

KLAMATH RIVER BASIN FALL CHINOOK SALMON RUN-SIZE,  
IN-RIVER HARVEST AND SPAWNER ESCAPEMENT -- 2000 SEASON<sup>1/</sup>

The 2000 adult fall-run chinook salmon run into the Klamath River system was estimated at 217,369 fish, about 233% of the 1978-1999 average of 93,276 adults. The grilse run was estimated at 10,198 fish, about 53% of the 1978-1999 average of 19,220 fish.

Fisheries scientists projected that 85,000 adult fall chinook would return to the Klamath River this fall<sup>2/</sup>. Using this figure, they projected an in-river harvest of 35,000 fish (including 2,600 unlanded mortalities), leaving 50,000 adults to spawn naturally or in the hatcheries. The following table presents, in abbreviated form, 2000 preseason adult harvest and spawner escapement projections and corresponding postseason estimates.

	Preseason Projection <sup>2/</sup>	Postseason Estimate	Percent of Projected
<b>Harvest</b>			
Indian net	28,200	29,415	104.3%
Angler	4,200	5,337	127.1%
Net and angler mortalities (unlanded)	2,600	2,460	94.6%
Subtotals	35,000	37,212	106.3%
<b>Spawner Escapement</b>			
Natural	35,000	82,544	235.8%
Hatchery	15,000	97,613	650.8%
Subtotals	50,000	180,157	360.3%
<b>Totals</b>	<b>85,000</b>	<b>217,369</b>	<b>255.7%</b>

Complete run-size, harvest and spawner-escapement estimates for both adults and grilse for years 1978-2000 are presented in the accompanying table.

<sup>1/</sup> Prepared March 9, 2001, by the California Department of Fish and Game.

<sup>2/</sup> From "Preseason Report III, Analysis of Council Adopted Management Measures for 2000 Ocean Salmon Fisheries". Prepared by the Salmon Technical Team and Council Staff - Pacific Fisheries Management Council. April 2000.

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000<sup>a</sup>**

**SPAWNER ESCAPEMENT**

	1978			1979			1980		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	915	6,925	7,840	257	2,301	2,558	451	2,412	2,863
Trinity River Hatchery (TRH)	1,325	6,034	7,359	964	1,335	2,299	2,256	4,099	6,355
Subtotals	2,240	12,959	15,199	1,221	3,636	4,857	2,707	6,511	9,218
<b>Natural Spawners</b>									
Trinity River basin									
(above Willow Creek, excluding TRH)	4,712	31,052	35,764	3,936	8,028	11,964	16,837	7,700	24,537
Salmon River basin	1,400	2,600	4,000	150	1,000	1,150	200	800	1,000
Scott River basin	1,909	3,423	5,332	428	3,396	3,824	2,245	2,032	4,277
Shasta River basin	6,707	12,024	18,731	1,040	7,111	8,151	4,334	3,762	8,096
Bogus Creek basin	651	4,928	5,579	494	5,444	5,938	1,749	3,321	5,070
Main Stem Klamath River									
(excluding IGH)	300	1,700	2,000	466	4,190	4,656	867	2,468	3,335
Misc. Klamath tributaries									
(above Hoopa and Yurok Reservations)	735	2,765	3,500	147	1,068	1,215	500	1,000	1,500
<u>Hoopa and Yurok Reservation tribs.</u>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	100 <sup>c</sup>	400 <sup>c</sup>	500 <sup>c</sup>	250 <sup>c</sup>	400 <sup>c</sup>	650 <sup>c</sup>
Subtotals	16,414	58,492	74,906	6,761	30,637	37,398	26,982	21,483	48,465
<b>Total Spawner Escapement</b>	<b>18,654</b>	<b>71,451</b>	<b>90,105</b>	<b>7,982</b>	<b>34,273</b>	<b>42,255</b>	<b>29,689</b>	<b>27,994</b>	<b>57,683</b>

**IN-RIVER HARVEST**

	1978			1979			1980		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	122	854	976	216	484	700	835	727	1,562
Trinity River basin (above Willow Creek)	-- <sup>d</sup>	-- <sup>d</sup>	-- <sup>d</sup>	765	1,157	1,922	2,456	998	3,454
Balance of Klamath system	1,960	840	2,800	1,200	500	1,700	2,600	2,771	5,371
Subtotals	2,082	1,694	3,776	2,181	2,141	4,322	5,891	4,496	10,387
<b>Indian Net Harvest<sup>e</sup></b>									
Klamath River (below Hwy 101 bridge)	--	--	--	--	--	--	495	9,605	10,100
Klamath River (Hwy 101 to Trinity mouth)	--	--	--	--	--	--	272	1,528	1,800
Trinity River (Hoopa Reservation)	--	--	--	--	--	--	220	880	1,100
Subtotals	1,800	18,200	20,000	1,350	13,650	15,000	987	12,013	13,000
<b>Total In-river Harvest</b>	<b>3,882</b>	<b>19,894</b>	<b>23,776</b>	<b>3,531</b>	<b>15,791</b>	<b>19,322</b>	<b>6,878</b>	<b>16,509</b>	<b>23,387</b>

