

Table Q-1. Absolute loading rates for dissolved arsenic by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	6.77	11.6	15.3	18.6	34.9		24	13.8	22.1	25.3	34.4	57.3	
Residential	8	99.9	123	139	516	1860		24	14.0	148	167	210	863	
Agriculture	8	2.47	3.17	5.59	6.70	8.87		24	2.93	4.84	9.02	11.7	18.1	
Forest/Field/Other	8	152	216	245	289	743		24	101	142	175	230	413	
Port Gardner														
Commercial/Industrial	6	1.83	3.14	4.14	5.03	9.47		24	3.75	6.00	6.87	9.31	15.5	
Residential	8	50.3	62.0	69.7	259	937		24	7.02	74.3	84.2	105	434	
Agriculture	8	16.3	20.9	36.9	44.2	58.5		24	19.3	31.9	59.5	77.2	119	
Forest/Field/Other	8	588	836	948	1120	2880		24	393	551	679	890	1600	
Elliott Bay														
Commercial/Industrial	6	5.33	9.11	12.0	14.6	27.5		24	10.9	17.4	19.9	27.0	45.1	
Residential	8	35.3	43.5	48.9	182	657		24	4.92	52.1	59.1	74.0	305	
Agriculture	8	6.34	8.12	14.3	17.2	22.7		24	7.51	12.4	23.1	30.0	46.5	
Forest/Field/Other	8	125	178	201	237	611		24	83.3	117	144	189	339	
Commencement Bay														
Commercial/Industrial	6	3.03	5.17	6.83	8.30	15.6		24	6.18	9.89	11.3	15.4	25.6	
Residential	8	44.6	55.1	61.9	230	832		24	6.23	65.9	74.8	93.7	385	
Agriculture	8	8.62	11.0	19.5	23.4	30.9		24	10.2	16.9	31.5	40.8	63.2	
Forest/Field/Other	8	310	441	500	589	1520		24	207	290	358	469	842	
South Sound (East)														
Commercial/Industrial	6	2.59	4.42	5.84	7.09	13.4		24	5.29	8.46	9.68	13.1	21.9	
Residential	8	57.5	71.0	79.8	297	1070		24	8.03	85.0	96.4	121	497	
Agriculture	8	15.0	19.2	34.0	40.7	53.9		24	17.8	29.4	54.8	71.1	110	
Forest/Field/Other	8	292	415	471	555	1430		24	195	273	337	442	793	
South Sound (West)														
Commercial/Industrial	6	0.933	1.59	2.11	2.56	4.81		24	1.91	3.05	3.49	4.73	7.89	
Residential	8	28.6	35.3	39.7	148	534		24	4.00	42.3	48.0	60.1	247	
Agriculture	8	4.04	5.18	9.15	11.0	14.5		24	4.79	7.91	14.8	19.2	29.7	
Forest/Field/Other	8	180	257	291	343	883		24	120	169	208	273	490	
Hood Canal (South)														
Commercial/Industrial	6	0.0566	0.0968	0.128	0.155	0.292		24	0.116	0.185	0.212	0.287	0.479	
Residential	8	10.4	12.8	14.4	53.5	193		24	1.45	15.3	17.4	21.7	89.5	
Agriculture	8	0.626	0.802	1.42	1.70	2.25		24	0.741	1.22	2.28	2.96	4.59	
Forest/Field/Other	8	329	469	531	626	1610		24	220	309	381	499	896	
Hood Canal (North)														
Commercial/Industrial	6	0.0420	0.0717	0.0947	0.115	0.217		24	0.0857	0.137	0.157	0.213	0.355	
Residential	8	5.38	6.64	7.46	27.8	100		24	0.751	7.95	9.01	11.3	46.5	
Agriculture	8	0.0977	0.125	0.221	0.265	0.351		24	0.116	0.191	0.357	0.463	0.717	
Forest/Field/Other	8	42.0	59.7	67.7	79.8	205		24	28.0	39.3	48.5	63.6	114	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.693	1.19	1.57	1.90	3.58		24	1.42	2.27	2.59	3.52	5.87	
Residential	8	16.0	19.7	22.2	82.5	298		24	2.23	23.6	26.8	33.6	138	
Agriculture	8	0.294	0.376	0.664	0.796	1.05		24	0.348	0.574	1.07	1.39	2.15	
Forest/Field/Other	8	31.7	45.1	51.1	60.2	155		24	21.1	29.7	36.6	48.0	86.1	
Admiralty Inlet														
Commercial/Industrial	6	0.103	0.176	0.232	0.282	0.531		24	0.210	0.336	0.385	0.522	0.871	
Residential	8	5.47	6.75	7.59	28.2	102		24	0.764	8.08	9.16	11.5	47.2	
Agriculture	8	2.33	2.98	5.27	6.31	8.35		24	2.76	4.55	8.49	11.0	17.1	
Forest/Field/Other	8	31.8	45.2	51.2	60.4	156		24	21.2	29.8	36.7	48.1	86.4	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.652	1.12	1.47	1.79	3.37		24	1.33	2.13	2.44	3.31	5.52	
Residential	8	15.0	18.5	20.8	77.4	280		24	2.09	22.2	25.1	31.5	130	
Agriculture	8	9.92	12.7	22.4	26.9	35.6		24	11.7	19.4	36.2	47.0	72.7	
Forest/Field/Other	8	414	589	667	787	2030		24	276	388	478	627	1120	
Strait of Georgia														
Commercial/Industrial	6	1.48	2.53	3.34	4.06	7.64		24	3.02	4.84	5.54	7.51	12.5	
Residential	8	32.3	39.9	44.9	167	603		24	4.51	47.8	54.2	67.9	279	
Agriculture	8	62.4	79.9	141	169	224		24	73.9	122	228	296	458	
Forest/Field/Other	8	394	561	636	749	1930		24	263	369	455	597	1070	
Whidbey Island														
Commercial/Industrial	6	0.914	1.56	2.06	2.51	4.72		24	1.87	2.99	3.42	4.64	7.74	
Residential	8	45.6	56.3	63.3	235	851		24	6.37	67.4	76.4	95.7	394	
Agriculture	8	37.4	47.9	84.7	101	134		24	44.3	73.2	137	177	274	
Forest/Field/Other	8	1250	1780	2010	2380	6110		24	834	1170	1440	1890	3400	
San Juan Islands														
Commercial/Industrial	6	0.555	0.949	1.25	1.52	2.87		24	1.13	1.81	2.08	2.82	4.70	
Residential	8	10.9	13.4	15.1	56.1	203		24	1.52	16.1	18.2	22.8	94.0	
Agriculture	8	8.09	10.4	18.3	21.9	29.0		24	9.58	15.8	29.5	38.3	59.3	
Forest/Field/Other	8	70.3	99.9	113	134	344		24	46.9	65.8	81.1	106	191	
Puget Sound														
Commercial/Industrial	6	25.0	42.7	56.4	68.5	129		24	51.0	81.6	93.5	127	211	
Residential	8	457	564	634	2360	8530		24	63.8	675	766	960	3950	
Agriculture	8	174	223	394	471	624		24	206	340	635	824	1280	
Forest/Field/Other	8	4210	5990	6790	8000	20600		24	2810	3940	4860	6370	11400	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-2. Absolute loading rates for total arsenic by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	6.65	12.6	15.4	17.2	33.6		24	18.2	31.6	36.4	47.5	92.4	
Residential	8	115	115	137	474	1780		24	148	173	238	321	634	
Agriculture	8	2.52	3.04	5.83	8.07	10.3		24	2.84	4.51	9.26	15.9	28.6	
Forest/Field/Other	8	187	231	260	318	895		24	122	183	250	324	3200	
Port Gardner														
Commercial/Industrial	6	1.80	3.41	4.18	4.66	9.11		24	4.93	8.56	9.86	12.9	25.1	
Residential	8	58.0	58.0	68.8	239	897		24	74.3	86.9	120	162	319	
Agriculture	8	16.6	20.0	38.4	53.2	67.7		24	18.7	29.7	61.0	105	189	
Forest/Field/Other	8	725	894	1010	1230	3470		24	472	708	969	1250	12400	
Elliott Bay														
Commercial/Industrial	6	5.24	9.91	12.1	13.5	26.5		24	14.3	24.9	28.6	37.4	72.8	
Residential	8	40.7	40.7	48.3	167	629		24	52.1	61.0	83.9	113	224	
Agriculture	8	6.45	7.79	15.0	20.7	26.4		24	7.29	11.6	23.7	40.8	73.4	
Forest/Field/Other	8	154	190	214	261	736		24	100	150	206	266	2630	
Commencement Bay														
Commercial/Industrial	6	2.97	5.63	6.90	7.68	15.0		24	8.13	14.1	16.3	21.2	41.3	
Residential	8	51.4	51.4	61.1	212	796		24	65.9	77.2	106	143	283	
Agriculture	8	8.77	10.6	20.3	28.1	35.8		24	9.91	15.7	32.3	55.5	99.8	
Forest/Field/Other	8	382	471	530	648	1830		24	249	373	510	661	6520	
South Sound (East)														
Commercial/Industrial	6	2.54	4.81	5.90	6.57	12.9		24	6.95	12.1	13.9	18.1	35.3	
Residential	8	66.3	66.3	78.8	273	1030		24	85.0	99.5	137	185	365	
Agriculture	8	15.3	18.4	35.4	49.0	62.4		24	17.2	27.4	56.2	96.6	174	
Forest/Field/Other	8	360	444	499	610	1720		24	234	351	481	623	6140	
South Sound (West)														
Commercial/Industrial	6	0.917	1.74	2.13	2.37	4.63		24	2.51	4.35	5.02	6.54	12.7	
Residential	8	33.0	33.0	39.2	136	511		24	42.3	49.5	68.1	92.0	182	
Agriculture	8	4.11	4.97	9.54	13.2	16.8		24	4.65	7.38	15.1	26.0	46.8	
Forest/Field/Other	8	222	274	309	377	1060		24	145	217	297	385	3800	
Hood Canal (South)														
Commercial/Industrial	6	0.0556	0.105	0.129	0.144	0.281		24	0.152	0.264	0.304	0.397	0.773	
Residential	8	11.9	11.9	14.2	49.2	185		24	15.3	17.9	24.6	33.3	65.7	
Agriculture	8	0.637	0.769	1.48	2.04	2.60		24	0.719	1.14	2.34	4.03	7.25	
Forest/Field/Other	8	406	501	564	689	1940		24	265	397	543	703	6940	
Hood Canal (North)														
Commercial/Industrial	6	0.0412	0.0780	0.0956	0.106	0.208		24	0.113	0.196	0.226	0.294	0.573	
Residential	8	6.20	6.20	7.37	25.5	95.9		24	7.95	9.30	12.8	17.3	34.1	
Agriculture	8	0.0994	0.120	0.231	0.319	0.406		24	0.112	0.178	0.366	0.629	1.13	
Forest/Field/Other	8	51.7	63.9	71.8	87.8	247		24	33.7	50.6	69.2	89.6	884	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.681	1.29	1.58	1.76	3.44		24	1.86	3.23	3.73	4.86	9.47	
Residential	8	18.4	18.4	21.9	75.9	285		24	23.6	27.6	38.0	51.4	101	
Agriculture	8	0.299	0.361	0.693	0.958	1.22		24	0.337	0.536	1.10	1.89	3.40	
Forest/Field/Other	8	39.0	48.2	54.2	66.2	187		24	25.4	38.1	52.2	67.6	667	
Admiralty Inlet														
Commercial/Industrial	6	0.101	0.191	0.235	0.261	0.511		24	0.277	0.480	0.553	0.721	1.41	
Residential	8	6.31	6.31	7.49	26.0	97.6		24	8.08	9.46	13.0	17.6	34.7	
Agriculture	8	2.37	2.86	5.49	7.59	9.67		24	2.67	4.25	8.72	15.0	26.9	
Forest/Field/Other	8	39.2	48.3	54.4	66.5	187		24	25.5	38.3	52.4	67.8	669	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.641	1.21	1.49	1.66	3.24		24	1.75	3.04	3.51	4.57	8.91	
