

Draft TRT Document – for Discussion Purposes – OK to circulate

**Appendix 4 Basin geographic, hydrologic, and ecological characteristics with intrinsic potential estimates of spawners.**

Population Basin				BASIN CLIMATE											
Population Name	Area KM2	Mean Elev. (m)	Total Stream Length (m)	Mean Max Temp. C*100		Mean Min Temp. C*100		Mean Precipitation (mm)			Hydrograph Type (%)				
				January	July	January	July	January	July	Annual	Lowland	Rain Dominated	R/S Dominated	Snow Dominated	Highland
Big Quilcene	286.0	741	193352	405	2058	-206	966	230	39	1650	0.271	0.148	0.346	0.149	0.086
Puyallup	491.4	586	337853	381	2191	-198	925	304	59	2165	0.326	0.183	0.179	0.229	0.083
Dosewallips	299.6	1118	208641	252	1827	-360	830	302	44	2254	0.035	0.139	0.343	0.297	0.186
Drayton Harbor	800.5	114	485509	568	2259	-44	1104	162	45	1271	0.723	0.238	0.037	0.002	0.000
Duckabush	200.3	964	109979	308	1918	-294	893	321	42	2351	0.067	0.105	0.423	0.308	0.097
Dungeness	518.0	1056	288676	278	1893	-342	837	234	36	1583	0.132	0.130	0.354	0.214	0.170
Elwha	835.3	1018	473071	311	1901	-299	851	382	41	2564	0.050	0.089	0.360	0.387	0.114
Green River	1191.4	529	787979	424	2257	-181	952	243	44	1734	0.418	0.108	0.198	0.205	0.071
Hamma Hamma	217.0	882	126875	330	1990	-271	928	362	37	2560	0.058	0.103	0.551	0.175	0.112
Hood Canal East	515.1	105	298483	693	2430	80	1131	212	26	1478	0.971	0.029	0.000	0.000	0.000
Kitsap - East/Curley	691.7	75	259261	723	2383	132	1175	169	23	1194	0.988	0.012	0.000	0.000	0.000
Lake Washington***	426.6	75	158212	725	2399	123	1197	139	24	1025	0.953	0.047	0.000	0.000	0.000
Nisqually	1842.3	558	1002950	514	2296	-163	939	233	39	1650	0.425	0.141	0.178	0.166	0.090
Nooksack - MF	261.1	990	183271	248	2037	-391	862	452	82	3226	0.019	0.124	0.151	0.349	0.358
Nooksack - NF	766.1	965	472440	216	2046	-420	840	298	72	2342	0.061	0.134	0.187	0.206	0.411
Nooksack - SF	475.3	698	326570	381	2170	-256	984	400	75	2869	0.082	0.245	0.244	0.290	0.140
Nooksack - mainstem	536.5	98	343117	534	2332	-78	1086	175	50	1400	0.842	0.095	0.059	0.005	0.000
Puyallup - Carbon	596.7	790	401024	399	2123	-270	866	226	58	1758	0.158	0.241	0.218	0.152	0.231
Puyallup - White	1286.7	1034	863052	174	2036	-446	752	261	43	1767	0.151	0.067	0.147	0.230	0.405
Puyallup - entire basin***	681.1	670	358388	456	2209	-231	888	226	46	1648	0.415	0.124	0.140	0.115	0.206
Samish	292.8	215	206521	561	2302	-63	1056	206	54	1595	0.547	0.331	0.090	0.032	0.000
Sammamish	622.8	144	331222	654	2360	51	1111	165	34	1250	0.852	0.115	0.033	0.000	0.000
Sauk	1898.2	1133	1077864	41	2082	-611	822	405	63	2758	0.000	0.132	0.122	0.210	0.535
Sequim/Discovery/Dabob Bays	801.7	181	358130	639	2266	51	1110	110	27	838	0.796	0.138	0.065	0.001	0.000
Skagit - Baker River	771.2	1012	420998	186	2042	-456	817	406	80	3014	0.000	0.196	0.121	0.219	0.465
Skagit - Cascade	479.2	1241	323769	16	2000	-666	771	373	65	2606	0.000	0.073	0.120	0.187	0.620
Skagit - Finney	139.8	717	84758	344	2178	-318	977	490	75	3331	0.009	0.232	0.258	0.366	0.134
Skagit - Lower	929.9	352	713357	509	2259	-117	1029	271	61	2028	0.427	0.269	0.133	0.151	0.021
Skagit - Middle	892.2	944	463760	174	2088	-479	893	378	68	2678	0.000	0.226	0.146	0.225	0.403
Skokomish - NF	304.0	708	187013	425	2121	-187	958	407	43	2862	0.152	0.230	0.394	0.190	0.033
Skokomish - SF	271.4	533	198862	505	2209	-84	1033	477	53	3324	0.116	0.318	0.496	0.069	0.000
Skokomish - entire basin*	52.3	83	23754	698	2475	57	1065	292	24	1990	1.000	0.000	0.000	0.000	0.000
Skykomish - NF	380.7	1067	276359	96	2096	-494	813	472	73	3148	0.000	0.073	0.188	0.273	0.465
Skykomish NF and SF **	1801.5	789	1194822	254	2143	-323	881	384	63	2629	0.117	0.219	0.184	0.192	0.287
Snohomish***	385.0	52	296061	700	2421	70	1138	157	36	1234	1.000	0.000	0.000	0.000	0.000
Snohomish - Pilchuck River	350.4	253	231089	569	2312	-20	1069	245	51	1855	0.578	0.321	0.064	0.032	0.005
Snoqualmie	1534.9	636	1084093	347	2185	-220	916	342	66	2451	0.228	0.266	0.148	0.166	0.192
Snoqualmie - Tolt River	262.8	602	167876	361	2183	-190	939	352	77	2588	0.138	0.338	0.231	0.211	0.083
South Sound Inlets	2467.7	117	862990	692	2445	45	1088	199	25	1398	0.909	0.059	0.027	0.005	0.000
Stillaguamish - Canyon	163.5	704	84860	378	2141	-201	971	452	91	3175	0.001	0.327	0.313	0.297	0.062
Stillaguamish - Deer Creek	181.1	770	105313	367	2129	-246	939	475	91	3328	0.000	0.211	0.286	0.444	0.058
Stillaguamish - NF	567.5	568	358823	408	2218	-206	998	401	72	2808	0.062	0.423	0.186	0.223	0.106
Stillaguamish - SF	488.2	600	323142	360	2193	-219	994	403	78	2919	0.156	0.335	0.182	0.206	0.120
Stilliguamish*	343.7	219	339944	607	2261	6	1080	192	53	1559	0.648	0.231	0.098	0.023	0.000
Strait Independents/PA Independents	412.6	550	246441	443	2086	-119	1013	193	25	1271	0.380	0.237	0.228	0.120	0.035
Tahuya	126.1	141	94384	669	2482	39	1104	255	29	1768	0.925	0.075	0.000	0.000	0.000