**IN-RIVER RUN**

	1978			1979			1980		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Spawners	22,536	91,345	113,881	11,513	50,064	61,577	36,567	44,503	81,070
Angler Harvest and Escapement	42	34	76	44	43	87	118	90	208
Indian Net Mortality (2% of harvest)	144	1,456	1,600	108	1,092	1,200	79	961	1,040
<b>Total In-river Run</b>	<b>22,722</b>	<b>92,835</b>	<b>115,557</b>	<b>11,665</b>	<b>51,199</b>	<b>62,864</b>	<b>36,764</b>	<b>45,554</b>	<b>82,318</b>

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000\***

**SPAWNER ESCAPEMENT**

	1981			1982			1983		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	540	2,055	2,595	1,833	8,353	10,186	514	8,371	8,885
Trinity River Hatchery (TRH)	1,004	2,370	3,374	4,235	2,058	6,293	271	5,494	5,765
Subtotals	1,544	4,425	5,969	6,068	10,411	16,479	785	13,865	14,650
<b>Natural Spawners</b>									
Trinity River basin									
(above Willow Creek, excluding TRH)	5,906	15,340	21,246	8,149	9,274	17,423	853	17,284	18,137
Salmon River basin	450	750	1,200	300	1,000	1,300	75	1,200	1,275
Scott River basin	3,409	3,147	6,556	4,350	5,826	10,176	170	3,398	3,568
Shasta River basin	4,330	7,890	12,220	1,922	6,533	8,455	753	3,119	3,872
Bogus Creek basin	912	2,730	3,642	2,325	4,818	7,143	335	2,713	3,048
Main Stem Klamath River (excluding IGH)	1,000	3,000	4,000	1,000	3,000	4,000	200	1,800	2,000
Misc. Klamath tributaries (above Hoopa and Yurok Reservations)	500	1,000	1,500	600	1,500	2,100	140	1,270	1,410
Hoopa and Yurok Reservation tribs.	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>
Subtotals	16,507	33,857	50,364	18,646	31,951	50,597	2,526	30,784	33,310
<b>Total Spawner Escapement</b>	<b>18,051</b>	<b>38,282</b>	<b>56,333</b>	<b>24,714</b>	<b>42,362</b>	<b>67,076</b>	<b>3,311</b>	<b>44,649</b>	<b>47,960</b>

**IN-RIVER HARVEST**

	1981			1982			1983		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	536	1,714	2,250	1,252	3,539	4,791	60	750	810
Trinity River basin (above Willow Creek)	1,456	3,174	4,630	2,554	2,321	4,875	116	2,360	2,476
Balance of Klamath system	5,260	1,095	6,355	8,678	2,479	11,157	175	1,125	1,300
Subtotals	7,252	5,983	13,235	12,484	8,339	20,823	351	4,235	4,586
<b>Indian Net Harvest</b> <sup>e</sup>									
Klamath River (below Hwy 101 bridge)	912	23,097	24,009	290	4,547	4,837	12	800	812
Klamath River (Hwy 101 to Trinity mouth)	1,104	8,405	9,509	1,195	8,424	9,619	121	5,700	5,821
Trinity River (Hoopa Reservation)	449	1,531	1,980	314	1,511	1,825	30	1,390	1,420
Subtotals	2,465	33,033	35,498	1,799	14,482	16,281	163	7,890	8,053
<b>Total In-river Harvest</b>	<b>9,717</b>	<b>39,016</b>	<b>48,733</b>	<b>14,283</b>	<b>22,821</b>	<b>37,104</b>	<b>514</b>	<b>12,125</b>	<b>12,639</b>

**IN-RIVER RUN**

	1981			1982			1983		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Spawner Harvest and Escapement	27,768	77,298	105,066	38,997	65,183	104,180	3,825	56,774	60,599
Angler Mortality (2% of harvest)	145	120	265	250	167	417	7	85	92
Indian Mortality (8% of harvest)	197	2,643	2,840	144	1,159	1,303	13	631	644
<b>Total In-river Run</b>	<b>28,110</b>	<b>80,061</b>	<b>108,171</b>	<b>39,391</b>	<b>66,509</b>	<b>105,900</b>	<b>3,845</b>	<b>57,490</b>	<b>61,335</b>

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000<sup>a</sup>**

**SPAWNER ESCAPEMENT**

	1984			1985			1986		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	764	5,330	6,094	2,159	19,951	22,110	1,461	17,096	18,557
Trinity River Hatchery (TRH)	766	2,166	2,932	18,166	2,583	20,749	3,609	15,795	19,404
Subtotals	1,530	7,496	9,026	20,325	22,534	42,859	5,070	32,891	37,961
<b>Natural Spawners</b>									
Trinity River basin (above Willow Creek, excluding TRH)	3,416	5,654	9,070	29,454	9,217	38,671	20,459	92,548	113,007
Salmon River basin	216 <sub>g</sub>	1,226 <sub>g</sub>	1,442 <sub>g</sub>	905	2,259	3,164	949	2,716	3,665
Scott River basin	358	1,443	1,801	1,357	3,051	4,408	4,865	3,176	8,041
Shasta River basin	480	2,362	2,842	2,227	2,897	5,124	683	3,274	3,957
Bogus Creek basin	465	3,039	3,504	1,156	3,491	4,647	1,184	6,124	7,308
Main Stem Klamath River (excluding IGH)	200	1,350	1,550	156	468	624	196	603	799
Misc. Klamath tributaries (above Hoopa and Yurok Reservations)	150	990	1,140	646	4,214	4,860	606	4,919	5,525
Hoopa and Yurok Reservation tribs.	-- <sub>b</sub>	-- <sub>b</sub>	-- <sub>b</sub>	50 <sub>h</sub>	80 <sub>h</sub>	130 <sub>h</sub>	-- <sub>b</sub>	-- <sub>b</sub>	-- <sub>b</sub>
Subtotals	5,285	16,064	21,349	35,951	25,677	61,628	28,942	113,360	142,302
<b>Total Spawner Escapement</b>	<b>6,815</b>	<b>23,560</b>	<b>30,375</b>	<b>56,276</b>	<b>48,211</b>	<b>104,487</b>	<b>34,012</b>	<b>146,251</b>	<b>180,263</b>