Residential	8	17.3	17.3	20.5	71.2	268		24	22.2	25.9	35.7	48.2	95.1	
Agriculture	8	10.1	12.2	23.4	32.4	41.2		24	11.4	18.1	37.1	63.9	115	
Forest/Field/Other	8	510	629	708	866	2440		24	332	498	682	883	8710	
Strait of Georgia														
Commercial/Industrial	6	1.45	2.75	3.37	3.75	7.35		24	3.98	6.90	7.95	10.4	20.2	
Residential	8	37.3	37.3	44.3	154	577		24	47.8	55.9	76.9	104	205	
Agriculture	8	63.5	76.6	147	204	259		24	71.7	114	234	402	722	
Forest/Field/Other	8	486	599	674	824	2320		24	316	475	649	841	8300	
Whidbey Island														
Commercial/Industrial	6	0.898	1.70	2.08	2.32	4.54		24	2.46	4.27	4.91	6.41	12.5	
Residential	8	52.6	52.6	62.5	217	814		24	67.4	78.9	108	147	289	
Agriculture	8	38.1	46.0	88.3	122	156		24	43.0	68.3	140	241	433	
Forest/Field/Other	8	1540	1900	2140	2610	7360		24	1000	1500	2060	2670	26300	
San Juan Islands														
Commercial/Industrial	6	0.546	1.03	1.27	1.41	2.76		24	1.49	2.59	2.99	3.89	7.58	
Residential	8	12.5	12.5	14.9	51.6	194		24	16.1	18.8	25.9	35.0	69.0	
Agriculture	8	8.23	9.94	19.1	26.4	33.6		24	9.30	14.8	30.3	52.1	93.7	
Forest/Field/Other	8	86.6	107	120	147	414		24	56.4	84.6	116	150	1480	
Puget Sound														
Commercial/Industrial	6	24.5	46.5	56.9	63.4	124		24	67.1	117	134	175	341	
Residential	8	527	527	626	2170	8160		24	675	791	1090	1470	2900	
Agriculture	8	177	214	410	568	723		24	200	317	652	1120	2010	
Forest/Field/Other	8	5190	6400	7200	8800	24800		24	3380	5070	6940	8980	88600	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

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Table Q-3. Absolute loading rates for dissolved cadmium by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.116	0.116	0.234	0.350	0.350		24	0.395	1.19	1.19	2.37	5.14	
Residential	8					< 4.34	U	24					< 5.59	U
Agriculture	8					< 0.0852	U	24	0.0791	0.0791	0.0791	0.158	0.475	E
Forest/Field/Other	8					< 14.4	U	24					< 13.5	U
Port Gardner														
Commercial/Industrial	6	0.0316	0.0316	0.0633	0.0949	0.0949		24	0.107	0.322	0.322	0.643	1.39	
Residential	8					< 2.18	U	24					< 2.81	U
Agriculture	8					< 0.562	U	24	0.522	0.522	0.522	1.04	3.13	E
Forest/Field/Other	8					< 55.9	U	24					< 52.2	U
Elliott Bay														
Commercial/Industrial	6	0.0917	0.0917	0.184	0.276	0.276		24	0.311	0.934	0.934	1.87	4.05	
Residential	8					< 1.53	U	24					< 1.97	U
Agriculture	8					< 0.219	U	24	0.203	0.203	0.203	0.406	1.22	E
Forest/Field/Other	8					< 11.9	U	24					< 11.1	U
Commencement Bay														
Commercial/Industrial	6	0.0521	0.0521	0.104	0.157	0.157		24	0.177	0.530	0.530	1.06	2.30	
Residential	8					< 1.94	U	24					< 2.50	U
Agriculture	8					< 0.297	U	24	0.276	0.276	0.276	0.552	1.66	E
Forest/Field/Other	8					< 29.4	U	24					< 27.5	U
South Sound (East)														
Commercial/Industrial	6	0.0445	0.0445	0.0893	0.134	0.134		24	0.151	0.453	0.453	0.907	1.96	
Residential	8					< 2.50	U	24					< 3.22	U
Agriculture	8					< 0.517	U	24	0.481	0.481	0.481	0.961	2.88	E
Forest/Field/Other	8					< 27.7	U	24					< 25.9	U
South Sound (West)														
Commercial/Industrial	6	0.0160	0.0160	0.0322	0.0482	0.0482		24	0.0545	0.163	0.163	0.327	0.708	
Residential	8					< 1.24	U	24					< 1.60	U
Agriculture	8					< 0.139	U	24	0.129	0.129	0.129	0.259	0.777	E
Forest/Field/Other	8					< 17.1	U	24					< 16.0	U
Hood Canal (South)														
Commercial/Industrial	6	0.000974	0.000974	0.00195	0.00293	0.00293		24	0.00330	0.00992	0.00992	0.0198	0.0430	
Residential	8					< 0.450	U	24					< 0.580	U
Agriculture	8					< 0.0216	U	24	0.0200	0.0200	0.0200	0.0401	0.120	E
Forest/Field/Other	8					< 31.3	U	24					< 29.2	U
Hood Canal (North)														
Commercial/Industrial	6	0.000722	0.000722	0.00145	0.00217	0.00217		24	0.00245	0.00735	0.00735	0.0147	0.0318	
Residential	8					< 0.234	U	24					< 0.301	U
Agriculture	8					< 0.00337	U	24	0.00313	0.00313	0.00313	0.00626	0.0188	E
Forest/Field/Other	8					< 3.99	U	24					< 3.72	U
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0119	0.0119	0.0239	0.0359	0.0359		24	0.0405	0.121	0.121	0.243	0.526	
Residential	8					< 0.694	U	24					< 0.894	U
Agriculture	8					< 0.0101	U	24	0.00940	0.00940	0.00940	0.0188	0.0564	E
Forest/Field/Other	8					< 3.01	U	24					< 2.81	U
Admiralty Inlet														
Commercial/Industrial	6	0.00177	0.00177	0.00355	0.00532	0.00532		24	0.00601	0.0180	0.0180	0.0361	0.0781	
Residential	8					< 0.237	U	24					< 0.306	U
Agriculture	8					< 0.0802	U	24	0.0745	0.0745	0.0745	0.149	0.447	E
Forest/Field/Other	8					< 3.02	U	24					< 2.82	U
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0112	0.0112	0.0225	0.0337	0.0337		24	0.0381	0.114	0.114	0.229	0.495	
Residential	8					< 0.651	U	24					< 0.839	U
Agriculture	8					< 0.342	U	24	0.318	0.318	0.318	0.635	1.91	E
Forest/Field/Other	8					< 39.3	U	24					< 36.7	U
Strait of Georgia														
Commercial/Industrial	6	0.0255	0.0255	0.0511	0.0765	0.0765		24	0.0864	0.259	0.259	0.519	1.12	
Residential	8					< 1.40	U	24					< 1.81	U
Agriculture	8					< 2.15	U	24	2.00	2.00	2.00	4.00	12.0	E
Forest/Field/Other	8					< 37.5	U	24					< 35.0	U
Whidbey Island														
Commercial/Industrial	6	0.0157	0.0157	0.0315	0.0473	0.0473		24	0.0534	0.160	0.160	0.320	0.694	
Residential	8					< 1.98	U	24					< 2.55	U
Agriculture	8					< 1.29	U	24	1.20	1.20	1.20	2.40	7.19	E
Forest/Field/Other	8					< 119	U	24					< 111	U
San Juan Islands														
Commercial/Industrial	6	0.00955	0.00955	0.0192	0.0287	0.0287		24	0.0324	0.0973	0.0973	0.195	0.421	
Residential	8					< 0.472	U	24					< 0.608	U
Agriculture	8					< 0.279	U	24	0.259	0.259	0.259	0.518	1.55	E
Forest/Field/Other	8					< 6.68	U	24					< 6.23	U
Puget Sound														
Commercial/Industrial	6	0.430	0.430	0.862	1.29	1.29		24	1.46	4.38	4.38	8.75	19.0	
Residential	8					< 19.9	U	24					< 25.6	U
Agriculture	8					< 6.00	U	24	5.57	5.57	5.57	11.1	33.4	E
Forest/Field/Other	8					< 400	U	24					< 373	U

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-4. Absolute loading rates for total cadmium by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6					< 1.16	U	24	1.97	1.97	1.97	5.93	7.11	E
Residential	8					< 21.7	U	24					< 27.9	U
Agriculture	8					< 0.427	U	24					< 0.791	U
Forest/Field/Other	8					< 72.2	U	24					< 67.6	U
Port Gardner														
Commercial/Industrial	6					< 0.316	U	24	0.535	0.535	0.535	1.61	1.93	E
Residential	8					< 10.9	U	24					< 14.0	U
Agriculture	8					< 2.82	U	24					< 5.22	U
Forest/Field/Other	8					< 280	U	24					< 262	U
Elliott Bay														
Commercial/Industrial	6					< 0.917	U	24	1.55	1.55	1.55	4.66	5.60	E
Residential	8					< 7.65	U	24					< 9.85	U
Agriculture	8					< 1.10	U	24					< 2.03	U
Forest/Field/Other	8					< 59.3	U	24					< 55.6	U
Commencement Bay														
Commercial/Industrial	6					< 0.521	U	24	0.882	0.882	0.882	2.65	3.18	E
Residential	8					< 9.69	U	24					< 12.5	U
Agriculture	8					< 1.49	U	24					< 2.76	U
Forest/Field/Other	8					< 147	U	24					< 138	U
South Sound (East)														
Commercial/Industrial	6					< 0.445	U	24	0.754	0.754	0.754	2.26	2.72	E
Residential	8					< 12.5	U	24					< 16.1	U
Agriculture	8					< 2.59	U	24					< 4.81	U
Forest/Field/Other	8					< 139	U	24					< 130	U
South Sound (West)														
Commercial/Industrial	6					< 0.160	U	24	0.272	0.272	0.272	0.816	0.980	E
Residential	8					< 6.21	U	24					< 7.99	U
Agriculture	8					< 0.699	U	24					< 1.29	U
Forest/Field/Other	8					< 85.7	U	24					< 80.3	U
Hood Canal (South)														
Commercial/Industrial	6					< 0.00974	U	24	0.0165	0.0165	0.0165	0.0495	0.0595	E
Residential	8					< 2.25	U	24					< 2.89	U
Agriculture	8					< 0.108	U	24					< 0.200	U
Forest/Field/Other	8					< 157	U	24					< 147	U
Hood Canal (North)														
Commercial/Industrial	6					< 0.00722	U	24	0.0122	0.0122	0.0122	0.0367	0.0441	E
Residential	8					< 1.17	U	24					< 1.50	U
Agriculture	8					< 0.0169	U	24					< 0.0313	U
Forest/Field/Other	8					< 20.0	U	24					< 18.7	U
Sinclair/Dyes Inlet														
Commercial/Industrial	6					< 0.119	U	24	0.202	0.202	0.202	0.607	0.728	E
Residential	8					< 3.47	U	24					< 4.46	U
Agriculture	8					< 0.0507	U	24					< 0.0940	U
