

**Klamath River Basin Spring Chinook Salmon Spawner Escapement, River Harvest and Run-size Estimates
1980-2018 a/**

SPAWNER ESCAPEMENT

	1980			1981			1982		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	353	547	900	95	2,405	2,500	150	1,226	1,376
Natural Spawners									
Klamath River Basin			22 ^{c/}			20 ^{c/}			17 ^{c/}
Salmon River									
Misc. Tribs. ^{d/}				0	4	4	0	5	5
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	1,312	1,614	2,926	242	3,362	3,604	387	3,868	4,255
South Fork ^{e/}		25	25					161	161
Misc. Tribs. ^{f/}		49	49					8	8
Subtotals	1,312	1,688	3,022	242	3,366	3,628	387	4,042	4,446
Total Spawner Escapement	1,665	2,235	3,922	337	5,771	6,128	537	5,268	5,822

RIVER HARVEST

	1980			1981			1982		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest				0	1,717	1,717	0	2,440	2,440
Angler									
Trinity River Basin									
Hoopa Tribal Harvest				17	1,090	1,107	10	715	725
Angler ^{b/}	284	140	424	10	2,146	2,156	119	637	756
Total River Harvest	284	140	424	27	4,953	4,980	129	3,792	3,921

RUN-SIZE ESTIMATES

	1980			1981			1982		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	1,949	2,375	4,346	364	10,724	11,108	666	9,060	9,743

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SPAWNER ESCAPEMENT

	1983			1984			1985		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	385	930	1,315	76	736	812	508	2,645	3,153
Natural Spawners									
Klamath River Basin									
Salmon River									32 ^{c/}
Misc. Tribs. ^{d/}		6	6		16	16		5	5
Trinity River Basin									
Above JCW, excluding TRH ^{b/}				140	1,354	1,494	799	4,897	5,696
South Fork ^{e/}					27	27		300	300
Misc. Tribs. ^{f/}		39	39		25	25		29	29
Subtotals		45	45	140	1,422	1,562	799	5,231	6,062
Total Spawner Escapement	385	975	1,360	216	2,158	2,374	1,307	7,876	9,215

RIVER HARVEST

	1983			1984			1985		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest		510	510		247	247		1,074	1,074
Angler									
Trinity River Basin									
Hoopa Tribal Harvest	5	75	75	0	380	380	115	1,000	1,115
Angler ^{b/}				39	375	414	127	736	863
Total River Harvest	5	585	585	39	1,002	1,041	242	2,810	3,052

RUN-SIZE ESTIMATES

	1983			1984			1985		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	390	1,560	1,945	255	3,160	3,415	1,549	10,686	12,267

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SPAWNER ESCAPEMENT

	1986			1987			1988		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	1,461	7,083	8,544	1,387	8,466	9,853	377	13,905	14,282
Natural Spawners									
Klamath River Basin									
Salmon River			88 ^{c/}			63 ^{c/}			98 ^{c/}
Misc. Tribs. ^{d/}				2	2		8	8	
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	4,335	13,371	17,706	2,577	29,083	31,660	241	39,329	39,570
South Fork ^{e/}		183	183		153	153		59	59
Misc. Tribs. ^{f/}								273	273
Subtotals	4,335	13,554	17,977	2,577	29,238	31,878	241	39,669	40,008
Total Spawner Escapement	5,796	20,637	26,521	3,964	37,704	41,731	618	53,574	54,290

RIVER HARVEST

	1986			1987			1988		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	692	692	0	1,646	1,646	0	2,918	2,918
Angler							104	44	148 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	81	2,022	2,022	122	4,146	4,268	84	2,727	2,811
Angler ^{b/}	1,222	2,949	4,171	894	8,467	9,361	102	8,738	8,840
Total River Harvest	1,303	5,663	6,885	1,016	14,259	15,275	290	14,427	14,717

RUN-SIZE ESTIMATES

	1986			1987			1988		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	7,099	26,300	33,406	4,980	51,963	57,006	908	68,001	69,007

**Klamath River Basin Spring Chinook Salmon Spawner Escapement, River Harvest and Run-size Estimates
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SPAWNER ESCAPEMENT