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Appendix 4 Basin geographic, hydrologic, and ecological characteristics with intrinsic potential based estimate of spawners.

Population Basin						Intrinsic Potential Habitat						IP	Spawners
Population Name	Length (m)	Defined Current Spawning				Low Rating		Moderate Rating		High Rating			
		Bankfull Area (m2)	Min elev. (m)	Mean elev. (m)	Max elev. (m)	Length (m)	Bankfull Area (m2)	Length (m)	Bankfull Area (m2)	Length (m)	Bankfull Area (m2)		
Big Quilcene	25398	388168	0	84.3	330	30555	220214			26598	418446	0.42	795
Boundary tribs	29821	243889	1	24.4	89	79376	173982			157660	937747	0.94	1,782
Cedar River	36494	1460927	7	79.3	165	13627	158663			72566	2386917	2.39	4,535
Dosewallips	23599	817164	6	127.5	394	7794	212642			18398	638235	0.64	1,213
Duckabush	13999	443440	0	73.9	199	3198	92108			12398	371569	0.37	706
Dungeness	38998	1448947	4	176.3	468	34462	505776			26399	1073249	1.07	2,039
Elwha	7000	254820	0	9.2	23	28293	824340	27200	1606740	44188	1484141	3.09	5,873
Green River	129392	4822522	7	224.3	639	152923	1726247	86257	5105654	193119	3214443	8.32	15,809
Hamma Hamma	6267	158186	5	13.5	45	2468	43118			4597	133277	0.13	253
Hood Canal East	37995	433051	0	37.0	115	89556	478363			109246	1003679	1.00	1,907
Kitsap - East/Curley	36695	243762	1	34.2	117	81953	200568			104702	609021	0.61	1,157
Lake Washington***						50651	109136			38156	222009	0.22	422
Nisqually	86308	5102371	2	139.4	749	59935	491938	59600	4575960	174164	1927293	6.50	12,357
Nooksack - MF	20794	511497	87	146.4	341	22984	461241			28392	695159	0.70	1,321
Nooksack - NF	69336	2214299	87	211.3	464	22187	338957	14351	759058	55780	1399649	2.16	4,102
Nooksack - SF	69192	2238973	66	208.9	623	26459	543213			81662	2238396	2.24	4,253
Nooksack - mainstem	77693	2499597	11	44.8	126	25386	72189	49417	4220449	142363	1073698	5.29	10,059
Puyallup - Carbon	77214	2176282	33	207.4	552	20405	457081			77021	2083096	2.08	3,958
Puyallup - White	73393	3063953	18	346.7	807	79709	1492891	70600	4769200	126362	2820242	7.59	14,420
Puyallup - entire basin***	90059	2829789	6	224.7	691	62966	972286	22999	2021526	86178	2156970	4.18	7,939
Samish	45794	668998	13	58.6	119	26957	197751			89382	1055291	1.06	2,005
Sammamish	18987	350671	8	51.5	119	59483	317703			184276	2171066	2.17	4,125
Sauk	145595	8159441	67	277.3	828	93608	2768556	100199	7088850	94149	2864886	9.95	18,913
Sequim/Discovery/Dabob Bays	34622	248158	0	58.7	234	171309	353143			30815	240940	0.24	458
Skagit - Baker River	10200	315580	220	259.2	320	40652	824951	13600	756160	52976	1534617	2.29	4,353
Skagit - Cascade	30197	1187733	94	251.1	398	12591	337926			31767	1149352	1.15	2,184
Skagit - Finney	19199	562970	41	93.2	166	3197	74219			17999	524962	0.52	997
Skagit - Lower	72606	6713543	11	50.5	247	141514	1122711	73400	17101080	149817	1764942	18.87	35,846
Skagit - Middle	69994	8182817	47	130.5	612	30185	799340	45999	7648256	30605	653763	8.30	15,774
Skokomish - NF	15197	497351	15	56.3	188	15392	516433			45008	1914597	1.91	3,638
Skokomish - SF	58192	2427743	12	139.5	351	31539	1158210	600	30480	45590	1872480	1.90	3,616
Skokomish - entire basin*	15216	505225	0	6.6	15	599	7547	8016	505225	2632	32241	0.54	1,021
Skykomish - NF	32397	1391300	144	326.3	584	12989	368595			29994	1290272	1.29	2,452
Skykomish NF and SF **	110628	6139374	4	53.9	235	52852	1532354	44674	4273849	146823	2552340	6.83	12,970
Snohomish***	2388	343780	4	4.0	4	54085	157561	3354	523049	60181	304435	0.83	1,572
Snohomish - Pilchuck River	70393	1717481	0	98.0	300	32530	226090			144372	2220396	2.22	4,219
Snoqualmie	59395	1833439	3	92.9	402	33105	447406	62199	5354465	116446	1252782	6.61	12,554
Snoqualmie - Tolt River	32791	855847	18	164.1	460	4998	106955			31957	829094	0.83	1,575
South Sound Inlets	51474	776592	0	27.7	125	68604	642100			407408	4392000	4.39	8,345
Stillaguamish - Canyon	19600	699920	64	193.8	352	9996	276024			16503	557334	0.56	1,059
Stillaguamish - Deer Creek	25596	802460	56	495.0	744	36190	1058577			23198	769295	0.77	1,462
Stillaguamish - NF	92587	3430806	15	103.5	617	43190	876787	21799	1295299	81446	2234519	3.53	6,707
Stillaguamish - SF	48596	1968624	16	56.8	192	21737	313394	24799	1319423	40793	696481	2.02	3,830
Stilliguamish*	22308	1519898	6	17.6	64	51431	175739	17308	1499778	91765	668302	2.17	4,119
Strait Independents/PA Independents	36599	499220	2	90.8	287	53211	363118			20930	305255	0.31	580
Tahuya	28797	445691	1	55.9	127	14444	129624			70299	832765	0.83	1,582

