	0.5%	1.9%

Contribution of Brdyr '99 Age 4 FRH salmon to Commercial & Sport Fisheries Sept 02 through Aug 03



Appendix 5g. Contribution of age 5 FRH fall & spring chinook (brood year 1999) to ocean salmon COMMERCIAL fishery by release group, time, and port area.

Release Group	Age	Major Port	FRH '99 brood year chinook recoveries								Total	FRH '99 brood year chinook recoveries								Total	
			Sept 03	Oct 03	Mar 04	Apr 04	May 04	Jun 04	July 04	Aug 04		Sept 03	Oct 03	Mar 04	Apr 04	May 04	Jun 04	July 04	Aug 04		
INBF	5	NO			5						5			0.0%						0.0%	
INBF	5	CO																			
INBF	5	KO																			
INBF	5	KC																			
INBF	5	FB																			
INBF	5	SF						4			4				0.0%					0.0%	
INBF	5	MO																			
		Total			5			4			8			0.0%		0.0%				0.0%	
TRKF	5	NO	25	79					27		131	0.1%	0.2%					0.3%		0.1%	
TRKF	5	CO						61			61						0.4%			0.0%	
TRKF	5	KO																			
TRKF	5	KC																			
TRKF	5	FB																			
TRKF	5	SF					58				58				0.1%					0.0%	
TRKF	5	MO							64		64						0.2%			0.1%	
		Total	25	79				58	126	27	315	0.0%	0.2%		0.0%	0.1%	0.0%			0.0%	
FRHS	5	NO	31	16			19				66	0.1%	0.0%		0.1%					0.0%	
FRHS	5	CO																			
FRHS	5	KO																			
FRHS	5	KC																			
FRHS	5	FB																			
FRHS	5	SF																			
FRHS	5	MO																			
		Total	31	16			19				66	0.0%	0.0%		0.0%					0.0%	
XHAF	5	Total									0									0.0%	
TRKY	5	NO		5			3				8		0.0%		0.0%					0.0%	
TRKY	5	CO																			
TRKY	5	KO																			
TRKY	5	KC																			
TRKY	5	FB																			
TRKY	5	SF					4				4				0.0%					0.0%	
TRKY	5	MO						4			4				0.0%					0.0%	
		Total		5			3	8			15			0.0%		0.0%				0.0%	
Total all releases											405										

Commercial Fishery Ocean Salmon Landings

Major Port Area	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total	Sep-02	Oct-02	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Total
NO (north of Falcon)	38,900	32,350	13,000	15,300	29,800	7,900	8,400	11,500	157,150	0.1%	0.3%	0.0%	0.0%			0.3%		0.1%
CO - Coos Bay	10,800	7,900	8,000	18,700	7,400	15,000	5,700	84,600	158,100						0.4%			0.0%
KO- KMZ Oregon	1,100	650	50	50	800	2,800	2,300	2,000	9,750									
KC- KMZ CA	2,000								2,000									
FB (Fort Bragg)	62,900						65,300	30,600	158,800									
SF (San Francisco)	9,700	1,900			75,100	127,400	77,200	12,800	304,100					0.1%				0.0%
MO (Monterey)	1,100				22,500	26,700	14,100	1,200	65,600					0.0%	0.2%			0.1%
Total	126,500	42,800	21,050	34,050	135,600	179,800	173,000	142,700	855,500	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%		0.0%

Appendix 6. Recoveries of '98 BY and '99 BY CWTs at FRH and in ocean fisheries by release group, release site, release date, and age.