	1989			1990			1991		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	17	4,983	5,000	104	2,433	2,537	71	614	685
Natural Spawners									
Klamath River Basin									
Salmon River					169	^{g/}			187 ^{g/}
Misc. Tribs. ^{d/}		9	9						
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	435	18,241	18,676	126	2,880	3,006	92	1,268	1,360
South Fork ^{e/}		7	7		82	82		66	66
Misc. Tribs. ^{f/}			17			33			5
Subtotals	435	18,257	18,709	126	2,962	3,290	92	1,334	1,618
Total Spawner Escapement	452	23,240	23,709	230	5,395	5,827	163	1,948	2,303

RIVER HARVEST

	1989			1990			1991		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	4,745	4,745	0	1,413	1,413	0	283	283
Angler	0	145	145 ^{h/}	0	17	17 ^{h/}	17	91	108 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	20	1,978	1,998	24	865	889	0	263	263
Angler ^{b/}	50	2,580	2,630	35	810	845	27	309	336
Total River Harvest	70	9,448	9,518	59	3,105	3,164	44	946	990

RUN-SIZE ESTIMATES

	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	522	32,688	33,227	289	8,500	8,991	207	2,894	3,293

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1980-2018 a/**

SPAWNER ESCAPEMENT

	1992			1993			1994		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	533	1,313	1,846	31	2,630	2,661	944	1,943	2,887
Natural Spawners									
Klamath River Basin			368 ^{g/}			311 ^{g/}			755 ^{g/}
Salmon River									
Misc. Tribs. ^{d/}							1		1
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	944	942	1,886	37	2,111	2,148	550	2,897	3,447
South Fork ^{e/}	30	136	166		284	284	18	217	235
Misc. Tribs. ^{f/}	3	15	18			48			22
Subtotals	944	1,093	2,438	37	2,395	2,791	550	3,115	4,460
Total Spawner Escapement	1,477	2,406	4,284	68	5,025	5,452	1,494	5,058	7,347

RIVER HARVEST

	1992			1993			1994		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	396	396	0	550	550	0	501	501
Angler	0	17	17 ^{h/}	0	0	0 ^{h/}	96	0	96 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	0	346	346	0	228	228	0	255	255
Angler ^{b/}	194	104	298	0	423	423	299	155	454
Total River Harvest	194	863	1,057	0	1,201	1,201	395	911	1,306

RUN-SIZE ESTIMATES

	1992			1993			1994		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	1,671	3,269	5,341	68	6,226	6,653	1,889	5,969	8,653

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SPAWNER ESCAPEMENT

	1995			1996			1997		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	385	8,722	9,107	119	5,131	5,250	225	4,892	5,117
Natural Spawners									
Klamath River Basin									
Salmon River	194	1,335	1,529 ^{g/}			1,246 ^{g/}	57	1,234	1,291 ^{g/}
Misc. Tribs. ^{d/}		2	2		2	2			
Trinity River Basin									
Above JCW, excluding TRH ^{b/}				370	16,283	16,653	543	13,049	13,592
South Fork ^{e/}	108	447	555		1,097	1,097		647	647
Misc. Tribs. ^{f/}			135			73			49
Subtotals	302	1,784	2,221	370	17,382	19,071	600	14,930	15,579
Total Spawner Escapement	687	10,506	11,328	489	22,513	24,321	825	19,822	20,696

RIVER HARVEST

	1995			1996			1997		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	2,592	2,592	0	5,905	5,905	0	5,440	5,440
Angler	206	258	464 ^{h/}	264	406	670 ^{h/}	227	559	786 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	93	1,175	1,268	6	1,182	1,188	1	1,250	1,251
Angler ^{b/}				0	1,513	1,513	0	1,330	1,330
Total River Harvest	299	4,025	4,324	270	9,006	9,276	228	8,579	8,807

RUN-SIZE ESTIMATES

	1995			1996			1997		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	986	14,531	15,652	759	31,519	33,597	1,053	28,401	29,503

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SPAWNER ESCAPEMENT

	1998			1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	184	4,679	4,863	547	3,671	4,218	571	11,594	12,165
Natural Spawners									
Klamath River Basin									
Salmon River			265 ^{g/}	56	380	436 ^{g/}	22	203	225 ^{g/}
Misc. Tribs. ^{d/}		2	2		14	14		6	6
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	567	9,057	9,624	440	5,968	6,408	1,264	10,846	12,110
South Fork ^{e/}	1	171	172	18	157	175	25	231	256
Misc. Tribs. ^{f/}			33			15	0	16	16
Subtotals	568	9,230	10,096	514	6,519	7,048	1,311	11,302	12,613
Total Spawner Escapement	752	13,909	14,959	1,061	10,190	11,266	1,882	22,896	24,778

