

REF 90633

FALL-RUN CHINOOK SALMON SPAWNER POPULATIONS

SACRAMENTO RIVER SYSTEM : Keswick Dam to Red Bluff Diversion Dam (RBDD)

YEAR	Sacramento River			Battle Creek				Clear Creek	Spring Gulch	China Gl.	Olney Cr.	Cotton-wood Cr.	Paynes Cr.	Cow Cr.	Bear Cr.	Ash Cr.	Still-water Cr.	Inks Cr.	Other 3/
	Mainstem		TOTAL	In-river			TOTAL												
	In-river	Transfer to CNFH 1/		CNFH	Dnst. CNFH	Upst. CNFH													
1952	a/	7,000	7,000	11,000	4,000		15,000												
1953	a/	8,000	8,000	12,000	4,000		16,000	1,500				3,000		3,000	800				
1954	a/	6,000	6,000	8,000	4,000		12,000	3,000				1,000		4,500	500				
1955	a/	6,000	6,000	10,000	16,000		26,000	500				800		1,300	200				
1956	84,716	2,641	87,357	7,458	13,650		21,108	2,650	950	385		660		3,200	5				
1957	47,300	7,689	54,989	3,045	2,285		5,330	330				358		700	30	10	140		
1958	99,300	7,853	107,153	14,643	14,500	100	29,243	1,600		200	30	600		3,300	200				
1959	249,600	7,100	256,700	10,833	19,300	100	30,233	775	955			3,300		680	10				
1960	210,000	8,940	218,940	9,605	14,200		23,805	900				350		650	50	10			
1961	134,700	5,481	140,181	8,156	11,700		19,856					1,500							
1962	115,500	12,337	127,837	4,857	8,200		13,057	5,400				6,000		1,500					
1963	135,200	3,681	138,881	5,114	12,400		17,514	10,000				3,500							
1964	140,500	2,084	142,584	3,875	12,000		15,875	2,500				3,450		1,000	50				
1965	98,900	2,976	101,876	3,194	6,000		9,194	2,500				900	35	1,000	350				
1966	107,900	3,981	111,881	900	2,400		3,300	900				2,900	300	7,600	400				
1967	78,100	4,390	82,490	3,050	2,160		5,210	370				600		520	30				
1968	95,600	2,829	98,429	3,526	2,950		6,476	800				8,540		7,540	310				
1969	114,600	1,052	115,652	2,626	3,200		5,826	1,240				4,967	300	5,570	560	320	150	230	
1970	62,298	2,844	65,142	3,512	3,320		6,832												5,308
1971	52,247	1,641	53,888	2,004	3,285		5,289												
1972	33,559	399	33,958	2,822	2,030		4,852												
1973	40,424	705	41,129	3,835	4,300		8,135												
1974	45,590	1,429	47,019	1,607	2,294		3,901												
1975	52,248	881	53,129	2,431	2,426		4,857												
1976	43,604	2,149	45,753	2,297	3,147		5,444	1,013				2,427		726	167				
1977	15,784	392	16,176	5,244	5,604		10,848	1,362				1,512							
1978	32,235		32,235	1,882	1,770		3,652	60				1,120							
1979	47,758		47,758	8,729	4,430		13,159												
1980	21,961		21,961	9,503	4,940		14,443												
1981	26,261	2,951	29,212	10,272	6,933		17,205	3,672				3,356							
1982	17,731	235	17,966	19,525	7,270		26,795	785				700	30						
1983	26,226		26,226	8,756	5,227		13,983					1,000	100						
1984	36,898	67	36,965	21,581	8,312		29,893	4,000				500	90	250					
1985	52,120		52,120	16,320	12,792	10,696	39,808	700											
1986	68,593	228	68,821	12,481	11,508	7,263	31,252												
1987	76,562		76,562	16,256	5,868	2,125	24,249												
1988	63,998		63,998	13,615	51,923	1,937	67,475	4,453											
1989	48,968		48,968	11,986	18,829	233	31,048	2,153											
1990	32,109		32,109	14,635	6,453		21,088	1,011											
1991	20,523		20,523	10,683	6,558		17,241	2,026				676							
1992	23,914		23,914	7,275	5,433		12,708	600				1,585							
1993	33,471		33,471	7,587	11,029		18,616	1,246											
1994	44,729		44,729	18,991	24,274		43,265	2,546											
1995	53,385		53,385	26,677	56,515		83,192	9,298											

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Clear

1996	71,725	71,725	21,178	52,409	73,587	5,922													
1997	98,765	98,765	50,670	50,744	101,414	8,569													
1998	5,718	5,718	44,351	53,957	98,308	4,258													
1999	48,418	48,418	26,970	92,949	119,919	8,003													
2000	87,793	87,793	21,659	53,447	75,106	6,687													
2001	20,000	20,000	24,698	100,604	125,302	10,865													
2002	49,665	49,665	66,147	397,149	463,296	16,071													

1/ Salmon from the mainstem population that were trapped at Keswick Dam and transported to Coleman National Fish Hatchery (CNFH).