\* below Forks

\*\* below Forks (includes So.Fork)

\*\*\* without sub-groups

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**Appendix 5. Puget Sound steelhead hatchery production from 1900 to 1945.** Release numbers represent fry or fingerlings (subyearlings), E – egg production (in addition to fish listed), out – transfers of eggs or fish from the hatchery. Data for 1900-1911 is incomplete.

Basin	Hatchery/Station	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916
Nookack	Kendall							55,000 E						50,000 E	203,400	98,705	74,176	
	Kendall (out)																	
Samish	Samish													2,310,000 E	994,000	1,406,252	1,311,149	
	Samish (out)																	
Skagit	Baker	26,000		110,000	80,000 E	255,000 E		103,000 E							1,368,000	12,400		
	Birdsview				663,815	70,000		540,000										
	Birdsview (out)						400,000 E							733,000 E	780,000 E	579,000 E	1,848,365	529,000 E
	Darrington													2,001,650	409,000	752,225		1,207,000
	Day Creek													125,000 E	350,000 E	150,000 E	125,000 E	
	Illabott Creek														114,000			
	Sauk River													769,000 E				47,500 E
	Skagit River							1,027,000 E										277,000 E
Stilliguamish	Stilliguamish													95,000 E	38,920	27,849		
Snohomish	Snohomish				369,000 E		435,000	577,820 E						205,400	20,600 E	29,575	577,570	
	Pilchuck															66,740	119,225	
	Pilchuck (out)													524,000 E	578,685	232,046	182,712	
	Skykomish (Startup)																	
	Skykomish (out)																	
	Sultan														486,700	112,000	292,425	34,000
Green	Green/White G/W (out)				96,800 E		84,426	417,000						315,200 E	516,500	505,150	558,750	
Puyallup	Puyallup																	
South Sound	Puyallup (out)																	
	Chambers Creek																	
	Chambers Creek (out)																	
Hood Canal	Nisqually				265,000 E		962,000	218,000 E						1,500,000	740,365	305,932	981,402	
	Skokomish	1,500,000 E																
	Tahuya Station																	
	Dungeness (Brinnon)																	35,000 E
	Duckabush														200,00 E	603,000		91,000
	Quilcene													47,000 E	258,000	34,000	37,700	101,400
Dungeness	Dungeness			1,500,000 E	3,100,000 E		1,384,000	1,168,000						27,000				
														912,456				589,850
Elwha	Elwha																	
	Elwha (out)																	
WDF Total Egg Take/Production						2,395,150	2,886,926	3,463,970	4,429,575	3,681,450	4,855,000	5,234,240	5,912,656	11,059,000	3,462,639	4,975,460	5,545,652	5,545,653
WDG Total Release																		
USBF Est	Fry	1,572,560	1,398,476	2,591,371	3,107,891	3,518,476	1,329,940	3,162,174	3,964,308	4,566,491	4,499,141	6,292,338	4,841,330	3,732,805	9,731,400	4,444,271	4,922,555	5,102,566
Total	Fingrling				218,200			15,000						1,000				891,000

Note 1902 - Baker Lake Phinney and Gandy Creeks -- 483,000 eggs were collected.

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Appendix 5. cont.