RIVER HARVEST

	1998			1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest		2,338	2,338		2,392	2,392		3,207	3,207
Angler	19	393	412 ^{h/}	41	604	645 ^{h/}	39	122	161 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	45	426	471	13	776	789	41	1,856	1,897
Angler ^{b/}	51	1,629	1,680	41	626	667	324	1,483	1,807
Total River Harvest	115	4,786	4,901	95	4,398	4,493	404	6,668	7,072

RUN-SIZE ESTIMATES

	1998			1999			2000		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	867	18,695	19,860	1,156	14,588	15,759	2,286	29,564	31,850

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SPAWNER ESCAPEMENT

	2001			2002			2003		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	629	6,366	6,995	617	10,440	11,057	130	14,512	14,642
Natural Spawners									
Klamath River Basin									
Salmon River	63	325	388 ^{g/}	27	984	1,011 ^{g/}	25	1,241	1,266 ^{g/}
Misc. Tribs. ^{d/}	1	1	2	2	2	4	0	1	1
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	1,178	10,284	11,462	1,883	23,674	25,557	909	30,211	31,120
South Fork ^{e/}	22	144	166	37	347	384	12	263	275
Misc. Tribs. ^{f/}	2	6	8	10	16	26	1	83	84
Subtotals	1,266	10,760	12,026	1,959	25,023	26,982	947	31,799	32,746
Total Spawner Escapement	1,895	17,126	19,021	2,576	35,463	38,039	1,077	46,311	47,388

RIVER HARVEST

	2001			2002			2003		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest		14,890	14,890	127	12,139	12,266	93	6,597	6,690
Angler	65	833	898 ^{h/}	61	751	812 ^{h/}	20	226	246 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	46	4,164	4,210	40	3,192	3,232	7	2,377	2,384
Angler ^{b/}	258	906	1,164	75	1,796	1,871	0	2,033	2,033
Total River Harvest	369	20,793	21,162	303	17,878	18,181	120	11,233	11,353

RUN-SIZE ESTIMATES

	2001			2002			2003		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	2,264	37,919	40,183	2,879	53,341	56,220	1,197	57,544	58,741

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SPAWNER ESCAPEMENT

	2004			2005			2006		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	985	5,251	6,236	25	6,966	6,991	819	2,565	3,384
Natural Spawners									
Klamath River Basin									
Salmon River	101	343	444 ^{g/}	12	78	90 ^{g/}	83	233	316 ^{g/}
Misc. Tribs. ^{d/}	1	2	3	1	8	9	0	1	1
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	1,708	7,314	9,022	30	6,003	6,033	1,127	2,955	4,082
South Fork ^{e/}	14	45	59	11	61	72	8	138	146
Misc. Tribs. ^{f/}	5	12	17	2	4	6	42	70	112
Subtotals	1,829	7,716	9,545	56	6,154	6,210	1,260	3,397	4,657
Total Spawner Escapement	2,814	12,967	15,781	81	13,120	13,201	2,079	5,962	8,041

RIVER HARVEST

	2004			2005			2006		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	15	3,595	3,610	0	2,258	2,258	47	2,671	2,718
Angler	16	17	33 ^{h/}	9	84	93 ^{h/}	123	35	158 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	62	1,944	2,006	17	1,858	1,875	58	1,632	1,690
Angler ^{b/}	145	421	566	0	691	691	21	0	21 ^{i/}
Total River Harvest	238	5,977	6,215	26	4,891	4,917	249	4,338	4,587

RUN-SIZE ESTIMATES

	2004			2005			2006		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	3,052	18,944	21,996	107	18,011	18,118	2,328	10,300	12,628