\* fish trapped at both Keswick and Anderson-Cottonwood Irrigation District dams.

2/ Salmon that entered CNFH and were released back into Battle Creek upstream of the hatchery.

3/ The data source did not provide a breakdown corresponding to this compilation.

a/ The spawner population was reported only for the entire mainstem from Keswick Dam to Princeton Ferry.

Chuva Gulah could not be found

### FALL-RUN CHINOOK SALMON SPAWNER POPULATIONS

#### SACRAMENTO RIVER SYSTEM : Red Bluff Diversion Dam to Princeton ferry

YEAR	Sacramento River			TCFF	Salt Cr.	Antelope Cr.	Craig Cr.	Dye Cr.	Mill Cr.	Toomes Cr.	Thomes Cr.	Deer Cr.	Coyote Cr.	Stoney Cr.	Singer Cr.	Big Chico Cr.	Other 2/
	Mainstem		TOTAL														
	In-river	Transfer to TCFF 1/															
1952	a/								16,000			12,000					3,000
1953	a/					4,000			10,000			4,000					.700
1954	a/					1,000			7,000			3,000					2,000
1955	a/					900			3,000								600
1956	5,800		5,800			327			896	5		120					1,500
1957	12,200		12,200			838		25	5,316		25	2,195				50	800
1958	20,600		20,600			400			4,340			1,300					2,200
1959	9,900		9,900						837			10					1,500
1960	14,000		14,000			250			940			800					
1961	9,400		9,400						1,689								
1962	8,500		8,500			800			4,384			2,000					
1963	6,800		6,800			300			1,286			1,249					
1964	5,500		5,500			50			450			100					
1965	1,500		1,500			60			150			200					
1966	3,100		3,100			200			500			100					
1967	9,200		9,200			60			500			60					
1968	11,800		11,800			80			750			270					
1969	17,600		17,600			180		20	1,700	40		750					
1970	5,860		5,860			400			690			500					
1971	22,920	4,741	27,661	295		205		100	980			248					
1972	15,350	1,671	17,021	110	30	275		50	631	25		304			15		
1973	16,599	2,491	19,090	886	43	200	90	153	420	40		676			90		
1974	27,127	2,234	29,361	843		440	140	•	944	•	60	640	100		•		
1975	34,200	1,973	36,173	1,994		90	270	•	1,208		170	328	160	•	•		
1976	36,100	1,882	37,982	1,430		60		•	245	20	•	315	160	•	•		
1977	44,074	3,146	47,220	1,669	•	660			318	120	•	220	200				
1978	45,921	2,085	48,006	2,052					300			90					
1979	64,932	53	64,985	2,456					810			780					
1980	28,413	175	28,588	1,865					320		151	210					
1981	40,340		40,340	2,384		407	100		1,020		167	820		393			
1982	22,578		22,578	1,225	20	162	90	25	1,290	15		480					
1983	30,751		30,751	1,267	15	60	60	20	200	15		370				500	
1984	17,960		17,960	1,206	30	260	60	50	5,800	50		680			20	200	
1985	42,028		42,028	4,752					3,840			900					25
1986	38,544		38,544						574			256					
1987	31,120		31,120						282			64					
1988	18,262		18,262						1,487								
1989	10,101		10,101						1,565			358					
1990	16,175		16,175														
1991	10,108		10,108														
1992	8,315		8,315			0			999								
1993	12,760		12,760						1,975			72					
1994	13,817		13,817						1,081			307					
1995	10,549		10,549														

1996	12,361	12,361																		
1997	20,531	20,531					478				1,203									
1998	489	489					546				270									
<sup>a</sup> 1999	1,497	1,497																		
2000	8,895	8,895																		
2001	0	0																		
2002	22,022	200					2,611													

1/ Salmon from the mainstem population that were trapped at Red Bluff Diversion Dam and transported to Tehama-Colusa Fish Facility (TCFF).

2/ Miscellaneous small tributaries; the data source did not provide a breakdown corresponding to this compilation. NOTE: The number of fish listed may include those for tributaries from Keswick Dam to RBDD.

a/ The spawner population was reported only for the entire mainstem from Keswick Dam to Princeton Ferry.