Basin	Hatchery/Station	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
Nooksack	Kendall	52,826		61,000	80,200	19,425				122,500	105,600		141,775	122,250	65,175	
	Kendall (out)		40,000 E									122,975			250,000	
Samish	Samish	1,639,777	980,600	129,700	9,575	661,783	273,955	271,316	1,789,790	141,655	842,100	963,550	499,905	923,840	1,040,170	
	Samish (out)					279,500 E	667,000 E	751,000	250,000		800,000	400,000	475,000	400,000	50,000	
						167,000										
Skagit	Baker															
	Birdsview	240,000 E	270,000 E	25,000 E	255,000 E	128,250	78,000	353,305	70,000 E	418,000	346,500	200,000 E	290,000 E	750,000	535,000 E	90,000 E
			1,589,500	198,865					555,000			715,600	1,033,300	25,000 E	1,706,000	281,680
	Birdsview (out)					85,000 E	55,000 E			10,000 E						
	Darrington															
	Day Creek		43,000 E													
	Illabott Creek	451,000														
	Sauk River															
	Skagit River															
Stilliguamish	Stilliguamish	139,765														
Snohomish	Snohomish															
	Pilchuck	644,100	480,000	838,000	229,900	335,200								2,071,000	984,700	
	Pilchuck (out)			100,000 E	100,000 E	200,000								600,000 E		
	Skykomish (Startup)	395,540	227,490	359,200	151,200	264,855	287,509	486,408	609,730	348,915	334,390	482,950	684,760	664,894	848,500	
	Skykomish (out)					100,000	25,000 E	250,000 E	5,000 E		250,000	200,000	100,000	200,000		
	Sultan		50,000 E	92,500	92,000 E	76,800	104,400 E	207,800	216,000	83,000	64,000		533,500	247,500	431,000	73,800
			109,000													
Green	Green/White	198,600	42,600	277,500	70,100	41,300	32,000		450,500	204,500	65,000	50,000	221,000	335,000	87,000	
	G/W (out)				490,000 E	44,000 E				20,000		283,000				
					226,000											
Puyallup	Puyallup		390,200	153,200	273,237											
	Puyallup (out)													138,250	430,000	
South Sound	Chambers Creek	119,300	395,000	160,000	273,000	385,000										
	Chambers Creek (out)			10,000 E	105,000 E	109,600										
Hood Canal	Nisqually	123,220	112,200	Floods												
	Skokomish		114,825	56,560												
	Tahuya Station				2,000											
	Dungeness (Brinnon)		129,000			100,000 E										
	Duckabush	689,700 E	446,840 E		405,000 E	1,095,000 E	90,300	139,445	209,110	90,400	34,200	60,100			206,000	
	Quilcene	626,500 E	284,000	50,000 E	460,000	85,000 E	83,400	545,555	658,400	167,875	349,300	44,000	190,500	540,000	578,000	50,000 E
				170,000 F		303,500									204,000	
Dungeness	Dungeness	633,000	189,537	784,800	1,068,100	144,350	253,000	939,000	839,000	223,000	470,000	331,000	*	304,000	771,000	683,000 E
Elwha	Elwha	395,200	38,000	24,600	150,500	121,000										
	Elwha (out)						22,000 E									
WDF Total Egg Take/Production		567,625	3,551,830	3,764,450	3,784,050											
WDG Total Release																
USBF Est	Fry	1,979,010	4,851,092	3,152,452												
Total	Fingling	1,420,500	352,420													

Note 1902 - Baker Lake Phinney and Gandy Creeks -- 483,000 eggs were collected.

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Appendix 5.

Basin	Hatchery/Station	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945
Nooksack	Kendall					268,500 E	128,000 E	88,000 E	36,579 E						
Samish	Kendall (out)														
	Samish				1,116,900 E	2,725,700 E	1,392,800 E	2,196,100 E	799,511 E	456,248 E	555,485 E	486,267 E	219,152 E	118,315 E	502,947 E
Skagit	Samish (out)														
	Baker														
	Birdsview	616,000	113,000 E	1,145,000	603,000	289,000	184,000	666,500	813,700	810,000					
	Birdsview (out)	143,000 E	672,000	110,000 E			375,000 E		35,000 E	38,500 E					
	Darrington														
	Day Creek														
	Illabott Creek														
	Sauk River														
	Skagit River														
Stilliguamish	Stilliguamish														
Snohomish	Snohomish														
	Pilchuck														
	Pichuck (out)														
	Skykomish (Startup)				50,000 E	71,500	93,000	60,000	51,110	10,814					
	Skykomish (out)														
	Sultan	270,660													
Green	Green/White				5,000 E	40,000 E	48,000 E	107,000 E	95,197 E	25,488 E					
	G/W (out)														
Puyallup	Puyallup				674,000 E	585,000 E	628,000 E	597,000 E	86,670 E	167,223 E					
	Puyallup (out)														
South Sound	Chambers Creek														
	Chambers Creek (out)														
Hood Canal	Nisqually														
	Skokomish														
	Tahuya Station														
	Dungeness (Brinnon)														
	Duckabush	19,000	108,000	53,500											
	Quilcene	50,000 E	283,319	290,500	185,500	153,000	259,115	322,305	39,020	509,285					
		380,000													
Dungeness	Dungeness	394,000 E	968,500 E	806,500 E	1,265,000 E	1,080,000 E	978,000 E	712,000 E	995,414 E	405,701 E	189,050 E	1,014,568 E		221,763 E	121,659 E
Elwha	Elwha														
	Elwha (out)														
WDF Total Egg Take/Production															
WDG Total Release							3,198,943	4,657,106	4,342,230	2,603,785	2,172,564	1,413,151	979,526	485,437	763,093
USBF Est															
Total															
Fry															
Fingling															

Note 1902 - Baker Lake Phinney and Gandy Creeks -- 483,000 eggs were collected.