Forest/Field/Other	8					< 15.1	U	24					< 14.1	U
Admiralty Inlet														
Commercial/Industrial	6					< 0.0177	U	24	0.0300	0.0300	0.0300	0.0901	0.108	E
Residential	8					< 1.19	U	24					< 1.53	U
Agriculture	8					< 0.402	U	24					< 0.745	U
Forest/Field/Other	8					< 15.1	U	24					< 14.1	U
Strait of Juan de Fuca														
Commercial/Industrial	6					< 0.112	U	24	0.190	0.190	0.190	0.571	0.685	E
Residential	8					< 3.26	U	24					< 4.19	U
Agriculture	8					< 1.71	U	24					< 3.18	U
Forest/Field/Other	8					< 197	U	24					< 184	U
Strait of Georgia														
Commercial/Industrial	6					< 0.255	U	24	0.431	0.431	0.431	1.29	1.55	E
Residential	8					< 7.02	U	24					< 9.03	U
Agriculture	8					< 10.8	U	24					< 20.0	U
Forest/Field/Other	8					< 187	U	24					< 175	U
Whidbey Island														
Commercial/Industrial	6					< 0.157	U	24	0.266	0.266	0.266	0.800	0.960	E
Residential	8					< 9.90	U	24					< 12.7	U
Agriculture	8					< 6.47	U	24					< 12.0	U
Forest/Field/Other	8					< 594	U	24					< 556	U
San Juan Islands														
Commercial/Industrial	6					< 0.0955	U	24	0.162	0.162	0.162	0.486	0.583	E
Residential	8					< 2.36	U	24					< 3.04	U
Agriculture	8					< 1.40	U	24					< 2.59	U
Forest/Field/Other	8					< 33.4	U	24					< 31.3	U
Puget Sound														
Commercial/Industrial	6					< 4.30	U	24	7.28	7.28	7.28	21.9	26.2	E
Residential	8					< 99.3	U	24					< 128	U
Agriculture	8					< 30.1	U	24					< 55.7	U
Forest/Field/Other	8					< 2000	U	24					< 1870	U

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-5. Absolute loading rates for dissolved copper by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	8.73	10.5	17.0	20.7	35.6		24	48.6	80.8	90.3	113	154	
Residential	8	82.4	90.9	137	158	169		24	14.0	221	316	527	1310	
Agriculture	8	2.91	4.23	6.27	20.9	36.2		24	11.6	24.7	32.3	52.9	75.7	
Forest/Field/Other	8	252	267	339	483	924		24	216	277	318	615	2670	
Port Gardner														
Commercial/Industrial	6	2.37	2.84	4.60	5.60	9.65		24	13.2	21.9	24.5	30.6	41.6	
Residential	8	41.4	45.7	68.8	79.7	85.1		24	7.02	111	159	265	661	
Agriculture	8	19.1	27.9	41.3	137	239		24	76.2	163	213	349	499	
Forest/Field/Other	8	977	1040	1310	1870	3580		24	836	1070	1230	2380	10400	
Elliott Bay														
Commercial/Industrial	6	6.88	8.25	13.4	16.3	28.0		24	38.3	63.6	71.0	88.8	121	
Residential	8	29.1	32.1	48.3	55.9	59.7		24	4.92	77.8	111	186	464	
Agriculture	8	7.45	10.8	16.1	53.5	92.9		24	29.6	63.4	82.9	136	194	
Forest/Field/Other	8	207	220	279	397	760		24	178	228	261	505	2200	
Commencement Bay														
Commercial/Industrial	6	3.90	4.69	7.58	9.24	15.9		24	21.7	36.1	40.3	50.4	68.7	
Residential	8	36.8	40.6	61.1	70.7	75.6		24	6.23	98.5	141	236	587	
Agriculture	8	10.1	14.7	21.9	72.8	126		24	40.3	86.2	113	185	264	
Forest/Field/Other	8	515	545	691	986	1880		24	441	565	648	1250	5450	
South Sound (East)														
Commercial/Industrial	6	3.34	4.01	6.48	7.90	13.6		24	18.6	30.9	34.5	43.1	58.7	
Residential	8	47.4	52.4	78.8	91.2	97.4		24	8.03	127	182	304	757	
Agriculture	8	17.6	25.7	38.1	127	220		24	70.2	150	196	321	460	
Forest/Field/Other	8	485	514	651	929	1780		24	415	532	610	1180	5140	
South Sound (West)														
Commercial/Industrial	6	1.20	1.44	2.34	2.85	4.90		24	6.70	11.1	12.4	15.5	21.2	
Residential	8	23.6	26.0	39.2	45.4	48.5		24	4.00	63.2	90.5	151	376	
Agriculture	8	4.75	6.92	10.3	34.1	59.2		24	18.9	40.4	52.9	86.6	124	
Forest/Field/Other	8	300	318	403	574	1100		24	257	329	377	730	3180	
Hood Canal (South)														
Commercial/Industrial	6	0.0730	0.0876	0.142	0.173	0.298		24	0.406	0.675	0.755	0.943	1.28	
Residential	8	8.54	9.43	14.2	16.4	17.5		24	1.45	22.9	32.8	54.7	136	
Agriculture	8	0.736	1.07	1.59	5.28	9.17		24	2.93	6.26	8.18	13.4	19.2	
Forest/Field/Other	8	548	580	736	1050	2000		24	469	601	689	1330	5800	
Hood Canal (North)														
Commercial/Industrial	6	0.0541	0.0650	0.105	0.128	0.221		24	0.301	0.501	0.559	0.699	0.952	
Residential	8	4.43	4.89	7.37	8.53	9.11		24	0.751	11.9	17.0	28.4	70.7	
Agriculture	8	0.115	0.167	0.248	0.825	1.43		24	0.457	0.977	1.28	2.09	2.99	
Forest/Field/Other	8	69.8	73.9	93.7	134	255		24	59.7	76.6	87.8	170	739	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.894	1.07	1.74	2.12	3.64		24	4.98	8.27	9.24	11.6	15.7	
Residential	8	13.2	14.5	21.9	25.3	27.1		24	2.23	35.3	50.5	84.4	210	
Agriculture	8	0.345	0.502	0.744	2.48	4.30		24	1.37	2.94	3.84	6.28	8.99	
Forest/Field/Other	8	52.6	55.8	70.7	101	193		24	45.1	57.8	66.2	128	558	
Admiralty Inlet														
Commercial/Industrial	6	0.133	0.159	0.258	0.314	0.541		24	0.739	1.23	1.37	1.72	2.33	
Residential	8	4.51	4.98	7.49	8.67	9.26		24	0.764	12.1	17.3	28.9	71.9	
Agriculture	8	2.74	3.98	5.90	19.6	34.1		24	10.9	23.3	30.4	49.8	71.2	
Forest/Field/Other	8	52.8	55.9	70.9	101	193		24	45.2	58.0	66.5	129	559	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.842	1.01	1.63	1.99	3.43		24	4.69	7.79	8.70	10.9	14.8	
Residential	8	12.4	13.6	20.5	23.8	25.4		24	2.09	33.1	47.4	79.2	197	
Agriculture	8	11.7	17.0	25.1	83.7	145		24	46.4	99.2	130	212	304	
Forest/Field/Other	8	688	729	924	1320	2520		24	589	755	866	1680	7290	
Strait of Georgia														
Commercial/Industrial	6	1.91	2.29	3.71	4.52	7.78		24	10.6	17.7	19.7	24.7	33.6	
Residential	8	26.7	29.4	44.3	51.3	54.8		24	4.51	71.4	102	171	425	
Agriculture	8	73.3	107	158	526	914		24	292	624	815	1340	1910	
Forest/Field/Other	8	655	694	880	1250	2400		24	561	719	824	1600	6940	
Whidbey Island														
Commercial/Industrial	6	1.18	1.42	2.29	2.79	4.81		24	6.57	10.9	12.2	15.2	20.7	
Residential	8	37.6	41.5	62.5	72.3	77.2		24	6.37	101	144	241	600	
Agriculture	8	44.0	64.0	94.9	316	548		24	175	374	489	801	1150	
Forest/Field/Other	8	2080	2200	2790	3980	7600		24	1780	2280	2610	5060	22000	
San Juan Islands														
Commercial/Industrial	6	0.716	0.860	1.39	1.70	2.92		24	3.99	6.63	7.40	9.25	12.6	
Residential	8	8.96	9.90	14.9	17.2	18.4		24	1.52	24.0	34.4	57.4	143	
Agriculture	8	9.51	13.8	20.5	68.3	119		24	37.8	80.9	106	173	248	
Forest/Field/Other	8	117	124	157	224	427		24	99.9	128	147	284	1240	
Puget Sound														
Commercial/Industrial	6	32.2	38.7	62.6	76.3	131		24	179	298	333	416	567	
Residential	8	377	416	626	725	774		24	63.8	1010	1450	2410	6010	
Agriculture	8	204	298	441	1470	2550		24	813	1740	2270	3720	5330	
Forest/Field/Other	8	7000	7410	9400	13400	25600		24	5990	7680	8800	17000	74100	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-6. Absolute loading rates for total copper by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	10.2	14.9	22.0	25.9	40.2		24	105	132	152	192	270	
Residential	8	134	148	191	211	217		24	302	400	617	981	2760	
Agriculture	8	3.45	5.07	7.20	24.3	39.9		24	17.1	28.4	41.0	72.0	95.8	
Forest/Field/Other	8	310	383	454	562	1120		24	324	419	554	1340	6960	
Port Gardner														
Commercial/Industrial	6	2.76	4.04	5.96	7.02	10.9		24	28.4	35.7	41.2	52.1	73.2	
Residential	8	67.5	74.3	96.0	106	109		24	152	201	311	494	1390	
Agriculture	8	22.7	33.4	47.4	160	263		24	113	187	270	474	632	
Forest/Field/Other	8	1200	1480	1760	2180	4350		24	1250	1620	2150	5180	27000	
Elliott Bay														
Commercial/Industrial	6	8.02	11.7	17.3	20.4	31.6		24	82.5	104	120	151	213	
Residential	8	47.3	52.1	67.3	74.3	76.5		24	106	141	218	346	975	
Agriculture	8	8.84	13.0	18.5	62.3	102		24	43.8	72.9	105	185	246	
Forest/Field/Other	8	255	315	374	462	923		24	266	345	455	1100	5720	
Commencement Bay														
Commercial/Industrial	6	4.56	6.67	9.83	11.6	18.0		24	46.9	58.9	68.0	85.9	121	
Residential	8	59.9	65.9	85.2	94.1	96.9		24	135	178	276	438	1230	
Agriculture	8	12.0	17.7	25.1	84.7	139		24	59.6	99.1	143	251	334	
Forest/Field/Other	8	633	781	927	1150	2290		24	661	855	1130	2730	14200	
South Sound (East)														
Commercial/Industrial	6	3.89	5.70	8.40	9.90	15.4		24	40.1	50.4	58.1	73.4	103	
Residential	8	77.2	85.0	110	121	125		24	174	230	356	565	1590	
Agriculture	8	20.9	30.8	43.7	147	242		24	104	172	249	437	582	
Forest/Field/Other	8	596	736	873	1080	2160		24	623	806	1060	2570	13400	
South Sound (West)														
Commercial/Industrial	6	1.40	2.06	3.03	3.57	5.54		24	14.4	18.2	21.0	26.5	37.2	
Residential	8	38.4	42.3	54.7	60.3	62.1		24	86.4	114	177	281	792	