**IN-RIVER HARVEST**

	1984			1985			1986		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	175	548	723	1,479	2,427 <sub>i</sub>	3,906	704	2,456	3,160
Trinity River basin (above Willow Creek)	393	736	1,129	5,442	154 <sub>i</sub>	5,596	3,438	12,039	15,477
Balance of Klamath system	384	2,056	2,440	4,274	1,001 <sub>i</sub>	5,275	5,266	6,532	11,798
Subtotals	952	3,340	4,292	11,195	3,582 <sub>i</sub>	14,777	9,408	21,027	30,435
<b>Indian Net Harvest</b>									
Klamath River (below Hwy 101 bridge)	132	11,878	12,010	132	5,700	5,832	191	15,286	15,477
Klamath River (Hwy 101 to Trinity mouth)	183	5,622	5,805	476	3,925	4,401	377	5,033	5,410
Trinity River (Hoopa Reservation)	140	1,170	1,310	947 <sub>j</sub>	1,941 <sub>j</sub>	2,888 <sub>j</sub>	286	4,808	5,094
Subtotals	455	18,670	19,125	1,555	11,566	13,121	854	25,127	25,981
<b>Total In-river Harvest</b>	<b>1,407</b>	<b>22,010</b>	<b>23,417</b>	<b>12,750</b>	<b>15,148</b>	<b>27,898</b>	<b>10,262</b>	<b>46,154</b>	<b>56,416</b>

**IN-RIVER RUN**

	1984			1985			1986		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Angler Harvest and Escapement	8,222	45,570	53,792	69,026	63,359	132,385	44,274	192,405	236,679
Angler Mortality (2% of harvest)	19	67	86	224	72	296	188	421	609
Indian Mortality (8% of harvest)	36	1,494	1,530	124	925	1,049	68	2,010	2,078
<b>Total In-river Run</b>	<b>8,277</b>	<b>47,131</b>	<b>55,408</b>	<b>69,374</b>	<b>64,356</b>	<b>133,730</b>	<b>44,530</b>	<b>194,836</b>	<b>239,366</b>

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates, 1978-2000<sup>a</sup>**

**SPAWNER ESCAPEMENT**

	1987			1988 <sup>b</sup>			1989		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	1,825	15,189	17,014	609	16,106	16,715	831	10,859	11,690
Trinity River Hatchery (TRH)	2,453	13,934	16,387	4,752	17,352	22,104	239	11,132	11,371
Subtotals	4,278	29,123	33,401	5,361	33,458	38,819	1,070	21,991	23,061
<b>Natural Spawners</b>									
Trinity River basin									
(above Willow Creek, excluding TRH)	5,949	71,920	77,869	10,626	44,616	55,242	2,543	29,445	31,988
Salmon River basin	118	3,832	3,950	327	3,273	3,600	695	2,915	3,610
Scott River basin	797	7,769	8,566	473	4,727	5,200	1,188	3,000	4,188
Shasta River basin	398	4,299	4,697	256	2,586	2,842	137	1,440	1,577
Bogus Creek basin	1,208	9,748	10,956	225	16,215	16,440	444	2,218	2,662
Main Stem Klamath River									
(excluding IGH)	65	863	928	164	2,982	3,146	214	1,011	1,225
Misc. Klamath tributaries									
(above Hoopa and Yurok Reservations)	237	3,286	3,523	418	4,167	4,585	248	3,239	3,487
Hoopa and Yurok Reservation tribs.	-- <sup>b</sup>	-- <sup>b</sup>	-- <sup>b</sup>	55 <sup>k</sup>	820 <sup>k</sup>	875 <sup>k</sup>	40 <sup>k</sup>	600 <sup>k</sup>	640 <sup>k</sup>
Subtotals	8,772	101,717	110,489	12,544	79,386	91,930	5,509	43,868	49,377
<b>Total Spawner Escapement</b>	<b>13,050</b>	<b>130,840</b>	<b>143,890</b>	<b>17,905</b>	<b>112,844</b>	<b>130,749</b>	<b>6,579</b>	<b>65,859</b>	<b>72,438</b>