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SPAWNER ESCAPEMENT

	2007			2008			2009		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	55	5,981	6,036	329	3,437	3,766	69	3,000	3,069
Natural Spawners									
Klamath River Basin									
Salmon River	80	842	922 ^{g/}	367	945	1,312 ^{g/}	124	545	669 ^{g/}
Misc. Tribs. ^{d/}				2	5	7	0	3	3
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	80	8,154	8,234	1,741	4,470	6,211	191	3,724	3,915
South Fork ^{e/}	4	208	212				9	107	116
Misc. Tribs. ^{f/}	4	54	58	5	23	28	47	46	93
Subtotals	168	9,258	9,426	2,115	5,443	7,558	371	4,425	4,796
Total Spawner Escapement	223	15,239	15,462	2,444	8,880	11,324	440	7,425	7,865

RIVER HARVEST

	2007			2008			2009		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	4,494	4,494	9	2,020	2,029	2	1,760	1,762
Angler	25	72	97 ^{h/}	174	74	248 ^{h/}	11	37	48 ^{h/}
Trinity River Basin									
Hoopa Tribal Harvest	6	1,349	1,355	77	1,327	1,404	74	1,764	1,838
Angler ^{b/}	0	565	565	148	158	306	0	442	442
Total River Harvest	31	6,480	6,511	408	3,579	3,987	87	4,003	4,090

RUN-SIZE ESTIMATES

	2007			2008			2009		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	254	21,719	21,973	2,852	12,459	15,311	527	11,428	11,955

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SPAWNER ESCAPEMENT

	2010			2011			2012		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	245	2,457	2,702	2,758	3,823	6,581	109	6,712	6,821
Natural Spawners									
Klamath River Basin									
Salmon River	280	1,081	1,361 ^{g/}	351	1,242	1,593 ^{g/}	187	1,104	1,291 ^{g/}
Misc. Tribs. ^{d/}	0	3	3	23	82	105	2	0	2
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	1,309	6,810	8,119	5,217	7,309	12,526	542	16,117	16,659
South Fork ^{e/}	15	108	123	197	240	437	61	779	840
Misc. Tribs. ^{f/}	50	180	230	199	361	560	69	358	427
Subtotals	1,654	8,182	9,836	5,987	9,234	15,221	861	18,358	19,219
Total Spawner Escapement	1,899	10,639	12,538	8,745	13,057	21,802	970	25,070	26,040

RIVER HARVEST

	2010			2011			2012		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	6	3,273	3,279	29	2,586	2,615	33	3,589	3,622
Angler	183	566	749 ^{j/}	645	942	1,587 ^{j/}	230	545	775 ^{j/}
Trinity River Basin									
Hoopa Tribal Harvest	4	1,740	1,744	108	2,282	2,390	21	2,647	2,668
Angler ^{b/}	0	454	454	112	0	112	163	1,976	2,139
Total River Harvest	193	6,033	6,226	894	5,810	6,704	447	8,757	9,204

RUN-SIZE ESTIMATES

	2010			2011			2012		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	2,092	16,672	18,764	9,639	18,867	28,506	1,417	33,827	35,244

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SPAWNER ESCAPEMENT

	2013			2014			2015		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{b/}	96	2,482	2,578	362	3,255	3,617	240	1,748	1,988
Natural Spawners									
Klamath River Basin									
Salmon River	125	770	895 ^{g/}	63	832	895 ^{g/}	28	273	301 ^{g/}
Misc. Tribs. ^{d/}	5	13	18	0	21	21	0	7	7
Trinity River Basin									
Above JCW, excluding TRH ^{b/}	185	5,956	6,141	282	2,833	3,115	250	1,980	2,230
South Fork ^{e/}	36	295	331	8	83	91			
Misc. Tribs. ^{f/}	58	166	224	27	105	132	0	0	0
Subtotals	409	7,200	7,609	380	3,874	4,254	278	2,260	2,538
Total Spawner Escapement	505	9,682	10,187	742	7,129	7,871	518	4,008	4,526

RIVER HARVEST

	2013			2014			2015		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	7	3,753	3,760	16	3,145	3,161	0	2,577	2,577
Angler	141	1,221	1,362 ^{j/}	169	1,107	1,276 ^{j/}	76	457	533 ^{j/}
Trinity River Basin									
Hoopa Tribal Harvest	19	1,202	1,221	85	1,733	1,818	15	1,087	1,102
Angler ^{b/}	0	243	243 ^{k/}	16	210	226	0	139	139
Total River Harvest	167	6,419	6,586	286	6,195	6,481	91	4,260	4,351