Agriculture	8	5.64	8.30	11.8	39.7	65.3		24	28.0	46.5	67.0	118	157	
Forest/Field/Other	8	368	455	540	668	1330		24	385	498	658	1590	8270	
Hood Canal (South)														
Commercial/Industrial	6	0.0852	0.125	0.184	0.217	0.336		24	0.876	1.10	1.27	1.61	2.26	
Residential	8	13.9	15.3	19.8	21.8	22.5		24	31.3	41.4	64.0	102	287	
Agriculture	8	0.873	1.28	1.82	6.15	10.1		24	4.33	7.19	10.4	18.2	24.3	
Forest/Field/Other	8	673	831	986	1220	2440		24	703	910	1200	2900	15100	
Hood Canal (North)														
Commercial/Industrial	6	0.0632	0.0925	0.136	0.161	0.249		24	0.650	0.817	0.943	1.19	1.67	
Residential	8	7.22	7.95	10.3	11.3	11.7		24	16.2	21.5	33.2	52.8	149	
Agriculture	8	0.136	0.201	0.285	0.960	1.58		24	0.675	1.12	1.62	2.85	3.79	
Forest/Field/Other	8	85.7	106	126	155	310		24	89.6	116	153	370	1920	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	1.04	1.53	2.25	2.65	4.11		24	10.7	13.5	15.6	19.7	27.7	
Residential	8	21.5	23.6	30.5	33.7	34.7		24	48.2	63.9	98.8	157	442	
Agriculture	8	0.409	0.603	0.855	2.88	4.74		24	2.03	3.37	4.87	8.55	11.4	
Forest/Field/Other	8	64.7	79.8	94.8	117	234		24	67.6	87.4	116	279	1450	
Admiralty Inlet														
Commercial/Industrial	6	0.155	0.227	0.334	0.394	0.611		24	1.59	2.00	2.31	2.92	4.11	
Residential	8	7.34	8.08	10.4	11.5	11.9		24	16.5	21.9	33.8	53.7	151	
Agriculture	8	3.25	4.78	6.78	22.9	37.6		24	16.1	26.7	38.6	67.8	90.2	
Forest/Field/Other	8	64.9	80.1	95.1	118	235		24	67.8	87.7	116	280	1460	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.982	1.44	2.12	2.50	3.87		24	10.1	12.7	14.7	18.5	26.0	
Residential	8	20.1	22.2	28.6	31.6	32.6		24	45.3	60.0	92.7	147	415	
Agriculture	8	13.8	20.4	28.9	97.4	160		24	68.6	114	164	289	385	
Forest/Field/Other	8	845	1040	1240	1530	3060		24	883	1140	1510	3640	19000	
Strait of Georgia														
Commercial/Industrial	6	2.23	3.26	4.80	5.66	8.78		24	22.9	28.8	33.2	42.0	59.0	
Residential	8	43.4	47.8	61.8	68.2	70.2		24	97.6	129	200	318	894	
Agriculture	8	87.0	128	182	613	1010		24	431	717	1030	1820	2420	
Forest/Field/Other	8	805	994	1180	1460	2910		24	841	1090	1440	3470	18100	
Whidbey Island														
Commercial/Industrial	6	1.38	2.01	2.97	3.50	5.43		24	14.2	17.8	20.5	25.9	36.5	
Residential	8	61.2	67.4	87.1	96.1	99.0		24	138	182	282	448	1260	
Agriculture	8	52.2	76.8	109	368	604		24	259	430	620	1090	1450	
Forest/Field/Other	8	2550	3150	3740	4630	9240		24	2670	3450	4560	11000	57300	
San Juan Islands														
Commercial/Industrial	6	0.836	1.22	1.80	2.13	3.30		24	8.60	10.8	12.5	15.8	22.1	
Residential	8	14.6	16.1	20.8	22.9	23.6		24	32.8	43.5	67.2	107	301	
Agriculture	8	11.3	16.6	23.6	79.5	131		24	55.9	93.0	134	236	314	
Forest/Field/Other	8	143	177	210	260	519		24	150	194	256	618	3220	
Puget Sound														
Commercial/Industrial	6	37.6	55.1	81.1	95.6	148		24	387	486	561	709	996	
Residential	8	614	675	873	964	993		24	1380	1830	2830	4490	12600	
Agriculture	8	243	357	507	1710	2810		24	1200	2000	2880	5070	6740	
Forest/Field/Other	8	8600	10600	12600	15600	31100		24	8980	11600	15400	37100	193000	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-7. Absolute loading rates for dissolved lead by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.116	0.350	1.87	2.69	5.95		24	4.75	6.72	9.10	13.5	28.8	
Residential	8	6.50	8.67	8.67	17.4	26.0		24	2.79	19.5	33.5	44.6	67.1	
Agriculture	8	0.0427	0.128	0.213	0.299	0.512		24	0.317	0.633	0.869	1.11	1.27	
Forest/Field/Other	8	7.22	7.22	14.4	28.9	57.7	E	24	6.76	20.3	33.8	47.3	324	
Port Gardner														
Commercial/Industrial	6	0.0316	0.0949	0.507	0.728	1.61		24	1.29	1.82	2.47	3.65	7.81	
Residential	8	3.27	4.36	4.36	8.74	13.1		24	1.40	9.83	16.8	22.5	33.7	
Agriculture	8	0.282	0.843	1.40	1.97	3.37		24	2.09	4.17	5.73	7.30	8.35	
Forest/Field/Other	8	28.0	28.0	55.9	112	224	E	24	26.2	78.7	131	183	1250	
Elliott Bay														
Commercial/Industrial	6	0.0917	0.276	1.47	2.11	4.69		24	3.74	5.29	7.16	10.6	22.7	
Residential	8	2.29	3.06	3.06	6.13	9.18		24	0.985	6.89	11.8	15.8	23.7	
Agriculture	8	0.110	0.328	0.547	0.768	1.31		24	0.812	1.62	2.23	2.84	3.25	
Forest/Field/Other	8	5.93	5.93	11.9	23.7	47.5	E	24	5.56	16.7	27.8	38.9	266	
Commencement Bay														
Commercial/Industrial	6	0.0521	0.157	0.836	1.20	2.66		24	2.12	3.00	4.07	6.02	12.9	
Residential	8	2.90	3.87	3.87	7.76	11.6		24	1.25	8.72	15.0	19.9	29.9	
Agriculture	8	0.149	0.446	0.743	1.04	1.78		24	1.10	2.21	3.03	3.86	4.42	
Forest/Field/Other	8	14.7	14.7	29.4	58.9	118	E	24	13.8	41.4	68.9	96.4	661	
South Sound (East)														
Commercial/Industrial	6	0.0445	0.134	0.715	1.03	2.28		24	1.81	2.57	3.48	5.15	11.0	
Residential	8	3.74	4.99	4.99	10.0	15.0		24	1.61	11.2	19.3	25.7	38.6	
Agriculture	8	0.259	0.777	1.29	1.82	3.11		24	1.92	3.84	5.28	6.73	7.69	
Forest/Field/Other	8	13.9	13.9	27.7	55.5	111	E	24	13.0	39.0	64.9	90.8	623	
South Sound (West)														
Commercial/Industrial	6	0.0160	0.0482	0.258	0.370	0.820		24	0.654	0.926	1.25	1.86	3.97	
Residential	8	1.86	2.48	2.48	4.98	7.45		24	0.799	5.59	9.59	12.8	19.2	
Agriculture	8	0.0699	0.209	0.349	0.490	0.837		24	0.518	1.04	1.42	1.81	2.07	
Forest/Field/Other	8	8.57	8.57	17.1	34.3	68.6	E	24	8.03	24.1	40.1	56.1	385	
Hood Canal (South)														
Commercial/Industrial	6	0.000974	0.00293	0.0156	0.0225	0.0498		24	0.0397	0.0562	0.0761	0.113	0.241	
Residential	8	0.674	0.899	0.899	1.80	2.70		24	0.289	2.03	3.47	4.63	6.95	
Agriculture	8	0.0108	0.0324	0.0540	0.0758	0.130		24	0.0802	0.160	0.220	0.281	0.321	
Forest/Field/Other	8	15.7	15.7	31.3	62.6	125	E	24	14.7	44.1	73.3	103	703	
Hood Canal (North)														
Commercial/Industrial	6	0.000722	0.00217	0.0116	0.0166	0.0369		24	0.0294	0.0416	0.0564	0.0835	0.179	
Residential	8	0.350	0.467	0.467	0.935	1.40		24	0.150	1.05	1.80	2.40	3.61	
Agriculture	8	0.00169	0.00506	0.00843	0.0118	0.0202		24	0.0125	0.0250	0.0344	0.0438	0.0501	
Forest/Field/Other	8	2.00	2.00	3.99	7.98	16.0	E	24	1.87	5.62	9.34	13.1	89.6	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0119	0.0359	0.192	0.275	0.610		24	0.486	0.688	0.932	1.38	2.95	
Residential	8	1.04	1.39	1.39	2.78	4.16		24	0.446	3.12	5.36	7.14	10.7	
Agriculture	8	0.00507	0.0152	0.0253	0.0355	0.0608		24	0.0376	0.0752	0.103	0.132	0.150	
Forest/Field/Other	8	1.51	1.51	3.01	6.02	12.0	E	24	1.41	4.24	7.05	9.86	67.6	
Admiralty Inlet														
Commercial/Industrial	6	0.00177	0.00532	0.0284	0.0408	0.0905		24	0.0721	0.102	0.138	0.205	0.438	
Residential	8	0.356	0.474	0.474	0.951	1.42		24	0.153	1.07	1.83	2.44	3.67	
Agriculture	8	0.0402	0.120	0.201	0.282	0.482		24	0.298	0.596	0.818	1.04	1.19	
Forest/Field/Other	8	1.51	1.51	3.02	6.04	12.1	E	24	1.41	4.25	7.07	9.89	67.8	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0112	0.0337	0.180	0.259	0.574		24	0.457	0.647	0.877	1.30	2.78	
Residential	8	0.976	1.30	1.30	2.61	3.90		24	0.419	2.93	5.03	6.70	10.1	
Agriculture	8	0.171	0.513	0.855	1.20	2.05		24	1.27	2.54	3.49	4.45	5.08	
Forest/Field/Other	8	19.7	19.7	39.3	78.7	157	E	24	18.4	55.4	92.1	129	883	
Strait of Georgia														
Commercial/Industrial	6	0.0255	0.0765	0.409	0.587	1.30		24	1.04	1.47	1.99	2.94	6.30	
Residential	8	2.10	2.81	2.81	5.62	8.42		24	0.903	6.32	10.8	14.4	21.7	
Agriculture	8	1.08	3.23	5.38	7.55	12.9		24	7.99	16.0	21.9	28.0	32.0	
Forest/Field/Other	8	18.7	18.7	37.5	74.9	150	E	24	17.5	52.7	87.7	123	841	
Whidbey Island														
Commercial/Industrial	6	0.0157	0.0473	0.253	0.363	0.804		24	0.641	0.907	1.23	1.82	3.89	
Residential	8	2.97	3.96	3.96	7.93	11.9		24	1.27	8.92	15.3	20.4	30.6	
Agriculture	8	0.647	1.94	3.23	4.53	7.75		24	4.79	9.58	13.2	16.8	19.2	
Forest/Field/Other	8	59.4	59.4	119	238	475	E	24	55.6	167	278	389	2670	
San Juan Islands														
Commercial/Industrial	6	0.00955	0.0287	0.153	0.220	0.488		24	0.389	0.551	0.746	1.10	2.36	
Residential	8	0.707	0.944	0.944	1.89	2.83		24	0.304	2.13	3.64	4.86	7.30	
Agriculture	8	0.140	0.419	0.698	0.980	1.68		24	1.04	2.07	2.85	3.63	4.15	
Forest/Field/Other	8	3.34	3.34	6.68	13.4	26.7	E	24	3.13	9.40	15.6	21.9	150	
Puget Sound														
Commercial/Industrial	6	0.430	1.29	6.90	9.91	22.0		24	17.5	24.8	33.6	49.7	106	
Residential	8	29.7	39.7	39.7	79.5	119		24	12.8	89.4	153	204	307	
Agriculture	8	3.01	9.00	15.0	21.1	36.0		24	22.3	44.6	61.2	78.0	89.1	