Release group	Brood year	First release date	Last release date	Release location	cwtcode	Total # CWT tagged	# CWTs recovered (expanded for sampling only)								Total CWT Recoveries			CWT Recovery Rate			RMIS Release Comments
							Age 2 recoveries		Age 3 recoveries		Age 4 recoveries		Age 5 recoveries		Ocean	FRH	Total	Ocean	FRH	Total	
In-basin FRH fall releases (INBF)																					
INBF	1998	19990211		Elkhorn Boat Ramp-Sa	0601060705	26,316		1	27	5		2			29	6	35	0.11%	0.02%	0.13%	
INBF	1998	19990211		Elkhorn Boat Ramp-Sa	0601060706	25,845	3	1	45	8		4			52	9	61	0.20%	0.04%	0.24%	
INBF	1998	19990211		Elkhorn Boat Ramp-Sa	0601060707	26,029	4	2	11	4		3			15	9	24	0.06%	0.03%	0.09%	
INBF	1998	19990211		Elkhorn Boat Ramp-Sa	0601060708	25,692	3	1	35	10		7			46	11	57	0.18%	0.04%	0.22%	
INBF	1999	20000222		Elkhorn Boat Ramp-Sa	0601061107	52,886		1	40	3		7			46	4	50	0.09%	0.01%	0.10%	
INBF	1998	19990302		Isleton-Sac R	0601060403	49,715			5	1		1			5	2	7	0.01%	0.00%	0.01%	
INBF	1998	19990302		Isleton-Sac R	0601060404	50,864				1		8			8	1	9	0.02%	0.00%	0.02%	
INBF	1999	20000215		Isleton-Sac R	0601061005	24,857															
INBF	1999	20000215		Isleton-Sac R	0601061006	26,436							4		4	1	5	0.01%	0.00%	0.02%	
INBF	1999	20000229		Isleton-Sac R	0501020809	26,837			6	2					6	2	8	0.02%	0.01%	0.03%	
INBF	1999	20000229		Isleton-Sac R	0501020810	26,033										1	1		0.00%	0.00%	
INBF	1998	19990511		Live Oak-Fea R	0601060814	51,144	6	10	241	78		73	22		321	110	431	0.63%	0.22%	0.84%	
INBF	1998	19990511		Live Oak-Fea R	0601060815	51,043	20	12	288	93		103	27		412	132	544	0.81%	0.26%	1.07%	
INBF	1999	20000607		Live Oak-Fea R	062660	42,275	4		119	10		56	5		178	15	194	0.42%	0.04%	0.46%	IHN infected
INBF	1998	19990331		Ryde-Koket Sac R	0501020714	25,873	4	5	108	22		14	4		126	31	158	0.49%	0.12%	0.61%	
INBF	1998	19990331		Ryde-Koket Sac R	0501020715	25,133	7	5	97	18		9			113	23	136	0.45%	0.09%	0.54%	
INBF	1998	19990428		Ryde-Koket Sac R	052414	26,489	16	24	320	80		44	14	2	382	118	501	1.44%	0.45%	1.89%	
INBF	1998	19990428		Ryde-Koket Sac R	052415	25,814	36	17	278	96		61	13		375	126	502	1.45%	0.49%	1.94%	
INBF	1999	20000329		Ryde-Koket Sac R	0501020805	23,042			46	2		11	2		56	4	60	0.24%	0.02%	0.26%	
INBF	1999	20000329		Ryde-Koket Sac R	0501020806	23,468			29	3			2		29	5	34	0.12%	0.02%	0.14%	
INBF	1999	20000428		Ryde-Koket Sac R	0501020807	21,419	4		51	9		13	7		68	16	84	0.32%	0.08%	0.39%	IHN infected
INBF	1999	20000428		Ryde-Koket Sac R	0501020808	21,395		1	34	9		27	2	1	61	13	74	0.28%	0.06%	0.35%	IHN infected
INBF	1998	19990322		Verona - Feather R	0601060907	53,987	7	8	141	65		27	3		175	76	251	0.32%	0.14%	0.47%	
INBF	1998	19990322		Verona - Feather R	0601060908	50,989	7	12	172	65		15	4		194	81	275	0.38%	0.16%	0.54%	
INBF	1998	19990322		Verona - Feather R	0601060909	50,804	19	7	152	55		18	7		188	69	257	0.37%	0.14%	0.51%	
INBF	1998	19990322		Verona - Feather R	0601060910	51,202	7	8	148	44		8	6		163	59	222	0.32%	0.11%	0.43%	
INBF	1999	20000322		Verona - Feather R	0601061105	101,115	2	1	244	29		90	12	1	337	43	380	0.33%	0.04%	0.38%	
INBF	1999	20000322		Verona - Feather R	062657	103,165		2	293	49		179	21	1	473	74	546	0.46%	0.07%	0.53%	
INBF	1998	19990415		West Sacramento	052416	25,621	33	14	199	50		20	7		251	71	322	0.98%	0.28%	1.26%	
INBF	1998	19990415		West Sacramento	052417	26,174	25	13	266	64		13	7		303	84	387	1.16%	0.32%	1.48%	
INBF	1998	19990430		West Sacramento	052324	25,695	20	15	267	72		20	10		307	97	404	1.20%	0.38%	1.57%	
INBF	1998	19990430		West Sacramento	052325	25,977	14	14	234	57		28	5		276	76	352	1.06%	0.29%	1.35%	
INBF	1998	19990504		West Sacramento	0501020706	25,585	25	15	278	57		19	8		322	80	402	1.26%	0.31%	1.57%	
INBF	1998	19990504		West Sacramento	0501020707	25,633	27	14	245	44		16	10		288	69	357	1.13%	0.27%	1.39%	
INBF	1999	20000410		West Sacramento	062655	25,005			164	22		89	4		253	26	279	1.01%	0.10%	1.12%	
INBF	1999	20000410		West Sacramento	062656	25,011	3	1	141	25		45	11	1	188	38	226	0.75%	0.15%	0.91%	
INBF	1999	20000501		West Sacramento	062653	20,926	6	1	144	23		62	4		212	28	241	1.01%	0.14%	1.15%	IHN infected
INBF	1999	20000501		West Sacramento	062654	20,613	4	3	135	15		80	6	2	219	26	245	1.06%	0.13%	1.19%	IHN infected
INBF	1999	20000515		West Sacramento	062649	17,416		6	211	27		95	8	4	311	41	352	1.79%	0.24%	2.02%	IHN infected
INBF	1999	20000515		West Sacramento	062650	17,064			156	31		109	12		265	43	309	1.55%	0.25%	1.81%	IHN infected
INBF Totals						1,390,587	306	216	5,370	1,250	1,373	250	11	6	7,059	1,723	8,782	0.51%	0.12%	0.63%	