RUN-SIZE ESTIMATES

	2013			2014			2015		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	672	16,101	16,773	1,028	13,324	14,352	609	8,268	8,877

(Continued next page)

**Klamath River Basin Spring Chinook Salmon Spawner Escapement, River Harvest and Run-size Estimates
1980-2018 a/**

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SPAWNER ESCAPEMENT

	2016			2017			2018		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{lv}	277	1,830	2,107	246	1,134	1,380	420	2,488	2,908
Natural Spawners									
Klamath River Basin									
Salmon River	33	406	439 ^{g/}	33	133	166 ^{g/}	20	171	191
Misc. Tribs. ^{g/}	0	0	0	0	2	2	1	11	12
Trinity River Basin									
Above JCW, excluding TRH ^{lv}	250	1,331	1,581	486	2,483	2,969	507	4,352	4,859
South Fork ^{g/}	3	58	61	4	17	21	2	17	19
Misc. Tribs. ^{g/}	6	42	48	2	32	34	11	6	17
Subtotals	292	1,837	2,129	525	2,667	3,192	541	4,557	5,098
Total Spawner Escapement	569	3,667	4,236	771	3,801	4,572	961	7,045	8,006

IN-RIVER HARVEST

	2016			2017			2018		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest	0	1001	1,001	5	884	889	5	1,306	1,311
Angler	65	467	532 ^{y/}	79	373	452 ^{y/}	139	853	992
Trinity River Basin									
Hoopa Tribal Harvest	14	679	693	8	412	420	49	481	530
Angler ^{lv}	18	198	216	76	29	105	0	265	265
Total River Harvest	97	2,345	2,442	168	1,698	1,866	193	2,905	3,098

RUN-SIZE ESTIMATES

	2016			2017			2018		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	666	6,012	6,678	939	5,499	6,438	1,154	9,950	11,104

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**Klamath River Basin Spring Chinook Salmon Spawner Escapement, River Harvest and Run-size Estimates
1980-2018 a/**

SPAWNER ESCAPEMENT

	2019			2020			2021		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Hatchery Spawners									
Trinity River Hatchery (TRH) ^{lv}	0			0			0		
Natural Spawners									
Klamath River Basin									
Salmon River			0 ^{g/}			0 ^{g/}			0
Misc. Tribs. ^{af}			0			0			0
Trinity River Basin									
Above JCW, excluding TRH ^{lv}			0			0			0
South Fork ^{af}			0			0			0
Misc. Tribs. ^{af}			0			0			0
Subtotals	0	0	0	0	0	0	0	0	0
Total Spawner Escapement	0	0	0	0	0	0	0	0	0

IN-RIVER HARVEST

	2019			2020			2021		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Harvest									
Klamath River Basin									
Yurok Tribal Harvest			0			0			0
Angler			0 ^{y/}			0 ^{y/}			0
Trinity River Basin									
Hoopa Tribal Harvest			0			0			0
Angler ^{lv}			0			0			0
Total River Harvest	0	0	0	0	0	0	0	0	0

RUN-SIZE ESTIMATES

	2019			2020			2021		
	Grilse	Adults	Totals	Grilse	Adults	Totals	Grilse	Adults	Totals
Total Run-size Estimates	0	0	0	0	0	0	0	0	0

(Continued next page)

Footnotes

- a/ 2018 data is preliminary and subject to revision.
- b/ CDFW Trinity Basin Salmon and Steelhead Monitoring Project Annual Reports (1980 - 2017). Mark-recapture project above JCW not funded in 1995.
- c/ Index reach counts only (1980-1989). Adults and grilse not enumerated separately.
- d/ Select mid-Klamath Tributaries from Orleans and Happy Camp Ranger Districts Summer steelhead surveys; incidental observations of Spring Chinook (all streams not surveyed each year).
- e/ Dive surveys of South Fork Trinity and tributary Hayfork Creek. Hayfork Creek surveys began 1995. Jacks not enumerated in 1989-1991, 1993, 1996-1997. Hayfork Creek not surveyed in 2009, 2013-2014. No surveys conducted in 2008, 2015.
- f/ Trinity River Misc Tribs includes New River, North Fork Trinity and Canyon Creek. Jacks not enumerated for all tributaries, combined totals only for 1989-1991, 1993-1999. Canyon Creek not surveyed 1989, 2014-2015. North Fork Trinity not surveyed 1989, 2018. New River not surveyed 2015. Not all reaches surveyed each year.
- g/ Full habitat Dive Survey Count of Salmon River Mainstem, Wooley Creek, North Fork, South Fork, and East Fork of the South Fork, including Index reach counts (1990 to present). Jacks not enumerated, or jacks/adult counts combined in 1990-1994, 1996, 1998. Additional tributaries to the Salmon River surveyed 1996, 2006, 2007, 2015, 2017 to present (counts included in totals). Observed spring Chinook mortalities included in adult counts in 1994, 2002-2004, 2014 to present.
- h/ From Spring Chinook salmon CWTs recovered in CDFW Fall Chinook recreational creel survey (1988-2010).
- i/ Includes Hoopa creel below Willow Creek weir and estimated harvest above Junction City weir.
- j/ Numbers from the Spring Chinook salmon creel performed by CDFW mid-April until the fall Chinook salmon creel began the first weekend in August (2010 to present).
- k/ Above JC weir, numbers derived from tag returns only.