Forest/Field/Other	8	200	200	400	800	1600	E	24	187	563	937	1310	8980	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-8. Absolute loading rates for total lead by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.584	0.584	3.15	5.72	8.66		24	11.1	44.3	66.4	103	144	
Residential	8	23.9	28.2	34.7	39.0	102		24	61.5	104	145	282	570	
Agriculture	8	0.213	0.213	0.384	0.683	0.980	E	24	0.395	1.42	2.45	4.42	14.9	
Forest/Field/Other	8	36.0	36.0	36.0	64.9	101	E	24	33.8	33.8	87.9	128	1660	
Port Gardner														
Commercial/Industrial	6	0.158	0.158	0.854	1.55	2.35		24	3.00	12.0	18.0	27.8	39.1	
Residential	8	12.0	14.2	17.4	19.6	51.2		24	30.9	52.1	72.9	142	287	
Agriculture	8	1.40	1.40	2.53	4.50	6.46	E	24	2.60	9.39	16.1	29.2	98.0	
Forest/Field/Other	8	140	140	140	251	391	E	24	131	131	340	497	6420	
Elliott Bay														
Commercial/Industrial	6	0.460	0.460	2.48	4.50	6.82		24	8.71	34.8	52.3	80.8	113	
Residential	8	8.42	9.94	12.2	13.8	35.9		24	21.7	36.5	51.1	99.4	201	
Agriculture	8	0.547	0.547	0.984	1.75	2.51	E	24	1.01	3.65	6.28	11.3	38.2	
Forest/Field/Other	8	29.6	29.6	29.6	53.4	83.1	E	24	27.8	27.8	72.3	105	1360	
Commencement Bay														
Commercial/Industrial	6	0.261	0.261	1.41	2.56	3.87		24	4.95	19.8	29.7	45.9	64.4	
Residential	8	10.7	12.6	15.5	17.4	45.4		24	27.5	46.2	64.7	126	254	
Agriculture	8	0.743	0.743	1.34	2.38	3.42	E	24	1.38	4.97	8.55	15.4	51.9	
Forest/Field/Other	8	73.5	73.5	73.5	132	206	E	24	68.9	68.9	179	262	3380	
South Sound (East)														
Commercial/Industrial	6	0.223	0.223	1.20	2.19	3.31		24	4.23	16.9	25.4	39.2	55.1	
Residential	8	13.7	16.2	20.0	22.4	58.6		24	35.4	59.6	83.4	162	328	
Agriculture	8	1.29	1.29	2.33	4.15	5.95	E	24	2.40	8.65	14.9	26.9	90.3	
Forest/Field/Other	8	69.2	69.2	69.2	125	194	E	24	64.9	64.9	169	247	3190	
South Sound (West)														
Commercial/Industrial	6	0.0804	0.0804	0.434	0.788	1.19		24	1.52	6.10	9.15	14.1	19.9	
Residential	8	6.83	8.07	9.93	11.2	29.1		24	17.6	29.7	41.5	80.7	163	
Agriculture	8	0.349	0.349	0.628	1.12	1.60	E	24	0.646	2.33	4.01	7.24	24.3	
Forest/Field/Other	8	42.8	42.8	42.8	77.1	120	E	24	40.1	40.1	104	152	1970	
Hood Canal (South)														
Commercial/Industrial	6	0.00488	0.00488	0.0263	0.0478	0.0724		24	0.0925	0.370	0.555	0.858	1.20	
Residential	8	2.47	2.92	3.59	4.04	10.5		24	6.37	10.7	15.0	29.2	59.1	
Agriculture	8	0.0540	0.0540	0.0972	0.173	0.248	E	24	0.0999	0.361	0.620	1.12	3.77	
Forest/Field/Other	8	78.2	78.2	78.2	141	219	E	24	73.3	73.3	191	278	3600	
Hood Canal (North)														
Commercial/Industrial	6	0.00362	0.00362	0.0195	0.0355	0.0537		24	0.0686	0.274	0.411	0.636	0.893	
Residential	8	1.28	1.52	1.87	2.10	5.48		24	3.31	5.57	7.80	15.2	30.7	
Agriculture	8	0.00843	0.00843	0.0152	0.0270	0.0387	E	24	0.0156	0.0563	0.0969	0.175	0.588	
Forest/Field/Other	8	9.96	9.96	9.96	17.9	27.9	E	24	9.34	9.34	24.3	35.5	458	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0598	0.0598	0.323	0.586	0.887		24	1.13	4.53	6.80	10.5	14.8	
Residential	8	3.82	4.51	5.54	6.24	16.3		24	9.84	16.6	23.2	45.1	91.2	
Agriculture	8	0.0253	0.0253	0.0456	0.0811	0.116	E	24	0.0469	0.169	0.291	0.525	1.77	
Forest/Field/Other	8	7.52	7.52	7.52	13.5	21.1	E	24	7.05	7.05	18.3	26.8	346	
Admiralty Inlet														
Commercial/Industrial	6	0.00887	0.00887	0.0479	0.0870	0.132		24	0.168	0.673	1.01	1.56	2.19	
Residential	8	1.31	1.54	1.90	2.13	5.57		24	3.37	5.67	7.93	15.4	31.2	
Agriculture	8	0.201	0.201	0.361	0.643	0.923	E	24	0.371	1.34	2.31	4.16	14.0	
Forest/Field/Other	8	7.54	7.54	7.54	13.6	21.1	E	24	7.07	7.07	18.4	26.9	347	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0563	0.0563	0.304	0.551	0.835		24	1.07	4.26	6.40	9.89	13.9	
Residential	8	3.58	4.23	5.20	5.85	15.3		24	9.23	15.5	21.8	42.3	85.5	
Agriculture	8	0.855	0.855	1.54	2.74	3.93	E	24	1.58	5.72	9.83	17.7	59.7	
Forest/Field/Other	8	98.2	98.2	98.2	177	275	E	24	92.1	92.1	240	350	4520	
Strait of Georgia														
Commercial/Industrial	6	0.128	0.128	0.689	1.25	1.89		24	2.42	9.67	14.5	22.4	31.5	
Residential	8	7.72	9.12	11.2	12.6	32.9		24	19.9	33.5	46.9	91.2	184	
Agriculture	8	5.38	5.38	9.69	17.2	24.7	E	24	9.96	36.0	61.8	112	375	
Forest/Field/Other	8	93.5	93.5	93.5	168	262	E	24	87.7	87.7	228	333	4300	
Whidbey Island														
Commercial/Industrial	6	0.0788	0.0788	0.426	0.773	1.17		24	1.49	5.98	8.96	13.9	19.5	
Residential	8	10.9	12.9	15.8	17.8	46.4		24	28.1	47.3	66.2	129	260	
Agriculture	8	3.23	3.23	5.81	10.3	14.8	E	24	5.97	21.6	37.1	67.0	225	
Forest/Field/Other	8	296	296	296	534	831	E	24	278	278	723	1060	13600	
San Juan Islands														
Commercial/Industrial	6	0.0479	0.0479	0.259	0.469	0.710		24	0.907	3.63	5.44	8.42	11.8	
Residential	8	2.60	3.07	3.77	4.24	11.1		24	6.69	11.3	15.8	30.7	62.0	
Agriculture	8	0.698	0.698	1.26	2.24	3.21	E	24	1.29	4.66	8.02	14.5	48.7	
Forest/Field/Other	8	16.7	16.7	16.7	30.0	46.8	E	24	15.6	15.6	40.7	59.4	767	
Puget Sound														
Commercial/Industrial	6	2.15	2.15	11.6	21.1	32.0		24	40.8	163	245	379	532	
Residential	8	109	129	159	178	465		24	281	474	663	1290	2610	
Agriculture	8	15.0	15.0	27.0	48.1	69.0	E	24	27.8	100	172	311	1050	
Forest/Field/Other	8	999	999	999	1800	2800	E	24	937	937	2440	3560	45900	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-9. Absolute loading rates for dissolved mercury by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.0116	0.0116	0.0234	0.0467	0.0584	E	24	0.0395	0.119	0.119	0.158	0.356	
Residential	8	0.217	0.217	0.434	0.434	0.867	E	24	0.279	0.559	1.40	1.67	2.23	
Agriculture	8	0.00852	0.00852	0.0128	0.0256	0.0512		24	0.0317	0.0475	0.0553	0.0791	0.182	
Forest/Field/Other	8	0.722	0.722	0.722	1.44	3.60	E	24	0.676	0.676	1.35	2.71	13.5	
Port Gardner														
Commercial/Industrial	6	0.00316	0.00316	0.00633	0.0127	0.0158	E	24	0.0107	0.0322	0.0322	0.0428	0.0965	
Residential	8	0.109	0.109	0.218	0.218	0.436	E	24	0.140	0.281	0.702	0.842	1.12	
Agriculture	8	0.0562	0.0562	0.0843	0.169	0.337		24	0.209	0.313	0.364	0.522	1.20	
Forest/Field/Other	8	2.80	2.80	2.80	5.59	14.0	E	24	2.62	2.62	5.22	10.5	52.2	
Elliott Bay														
Commercial/Industrial	6	0.00917	0.00917	0.0184	0.0368	0.0460	E	24	0.0311	0.0934	0.0934	0.124	0.280	
Residential	8	0.0765	0.0765	0.153	0.153	0.306	E	24	0.0985	0.197	0.492	0.591	0.788	
Agriculture	8	0.0219	0.0219	0.0328	0.0656	0.131		24	0.0812	0.122	0.142	0.203	0.467	
Forest/Field/Other	8	0.593	0.593	0.593	1.19	2.96	E	24	0.556	0.556	1.11	2.22	11.1	
Commencement Bay														
Commercial/Industrial	6	0.00521	0.00521	0.0104	0.0209	0.0261	E	24	0.0177	0.0530	0.0530	0.0706	0.159	
Residential	8	0.0969	0.0969	0.194	0.194	0.387	E	24	0.125	0.250	0.623	0.748	0.997	
Agriculture	8	0.0297	0.0297	0.0446	0.0892	0.178		24	0.110	0.166	0.193	0.276	0.635	
Forest/Field/Other	8	1.47	1.47	1.47	2.94	7.35	E	24	1.38	1.38	2.75	5.52	27.5	
South Sound (East)														
Commercial/Industrial	6	0.00445	0.00445	0.00893	0.0179	0.0223	E	24	0.0151	0.0453	0.0453	0.0604	0.136	
Residential	8	0.125	0.125	0.250	0.250	0.499	E	24	0.161	0.322	0.803	0.964	1.29	
Agriculture	8	0.0517	0.0517	0.0777	0.155	0.311		24	0.192	0.288	0.336	0.481	1.10	
Forest/Field/Other	8	1.39	1.39	1.39	2.77	6.92	E	24	1.30	1.30	2.59	5.20	25.9	
South Sound (West)														
Commercial/Industrial	6	0.00160	0.00160	0.00322	0.00644	0.00804	E	24	0.00545	0.0163	0.0163	0.0218	0.0490	
Residential	8	0.0621	0.0621	0.124	0.124	0.248	E	24	0.0799	0.160	0.400	0.480	0.639	
Agriculture	8	0.0139	0.0139	0.0209	0.0419	0.0837		24	0.0518	0.0777	0.0905	0.129	0.298	
Forest/Field/Other	8	0.857	0.857	0.857	1.71	4.28	E	24	0.803	0.803	1.60	3.21	16.0	
Hood Canal (South)														
Commercial/Industrial	6	0.000974	0.000974	0.00195	0.00391	0.00488	E	24	0.000330	0.000992	0.000992	0.00132	0.00298	
Residential	8	0.0225	0.0225	0.0450	0.0450	0.0899	E	24	0.0289	0.0580	0.145	0.174	0.231	
Agriculture	8	0.00216	0.00216	0.00324	0.00648	0.0130		24	0.00802	0.0120	0.0140	0.0200	0.0461	
Forest/Field/Other	8	1.57	1.57	1.57	3.13	7.82	E	24	1.47	1.47	2.92	5.87	29.2	
Hood Canal (North)														
Commercial/Industrial	6	0.0000722	0.0000722	0.000145	0.000290	0.000362	E	24	0.000245	0.000735	0.000735	0.000979	0.00221	
Residential	8	0.0117	0.0117	0.0234	0.0234	0.0467	E	24	0.0150	0.0301	0.0751	0.0901	0.120	