### FALL-RUN CHINOOK SALMON SPAWNER POPULATIONS

SACRAMENTO RIVER SYSTEM : Princeton Ferry to Sacramento											SAN JOAQUIN RIVER SYSTEM : Tributaries												
YEAR	Butte Cr.	Feather River			Yuba River	Bear River	Dry Cr.	American River			Natomas Drain.	Cosumnes River	Mokelumne River			Stanislaus Tuolumne River		Merced River					
		Feather R Hatchery	In-river	TOTAL				Nimbus Hatchery	In-river	TOTAL			MRF1 1/ In-river	TOTAL	River	River	MRF2 2/ In-river	TOTAL					
1952									25,000	25,000			2,000	2,000	10,000	10,000							
1953			28,000	28,000	6,000				28,000	28,000			2,000	2,000	35,000	45,000							
1954			68,000	68,000	5,000				29,000	29,000			5,000	4,000	4,000	22,000	40,000	-4,000	4,000				
1955			86,000	86,000	2,000			8,000	9,000	17,000			2,000	2,000	2,000	7,000	20,000						
1956			18,200	18,200	5,000			1,537	4,900	6,437			1,200	474	474	5,000	5,500						
1957			10,750	10,750	1,205			875	6,832	7,707			142	2,400	2,400	4,090	8,170	380	380				
1958			34,650	34,650	7,900			9,571	17,300	26,871			600	7,579	7,579	5,700	32,500	500	500				
1959			80,150	80,150	10,000			13,243	17,900	31,143				2,106	2,106	4,300	45,900	400	400				
1960			83,300	83,300	20,400			29,166	25,200	54,366			1,400	2,205	2,205	8,300	45,000	350	350				
1961			43,700	43,700	9,200			14,309	11,200	25,509				137	137	1,900	500	50	50				
1962			19,050	19,050	34,300			12,653	14,400	27,053			900	230	230	315	250	60	60				
1963			33,900	33,900	37,000			3,211	37,810	41,021	460		1,500	481	481	200	100	20	20				
1964			5,952 a/	32,400	38,352	34,900		20,671	38,500	59,171	1,000		2,200	362	1,848	2,210	3,700	2,100	35	35			
1965	0		3,635 a/	19,600	23,235	10,200		13,569	25,000	38,569	200		800	173	1,127	1,300	2,231	3,200	90	90			
1966	0		1,850 a/	19,000	20,850	7,800		8,096	18,600	26,696			600	480	209	689	2,872	5,100	45	45			
1967			1,856	10,100	11,956	23,500		5,147	18,000	23,147			500	250	2,750	3,000	11,885	6,800	600	600			
1968			5,944	12,200	18,144	7,000		5,233	26,100	31,333	100		1,500	954	753	1,707	6,385	8,600	550	550			
1969			4,378	56,200	60,578	5,230		3,605	43,660	47,265			4,400	615	2,070	2,685	12,327	32,200	600	600			
1970			3,355	58,170	61,525	13,830		8,629	28,680	37,309			600	548	4,452	5,000	9,297	18,400	100	4,700	4,800		
1971	615		3,541	43,500	47,041	5,650		10,110	41,680	51,790			500	925	4,275	5,200	13,621	21,885	200	3,451	3,651		
1972	450		3,635	43,200	46,835	9,258		7,042	17,459	24,501			1,600	352	750	1,102	4,298	5,100	120	2,528	2,648		
1973			8,477	65,100	73,577	24,119		12,535	82,242	94,777			900	407	2,193	2,600	1,234	1,989	375	797	1,172		
1974	200		5,248	60,518	65,766	17,809		8,200	53,596	61,796			285	222	1,200	1,422	750	1,150	1,000	1,000	2,000		