**IN-RIVER HARVEST**

	1987			1988			1989		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	146	2,455	2,601	124	3,367	3,491	137	1,328	1,465
Trinity River basin (above Willow Creek)	923	9,433	10,356	2,735	9,341	12,076	209	3,054	3,263
Balance of Klamath system	4,367	8,281	12,648	2,552	9,495	12,047	1,921	4,393	6,314
Subtotals	5,436	20,169	25,605	5,411	22,203	27,614	2,267	8,775	11,042
<b>Indian Net Harvest<sup>e</sup></b>									
Klamath River (below Hwy 101 bridge)	36	39,978	40,014	138	36,914	37,052	0	37,130	37,130
Klamath River (Hwy 101 to Trinity mouth)	117	8,136	8,253	173	9,667	9,840	120	4,961	5,081
Trinity River (Hoopa Reservation)	262	4,982	5,244	267	5,070	5,337	71	3,474	3,545
Subtotals	415	53,096	53,511	578	51,651	52,229	191	45,565	45,756
<b>Total In-river Harvest</b>	<b>5,851</b>	<b>73,265</b>	<b>79,116</b>	<b>5,989</b>	<b>73,854</b>	<b>79,843</b>	<b>2,458</b>	<b>54,340</b>	<b>56,798</b>

**IN-RIVER RUN**

	1987			1988			1989		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Spawner Harvest and Escapement	18,901	204,105	223,006	23,894	186,698	210,592	9,037	120,199	129,236
Angling Mortality (2% of harvest) <sup>f</sup>	109	403	512	108	444	552	45	176	221
Indian Net Mortality (8% of harvest) <sup>f</sup>	33	4,248	4,281	46	4,132	4,178	15	3,645	3,660
<b>Total In-river Run</b>	<b>19,043</b>	<b>208,756</b>	<b>227,799</b>	<b>24,048</b>	<b>191,274</b>	<b>215,322</b>	<b>9,097</b>	<b>124,020</b>	<b>133,117</b>

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates, 1978-2000\***

**SPAWNER ESCAPEMENT**

	1990			1991			1992		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	321	6,704	7,025	65	4,002	4,067	3,737	3,581	7,318
Trinity River Hatchery (TRH)	371	1,348	1,719	205	2,482	2,687	211	3,779	3,990
Subtotals	692	8,052	8,744	270	6,484	6,754	3,948	7,360	11,308
<b>Natural Spawners</b>									
Trinity River basin (above Willow Creek, excluding TRH)	241	7,682	7,923	382	4,867	5,249	2,563	7,139	9,702
Salmor River basin	596	4,071	4,667	143	1,337	1,480	547	778	1,325
Scott River basin	235	1,379	1,615	146	2,019	2,165	965	1,873	2,838
Shasta River basin	118	415	533	10	716	726	66	520	586
Bogus Creek basin	53	732	785	20	1,261	1,281	556	598	1,154
Main Stem Klamath River (excluding IGH)	59	505	564	8	572	580	234	366	600
Misc. Klamath tributaries (above Hoopa and Yurok Reservations)	30	694	724	9	495	504	153	280	433
Hoopa and Yurok Reservation tribs.	17	118	135	0	382	382	59	474	533
Subtotals	1,350	15,596	16,946	718	11,649	12,367	5,143	12,028	17,171
<b>Total Spawner Escapement</b>	<b>2,042</b>	<b>23,648</b>	<b>25,690</b>	<b>988</b>	<b>18,133</b>	<b>19,121</b>	<b>9,091</b>	<b>19,388</b>	<b>28,479</b>

**IN-RIVER HARVEST**

	1990			1991			1992		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	58	291	349	19	314	333	13	20	33
Trinity River basin (above Willow Creek)	22	328	350	94	1,177	1,271	158	314	472
Balance of Klamath system	2,020	2,934	4,954	573	1,892	2,465	3,949	668	4,617
Subtotals	2,100	3,553	5,653	686	3,383	4,069	4,120	1,002	5,122
<b>Indian Net Harvest</b>									
Klamath River (below Hwy 101 bridge)	13	3,648	3,661	7	3,902	3,909	124	1,152	1,276
Klamath River (Hwy 10) to Trinity mouth)	141	3,447	3,588	25	5,916	5,941	200	3,687	3,887
Trinity River (Hoopa Reservation)	36	811	847	30	1,280	1,310	42	946	988
Subtotals	190	7,906	8,096	62	10,198	10,260	366	5,785	6,151
<b>Total In-river Harvest</b>	<b>2,290</b>	<b>11,459</b>	<b>13,749</b>	<b>748</b>	<b>13,581</b>	<b>14,329</b>	<b>4,486</b>	<b>6,787</b>	<b>11,273</b>

**IN-RIVER RUN**

	1990			1991			1992		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Totals</b>									
In-river Harvest and Escapement	4,332	35,107	39,439	1,736	31,714	33,450	13,577	26,175	39,752
Along Mortality (2% of harvest)	42	71	113	14	68	82	82	20	102
Off-river Mortality (8% of harvest)	15	632	647	5	816	821	29	463	492
<b>Total In-river Run</b>	<b>4,389</b>	<b>35,810</b>	<b>40,199</b>	<b>1,755</b>	<b>32,598</b>	<b>34,353</b>	<b>13,688</b>	<b>26,658</b>	<b>40,346</b>

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**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000\***