Agriculture	8	0.000337	0.000337	0.000506	0.00101	0.00202		24	0.00125	0.00188	0.00219	0.00313	0.00719	
Forest/Field/Other	8	0.200	0.200	0.200	0.399	0.996	E	24	0.187	0.187	0.372	0.748	3.72	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.00119	0.00119	0.00239	0.00479	0.00598	E	24	0.00405	0.0121	0.0121	0.0162	0.0364	
Residential	8	0.0347	0.0347	0.0694	0.0694	0.139	E	24	0.0446	0.0894	0.223	0.268	0.357	
Agriculture	8	0.00101	0.00101	0.00152	0.00304	0.00608		24	0.00376	0.00564	0.00657	0.00940	0.0216	
Forest/Field/Other	8	0.151	0.151	0.151	0.301	0.752	E	24	0.141	0.141	0.281	0.564	2.81	
Admiralty Inlet														
Commercial/Industrial	6	0.000177	0.000177	0.000355	0.000710	0.000887	E	24	0.000601	0.00180	0.00180	0.00240	0.00541	
Residential	8	0.0119	0.0119	0.0237	0.0237	0.0474	E	24	0.0153	0.0306	0.0764	0.0916	0.122	
Agriculture	8	0.00802	0.00802	0.0120	0.0241	0.0482		24	0.0298	0.0447	0.0520	0.0745	0.171	
Forest/Field/Other	8	0.151	0.151	0.151	0.302	0.754	E	24	0.141	0.141	0.282	0.566	2.82	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.00112	0.00112	0.00225	0.00450	0.00563	E	24	0.00381	0.0114	0.0114	0.0152	0.0343	
Residential	8	0.0326	0.0326	0.0651	0.0651	0.130	E	24	0.0419	0.0839	0.209	0.251	0.335	
Agriculture	8	0.0342	0.0342	0.0513	0.103	0.205		24	0.127	0.191	0.222	0.318	0.730	
Forest/Field/Other	8	1.97	1.97	1.97	3.93	9.82	E	24	1.84	1.84	3.67	7.37	36.7	
Strait of Georgia														
Commercial/Industrial	6	0.00255	0.00255	0.00511	0.0102	0.0128	E	24	0.00864	0.0259	0.0259	0.0345	0.0778	
Residential	8	0.0702	0.0702	0.140	0.140	0.281	E	24	0.0903	0.181	0.451	0.542	0.722	
Agriculture	8	0.215	0.215	0.323	0.646	1.29		24	0.799	1.20	1.40	2.00	4.59	
Forest/Field/Other	8	1.87	1.87	1.87	3.75	9.35	E	24	1.75	1.75	3.50	7.02	35.0	
Whidbey Island														
Commercial/Industrial	6	0.00157	0.00157	0.00315	0.00631	0.00788	E	24	0.00534	0.0160	0.0160	0.0213	0.0481	
Residential	8	0.0990	0.0990	0.198	0.198	0.396	E	24	0.127	0.255	0.637	0.764	1.02	
Agriculture	8	0.129	0.129	0.194	0.387	0.775		24	0.479	0.719	0.837	1.20	2.75	
Forest/Field/Other	8	5.94	5.94	5.94	11.9	29.6	E	24	5.56	5.56	11.1	22.3	111	
San Juan Islands														
Commercial/Industrial	6	0.000955	0.000955	0.00192	0.00383	0.00479	E	24	0.00324	0.00973	0.00973	0.0130	0.0292	
Residential	8	0.0236	0.0236	0.0472	0.0472	0.0944	E	24	0.0304	0.0608	0.152	0.182	0.243	
Agriculture	8	0.0279	0.0279	0.0419	0.0838	0.168		24	0.104	0.155	0.181	0.259	0.596	
Forest/Field/Other	8	0.334	0.334	0.334	0.668	1.67	E	24	0.313	0.313	0.623	1.25	6.23	
Puget Sound														
Commercial/Industrial	6	0.0430	0.0430	0.0862	0.172	0.215	E	24	0.146	0.438	0.438	0.583	1.31	
Residential	8	0.993	0.993	1.99	1.99	3.97	E	24	1.28	2.56	6.38	7.66	10.2	
Agriculture	8	0.600	0.600	0.900	1.80	3.60		24	2.23	3.34	3.89	5.57	12.8	
Forest/Field/Other	8	20.0	20.0	20.0	40.0	99.9	E	24	18.7	18.7	37.3	75.0	373	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-10. Absolute loading rates for total mercury by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.0234	0.0234	0.0234	0.0584	0.0815		24	0.119	0.197	0.277	0.356	0.672	
Residential	8	0.217	0.434	0.650	0.867	1.08		24	0.559	1.40	2.23	2.79	4.19	
Agriculture	8	0.0128	0.0171	0.0171	0.0340	0.0683		24	0.0395	0.0711	0.0869	0.103	0.182	
Forest/Field/Other	8	0.722	0.722	1.44	2.16	3.60		24	0.676	2.03	2.71	5.41	25.7	
Port Gardner														
Commercial/Industrial	6	0.00633	0.00633	0.00633	0.0158	0.0221		24	0.0322	0.0535	0.0750	0.0965	0.182	
Residential	8	0.109	0.218	0.327	0.436	0.543		24	0.281	0.702	1.12	1.40	2.11	
Agriculture	8	0.0843	0.112	0.112	0.224	0.450		24	0.260	0.469	0.573	0.677	1.20	
Forest/Field/Other	8	2.80	2.80	5.59	8.36	14.0		24	2.62	7.87	10.5	21.0	99.4	
Elliott Bay														
Commercial/Industrial	6	0.0184	0.0184	0.0184	0.0460	0.0642		24	0.0934	0.155	0.218	0.280	0.529	
Residential	8	0.0765	0.153	0.229	0.306	0.381		24	0.197	0.492	0.788	0.985	1.46	
Agriculture	8	0.0328	0.0438	0.0438	0.0873	0.175		24	0.101	0.182	0.223	0.264	0.467	
Forest/Field/Other	8	0.593	0.593	1.19	1.78	2.96		24	0.556	1.67	2.22	4.45	21.1	
Commencement Bay														
Commercial/Industrial	6	0.0104	0.0104	0.0104	0.0261	0.0364		24	0.0530	0.0882	0.124	0.159	0.300	
Residential	8	0.0969	0.194	0.290	0.387	0.482		24	0.250	0.623	0.997	1.25	1.87	
Agriculture	8	0.0446	0.0595	0.0595	0.119	0.238		24	0.138	0.248	0.303	0.358	0.635	
Forest/Field/Other	8	1.47	1.47	2.94	4.41	7.35		24	1.38	4.14	5.52	11.0	52.3	
South Sound (East)														
Commercial/Industrial	6	0.00893	0.00893	0.00893	0.0223	0.0312		24	0.0453	0.0754	0.106	0.136	0.257	
Residential	8	0.125	0.250	0.374	0.499	0.622		24	0.322	0.803	1.29	1.61	2.41	
Agriculture	8	0.0777	0.104	0.104	0.207	0.415		24	0.240	0.432	0.528	0.624	1.10	
Forest/Field/Other	8	1.39	1.39	2.77	4.15	6.92		24	1.30	3.90	5.20	10.4	49.3	
South Sound (West)														
Commercial/Industrial	6	0.00322	0.00322	0.00322	0.00804	0.0112		24	0.0163	0.0272	0.0381	0.0490	0.0926	
Residential	8	0.0621	0.124	0.186	0.248	0.309		24	0.160	0.400	0.639	0.799	1.20	
Agriculture	8	0.0209	0.0279	0.0279	0.0557	0.112		24	0.0646	0.116	0.142	0.168	0.298	
Forest/Field/Other	8	0.857	0.857	1.71	2.57	4.28		24	0.803	2.41	3.21	6.43	30.5	
Hood Canal (South)														
Commercial/Industrial	6	0.000195	0.000195	0.000195	0.000488	0.000682		24	0.000992	0.00165	0.00231	0.00298	0.00562	
Residential	8	0.0225	0.0450	0.0674	0.0899	0.112		24	0.0580	0.145	0.231	0.289	0.434	
Agriculture	8	0.00324	0.00432	0.00432	0.00862	0.0173		24	0.00999	0.0180	0.0220	0.0260	0.0461	
Forest/Field/Other	8	1.57	1.57	3.13	4.69	7.82		24	1.47	4.41	5.87	11.7	55.7	
Hood Canal (North)														
Commercial/Industrial	6	0.000145	0.000145	0.000145	0.000362	0.000505		24	0.000735	0.00122	0.00171	0.00221	0.00416	
Residential	8	0.0117	0.0234	0.0350	0.0467	0.0581		24	0.0301	0.0751	0.120	0.150	0.225	
Agriculture	8	0.000506	0.000675	0.000675	0.00135	0.00270		24	0.00156	0.00281	0.00344	0.00406	0.00719	
Forest/Field/Other	8	0.200	0.200	0.399	0.597	0.996		24	0.187	0.562	0.748	1.50	7.09	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.00239	0.00239	0.00239	0.00598	0.00835		24	0.0121	0.0202	0.0283	0.0364	0.0688	
Residential	8	0.0347	0.0694	0.104	0.139	0.173		24	0.0894	0.223	0.357	0.446	0.670	
Agriculture	8	0.00152	0.00203	0.00203	0.00404	0.00811		24	0.00469	0.00845	0.0103	0.0122	0.0216	
Forest/Field/Other	8	0.151	0.151	0.301	0.451	0.752		24	0.141	0.424	0.564	1.13	5.35	
Admiralty Inlet														
Commercial/Industrial	6	0.000355	0.000355	0.000355	0.000887	0.00124		24	0.00180	0.00300	0.00420	0.00541	0.0102	
Residential	8	0.0119	0.0237	0.0356	0.0474	0.0591		24	0.0306	0.0764	0.122	0.153	0.229	
Agriculture	8	0.0120	0.0161	0.0161	0.0320	0.0643		24	0.0371	0.0669	0.0818	0.0967	0.171	
Forest/Field/Other	8	0.151	0.151	0.302	0.452	0.754		24	0.141	0.425	0.566	1.13	5.37	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.00225	0.00225	0.00225	0.00563	0.00786		24	0.0114	0.0190	0.0267	0.0343	0.0647	
Residential	8	0.0326	0.0651	0.0976	0.130	0.162		24	0.0839	0.209	0.335	0.419	0.628	
Agriculture	8	0.0513	0.0685	0.0685	0.137	0.274		24	0.158	0.285	0.349	0.412	0.730	
Forest/Field/Other	8	1.97	1.97	3.93	5.89	9.82		24	1.84	5.54	7.37	14.7	69.9	
Strait of Georgia														
Commercial/Industrial	6	0.00511	0.00511	0.00511	0.0128	0.0178		24	0.0259	0.0431	0.0604	0.0778	0.147	
Residential	8	0.0702	0.140	0.210	0.281	0.350		24	0.181	0.451	0.722	0.903	1.35	
Agriculture	8	0.323	0.431	0.431	0.859	1.72		24	0.996	1.80	2.19	2.59	4.59	
Forest/Field/Other	8	1.87	1.87	3.75	5.61	9.35		24	1.75	5.27	7.02	14.0	66.6	
Whidbey Island														
Commercial/Industrial	6	0.00315	0.00315	0.00315	0.00788	0.0110		24	0.0160	0.0266	0.0373	0.0481	0.0907	
Residential	8	0.0990	0.198	0.297	0.396	0.493		24	0.255	0.637	1.02	1.27	1.91	
Agriculture	8	0.194	0.258	0.258	0.515	1.03		24	0.597	1.08	1.32	1.56	2.75	
Forest/Field/Other	8	5.94	5.94	11.9	17.8	29.6		24	5.56	16.7	22.3	44.5	211	
San Juan Islands														
Commercial/Industrial	6	0.00192	0.00192	0.00192	0.00479	0.00669		24	0.00973	0.0162	0.0227	0.0292	0.0551	
Residential	8	0.0236	0.0472	0.0707	0.0944	0.118		24	0.0608	0.152	0.243	0.304	0.456	
Agriculture	8	0.0419	0.0559	0.0559	0.111	0.224		24	0.129	0.233	0.285	0.336	0.596	