SPAWNER ESCAPEMENT	CONTACT NAME	EMAIL
Hatchery Spawners		
Trinity River Hatchery (TRH)	CDFW - Mary Claire Kier	maryclaire.kier@wildlife.ca.gov
Natural Spawners		
Klamath River Basin		
Salmon River	USFS - Maija Meneks	mmeneks@fs.fed.us
Misc. Tributaries (Mid-Klamath)	USFS - John Grunbaum	jgrunbaum@fs.fed.us
	USFS - LeRoy Cyr	lcyr@fs.fed.us
	CDFW - Domenic Giudice	domenic.giudice@wildlife.ca.gov
Trinity River Basin		
Above JCW, excluding TRH	CDFW - Mary Claire Kier	maryclaire.kier@wildlife.ca.gov
South Fork	CDFW - Andrew Hill	andrew.hill@wildlife.ca.gov
Misc. Tribs.	USFS - Andrea McBroom	andreatmcbroom@fs.fed.us
HARVEST		
Klamath River Basin		
Yurok Tribe	Yurok Tribe - Desma Williams	dwilliams@yuroktribe.nsn.us
Recreational (Lower Klamath)	CDFW - Dan Troxel	dan.troxel@wildlife.ca.gov
Trinity River Basin		
Hoopa Tribal Harvest	Hoopa Tribe - Billy Matilition	bmatilton@hoopa-nsn.gov
Recreational (above JCW)	CDFW - Mary Claire Kier	maryclaire.kier@wildlife.ca.gov

Data Caveats

1. Data are provided by Klamath basin agencies, tribes and non-profits and are not subject to external peer review.
2. Blanks cells represent no surveys or estimates, and zeros indicate surveys where no fish were observed. Basin estimates are subject to funding, personnel availability and entity priorities, therefore some sector estimates in some years are missing or are partial estimates.
3. Data collection methods vary by sector, general descriptions are the following:
 - Escapement
 - Trinity River Hatchery- Direct count
 - Salmon River- Single pass dive count
 - Misc. Klamath tribes - Single pass dive count
 - Trinity River above Junction City Weir- mark/recapture estimate
 - South Fork Trinity River- Single pass dive count
 - Trinity River misc. tribes- Single pass dive count
 - Harvest
 - Yurok Tribal harvest- roving estimate of effort and catch
 - Lower Klamath rec. harvest - roving and access point creel survey estimate
 - Hoopa Tribal Harvest - roving estimate of effort and catch
 - Trinity River rec. harvest (above Junction City weir) - Estimated via angler tag returns (harvest rate X run above Junction City weir)
4. Jack and adult estimates are obtained by visual interpretation (single pass dive counts) or by length frequency analyses (hatchery, Junction City weir, harvest estimates)
5. Natural escapement above Junction City weir contains annual variable hatchery component (stray component).
6. Trinity River Hatchery Spring Chinook mitigation production goals are 1 million smolts and 400,000 yearlings annually. These goals are not achieved in all years.
7. Run and spawn timing and spawn locations overlap with fall Chinook salmon in some areas, which could bias escapement and harvest estimates in some years.
8. State and Tribal fishery regulations can influence both harvest and escapement. Klamath basin Spring Chinook are currently not managed by the Pacific Fishery Management Council for tribal/non-tribal allocations.