**SPAWNER ESCAPEMENT**

	1993			1994			1995		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	883	20,828	21,711	758	11,475 <sub>m</sub>	12,233	259	13,749 <sub>m</sub>	14,008
Trinity River Hatchery (TRH)	736	815	1,551	4,442	3,264	7,706	76	15,178	15,254
Subtotals	1,619	21,643	23,262	5,200	14,739	19,939	335	28,927	29,262
<b>Natural Spawners</b>									
Trinity River basin (above Willow Creek, excluding TRH)	2,465	5,905	8,370	2,505	10,906	13,411	9,262	77,876	87,138
Salmon River basin	456	3,077	3,533	277	3,216	3,493	1,335	4,140	5,475
Scott River basin	265	5,035	5,300	505	2,358	2,863	3,279	11,198	14,477
Shasta River basin	85	1,341	1,426	1,840	3,363	5,203	695	12,816	13,511
Bogus Creek basin	431	3,285	3,716	443	7,817	8,260	1,207	45,225	46,432
Main Stem Klamath River (excluding IGH)	31 <sub>n</sub>	647 <sub>n</sub>	678 <sub>n</sub>	625 <sub>n</sub>	3,249 <sub>n</sub>	3,874 <sub>n</sub>	768 <sub>n</sub>	6,472 <sub>n</sub>	7,240 <sub>n</sub>
Misc. Klamath tributaries (above Hoopa and Yurok Reservations)	92	2,470	2,562	50	1,202	1,252	744 <sub>o</sub>	3,654 <sub>o</sub>	4,398 <sub>o</sub>
Hoopa and Yurok Reservation tribs.	0 <sub>n</sub>	98 <sub>n</sub>	98 <sub>n</sub>	0 <sub>n</sub>	222 <sub>n</sub>	222 <sub>n</sub>	34 <sub>o</sub>	413 <sub>p</sub>	447 <sub>p</sub>
Subtotals	3,825	21,858	25,683	6,245	32,333	38,578	17,324	161,794	179,118
<b>Total Spawner Escapement</b>	<b>5,444</b>	<b>43,501</b>	<b>48,945</b>	<b>11,445</b>	<b>47,072</b>	<b>58,517</b>	<b>17,659</b>	<b>190,721</b>	<b>208,380</b>

**IN-RIVER HARVEST**

	1993			1994			1995		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	23	669	692	246	662	908	323	956	1,279
Trinity River basin (above Willow Creek)	172	391	563	547	260	807	554	2,779	3,333
Balance of Klamath system	1,730	2,112	3,842	1,763	910	2,673	3,543	2,346 <sub>q</sub>	5,889
Subtotals	1,925	3,172	5,097	2,556	1,832	4,388	4,420	6,081	10,501
<b>Indian Net Harvest</b>									
Klamath River (below Hwy 101 bridge)	62	3,017	3,079	81	4,362	4,443	137	5,119	5,256
Klamath River (Hwy 101 to Trinity mouth)	80	5,127	5,207	118	5,064	5,182	152	7,055	7,207
Trinity River (Hoopa Reservation)	33	1,492	1,525	94	2,256	2,360	268	3,383	3,651
Subtotals	175	9,636	9,811	293	11,692	11,985	557	15,557	16,114
<b>Total In-river Harvest</b>	<b>2,100</b>	<b>12,808</b>	<b>14,908</b>	<b>2,849</b>	<b>13,524</b>	<b>16,373</b>	<b>4,977</b>	<b>21,638</b>	<b>26,615</b>

**IN-RIVER RUN**

	1993			1994			1995		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Totals</b>									
In-river Harvest and Escapement	7,544	56,309	63,853	14,294	60,596	74,890	22,636	212,359	234,995
Angling Mortality (2% of harvest)	39	63	102	51	37	88	88	122	210
Net Mortality (8% of harvest)	14	771	785	23	935	958	45	1,245	1,290
<b>Total In-river Run</b>	<b>7,597</b>	<b>57,143</b>	<b>64,740</b>	<b>14,368</b>	<b>61,568</b>	<b>75,936</b>	<b>22,769</b>	<b>213,726</b>	<b>236,495</b>

(continued next page)

**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000\***

**SPAWNER ESCAPEMENT**

	1996			1997			1998		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>									
Iron Gate Hatchery (IGH)	543	13,622	14,165	452	13,275	13,727	403	14,923	15,326
Trinity River Hatchery (TRH)	249	6,411	6,660	820	5,387	6,207	192	14,296	14,488
Subtotals	792	20,033	20,825	1,272	18,662	19,934	595	29,219	29,814
<b>Natural Spawners</b>									
Trinity River basin (above Willow Creek, excluding TRH)	4,478	42,646	47,124	2,845	11,507	14,352	1,974	24,460	26,434
Salmon River basin	274	5,189	5,463	217	5,783	6,000	116	1,337	1,453
Scott River basin	145	11,952	12,097	277	8,284	8,561	266	3,061	3,327
Shasta River basin	46	1,404	1,450	334	1,667	2,001	76	2,466	2,542
Bogus Creek basin	377	10,420	10,797	221	9,809	10,030	205	6,630	6,835
Main Stem Klamath River (excluding IGH)	218 <sup>n</sup>	2,790 <sup>n</sup>	3,008 <sup>n</sup>	104 <sup>n</sup>	3,472 <sup>n</sup>	3,576 <sup>n</sup>	109 <sup>n</sup>	2,913 <sup>n</sup>	3,022 <sup>n</sup>
Misc. Klamath-Trinity tributaries (above Hoopa and Yurok Reservations)	581 <sup>o</sup>	5,804 <sup>o</sup>	6,385 <sup>o</sup>	174 <sup>o</sup>	5,174 <sup>o</sup>	5,348 <sup>o</sup>	83 <sup>o</sup>	1,232 <sup>o</sup>	1,315 <sup>o</sup>
Hoopa and Yurok Reservation tribs.	55 <sup>p</sup>	1,121 <sup>p</sup>	1,176 <sup>p</sup>	53 <sup>p</sup>	448 <sup>p</sup>	501 <sup>p</sup>	26 <sup>p</sup>	389 <sup>p</sup>	415 <sup>p</sup>
Subtotals	6,174	81,326	87,500	4,225	46,144	50,369	2,855	42,488	45,343
<b>Total Spawner Escapement</b>	<b>6,966</b>	<b>101,359</b>	<b>108,325</b>	<b>5,497</b>	<b>64,806</b>	<b>70,303</b>	<b>3,450</b>	<b>71,707</b>	<b>75,157</b>