1975	1,000		5,265	37,735	43,000	5,641		7,412	32,132	39,544			725	399	1,501	1,900	1,200	1,600	700	1,700	2,400		
1976	640		5,198	56,802	62,000	3,779		5,215	23,159	28,374				18	455	473	600	1,700	700	1,200	1,900		
1977			8,784	37,668	46,452	8,722		6,868	41,605	48,473				0	250	250	0	450		350	350		
1978	20		4,759	33,000	37,759	7,416		8,162	12,929	21,091			100	486	600	1,086	50	1,300	100	525	625		
1979			4,090	28,415	32,505	12,430		10,351	37,315	47,666			150	507	1,000	1,507	110	1,183	227	1,920	2,147		
1980			3,690	31,605	35,295	12,406		15,543	34,259	49,802			200	639	2,592	3,231	100	559	157	2,849	3,006		
1981			8,282	44,738	53,020	14,025		20,593	43,462	64,055					4,954	4,954	1,000	14,253	924	9,491	10,415		
1982			7,563	47,956	55,519	39,367		10,898	33,000	43,898				2,677	6,695	9,372		7,126	189	3,074	3,263		
1983	1,000		7,699	22,823	30,522	13,756	500	8,900	26,400	35,300			200	4,568	11,293	15,861	500	14,836	1,795	16,453	18,248		
1984			9,288	41,769	51,057	9,665	300	12,249	27,447	39,696			1,000		8,298	8,298	11,439	13,689	2,109	27,640	29,749		
1985	100		5,811	50,191	56,002	13,042	25	9,093	56,120	65,213			220	223	7,459	7,682	13,473	40,322	1,211	14,841	16,052		
1986			8,628	46,843	55,471	19,328		5,695	49,372	55,067				1,913	5,254	7,167	6,497	7,404	650	6,789	7,439		
1987			10,108	67,738	77,846	18,518		6,258	39,885	46,143			0	630	1,000	1,630	6,292	14,751	958	3,168	4,126		
1988			6,480	42,556	49,036	9,000		8,625	24,889	33,514			100	128	400	528	10,212	5,779	457	4,135	4,592		
1989			7,578	40,541	48,119	7,622		9,741	19,183	28,924				81	200	281	1,510	1,275	82	345	427		
1990			6,126		6,126			4,850	5,389	10,239				68	431	499	480	98	46	36	82		
1991			10,717	31,345	42,062	14,008		7,128	18,083	25,211				41	369	410	394	77	41	78	119		
1992			16,440	24,105	40,545	6,362		6,456	4,811	11,267				710	935	1,645	255	132	368	618	986		
1993			11,991	30,923	42,914	6,703		10,656	28,754	39,410				2,164	993	3,157	677	471	409	1,269	1,678		
1994			15,202	38,382	53,584	10,890		8,567	31,520	40,087				1,922	1,499	3,421	1,031	506	943	2,646	3,589		
1995	445		12,149	59,912	72,061	14,237		6,498	80,330	86,828				3,323	2,094	5,417	619	827	602	2,320	2,922		
1996	500		8,107	57,170	65,277	27,800		7,651	74,745	82,396				3,883	3,892	7,775	168	4,362	1,141	3,291	4,432		
1997	800		15,080	50,547	65,627	25,948		5,650	52,195	57,845				6,494	3,669	10,163	5,588	7,146	946	2,714	3,660		
1998	1,000		18,884		30,802			11,788	57,364	69,152				3,090	4,091	7,181	3,147	7,916	799	3,354	4,153		
1999	2,000		12,384	35,903	48,287	23,049		9,760	47,741	57,501				3,156	2,177	5,333	4,500	9,000	1,626	4,000	5,626		