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Appendix 6. Releases of winter run steelhead smolts into tributaries to Puget Sound from 1978 to 2008.

Name of Stream	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nooksack River	34,800	57,759	55,795	70,470	65,900	81,485	130,900	110,100	123,800	131,000	111,000	109,400
Whatcom Creek	-	9,900	8,000	103,000	7,000	10,000	10,000	14,300	7,600	6,400	6,600	11,200
Samish River	80,200	80,007	90,600	41,100	40,100	46,951	45,138	30,100	27,800	29,900	40,900	39,000
<i>Skagit River System</i>	275,800	319,200	202,600	171,700	236,700	237,300	258,200	336,400	298,400	136,000	228,300	286,800
Skagit River Mainstem						167,100	197,000	276,000	269,200	112,400	203,300	251,800
Baker River						-	-	-	-	-	-	-
Sauk River						20,700	61,200	60,400	29,200	16,100	25,000	35,000
Cascade River						49,500	-	-	-	7,500	-	-
<i>Stillaguamish River System</i>	116,800	96,600	91,800	107,700	126,200	87,600	110,000	114,600	117,500	128,900	116,100	145,300
Stillaguamish R. Mainstem						-	-	-	-	-	-	-
Canyon Creek						6,000	12,300	12,700	10,100	9,300	11,900	10,600
Pilchuck Creek (Still.)						10,000	15,500	10,000	10,300	5,000	15,000	15,000
North Fork						49,600	64,900	71,800	77,100	90,800	63,800	101,200
South Fork						22,000	17,300	20,100	20,000	23,800	25,400	18,500
<i>Snohomish River System</i>	385,100	325,600	406,800	325,400	330,700	335,200	227,300	359,900	353,100	230,000	436,800	424,900
Skykomish River						170,500	29,600	125,800	151,100	90,200	155,200	159,600
Pilchuck River (Snoh.)						21,000	19,600	28,800	24,300	19,100	26,700	30,400
Snoqualmie River						65,200	89,800	119,400	93,600	62,000	129,700	122,500
Tolt River						16,700	20,000	20,100	14,800	10,900	47,600	35,000
Raging River						12,000	14,600	15,000	16,000	9,800	13,900	10,200
Sultan River						15,300	20,300	10,500	10,500	10,800	23,000	19,800
Wallace River						20,000	20,400	20,100	20,700	12,100	7,800	25,000
Skykomish River, N. Fork						14,500	13,000	20,200	22,100	15,100	32,900	22,400
Lake Wash. System	33,600	39,200	52,600	56,800	38,500	45,000	64,900	66,400	50,300	75,200	76,800	48,900
Green River (King Co.)	194,500	188,700	161,600	188,300	166,600	164,600	221,100	223,500	151,100	140,000	186,100	231,300
<i>Puyallup River System</i>	94,100	81,300	106,300	111,900	104,526	96,400	149,800	167,100	186,078	132,517	165,800	138,700
Puyallup River						85,900	139,800	157,100	176,100	132,500	140,700	123,500
White (Stuck) River						-	-	-	-	-	-	-
Carbon River (Voight Cr.)						10,500	10,000	10,000	10,000	-	25,100	15,200
Nisqually River	10,000	10,000	30,200	10,000	35,400	-	-	-	-	-	-	-
Deschutes River	40,800	32,600	40,300	30,000	19,100	32,100	32,000	24,500	25,100	9,500	35,000	49,300
Kennedy Creek	15,000	15,000	10,100	15,200	6,400	18,000	18,100	11,300	15,000	4,900	15,500	15,000
Goldsbrough Creek	17,400	15,000	15,200	15,000	3,100	13,000	13,000	4,900	10,100	5,200	10,100	15,000
Dewatto River	10,000	10,010	10,254	12,400	9,996	12,000	12,000	11,000	9,900	3,000	10,100	14,800
Tahuya River	9,900	10,100	10,500	10,700	8,400	15,100	10,300	10,000	10,000	10,000	10,000	15,000
Union River	10,000	10,100	10,300	9,900	10,010	10,000	10,000	9,400	10,000	10,000	15,000	14,850
Skokomish River	18,700	10,500	17,000	27,200	14,800	27,082	29,600	23,100	20,900	20,000	44,800	39,975
Hamma Hamma	-	-	-	-	-	-	-	-	-	-	-	-
Duckabush River	26,400	15,100	15,000	17,800	18,100	20,000	20,000	20,100	22,300	5,000	20,000	20,000
Dosewallips River	30,000	25,200	23,200	23,700	18,200	20,000	25,100	20,800	19,600	15,000	25,400	25,000
Quilcene River	15,000	15,300	9,585	15,043	13,060	11,900	10,300	10,200	10,200	5,300	5,100	10,160
Dungeness River	30,300	24,800	20,000	20,100	17,000	18,600	14,800	15,900	15,400	15,545	20,100	20,123
Morse Creek	15,000	12,900	12,300	18,000	15,400	16,400	15,500	15,900	18,800	15,200	15,000	15,514
Elwha River	45,200	60,400	51,000	66,400	63,600	86,300	95,600	90,000	118,800	73,600	88,200	118,600
Total (millions)	1.51	1.47	1.45	1.47	1.37	1.41	1.52	1.69	1.62	1.20	1.68	1.81

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Appendix 6. Releases of winter run steelhead smolts into tributaries to Puget Sound.