**IN-RIVER HARVEST**

	1996			1997			1998		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>									
Klamath River (below Hwy 101 bridge)	100	3,110	3,210	49	2,182	2,231	124	1,603	1,727
Klamath River (Hwy 101 to Coon Cr Falls)	1,128	4,052	5,180	1,226	512	1,738	406	1,270	1,676
Trinity River basin (above Willow Creek)	331	1,214	1,545 <sup>r</sup>	353	1,331	1,684 <sup>s</sup>	275	3,262	3,537 <sup>u</sup>
Balance of Klamath system	753	4,390	5,143	781	1,651	2,432 <sup>t</sup>	303	1,575	1,878 <sup>v</sup>
Subtotals	2,312	12,766	15,078	2,409	5,676	8,085	1,108	7,710 <sup>x</sup>	8,818
<b>Indian Net Harvest<sup>e</sup></b>									
Klamath River (below Hwy 101 bridge)	163	49,113	49,276	21	5,574	5,595	16	3,454	3,470
Klamath River (Hwy 101 to Trinity mouth)	19	4,593	4,612	8	5,275	5,283	32	5,198	5,230
Trinity River (Hoopa Reservation)	8	2,770	2,778	6	1,238	1,244	5	1,535	1,540
Subtotals	190	56,476	56,666	35	12,087	12,122	53	10,187	10,240
<b>Total In-river Harvest</b>	<b>2,502</b>	<b>69,242</b>	<b>71,744</b>	<b>2,444</b>	<b>17,763</b>	<b>20,207</b>	<b>1,161</b>	<b>17,897</b>	<b>19,058</b>

**IN-RIVER RUN**

	1996			1997			1998		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Totals</b>									
Over Harvest and Escapement	9,468	170,601	180,069	7,941	82,569	90,510	4,611	89,604	94,215
Angling Mortality (2% of harvest) <sup>f</sup>	46	255	301	48	114	162	22	154	176
Angling Mortality (8% of harvest) <sup>f</sup>	15	4,518	4,533	3	967	970	4	815	819
<b>Total In-river Run</b>	<b>9,529</b>	<b>175,374</b>	<b>184,903</b>	<b>7,992</b>	<b>83,650</b>	<b>91,642</b>	<b>4,637</b>	<b>90,573</b>	<b>95,210</b>



**Klamath River Basin Fall Chinook Salmon Spawner Escapement, In-river Harvest and Run-size Estimates,  
1978-2000\***

**SPAWNER ESCAPEMENT**

	1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Hatchery Spawners</b>						
Iron Gate Hatchery (IGH)	4,830	9,290	14,120	839	71,635	72,474
Trinity River Hatchery (TRH)	2,027	5,037	7,064	1,071	25,978	27,049
Subtotals	6,857	14,327	21,184	1,910	97,613	99,523
<b>Natural Spawners</b>						
Trinity River basin						
(above Willow Creek, excluding TRH)	4,154	6,753	10,907	3,395	23,304	26,699
Salmon River basin	110	670	780	228	1,544	1,772
Scott River basin	563	3,021	3,584	524	5,729	6,253
Shasta River basin	1,901	1,296	3,197	1,271	11,025	12,296
Bogus Creek basin	2,628	3,537	6,165	373	34,678	35,051
Main Stem Klamath River <sup>a</sup>						
(excluding IGH)	630	1,978	2,608	184	3,271	3,455
Misc. Klamath-Trinity tributaries <sup>b</sup>						
(above Hoopa and Yurok Reservations)	251	777	1,028	261	2,051	2,312
Hoopa and Yurok Reservation tribs. <sup>c</sup>	210	425	635	176	942	1,118
Subtotals	10,447	18,457	28,904	6,412	82,544	88,956
<b>Total Spawner Escapement</b>	<b>17,304</b>	<b>32,784</b>	<b>50,088</b>	<b>8,322</b>	<b>180,157</b>	<b>188,479</b>