PS

2000	714	21,234	107,834	129,068	14,852	11,015	99,888	110,903	5,524	1,583	7,107	11,854	16,420	1,954	7,179	9,133
2001		29,308	169,851	199,159	22,391	11,644	180,615	192,259	5,728		5,728	5,194	8,600	1,660	8,000	9,660
2002	3,415	20,507	93,400	113,907	23,202	9,817	124,187	134,004	7,913	2,839	10,752	6,800	7,200	1,838	8,800	10,638

1/ Mokelumna River Fish Installation.

2/ Merced River Fish Facility.

a/ Fish were transferred to upstream of Oroville dam.

# FALL-RUN CHINOOK SALMON SPAWNER POPULATIONS

## SACRAMENTO RIVER SYSTEM : SUMMARY

YEAR	Keswick Dam to Red Bluff Diversion Dam				Red Bluff Diversion Dam to Princeton Ferry				Princeton Ferry to Sacramento		
	CNFF 1/	In-river		TOTAL	TCFF 2/	In-river		TOTAL	Hatcheries 3/	In-river	
		Mainstem	Tributaries			Mainstem	Tributaries			Tributaries	TOTAL
1952	11,000	7,000	a/ 4,000	22,000		b/ 31,000	c/ 31,000			25,000	25,000
1953	12,000	8,000	a/ 12,300	32,300		b/ 18,700	c/ 18,700			62,000	62,000
1954	8,000	6,000	a/ 13,000	27,000		b/ 13,000	c/ 13,000			102,000	102,000
1955	10,000	6,000	a/ 18,800	34,800		b/ 4,500	c/ 4,500		8,000	97,000	105,000
1956	7,458	87,357	21,500	116,315		5,800	2,848	8,648	1,537	28,100	29,637
1957	3,045	54,989	3,853	61,887		12,200	9,249	21,449	875	18,787	19,662
1958	14,643	107,153	20,530	142,326		20,600	8,240	28,840	9,571	59,850	69,421
1959	10,833	256,700	25,120	292,653		9,900	2,347	12,247	13,243	108,050	121,293
1960	9,605	218,940	16,160	244,705		14,000	1,990	15,990	29,166	128,900	158,066
1961	8,156	140,181	13,200	161,537		9,400	1,689	11,089	14,309	64,100	78,409
1962	4,857	127,837	21,100	153,794		8,500	7,184	15,684	12,653	67,750	80,403
1963	5,114	138,881	25,900	169,895		6,800	2,835	9,635	3,211	109,170	112,381
1964	3,875	142,584	19,000	165,459		5,500	600	6,100	26,623	106,800	133,423
1965	3,194	101,876	10,785	115,855		1,500	410	1,910	17,204	55,000	72,204
1966	900	111,881	14,500	127,281		3,100	800	3,900	9,946	45,400	55,346
1967	3,050	82,490	3,680	89,220		9,200	620	9,820	7,003	51,600	58,603
1968	3,526	98,429	20,140	122,095		11,800	1,100	12,900	11,177	45,400	56,577
1969	2,626	115,652	16,537	134,815		17,600	2,690	20,290	7,983	105,090	113,073
1970	3,512	65,142	8,628	77,282		5,860	1,590	7,450	11,984	100,680	112,664
1971	2,004	53,888	3,285	59,177	295	27,661	1,828	29,784	13,651	91,445	105,096
1972	2,822	33,958	2,030	38,810	110	17,021	1,440	18,571	10,677	70,367	81,044
1973	3,835	41,129	4,300	49,264	886	19,090	2,598	22,574	21,012	171,461	192,473
1974	1,607	47,019	2,294	50,920	843	29,361	3,167	33,371	13,448	132,123	145,571
1975	2,431	53,129	2,426	57,986	1,994	36,173	4,220	42,387	12,677	76,508	89,185
1976	2,297	45,753	7,480	55,530	1,430	37,982	2,230	41,642	10,413	84,380	94,793
1977	5,244	16,176	8,478	29,898	1,669	47,220	3,187	52,076	15,652	87,995	103,647
1978	1,882	32,235	2,950	37,067	2,052	48,006	2,442	52,500	12,921	53,365	66,286
1979	8,729	47,758	4,430	60,917	2,456	64,985	4,046	71,487	14,441	78,160	92,601
1980	9,503	21,961	4,940	36,404	1,865	28,588	2,546	32,999	19,233	78,270	97,503
1981	10,272	29,212	13,961	53,445	2,384	40,340	5,291	48,015	28,875	102,225	131,100
1982	19,525	17,966	8,785	46,276	1,225	22,578	3,307	27,110	18,461	120,323	138,784
1983	8,756	26,226	6,327	41,309	1,267	30,751	2,507	34,525	16,599	64,479	81,078
1984	21,581	36,965	13,152	71,698	1,206	17,960	8,356	27,522	21,537	79,181	100,718
1985	16,320	52,120	24,188	92,628	4,752	42,028	9,517	56,297	14,904	119,478	134,382
1986	12,481	68,821	18,771	100,073		38,544	830	39,374	14,323	115,543	129,866
1987	16,256	76,562	7,993	100,811		31,120	346	31,466	16,366	126,141	142,507
1988	13,615	63,998	58,313	135,926		18,262	1,487	19,749	15,105	76,445	91,550
1989	11,986	48,968	21,215	82,169		10,101	1,923	12,024	17,319	67,346	84,665
1990	14,635	32,109	7,464	54,208		16,175		16,175	10,976	5,389	16,365
1991	10,683	20,523	9,260	40,466		10,108		10,108	17,845	63,436	81,281
1992	7,275	23,914	7,618	38,807		8,315	999	9,314	22,896	35,278	58,174
1993	7,587	33,471	12,275	53,333		12,760	2,047	14,807	22,647	66,380	89,027
1994	18,991	44,729	26,820	90,540		13,817	1,388	15,205	23,769	80,792	104,561
1995	26,677	53,385	65,813	145,875		10,549		10,549	18,647	154,924	173,571
1996	21,178	71,725	58,331	151,234		12,361		12,361	15,758	160,315	176,073
1997	50,670	98,765	59,313	208,748		20,531	1,681	22,212	20,730	129,490	150,220
1998	44,351	5,718	58,215	108,284		489	816	1,305	30,672	89,166	119,838
1999	26,970	48,418	100,952	176,340		1,497		1,497	22,144	108,693	130,837
2000	21,659	87,793	60,134	169,586		8,895		8,895	32,249	223,288	255,537
2001	24,698	20,000	111,469	156,167					40,952	372,857	413,809
2002	66,147	49,665	413,220	529,032					30,324	244,204	274,528

1/ Coleman National Fish Hatchery.  
2/ Tehama-Colusa Fish Facility.  
3/ Feather River and Nimbus Hatcheries.

a/ Salmon from the mainstem population that were trapped at Keswick Dam and transported to CNFF. For these years, the mainstem population was reported only for the entire reach from Keswick to Princeton.  
b/ The spawner population was reported only for the entire mainstem from Keswick Dam to Princeton Ferry.  
c/ The number may include fish for tributaries from Keswick Dam to RBDD.