Name of Stream	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Nooksack River	100,100	55,000	47,400	81,800	70,500	75,900	89,300	43,300	63,900	33,900	35,000
Whatcom Creek	13,500	10,000	7,200	5,500	6,500	5,100	9,700	5,400	20,000	20,100	-
Samish River	50,100	13,900	27,000	19,600	6,600	32,100	31,200	22,900	47,900	12,100	25,000
<i>Skagit River System</i>	172,200	205,800	166,300	364,200	446,400	354,100	289,000	328,400	562,700	414,400	417,600
Skagit River Mainstem	163,000	183,100	145,900	332,600	415,800	239,200	202,900	194,300	400,600	238,300	214,300
Baker River	-	-	-	-	-	-	-	-	-	49,000	60,000
Sauk River	9,200	22,700	20,400	31,600	30,600	30,200	25,900	21,600	30,800	26,800	20,900
Cascade River	-	-	-	-	-	84,700	60,200	112,500	131,300	100,300	122,400
<i>Stillaguamish River System</i>	122,000	137,900	106,800	133,200	140,600	122,900	130,900	100,175	162,700	106,500	98,600
Stillaguamish R. Mainstem	-	-	19,100	-	-	-	-	-	8,000	-	-
Canyon Creek	9,800	10,100	10,000	10,200	10,300	5,000	15,000	9,975	10,200	9,100	10,000
Pilchuck Creek (Still.)	10,100	15,800	4,700	10,000	4,000	4,900	10,700	-	10,000	-	-
North Fork	102,100	96,000	73,000	113,000	119,200	113,000	105,200	90,200	132,500	97,400	88,600
South Fork	-	16,000	-	-	7,100	-	-	-	2,000	-	-
<i>Snohomish River System</i>	350,200	345,000	343,200	436,200	326,600	288,600	414,900	196,200	474,000	442,700	402,300
Skykomish River	139,100	128,300	129,100	161,000	110,200	111,300	173,000	44,200	132,600	161,200	119,700
Pilchuck River (Snoh.)	5,700	21,400	14,900	28,400	7,500	25,000	21,900	14,800	20,700	31,200	34,200
Snoqualmie River	117,400	114,000	153,500	150,000	113,800	100,300	117,200	93,400	184,400	151,900	145,400
Tolt River	40,900	23,400	10,700	39,300	35,700	17,400	35,300	9,100	30,900	24,800	20,900
Raging River	10,300	4,000	4,100	10,900	8,600	10,100	14,900	9,000	14,100	10,000	10,400
Sultan River	15,400	16,200	5,800	8,500	20,300	12,400	17,200	7,700	43,600	45,000	35,900
Wallace River	-	19,100	15,000	18,800	20,200	12,100	20,200	13,000	5,200	14,800	15,800
Skykomish River, N. Fork	21,400	18,600	10,100	19,300	10,300	-	15,200	5,000	42,500	3,800	20,000
Lake Wash. System	50,160	38,000	-	-	-	-	-	-	-	12,400	14,300
Green River (King Co.)	225,800	212,400	137,000	197,400	231,200	237,700	210,900	262,300	220,100	285,800	274,600
<i>Puyallup River System</i>	169,400	182,800	123,600	336,500	317,000	221,500	252,900	235,550	223,500	240,300	305,600
Puyallup River	149,400	162,900	98,500	287,700	238,600	152,300	179,300	157,700	14,800	42,100	107,000
White (Stuck) River	-	-	41,300	24,900	19,700	24,900	24,000	18,600	19,600	18,200	20,000
Carbon River (Voight Cr.)	20,000	19,900	25,100	23,900	58,700	44,300	49,600	59,250	189,100	180,000	178,600
Nisqually River	-	-	-	-	-	-	-	-	-	-	-
Deschutes River	22,300	10,100	15,000	20,000	15,600	-	95,900	18,000	29,400	26,900	-
Kennedy Creek	10,000	5,000	10,200	7,900	7,000	-	10,000	-	-	-	-
Goldsbrough Creek	10,100	5,000	9,300	9,100	14,200	-	-	-	-	-	-
Dewatto River	10,000	-	-	-	-	-	-	-	-	-	-
Tahuya River	-	-	-	9,800	14,976	-	-	-	-	-	-
Union River	10,035	5,000	10,000	11,500	15,028	-	-	-	-	-	-
Skokomish River	39,000	19,900	28,500	20,000	39,130	39,296	53,684	14,688	53,495	46,700	62,300
Hamma Hamma	-	-	-	-	-	-	-	-	-	1,524	1,336
Duckabush River	15,000	-	15,100	17,000	15,142	5,000	10,080	-	10,032	10,638	10,200
Dosewallips River	15,100	5,600	15,000	20,100	14,742	5,000	12,648	-	12,500	12,300	12,500
Quilcene River	10,100	-	-	-	-	-	-	-	-	-	-
Dungeness River	20,300	15,000	15,100	15,300	18,800	9,900	10,000	9,800	9,000	11,000	10,500
Morse Creek	10,100	14,700	15,200	15,400	15,338	15,029	5,100	5,000	5,000	5,000	5,000
Elwha River	46,100	91,000	83,500	229,100	92,400	94,000	170,100	59,600	61,300	182,200	225,200
Total (millions)	1.47	1.37	1.18	1.95	1.81	1.51	1.80	1.30	1.96	1.86	1.90

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Appendix 6. Releases of winter run steelhead smolts into tributaries to Puget Sound.