Appendix 6. Recoveries of '98 BY and '99 BY CWTs at FRH and in ocean fisheries by release group, release site, release date, and age.

Release group	Brood year	First release date	Last release date	Release location	cwtcode	Total # CWT tagged	# CWTs recovered (expanded for sampling only)								Total CWT Recoveries			CWT Recovery Rate			RMIS Release Comments
							Age 2 recoveries		Age 3 recoveries		Age 4 recoveries		Age 5 recoveries		Ocean	FRH	Total	Ocean	FRH	Total	
							Ocean	FRH	Ocean	FRH	Ocean	FRH	Ocean	FRH							
Trucked FRH fall releases (TRKF)																					
TRKF	1998	19990426		Port Chicago	052326	25,576	13	9	149	35	4	6			166	50	216	0.65%	0.20%	0.85%	
TRKF	1998	19990426		Port Chicago	052327	25,518	10	14	227	47	19	5			256	67	323	1.00%	0.26%	1.27%	
TRKF	1999	20000412		Port Chicago	053829	23,582		3	66	8	19	2			85	13	98	0.36%	0.06%	0.42%	IHN infected
TRKF	1999	20000412		Port Chicago	053830	23,352	3	1	121	10	52	3		1	176	15	191	0.75%	0.07%	0.82%	IHN infected
TRKF	1999	20000503		Port Chicago	062651	15,770	7	1	56	9	50	10	2		115	20	135	0.73%	0.13%	0.86%	IHN infected
TRKF	1999	20000503		Port Chicago	062652	15,541	4	1	77	12	62	6	2		146	19	166	0.94%	0.12%	1.07%	IHN infected
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062631	50,877	83	35	810	117	204	43	2		1,099	196	1,295	2.16%	0.39%	2.55%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062632	50,893	54	29	789	113	242	35			1,085	178	1,263	2.13%	0.35%	2.48%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062633	51,964	48	26	660	96	182	39			890	162	1,052	1.71%	0.31%	2.02%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062634	50,928	50	28	643	98	160	43			854	170	1,024	1.68%	0.33%	2.01%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062635	50,883	45	32	710	93	135	36			891	162	1,052	1.75%	0.32%	2.07%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062636	50,932	58	45	765	105	197	39	4		1,025	190	1,215	2.01%	0.37%	2.38%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062637	49,140	31	13	495	70	168	34	5	1	698	118	816	1.42%	0.24%	1.66%	
TRKF	1998	19990607	19990611	Wickland Oil Net Pen	062638	50,827	54	31	731	94	168	31		1	953	158	1,111	1.88%	0.31%	2.19%	
TRKF	1999	20000620	20000627	Wickland Oil Net Pen	062658	294,362	9	9	718	73	404	55	16		1,147	137	1,283	0.39%	0.05%	0.44%	IHN infected
TRKF Totals						830,145	472	280	7,016	981	2,067	390	31	3	9,586	1,654	11,240	1.15%	0.20%	1.35%	
Experimental FRH fall releases (XHAF)																					