## FALL-RUN CHINOOK SALMON SPAWNER POPULATIONS

### CENTRAL VALLEY RIVER SYSTEMS : SUMMARY

YEAR	Sacramento River System				San Joaquin River System			Sacramento and San Joaquin River Systems			YEAR
	Hatcheries 1/	Mainstem	Tributaries	TOTAL	Hatcheries 2/	Tributaries	TOTAL	Hatcheries	In-river	TOTAL	
1952	11,000	267,000	60,000	338,000		22,000	22,000	11,000	349,000	360,000	1952
1953	12,000	408,000	93,000	513,000		84,000	84,000	12,000	585,000	597,000	1953
1954	8,000	276,000	128,000	412,000		75,000	75,000	8,000	479,000	487,000	1954
1955	18,000	231,000	120,300	369,300		31,000	31,000	18,000	382,300	400,300	1955
1956	8,995	93,157	52,448	154,600		12,174	12,174	8,995	157,779	166,774	1956
1957	3,920	67,189	31,889	102,998		15,182	15,182	3,920	114,260	118,180	1957
1958	24,214	127,753	88,620	240,587		46,879	46,879	24,214	263,252	287,466	1958
1959	24,076	266,600	135,517	426,193		52,706	52,706	24,076	454,823	478,899	1959
1960	38,771	232,940	147,050	418,761		57,255	57,255	38,771	437,245	476,016	1960
1961	22,465	149,581	78,989	251,035		2,587	2,587	22,465	231,157	253,622	1961
1962	17,510	136,337	96,034	249,881		1,755	1,755	17,510	234,126	251,636	1962
1963	8,325	145,681	137,905	291,911		2,301	2,301	8,325	285,887	294,212	1963
1964	30,498	148,084	126,400	304,982	362	9,883	10,245	30,860	284,367	315,227	1964
1965	20,398	103,376	66,195	189,969	173	7,448	7,621	20,571	177,019	197,590	1965
1966	10,846	114,981	60,700	186,527	480	8,826	9,306	11,326	184,507	195,833	1966
1967	10,053	91,690	55,900	157,643	250	22,535	22,785	10,303	170,125	180,428	1967
1968	14,703	110,229	66,640	191,572	954	17,788	18,742	15,657	194,657	210,314	1968
1969	10,609	133,252	124,317	268,178	615	51,597	52,212	11,224	309,166	320,390	1969
1970	15,496	71,002	110,898	197,396	648	37,449	38,097	16,144	219,349	235,493	1970
1971	15,950	81,549	96,558	194,057	1,125	43,732	44,857	17,075	221,839	238,914	1971
1972	13,609	50,979	73,837	138,425	472	14,276	14,748	14,081	139,092	153,173	1972
1973	25,733	60,219	178,359	264,311	782	7,113	7,895	26,515	245,691	272,206	1973
1974	15,898	76,380	137,584	229,862	1,222	4,385	5,607	17,120	218,349	235,469	1974
1975	17,102	89,302	83,154	189,558	1,099	6,726	7,825	18,201	179,182	197,383	1975
1976	14,140	83,735	94,090	191,965	718	3,955	4,673	14,858	181,780	196,638	1976
1977	22,565	63,396	99,660	185,621		1,050	1,050	22,565	164,106	186,671	1977
1978	16,855	80,241	58,757	155,853	586	2,575	3,161	17,441	141,573	159,014	1978
1979	25,626	112,743	86,636	225,005	734	4,363	5,097	26,360	203,742	230,102	1979
1980	30,601	50,549	85,756	166,906	796	6,300	7,096	31,397	142,605	174,002	1980
1981	41,531	69,552	121,477	232,560	924	29,698	30,622	42,455	220,727	263,182	1981
1982	39,211	40,544	132,415	212,170	2,866	16,895	19,761	42,077	189,854	231,931	1982
1983	26,622	56,977	73,313	156,912	6,363	43,282	49,645	32,985	173,572	206,557	1983
1984	44,324	54,925	100,689	199,938	2,109	62,066	64,175	46,433	217,680	264,113	1984
1985	35,976	94,148	153,183	283,307	1,434	76,315	77,749	37,410	323,646	361,056	1985
1986	26,804	107,365	135,144	269,313	2,563	25,944	28,507	29,367	268,453	297,820	1986
1987	32,622	107,682	134,480	274,784	1,588	25,211	26,799	34,210	267,373	301,583	1987
1988	28,720	82,260	136,245	247,225	585	20,626	21,211	29,305	239,131	268,436	1988
1989	29,305	59,069	90,484	178,858	163	3,330	3,493	29,468	152,883	182,351	1989
1990	25,611	48,284	12,853	86,748	114	1,043	1,157	25,725	62,180	87,905	1990
1991	28,528	30,631	72,696	131,855	82	918	1,000	28,610	104,245	132,855	1991
1992	30,171	32,229	43,895	106,295	1,078	1,940	3,018	31,249	78,064	109,313	1992
1993	30,234	46,231	80,702	157,167	2,573	3,410	5,983	32,807	130,343	163,150	1993
1994	42,760	58,546	109,000	210,306	2,865	5,682	8,547	45,625	173,228	218,853	1994
1995	45,324	63,934	220,737	329,995	3,925	5,860	9,785	49,249	290,531	339,780	1995
1996	36,936	84,086	218,646	339,668	5,024	11,713	16,737	41,960	314,445	356,405	1996
1997	71,400	119,296	190,484	381,180	7,440	19,117	26,557	78,840	328,897	407,737	1997
1998	75,023	6,207	148,197	229,427	3,889	18,508	22,397	78,912	172,912	251,824	1998
1999	49,114	49,915	209,645	308,674	4,782	19,677	24,459	53,896	279,237	333,133	1999
2000	53,908	96,688	283,422	434,018	7,478	37,036	44,514	61,386	417,146	478,532	2000
2001	65,650	20,000	484,326	569,976	7,388	21,794	29,182	73,038	526,120	599,158	2001
2002	96,471	49,665	657,424	803,560	9,751	25,639	35,390	106,222	732,728	838,950	2002