Forest/Field/Other	8	0.334	0.334	0.668	0.999	1.67		24	0.313	0.940	1.25	2.50	11.9	
Puget Sound														
Commercial/Industrial	6	0.0862	0.0862	0.0862	0.215	0.301		24	0.438	0.728	1.02	1.31	2.48	
Residential	8	0.993	1.99	2.97	3.97	4.94		24	2.56	6.38	10.2	12.8	19.2	
Agriculture	8	0.900	1.20	1.20	2.40	4.81		24	2.78	5.00	6.12	7.23	12.8	
Forest/Field/Other	8	20.0	20.0	40.0	59.9	99.9		24	18.7	56.3	75.0	150	711	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-11. Absolute loading rates for dissolved zinc by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	87.3	120	134	180	267		24	494	837	1150	1650	2560	
Residential	8	239	325	368	499	563		24	446	754	945	1620	7730	
Agriculture	8	4.27	6.40	16.6	40.1	47.7		24	11.9	31.7	53.1	111	440	
Forest/Field/Other	8	360	360	866	1660	2810		24	338	338	1550	2300	6760	
Port Gardner														
Commercial/Industrial	6	23.7	32.6	36.3	48.7	72.4		24	134	227	312	448	694	
Residential	8	120	163	185	251	283		24	225	379	475	815	3890	
Agriculture	8	28.2	42.2	110	264	314		24	78.2	209	350	730	2900	
Forest/Field/Other	8	1400	1400	3350	6420	10900		24	1310	1310	6000	8900	26200	
Elliott Bay														
Commercial/Industrial	6	68.8	94.5	105	142	210		24	389	659	905	1300	2020	
Residential	8	84.2	115	130	176	199		24	158	266	334	572	2730	
Agriculture	8	11.0	16.4	42.7	103	122		24	30.4	81.2	136	284	1130	
Forest/Field/Other	8	296	296	712	1360	2310		24	278	278	1270	1890	5560	
Commencement Bay														
Commercial/Industrial	6	39.0	53.7	59.9	80.4	119		24	221	374	514	739	1150	
Residential	8	107	145	164	223	252		24	199	337	422	723	3450	
Agriculture	8	14.9	22.3	58.0	140	166		24	41.4	110	185	386	1540	
Forest/Field/Other	8	735	735	1770	3380	5740		24	689	689	3160	4690	13800	
South Sound (East)														
Commercial/Industrial	6	33.4	45.9	51.2	68.7	102		24	189	320	440	631	979	
Residential	8	137	187	212	287	324		24	257	434	544	933	4450	
Agriculture	8	25.9	38.8	101	244	290		24	72.0	192	323	673	2670	
Forest/Field/Other	8	692	692	1660	3190	5400		24	649	649	2980	4420	13000	
South Sound (West)														
Commercial/Industrial	6	12.0	16.6	18.5	24.8	36.8		24	68.1	115	158	228	353	
Residential	8	68.3	93.1	105	143	161		24	128	216	271	464	2210	
Agriculture	8	6.99	10.5	27.2	65.6	78.0		24	19.4	51.8	86.9	181	720	
Forest/Field/Other	8	428	428	1030	1970	3340		24	401	401	1840	2730	8030	
Hood Canal (South)														
Commercial/Industrial	6	0.730	1.00	1.12	1.50	2.23		24	4.13	7.00	9.61	13.8	21.4	
Residential	8	24.7	33.7	38.2	51.7	58.4		24	46.3	78.2	98.0	168	802	
Agriculture	8	1.08	1.62	4.21	10.2	12.1		24	3.00	8.02	13.5	28.1	111	
Forest/Field/Other	8	782	782	1880	3600	6100		24	733	733	3360	4990	14700	
Hood Canal (North)														
Commercial/Industrial	6	0.541	0.744	0.830	1.11	1.66		24	3.06	5.19	7.13	10.2	15.9	
Residential	8	12.8	17.5	19.8	26.8	30.3		24	24.0	40.6	50.9	87.2	416	
Agriculture	8	0.169	0.253	0.657	1.59	1.89		24	0.469	1.25	2.10	4.38	17.4	
Forest/Field/Other	8	99.6	99.6	239	458	777		24	93.4	93.4	429	636	1870	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	8.94	12.3	13.7	18.4	27.4		24	50.6	85.7	118	169	262	
Residential	8	38.2	52.0	58.9	79.8	90.1		24	71.4	121	151	259	1240	
Agriculture	8	0.507	0.760	1.98	4.76	5.87		24	1.41	3.76	6.31	13.2	52.3	
Forest/Field/Other	8	75.2	75.2	181	346	587		24	70.5	70.5	323	480	1410	
Admiralty Inlet														
Commercial/Industrial	6	1.33	1.83	2.04	2.73	4.06		24	7.51	12.7	17.5	25.1	38.9	
Residential	8	13.1	17.8	20.2	27.3	30.8		24	24.4	41.3	51.7	88.7	423	
Agriculture	8	4.02	6.02	15.7	37.8	44.9		24	11.2	29.8	50.0	104	414	
Forest/Field/Other	8	75.4	75.4	181	347	589		24	70.7	70.7	324	481	1410	
Strait of Juan de Fuca														
Commercial/Industrial	6	8.42	11.6	12.9	17.3	25.7		24	47.6	80.7	111	159	247	
Residential	8	35.8	48.8	55.3	74.9	84.6		24	67.0	113	142	243	1160	
Agriculture	8	17.1	25.7	66.7	161	191		24	47.6	127	213	445	1770	
Forest/Field/Other	8	982	982	2360	4520	7660		24	921	921	4230	6270	18400	
Strait of Georgia														
Commercial/Industrial	6	19.1	26.2	29.3	39.3	58.4		24	108	183	251	361	560	
Residential	8	77.2	105	119	161	182		24	144	244	306	524	2500	
Agriculture	8	108	161	420	1010	1200		24	299	799	1340	2800	11100	
Forest/Field/Other	8	935	935	2250	4300	7300		24	877	877	4020	5970	17500	
Whidbey Island														
Commercial/Industrial	6	11.8	16.2	18.1	24.3	36.1		24	66.7	113	155	223	346	
Residential	8	109	148	168	228	257		24	204	344	431	740	3530	
Agriculture	8	64.7	96.8	252	607	722		24	180	479	804	1680	6660	
Forest/Field/Other	8	2960	2960	7130	13600	23100		24	2780	2780	12800	18900	55600	
San Juan Islands														
Commercial/Industrial	6	7.16	9.85	11.0	14.7	21.9		24	40.5	68.7	94.3	136	210	
Residential	8	26.0	35.4	40.1	54.3	61.3		24	48.6	82.1	103	176	842	
Agriculture	8	14.0	20.9	54.4	131	156		24	38.8	104	174	363	1440	
Forest/Field/Other	8	167	167	401	767	1300		24	156	156	717	1060	3130	
Puget Sound														
Commercial/Industrial	6	322	443	494	663	986		24	1820	3090	4240	6100	9450	
Residential	8	1090	1490	1680	2280	2580		24	2040	3450	4320	7410	35400	
Agriculture	8	301	450	1170	2820	3360		24	835	2230	3740	7800	31000	
Forest/Field/Other	8	9990	9990	24000	45900	78000		24	9370	9370	43000	63700	187000	

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-12. Absolute loading rates for total zinc by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	104	140	186	217	300		24	609	1340	1470	1990	2660	
Residential	8	542	542	542	936	1600	E	24	698	698	2040	2480	4000	
Agriculture	8	10.7	10.7	37.5	58.3	299		24	19.8	53.8	71.1	131	499	
Forest/Field/Other	8	1810	1810	1810	1810	5560	E	24	1690	1690	1690	1690	14800	
Port Gardner														
Commercial/Industrial	6	28.2	37.9	50.3	58.8	81.3		24	165	363	399	541	722	
Residential	8	273	273	273	471	806	E	24	351	351	1030	1250	2010	
Agriculture	8	70.3	70.3	247	384	1970		24	130	354	469	860	3290	
Forest/Field/Other	8	7000	7000	7000	7000	21500	E	24	6540	6540	6540	6540	57100	
Elliott Bay														
Commercial/Industrial	6	81.9	110	146	171	236		24	479	1050	1160	1570	2100	
Residential	8	191	191	191	330	565	E	24	246	246	721	877	1410	
Agriculture	8	27.4	27.4	96.2	150	768		24	50.7	138	182	335	1280	
Forest/Field/Other	8	1490	1490	1490	1490	4570	E	24	1390	1390	1390	1390	12100	
Commencement Bay														
Commercial/Industrial	6	46.5	62.5	83.0	97.0	134		24	272	599	657	892	1190	
Residential	8	242	242	242	418	715	E	24	312	312	912	1110	1780	
Agriculture	8	37.2	37.2	131	203	1040		24	69.0	188	248	455	1740	
Forest/Field/Other	8	3690	3690	3690	3690	11300	E	24	3450	3450	3450	3450	30100	
South Sound (East)														
Commercial/Industrial	6	39.8	53.4	70.9	82.9	115		24	233	512	562	762	1020	
Residential	8	312	312	312	539	923	E	24	402	402	1180	1430	2300	
Agriculture	8	64.8	64.8	228	354	1820		24	120	327	432	793	3030	
Forest/Field/Other	8	3470	3470	3470	3470	10700	E	24	3250	3250	3250	3250	28400	
South Sound (West)														
Commercial/Industrial	6	14.3	19.3	25.6	29.9	41.3		24	83.9	185	203	275	367	
Residential	8	155	155	155	268	459	E	24	200	200	585	712	1140	
Agriculture	8	17.5	17.5	61.4	95.4	490		24	32.4	88.0	116	214	816	
Forest/Field/Other	8	2150	2150	2150	2150	6600	E	24	2010	2010	2010	2010	17500	
Hood Canal (South)														
Commercial/Industrial	6	0.870	1.17	1.55	1.81	2.51		24	5.09	11.2	12.3	16.7	22.3	
Residential	8	56.2	56.2	56.2	97.1	166	E	24	72.4	72.4	212	258	414	
Agriculture	8	2.70	2.70	9.50	14.8	75.8		24	5.01	13.6	18.0	33.1	126	
Forest/Field/Other	8	3920	3920	3920	3920	12100	E	24	3670	3670	3670	3670	32000	
Hood Canal (North)														
Commercial/Industrial	6	0.645	0.866	1.15	1.34	1.86		24	3.77	8.30	9.11	12.4	16.5	
Residential	8	29.2	29.2	29.2	50.4	86.3	E	24	37.6	37.6	110	134	215	
Agriculture	8	0.422	0.422	1.48	2.31	11.8		24	0.782	2.13	2.81	5.16	19.7	
Forest/Field/Other	8	500	500	500	500	1540	E	24	467	467	467	467	4080	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	10.7	14.3	19.0	22.2	30.7		24	62.3	137	151	204	273	
Residential	8	86.7	86.7	86.7	150	256	E	24	112	112	327	397	639	
Agriculture	8	1.27	1.27	4.46	6.93	35.5		24	2.35	6.39	8.45	15.5	59.2	
Forest/Field/Other	8	377	377	377	377	1160	E	24	352	352	352	352	3080	
Admiralty Inlet														
Commercial/Industrial	6	1.58	2.12	2.82	3.30	4.56		24	9.25	20.4	22.4	30.3	40.5	