Name of Stream	2001	2002	2003	2004	2005	2006	2007	2008	21-year ave.	10-year ave.
Nooksack River	56,500	34,800	160,000						83,767	83,767
Whatcom Creek	5,000	-	5,370						3,457	3,457
Samish River	31,000	-	-						10,333	10,333
<i>Skagit River System</i>	463,500	241,200	513,330	529,821	466,100	517,000	511,560	235,010	436,963	406,010
Skagit River Mainstem	242,000	20,000	225,000	243,500	200,000	210,000	185,000	20,000	162,333	162,333
Baker River	93,000	-	68,000	70,000	30,000	30,000	30,000	30,000	53,667	53,667
Sauk River	21,800	21,200	20,000	20,000	20,000	30,000	30,000	10	21,000	21,000
Cascade River	106,700	200,000	200,330	196,321	216,100	247,000	266,560	185,000	169,010	169,010
<i>Stillaguamish River System</i>	129,800	138,600	161,662	150,027	152,427	148,760	153,937	145,734	145,022	143,354
Stillaguamish R. Mainstem	-	15,700	-						7,850	7,850
Canyon Creek	-	4,700	15,225						6,642	6,642
Pilchuck Creek (Still.)	-	-	-	5,226	10,000	10,004	10,018	1,080	-	-
North Fork	121,400	118,200	146,437	144,801	142,427	138,756	143,919	144,654	128,679	128,679
South Fork	8,400	-	-						2,800	2,800
<i>Snohomish River System</i>	418,000	418,650	433,552	442,790	444,677	442,308	436,224	439,326	428,248	423,401
Skykomish River	112,600	133,400	143,584	173,500	160,025	184,324	181,536	150,740	129,861	129,861
Pilchuck River (Snoh.)	29,000	25,500	35,295	33,314	25,108	28,014	35,025	25,314	29,932	29,932
Snoqualmie River	180,900	165,500	161,661	156,333	188,573	160,437	177,712	166,585	169,354	169,354
Tolt River	21,200	20,000	20,017	22,160				24,970	20,406	20,406
Raging River	11,700	10,000	11,795	4,650	15,117	20,273		24,998	11,165	11,165
Sultan River	17,700	29,100	24,575	19,906	20,270	15,660	15,073	25,014	23,792	23,792
Wallace River	20,000	20,000	19,700	18,500	22,000	22,000	26,878	21,705	19,900	19,900
Skykomish River, N. Fork	24,900	15,150	16,925	14,427	13,584	11,600			18,992	18,992
Lake Wash. System	-	-	-						-	-
Green River (King Co.)	280,000	102,200	155,432	76,895	253,318	243,246	254,669	281,430	179,211	179,211
<i>Puyallup River System</i>	207,300	211,300	200,000	231,859	207,400	211,900	128,000	218,353	206,200	206,200
Puyallup River	10,000	-	-						3,333	3,333
White (Stuck) River	21,000	20,000	-					56,378	13,667	13,667
Carbon River (Voight Cr.)	176,300	191,300	200,000	231,859	207,400	211,900	128,000	161,975	189,200	189,200
Nisqually River	-	-	-						-	-
Deschutes River	24,400	25,000	27,000	30,400	24,550				25,467	25,467
Kennedy Creek	-	-	-						-	-
Goldsborough Creek	-	-	-						-	-
Dewatto River	-	-	-						-	-
Tahuya River	-	-	-						-	-
Union River	-	-	-						-	-
Skokomish River	63,000	68,400	55,803	49,946				4,091	62,401	62,401
Hamma Hamma	489	1,454	877		965			131	940	940
Duckabush River	10,000	10,000	10,032	-					10,011	10,011
Dosewallips River	12,600	12,500	12,533	-					12,544	12,544
Quilcene River	-	-	-						-	-
Dungeness River	12,200	10,250	13,715	10,500		10,900	10,700	10,200	12,055	12,055
Morse Creek	5,000	5,000	5,000	5,000					5,000	5,000
Elwha River	120,000	151,700	99,600	59,500		38,850	29,150	267,899	123,767	123,767
Total (millions)	1.84	1.43	1.85	1.59					1.71	1.71



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Appendix 6. Releases of summer run steelhead smolts into tributaries to Puget Sound from 1987 to 2008.