1/ Coleman National Fish Hatchery, Tehama-Clousa Fish Facility, and Feather River and Nimbus Hatcheries.

2/ Mokelumne River Fish Installation and Merced River Fish Facility.

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**CENTRAL VALLEY CHINOOK SALMON SPAWNER ESTIMATES : DATA  
SOURCES**

- 1952 - 1959 :** Fry, D.H., Jr. 1961. King salmon spawning stocks of the California Central Valley, 1940-1959. Calif. Fish and Game 47(1):55-71.
- : Fry, D.H., Jr., and A. Petrovich, Jr. 1970. King salmon (*Oncorhynchus tshawytscha*) spawning stocks of the California Central Valley, 1953-1969. Anad. Fish. Admin. Rept. 70-11.
- 1960 :** Mahoney, J. 1962. 1960 king salmon spawning population estimates for the Sacramento-San Joaquin River system. Mar. Res. Br. Admin. Rept. 62-1.
- 1961 :** Elwell, R.F. 1962. King salmon spawning stocks in California's Central Valley, 1961. Mar. Res. Br. Admin. Rept. 62-5.
- 1962 :** Menchen, R.S. (ed.). 1963. King salmon spawning stocks in California's Central Valley, 1962. Mar. Res. Br. Admin. Rept. 63-3.
- 1963 :** Menchen, R.S. (ed.). 1964. King salmon spawning stocks in California's Central Valley, 1963. Mar. Res. Br. Admin. Rept. 64-3.
- 1964 :** Menchen, R.S. (ed.). 1965. King (Chinook) salmon spawning stocks in California's Central Valley, 1964. Mar. Res. Br. Admin. Rept. 65-2.
- 1965 :** Menchen, R.S. (ed.). 1966. King (Chinook) salmon spawning stocks in California's Central Valley, 1965. Mar. Res. Br. Admin. Rept. 66-6.
- 1966 :** Menchen, R.S. (ed.). 1967. King (Chinook) salmon spawning stocks in California's Central Valley, 1966. Mar. Res. Br. Admin. Rept. 67-13.
- 1967 :** Menchen, R.S. (ed.). 1968. King (Chinook) salmon spawning stocks in California's Central Valley, 1967. Mar. Res. Br. Admin. Rept. 68-6.
- 1968 :** Menchen, R.S. (ed.). 1969. King (Chinook) salmon spawning stocks in California's Central Valley, 1968. Anad. Fish. Br. Admin. Rept. 69-4.