XHAF	1998	19990330		Georgianna Slough	0501020712	26,330	14	5	77	18		3		91	26	117	0.35%	0.10%	0.45%		
XHAF	1998	19990330		Georgianna Slough	0501020713	26,248	13	3	57	19	6	4	3	78	26	104	0.30%	0.10%	0.40%		
XHAF	1998	19990427		Georgianna Slough	0501020801	13,888	22	15	132	42	5	5		159	63	222	1.15%	0.45%	1.60%	22,577 tagged; full-tag cut 93	
XHAF	1998	19990427		Georgianna Slough	0501020802	27,393	33	13	235	66	10	5		277	84	361	1.01%	0.31%	1.32%		
XHAF	1999	20000328		Georgianna Slough	0501020803	24,571			26	5	7	1		33	6	39	0.14%	0.02%	0.16%		
XHAF	1999	20000328		Georgianna Slough	0501020804	25,253		1	28	3	11			39	4	43	0.16%	0.02%	0.17%		
XHAF	1999	20000427		Georgianna Slough	0601061109	19,471			5	2	15	3		20	5	25	0.10%	0.03%	0.13%		
XHAF	1999	20000427		Georgianna Slough	0601061110	19,665	4	1	21	5	12	1		37	7	44	0.19%	0.04%	0.23%	IHN infected	
XHAF	1998	19990301		Mokelumne R, Mouth	0501020708	25,414			3	1				3	1	4	0.01%	0.00%	0.01%		
XHAF	1998	19990301		Mokelumne R, Mouth	0501020709	25,649	3		3					6		6	0.02%		0.02%		
XHAF	1998	19990301		Mokelumne R, Mouth	0501020710	27,943			10		4			14		14	0.05%		0.05%		
XHAF	1998	19990301		Mokelumne R, Mouth	0501020711	24,721			3					3		3	0.01%		0.01%		
XHAF	1999	20000214		Mokelumne R, Mouth	0601061003	26,302				1					1	1		0.00%		0.00%	
XHAF	1999	20000214		Mokelumne R, Mouth	0601061004	24,059			3					3		3	0.01%		0.01%		
XHAF	1999	20000228		Mokelumne R, Mouth	0601060912	27,514			7	3	6			13	3	16	0.05%	0.01%	0.06%	IHN infected	
XHAF	1999	20000228		Mokelumne R, Mouth	0601060913	25,459			5	1				5	1	6	0.02%	0.00%	0.02%		
XHAF	1998	19990211		Yolo Bypass-Fremont	0601060701	25,241	4	1	20	4	5			28	5	33	0.11%	0.02%	0.13%		
XHAF	1998	19990211		Yolo Bypass-Fremont	0601060702	27,699	3		25	2	4	1		31	3	34	0.11%	0.01%	0.12%		
XHAF	1998	19990211		Yolo Bypass-Fremont	0601060703	25,262		1	21	1				21	2	23	0.08%	0.01%	0.09%		
XHAF	1998	19990211		Yolo Bypass-Fremont	0601060704	25,269	14	1	34	3				48	4	52	0.19%	0.02%	0.21%		
XHAF	1999	20000204		Yolo Bypass-Fremont	0601061104	100,901	4	1	35	4	4			42	5	47	0.04%	0.00%	0.05%		
XHAF	1999	20000222		Yolo Bypass-Fremont	0601061007	27,250			16	5	1	1		17	6	23	0.06%	0.02%	0.08%	combined 0601061008	
XHAF	1999	20000222		Yolo Bypass-Fremont	0601061008	27,302			9	1				9	1	10	0.03%	0.00%	0.04%	combined 0601061007	
XHAF Totals						648,804	112	42	776	187	89	24	3	980	254	1,233	0.15%	0.04%	0.19%		

Appendix 6. Recoveries of '98 BY and '99 BY CWTs at FRH and in ocean fisheries by release group, release site, release date, and age.