**IN-RIVER HARVEST**

	1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Angler Harvest</b>						
Klamath River (below Hwy 101 bridge)	37	177	214	108	1,190	1,298
Klamath River (Hwy 101 to Coon Cr Falls)	869 <sup>y</sup>	1,112 <sup>y</sup>	1,981 <sup>y</sup>	972	1,006	1,978
Klamath River (Coon Cr Falls to IGH)	138 <sup>z</sup>	571 <sup>z</sup>	709 <sup>z</sup>	117	1,549	1,666 <sup>bb</sup>
Trinity River basin above Weitchpec <sup>aa</sup>	572	422	994	322	1,592	1,914
Subtotals	1,616	2,282	3,898	1,519	5,337	6,856
<b>Indian Net Harvest <sup>e</sup></b>						
Klamath River (below Hwy 101 bridge)	126	4,387	4,513	35	17,278	17,313
Klamath River (Hwy 101 to Trinity mouth)	49	7,295	7,344	140	6,175	6,315
Trinity River (Hoopa Reservation)	96	2,978	3,074	128	5,962	6,090
Subtotals	271	14,660	14,931	303	29,415	29,718
<b>Total In-river Harvest</b>	<b>1,887</b>	<b>16,942</b>	<b>18,829</b>	<b>1,822</b>	<b>34,752</b>	<b>36,574</b>

**IN-RIVER RUN**

	1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals
<b>Totals</b>						
In-river Harvest and Escapement	19,191	49,726	68,917	10,144	214,909	225,053
Angling Mortality (2% of harvest) <sup>f</sup>	32	46	78	30	107	137
Net Mortality (8% of harvest) <sup>f</sup>	22	1,173	1,195	24	2,353	2,377
<b>Total In-river Run</b>	<b>19,245</b>	<b>50,945</b>	<b>70,190</b>	<b>10,198</b>	<b>217,369</b>	<b>227,567</b>

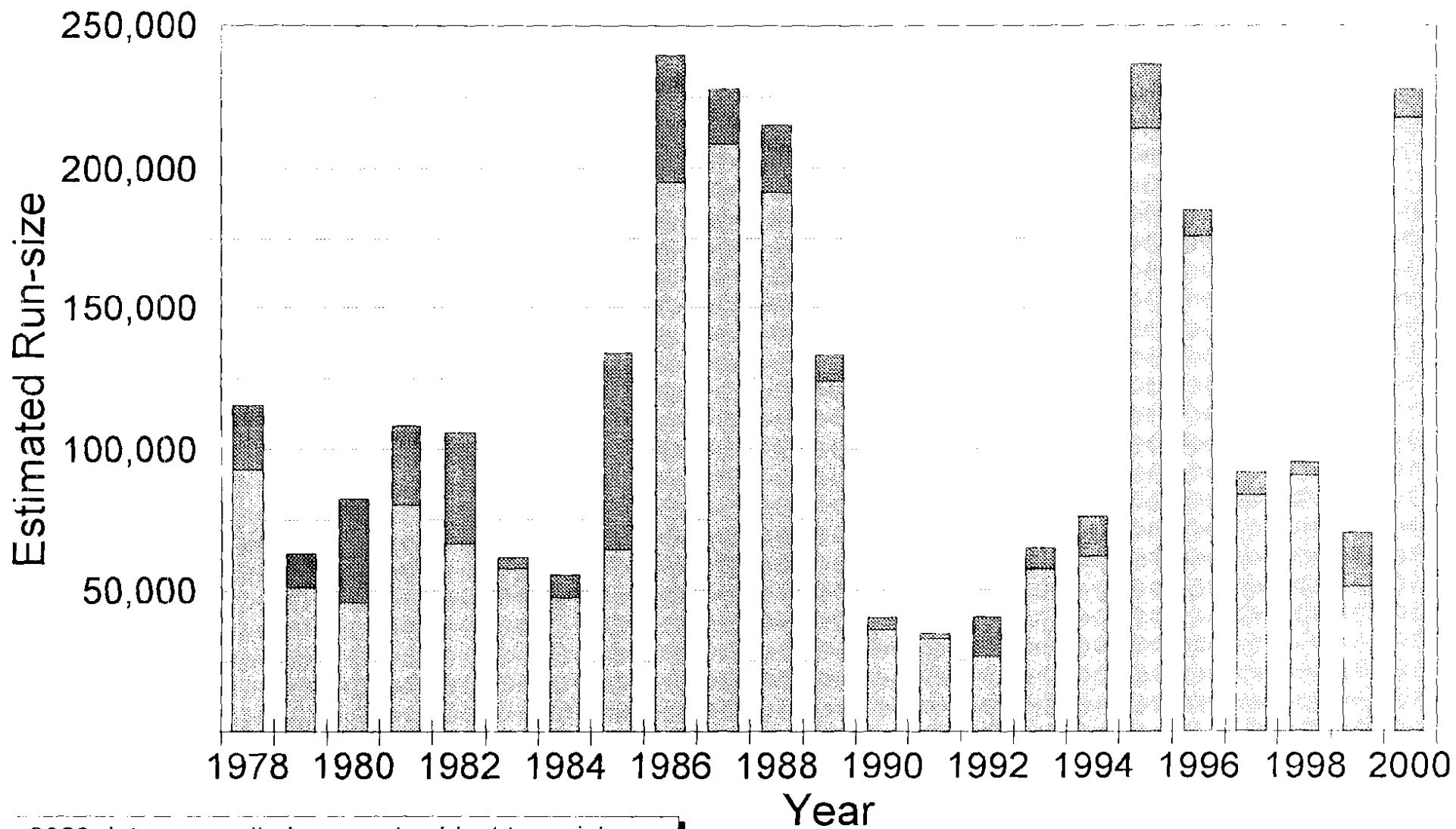
Klamath River Basin Fall Chinook Salmon Spawner Escapement, In river Harvest and Run-size Estimates, 1978-2000 <sup>a</sup>