- 1969** : Menchen, R.S. (ed.). 1970. King (Chinook) salmon spawning stocks in California's Central Valley, 1969. Anad. Fish. Br. Admin. Rept. 70-14.
- 1970** : Menchen, R.S. (ed.). 1972. King (Chinook) salmon spawning stocks in California's Central Valley, 1970. Anad. Fish. Br. Admin. Rept. 72-2.
- 1971** : Taylor, S.N. (ed.). 1973. King (Chinook) salmon spawning stocks in California's Central Valley, 1971. Anad. Fish. Br. Admin. Rept. 73-2.
- 1972** : Taylor, S.N. (ed.). 1974. King (Chinook) salmon spawning stocks in California's Central Valley, 1972. Anad. Fish. Br. Admin. Rept. 74-6.
- 1973** : Taylor, S.N. (ed.). 1974. King (Chinook) salmon spawning stocks in California's Central Valley, 1973. Anad. Fish. Br. Admin. Rept. 74-12.
- 1974** : Taylor, S.N. (ed.). 1976. King (Chinook) salmon spawning stocks in California's Central Valley, 1974. Anad. Fish. Br. Admin. Rept. 76-3.
- 1975** : Hoopaugh, D.A. (ed.). 1977. King (Chinook) salmon spawning stocks in California's Central Valley, 1975. Anad. Fish. Br. Admin. Rept. 77-12.
- 1976** : Hoopaugh, D.A. (ed.). 1978. King (Chinook) salmon spawning stocks in California's Central Valley, 1976. Anad. Fish. Br. Admin. Rept. 78-19.
- 1977** : Hoopaugh, D.A., and A.C. Knutson, Jr. (eds.). 1979. Chinook (King) salmon spawning stocks in California's Central Valley, 1977. Anad. Fish. Br. Admin. Rept. 79-11.
- 1978** : Knutson, A.C., Jr. (ed.). 1980. Chinook (King) salmon spawning stocks in California's Central Valley, 1978. Anad. Fish. Br. Admin. Rept. 80-6.
- 1979** : Reavis, R.L., Jr. (ed.). 1981. Chinook (King) salmon spawning stocks in California's Central Valley, 1979. Anad. Fish. Br. Admin. Rept. 81-4.
- 1980** : Reavis, R.L., Jr. (ed.). 1981. Chinook (King) salmon spawning stocks in California's Central Valley, 1980. Anad. Fish. Br. Admin. Rept. 81-7.
- 1981** : Reavis, R. (ed.). 1983. Annual report. Chinook salmon spawning stocks in California's Central Valley, 1981. Anad. Fish. Br. Admin. Rept. 83-2.
- 1982** : Reavis, R., Jr. (ed.). 1984. Annual report. Chinook salmon spawning stocks in California's Central Valley, 1982. Anad. Fish. Br. Admin. Rept. 84-10.

- 1983** : Reavis, R. (ed.). 1986. Annual report. Chinook salmon spawning stocks in California's Central Valley, 1983. Anad. Fish. Br. Admin. Rept. 86-1.
- 1984** : Kano, R.M.; R.L. Reavis and F. Fisher (eds.). 1996. Annual report. Chinook salmon spawning stocks in California's Central Valley, 1984. Inland Fish. Div. Admin. Rept. 96-3.
- 1985** : Kano, R.M. and R.L. Reavis (eds.). 1996. Annual report. Chinook salmon spawning stocks in California's Central Valley, 1985. Inland Fish. Div. Admin. Rept. 96-4.
- 1986 - 2000** : Killam, D. Red Bluff Diversion Dam Updated Salmon Passage Estimates, 1986-2000. File Report. 6 October 2001. CDFG-Northern California and North Coast Region, Red Bluff Office.
- 1986** : Kano, R.M. and R.L. Reavis (eds.). 1997. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1986. Inland Fish. Div. Admin. Rept. 97-2.
- 1987** : Kano, R.M. and R.L. Reavis (eds.). 1997. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1987. Inland Fish. Div. Admin. Rept. 97-4.
- 1988** : Kano, R.M. (ed.). 1997. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1988. Inland Fish. Div. Admin. Rept. 97-10.
- 1989** : Kano, R.M. (ed.). 1998. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1989. Inland Fish. Div. Admin. Rept. 98-2.
- 1990** : Kano, R.M. (ed.). 1998. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1990. Inland Fish. Div. Admin. Rept. 98-6.
- 1991** : Kano, R.M. (ed.). 1998. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1991. Inland Fish. Div. Admin. Rept. 98-8.
- 1992** : Kano, R.M. (ed.). 1998. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1992. Inland Fish. Div. Admin. Rept. 98-10.
- 1993** : Kano, R.M. (ed.). 1999. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1993. Inland Fish. Div. Admin. Rept. 99-1.
- 1994** : Kano, R.M. (ed.). 1999. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1994. Inland Fish. Div. Admin. Rept. 99-2.
- 1995** : Kano, R.M. (ed.). 1999. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1995. Inland Fish. Div. Admin. Rept. 99-7.

**1996** : Kano, R.M. (ed.). 2000. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1996. Inland Fish. Div. Admin. Rept. 2000-1.

**1997** : Kano, R.M. (ed.). Report Finalized, Not Published. Annual report. Chinook salmon spawner stocks in California's Central Valley, 1996. Inland Fish. Div. Admin. Rept. \_\_\_\_\_.

**1998 - 2002** : PRELIMINARY Unpublished Data. CDFG, Native Anadromous Fish & Watershed Branch, Sacramento, CA.