Release group	Brood year	First release date	Last release date	Release location	CWT code	Total # CWT tagged	# CWTs recovered (expanded for sampling only)								Total CWT Recoveries			CWT Recovery Rate			RMIS Release Comments
							Age 2 recoveries		Age 3 recoveries		Age 4 recoveries		Age 5 recoveries		Ocean	FRH	Total	Ocean	FRH	Total	
							Ocean	FRH	Ocean	FRH	Ocean	FRH	Ocean	FRH	Ocean	FRH	Total	Ocean	FRH	Total	
Trucked FRH spring releases (FRHS)																					
FRHS	1998	19990517	19990524	Wickland Oil Net Pen	0601060901	51,784	31	7	641	145	162	36			834	188	1,022	1.61%	0.36%	1.97%	
FRHS	1998	19990517	19990524	Wickland Oil Net Pen	0601060902	50,473	25	2	565	98	122	30			712	131	843	1.41%	0.26%	1.67%	
FRHS	1998	19990525	19990604	Wickland Oil Net Pen	0601060903	51,326	20	3	417	84	116	41			553	128	681	1.08%	0.25%	1.33%	
FRHS	1998	19990525	19990604	Wickland Oil Net Pen	0601060904	50,713	42	5	481	85	85	35			607	125	733	1.20%	0.25%	1.44%	
FRHS	1998	19990525	19990604	Wickland Oil Net Pen	0601060905	51,333	23	4	471	75	96	28	7		597	107	704	1.16%	0.21%	1.37%	
FRHS	1998	19990525	19990604	Wickland Oil Net Pen	0601060906	53,958	29	2	637	113	184	42		1	850	158	1,008	1.58%	0.29%	1.87%	
FRHS	1999	20000517		Wickland Oil Net Pen	062659	99,086	4	6	1177	105	454	103	4	7	1,639	222	1,861	1.65%	0.22%	1.88%	
FRHS	1999	20000518	20000602	Wickland Oil Net Pen	0601061106	201,236	25	5	1317	125	442	130	10	5	1,794	265	2,059	0.89%	0.13%	1.02%	IHN infected
FRHS Totals						609,909	199	34	5706	831	1661	446	20	13	7,586	1,325	8,911	1.24%	0.22%	1.46%	
Tiburon FRH fall yearlings (TRHY)																					
TRKY	1999	20000826		Tiburon Net Pens	062940	28,888	29	5	1006	71	663	43	15	1	1,714	120	1,834	5.93%	0.42%	6.35%	IHN infected
Wild Feather River releases (FRW)																					
FRW	1998	19990118	19990205	Thermalito-Live Oak	0601060402	38,119									7		7	0.06%		0.06%	
FRW	1998	19990323	19990330	Thermalito-Live Oak	0601060813	12,048					3		4								
FRWI	1998	19990206	19990211	Thermalito-Live Oak	0601060806	10,861		1	10						10	1	11	0.09%	0.01%	0.10%	Surrogate - unmarked INBF
FRWI	1998	19990212	19990218	Thermalito-Live Oak	0601060807	11,629			2						2		2	0.02%		0.02%	Surrogate - unmarked INBF
FRWI	1998	19990218	19990225	Thermalito-Live Oak	0601060808	12,811			2						2		2	0.02%		0.02%	Surrogate - unmarked INBF
FRWI	1998	19990226	19990303	Thermalito-Live Oak	0601060809	11,342															Surrogate - unmarked INBF
FRWI	1998	19990227	19990309	Thermalito-Live Oak	0601060810	12,577			5		4				9		9	0.07%		0.07%	Surrogate - unmarked INBF
FRWI	1998	19990309	19990317	Thermalito-Live Oak	0601060811	12,458															Surrogate - unmarked INBF
FRWI	1998	19990318	19990322	Thermalito-Live Oak	0601060812	11,198	3		8		2				13		13	0.12%		0.12%	Surrogate - unmarked INBF
FRW	1999	20000104	20000109	Thermalito Bypass	0601061009	12,609			8						8		8	0.07%		0.07%	
FRW	1999	20000109	20000115	Thermalito Bypass	0601061010	12,744															
FRW	1999	20000115	20000119	Thermalito Bypass	0601061011	12,165															
FRW	1999	20000219	20000307	Thermalito Bypass	0601061112	10,681			1						1		1	0.01%		0.01%	
FRW	1999	20000308	20000329	Thermalito Bypass	0601061111	7,082			4		14				17		17	0.24%		0.24%	
FRWI	1999	20000120	20000123	Thermalito Bypass	0601061012	12,338															Surrogate - unmarked INBF
FRWI	1999	20000123	20000128	Thermalito Bypass	0601061013	12,489					3				3		3	0.03%		0.03%	Surrogate - unmarked INBF
FRWI	1999	20000128	20000130	Thermalito Bypass	0601061014	12,503			3						3		3	0.02%		0.02%	Surrogate - unmarked INBF
FRWI	1999	20000130	20000202	Thermalito Bypass	0601061015	12,241															Surrogate - unmarked INBF
FRWI	1999	20000202	20000209	Thermalito Bypass	0601061101	12,246			5						5		5	0.04%		0.04%	Surrogate - unmarked INBF
FRWI	1999	20000209	20000214	Thermalito Bypass	0601061102	12,625			7			1			7	1	8	0.05%	0.01%	0.06%	Surrogate - unmarked INBF
FRWI	1999	20000214	20000219	Thermalito Bypass	0601061103	14,494															Surrogate - unmarked INBF
FRW Totals						277,260	3	1	57		27	1			87	2	89	0.03%	0.00%	0.03%	