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- a/ Prepared March 9, 2001. All figures are California Department of Fish and Game (CDFG) counts/estimates unless otherwise indicated. All figures for Iron Gate and Trinity River hatcheries represent counts of fish entering those facilities. All spawner escapement figures for the Shasta River basin for 1978-1987 and 1989-2000, plus those for Bogus Creek basin for 1980-1991 are based on counts made at counting stations located near the mouths of those streams. All remaining spawner escapements and all harvest figures are estimates developed from data obtained through ongoing field investigations in the Klamath-Trinity system. Figures for years through 1999 are final; 2000 figures are preliminary, subject to revision.
- b/ Figure not available.
- c/ USFWS estimate.
- d/ In 1978, the Klamath River system sport salmon fishing season was closed August 25. There was essentially no sport harvest of fall chinook in the Trinity River basin in 1978.
- e/ USFWS estimates for years through 1982; 1983 through 1993 estimates jointly made by USFWS and Hoopa Valley Business Council Fisheries Department (HVBCFD); 1994 through 2000 estimates jointly made by HVBCFD for the Hoopa Reservation and Yurok Tribal Fisheries Department for the Yurok Reservation.
- f/ Factors for non-landed catch mortality calculated by the Klamath River Technical Advisory Team (KRTAT, 1986, "Recommended Spawning Escapement Policy for Klamath River Fall-run Chinook").
- g/ U.S. Forest Service estimate.
- h/ HVBCFD estimate. Estimate for streams in Hoopa Reservation only.
- i/ In 1985, the Klamath River system sport salmon fishing season was closed to the taking of all salmon below the U.S. Highway 101 bridge from September 9 through December 31; the Klamath from the U.S. Highway 101 bridge to Iron Gate Dam and the Trinity River from its mouth to Lewiston Dam were closed to the taking of salmon 22 inches and longer from September 23 through December 31, 1985.
- j/ Estimates for Hoopa Reservation portion of catch (=947 grilse and 1,941 adults) are of catch occurring during open fishing periods only.
- k/ Estimates jointly made by USFWS and HVBCFD.
- l/ Final figures for Salmon River basin natural spawners shown in the December 11, 1991 table were incorrect. Corrected figures, plus necessary revisions to the 1990 totals, are presented here.
- m/ Figure does not include adults that, following entry into Iron Gate Hatchery, were returned to the river alive and un-spawned, and which are presumed to have spawned naturally. This includes 2,333 fish in 1994 and 8,932 fish in 1995.
- n/ CDFG estimate based on USFWS redd count data.
- o/ CDFG and USFS, estimates.
- p/ HVBCFD and YTFD estimates. YTFD fish count for Blue Creek is a based on one survey conducted at peak of spawning and should not be construed as an escapement estimate.
- q/ 750 of these adults were harvested between I-5 and IGH after the river reopened to sport angling on 13 OCT, 1995
- r/ Includes 51 grilse and 178 adults harvested in the main stem Trinity River between Willow Creek weir and the mouth of the Trinity River. HVBCFD estimate.
- s/ Includes 251 grilse and 645 adults harvested in the main stem Trinity River between Willow Creek weir and the mouth of the Trinity River. HVBCFD estimate.
- t/ Additional, but unknown harvest occurred upstream of Interstate 5 for jacks between Oct.2-18 after the 28 day "window" and Oct.18-Nov.30th.for all chinook after Iron Gate Hatchery reached its' required 8,000 adult chinook spawning escapement.
- u/ Includes 298 grilse and 799 adults harvested in the main stem Trinity River between Willow Creek weir and the mouth of the Trinity River. HVBCFD estimate.
- v/ Additional, but unknown harvest occurred upstream of Interstate 5 for jacks between Oct.4-17 after the 28 day "window" and Oct.17-Nov.30th.for all chinook after Iron Gate Hatchery reached its' required 8,000 adult chinook spawning escapement.

- x Includes fish originally classified as grilse, based on the 24 inch TL specified in the 1998 sport angling regulations, which were re-classified as adult based on preliminary analysis of 1998 data.
- y/ Includes 21 Grilse and 42 adults harvested after the lower river reopened on Oct 15, 1999.
- z/ Harvest estimate based on creel census data and includes 54 grilse and 206 adults harvested during the secondary season allowed above the Interstate 5 bridge after IGH achieved 8,000 adult spawners.
- aa/ Harvest estimate based on HVTFD creel census below the Hawkins Bar Bridge and CDFG's estimate based on tag returns for the Trinity River above Willow Creek Weir.
- bb/ Harvest estimate based on creel census data and includes 113 grilse and 938 adults harvested during the secondary season allowed above the Interstate 5 bridge after IGH achieved 8,000 adult spawners.

# Klamath River Basin Fall-Run Chinook Salmon Run-size Estimates, 1978-2000



2000 data are preliminary and subject to revision