Name of Stream	1987	1988	1989	1990	1991	1992	1993	1994	1995
Nooksack River									
Whatcom Creek									
<i>Skagit River System</i>	0	30,900	0	24,100	18,700	19,800	32,300	27,000	25,200
Skagit River Mainstem				24,100	18,700	19,800	27,300	27,000	25,200
Sauk River							5,000	0	0
Cascade River		30,900							
<i>Stillaguamish River System</i>	63,400	82,800	59,500	100,000	80,600	85,100	81,300	87,100	74,000
Stillaguamish R. Mainstem	3,500								
Canyon Creek		9,700		7,500	9,200	9,600	7,900	9,700	5,300
South Fork		18,500		23,300	8,100	15,500	15,300	18,500	20,100
North Fork	59,900	54,600	59,500	69,200	63,300	60,000	58,100	58,900	48,600
<i>Snohomish River System</i>	63,100	233,000	137,700	184,300	179,900	235,100	127,100	230,500	180,900
Skykomish River	63,100	76,400	101,600	91,800	104,500	111,500	72,800	146,200	120,000
Pilchuck River (Snoh.)									
Snomish River River						26,900	0	0	0
Snoqualmie River		72,700	30,800	38,300	44,900	46,200	30,500	56,500	48,700
Tolt River		15,800	5,300	8,700	0	0	8,000	0	0
Raging River		4,100							
Sultan River		19,400		15,000	0	10,100	8,200	8,200	5,500
Wallace River									
Skykomish River, N. Fork		24,700		14,600	15,300	20,400	7,600	19,600	6,700
Skykomish River, S. Fork		19,900		15,900	15,200	20,000	0	0	0
Green River (King Co.)		74,800	5,200	71,300	23,700	79,600	83,700	81,300	83,600
<i>Puyallup River System</i>	0	0	0	0	0	0	0	0	0
White (Stuck) River									
Carbon River (Voight Cr.)									
Nisqually River		22,200		13,400	0	24,800	23,700	12,800	0
Deschutes River					3,300	3,000	0	0	0
Skokomish River									
West Hood Canal									
Dungeness River	10,200	10,100	10,100	6,100	0	15,100	16,100	10,500	0
Morse Creek									
Elwha River	19,800	25,400	19,800	15,000	0	23,600	25,100	0	25,100
<b>P. Snd. Total for Year</b>	<b>156,500</b>	<b>479,200</b>	<b>232,300</b>	<b>414,200</b>	<b>306,200</b>	<b>486,100</b>	<b>389,300</b>	<b>449,200</b>	<b>388,800</b>

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Appendix 6. Releases of summer run steelhead smolts into tributaries to Puget Sound.

Name of Stream	1996	1997	1998	1999	2000	2001	2002	2003	2004
Nooksack River									
Whatcom Creek									
<i>Skagit River System</i>	25,000	0	21,000	0	0	0	0	0	
Skagit River Mainstem	25,000	0	21,000	0	0	0	0	0	
Sauk River	0	0	0	0	0	0	0	0	
Cascade River									
<i>Stillaguamish River System</i>	85,100	38,600	74,700	17,600	70,000	106,900	90,600	45,633	77,776
Stillaguamish R. Mainstem			31,300	17,600	21,800	0	61,800	0	
Canyon Creek	13,500	0	0	0	0	0	0	0	
South Fork	21,000	0	0	0	0	46,900	28,800	0	
North Fork	50,600	38,600	43,400	0	48,200	60,000	0	45,633	77,776
<i>Snohomish River System</i>	226,400	168,631	265,300	266,300	167,200	223,400	221,200	177,849	248,268
Skykomish River	127,400	93,700	175,000	185,700	117,400	136,500	0	107,217	165,000
Pilchuck River (Snoh.)									
Snomish River River	0	0	0	0	0	0	0	0	
Snoqualmie River	73,500	45,221	41,600	27,800	22,000	28,300	0	44,901	18,885
Tolt River	0	0	0	0	0	0	0	0	
Raging River				21,700	9,200	21,700	51,500	0	23,786
Sultan River	9,700	15,100	15,400	13,300	14,000	20,600	14,900	10,449	20,447
Wallace River									
Skykomish River, N. Fork	15,800	14,610	33,300	17,800	4,600	16,300	154,800	15,282	20,150
Skykomish River, S. Fork	0	0	0	0	0	0	0	0	
Green River (King Co.)	100,100	36,000	86,300	67,300	65,300	39,600	101,100	59,833	74,605
<i>Puyallup River System</i>	0	0	0	0	0	0	0	0	0
White (Stuck) River									
Carbon River (Voight Cr.)									
Nisqually River	0	0	0	0	0	0	0	0	
Deschutes River	0	0	0	0	0	0	0	0	
Skokomish River									
West Hood Canal									
Dungeness River	0	0	0	0	0	0	0	0	
Morse Creek									
Elwha River	20,200	10,000	10,000	10,100	10,000	0	0	0	
<b>P. Snd. Total for Year</b>	<b>456,800</b>	<b>253,231</b>	<b>457,300</b>	<b>361,300</b>	<b>312,500</b>	<b>369,900</b>	<b>412,900</b>	<b>283,315</b>	<b>400,649</b>

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Appendix 6. Releases of summer run steelhead smolts into tributaries to Puget Sound.

Name of Stream	2005	2006	2007	2008
Nooksack River				
Whatcom Creek				
<i>Skagit River System</i>				
Skagit River Mainstem				
Sauk River				
Cascade River				
<i>Stillaguamish River System</i>	73,633	105,575	97,000	
Stillaguamish R. Mainstem				
Canyon Creek			7,020	5,100
South Fork		29,321	13,052	15,330
North Fork	73,633	76,254	76,928	76,428
<i>Snohomish River System</i>	261,770	234,006	245,057	
Skykomish River	168,800	149,440	160,135	178,361
Pilchuck River (Snoh.)				
Snomish River River				
Snoqualmie River	52,470	50,838	28,840	62,763
Tolt River				
Raging River			27,720	
Sultan River	20,340	20,330	28,362	30,562
Wallace River				
Skykomish River, N. Fork	20,160	13,398		
Skykomish River, S. Fork				
Green River (King Co.)	164,463	96,841	96,564	54,400
<i>Puyallup River System</i>	0	0	0	
White (Stuck) River				
Carbon River (Voight Cr.)				
Nisqually River				
Deschutes River				
Skokomish River				
West Hood Canal				
Dungeness River				
Morse Creek				
Elwha River				
<b>P. Snd. Total for Year</b>	<b>499,866</b>	<b>436,422</b>	<b>438,621</b>	<b>54,400</b>