Residential	8	29.7	29.7	29.7	51.2	87.7	E	24	38.2	38.2	112	136	219	
Agriculture	8	10.0	10.0	35.3	54.9	282		24	18.6	50.6	66.9	123	469	
Forest/Field/Other	8	378	378	378	378	1160	E	24	354	354	354	354	3090	
Strait of Juan de Fuca														
Commercial/Industrial	6	10.0	13.5	17.9	20.9	28.9		24	58.6	129	142	192	257	
Residential	8	81.3	81.3	81.3	141	241	E	24	105	105	307	373	600	
Agriculture	8	42.8	42.8	151	234	1200		24	79.3	216	285	524	2000	
Forest/Field/Other	8	4930	4930	4930	4930	15200	E	24	4600	4600	4600	4600	40200	
Strait of Georgia														
Commercial/Industrial	6	22.7	30.5	40.6	47.4	65.5		24	133	293	321	436	582	
Residential	8	175	175	175	303	518	E	24	226	226	661	804	1290	
Agriculture	8	269	269	947	1470	7550		24	499	1360	1800	3290	12600	
Forest/Field/Other	8	4690	4690	4690	4690	14400	E	24	4380	4380	4380	4380	38300	
Whidbey Island														
Commercial/Industrial	6	14.1	18.9	25.1	29.3	40.5		24	82.2	181	199	269	360	
Residential	8	247	247	247	427	731	E	24	319	319	933	1130	1820	
Agriculture	8	161	161	568	883	4530		24	299	814	1080	1980	7550	
Forest/Field/Other	8	14900	14900	14900	14900	45800	E	24	13900	13900	13900	13900	121000	
San Juan Islands														
Commercial/Industrial	6	8.54	11.5	15.2	17.8	24.6		24	49.9	110	121	164	219	
Residential	8	59.0	59.0	59.0	102	174	E	24	76.0	76.0	222	270	435	
Agriculture	8	34.9	34.9	123	191	980		24	64.7	176	233	427	1630	
Forest/Field/Other	8	836	836	836	836	2570	E	24	782	782	782	782	6830	
Puget Sound														
Commercial/Industrial	6	384	516	685	800	1110		24	2250	4940	5420	7360	9830	
Residential	8	2480	2480	2480	4280	7330	E	24	3200	3200	9350	11400	18300	
Agriculture	8	751	751	2640	4100	21100		24	1390	3780	5000	9190	35100	
Forest/Field/Other	8	50100	50100	50100	50100	154000	E	24	46800	46800	46800	46800	409000	E

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-13. Absolute loading rates for total PCBs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (g/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	1.25	2.69	3.99	15.8	16.2		12	5.18	31.3	80.1	352	1080	
Residential	8	2.06	3.79	38.8	78.6	88.8	E	12	3.63	19.9	36.3	139	526	
Agriculture	8	0.0427	0.299	1.02	1.73	3.69		4	0.562	0.835	2.19	4.23	5.20	
Forest/Field/Other	8	7.93	45.4	87.3	250	267		12	6.76	33.5	71.0	221	446	
Port Gardner														
Commercial/Industrial	6	0.339	0.728	1.08	4.28	4.38		12	1.40	8.48	21.7	95.3	292	
Residential	8	1.04	1.91	19.5	39.5	44.7	E	12	1.82	10.0	18.2	69.7	264	
Agriculture	8	0.282	1.97	6.73	11.4	24.3		4	3.70	5.50	14.4	27.9	34.3	
Forest/Field/Other	8	30.7	176	338	969	1040		12	26.2	130	275	857	1730	
Elliott Bay														
Commercial/Industrial	6	0.986	2.11	3.14	12.4	12.7		12	4.07	24.6	63.0	277	848	
Residential	8	0.727	1.34	13.7	27.7	31.3	E	12	1.28	7.02	12.8	48.9	185	
Agriculture	8	0.110	0.768	2.62	4.43	9.46		4	1.44	2.14	5.62	10.8	13.3	
Forest/Field/Other	8	6.52	37.4	71.7	206	220		12	5.56	27.5	58.4	182	367	
Commencement Bay														
Commercial/Industrial	6	0.560	1.20	1.78	7.06	7.22		12	2.31	14.0	35.8	157	482	
Residential	8	0.920	1.69	17.3	35.1	39.7	E	12	1.62	8.88	16.2	61.9	235	
Agriculture	8	0.149	1.04	3.56	6.02	12.9		4	1.96	2.91	7.64	14.7	18.2	
Forest/Field/Other	8	16.2	92.7	178	510	545		12	13.8	68.3	145	452	910	
South Sound (East)														
Commercial/Industrial	6	0.478	1.03	1.52	6.04	6.18		12	1.98	12.0	30.6	134	412	
Residential	8	1.19	2.18	22.3	45.2	51.2	E	12	2.09	11.5	20.9	79.8	303	
Agriculture	8	0.259	1.82	6.20	10.5	22.4		4	3.41	5.07	13.3	25.7	31.6	
Forest/Field/Other	8	15.2	87.3	168	481	514		12	13.0	64.3	136	425	857	
South Sound (West)														
Commercial/Industrial	6	0.173	0.370	0.550	2.18	2.23		12	0.713	4.31	11.0	48.4	148	
Residential	8	0.590	1.09	11.1	22.5	25.4	E	12	1.04	5.70	10.4	39.7	151	
Agriculture	8	0.0699	0.490	1.67	2.82	6.03		4	0.919	1.37	3.58	6.92	8.51	
Forest/Field/Other	8	9.42	54.0	104	297	318		12	8.03	39.8	84.3	263	530	
Hood Canal (South)														
Commercial/Industrial	6	0.0105	0.0225	0.0333	0.132	0.135		12	0.0433	0.262	0.669	2.94	9.01	
Residential	8	0.214	0.393	4.02	8.15	9.21	E	12	0.376	2.06	3.76	14.4	54.5	
Agriculture	8	0.0108	0.0758	0.259	0.437	0.933		4	0.142	0.211	0.555	1.07	1.32	
Forest/Field/Other	8	17.2	98.6	189	543	580		12	14.7	72.6	154	480	968	
Hood Canal (North)														
Commercial/Industrial	6	0.00776	0.0166	0.0247	0.0979	0.100		12	0.0321	0.194	0.496	2.18	6.68	
Residential	8	0.111	0.204	2.09	4.23	4.78	E	12	0.195	1.07	1.95	7.46	28.3	
Agriculture	8	0.00169	0.0118	0.0404	0.0682	0.146		4	0.0222	0.0330	0.0866	0.167	0.206	
Forest/Field/Other	8	2.19	12.6	24.1	69.2	73.9		12	1.87	9.25	19.6	61.2	123	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.128	0.275	0.408	1.62	1.65		12	0.530	3.21	8.20	36.0	110	
Residential	8	0.330	0.606	6.21	12.6	14.2	E	12	0.580	3.18	5.80	22.2	84.1	
Agriculture	8	0.00507	0.0355	0.121	0.205	0.438		4	0.0667	0.0991	0.260	0.502	0.618	
Forest/Field/Other	8	1.65	9.48	18.2	52.2	55.8		12	1.41	6.98	14.8	46.2	93.0	
Admiralty Inlet														
Commercial/Industrial	6	0.0190	0.0408	0.0606	0.240	0.246		12	0.0787	0.476	1.22	5.34	16.4	
Residential	8	0.113	0.207	2.12	4.30	4.86	E	12	0.199	1.09	1.99	7.59	28.8	
Agriculture	8	0.0402	0.282	0.961	1.62	3.47		4	0.529	0.786	2.06	3.98	4.90	
Forest/Field/Other	8	1.66	9.51	18.3	52.4	55.9		12	1.41	7.00	14.9	46.3	93.3	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.121	0.259	0.384	1.52	1.56		12	0.499	3.02	7.72	33.9	104	
Residential	8	0.309	0.569	5.82	11.8	13.3	E	12	0.545	2.99	5.45	20.8	78.9	
Agriculture	8	0.171	1.20	4.10	6.93	14.8		4	2.25	3.35	8.79	17.0	20.9	
Forest/Field/Other	8	21.6	124	238	682	729		12	18.4	91.2	194	603	1220	
Strait of Georgia														
Commercial/Industrial	6	0.274	0.587	0.872	3.45	3.53		12	1.13	6.84	17.5	76.8	235	
Residential	8	0.667	1.23	12.6	25.4	28.8	E	12	1.17	6.44	11.7	44.9	170	
Agriculture	8	1.08	7.55	25.8	43.6	93.0		4	14.2	21.1	55.3	107	131	
Forest/Field/Other	8	20.6	118	226	649	694		12	17.5	86.9	184	574	1160	
Whidbey Island														
Commercial/Industrial	6	0.169	0.363	0.539	2.13	2.18		12	0.699	4.23	10.8	47.5	145	
Residential	8	0.941	1.73	17.7	35.9	40.6	E	12	1.66	9.08	16.6	63.3	240	
Agriculture	8	0.647	4.53	15.5	26.1	55.8		4	8.50	12.6	33.2	64.0	78.8	
Forest/Field/Other	8	65.3	374	718	2060	2200		12	55.6	275	584	1820	3670	
San Juan Islands														
Commercial/Industrial	6	0.103	0.220	0.327	1.30	1.33		12	0.424	2.57	6.57	28.8	88.4	
Residential	8	0.224	0.412	4.22	8.55	9.67	E	12	0.395	2.17	3.95	15.1	57.2	
Agriculture	8	0.140	0.980	3.34	5.65	12.1		4	1.84	2.73	7.17	13.8	17.0	
Forest/Field/Other	8	3.67	21.0	40.4	116	124		12	3.13	15.5	32.9	102	206	
Puget Sound														
Commercial/Industrial	6	4.62	9.91	14.7	58.3	59.6		12	19.1	115	295	1300	3970	
Residential	8	9.43	17.3	178	360	407	E	12	16.6	91.0	166	634	2410	
Agriculture	8	3.01	21.1	71.9	121	259		4	39.5	58.7	154	298	366	
Forest/Field/Other	8	220	1260	2420	6940	7410		12	187	928	1970	6140	12400	

g/year: grams per year

PCBs: polychlorinated biphenyls

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-14. Absolute loading rates for total PBDEs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (g/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.230	3.52	5.09	5.92	108		16	0.197	53.5	130	779	10700	
Residential	8	2.82	15.3	27.1	47.5	136	E	16	2.93	5.87	30.3	35.3	123	
Agriculture	9	0.0436	0.146	0.533	0.555	1.19	E	16	0.142	0.256	0.989	1.54	464	
Forest/Field/Other	8	39.3	90.1	90.1	92.0	1430	E	16	7.77	84.5	84.5	136	3220	E
Port Gardner														
Commercial/Industrial	6	0.0623	0.953	1.38	1.60	29.4		16	0.0535	14.5	35.1	211	2900	
Residential	8	1.42	7.70	13.6	23.9	68.4	E	16	1.48	2.95	15.3	17.7	62.0	
Agriculture	9	0.287	0.962	3.52	3.66	7.87	E	16	0.939	1.69	6.52	10.1	3060	
Forest/Field/Other	8	152	349	349	356	5550	E	16	30.1	327	327	526	12500	E
Elliott Bay														
Commercial/Industrial	6	0.181	2.77	4.01	4.66	85.4		16	0.155	42.1	102	613	8420	
Residential	8	0.994	5.40	9.56	16.8	48.0	E	16	1.04	2.07	10.7	12.5	43.5	
Agriculture	9	0.112	0.374	1.37	1.42	3.06	E	16	0.365	0.656	2.54	3.94	1190	
Forest/Field/Other	8	32.3	74.1	74.1	75.6	1180	E	16	6.39	69.4	69.4	112	2650	E
Commencement Bay														
Commercial/Industrial	6	0.103	1.57	2.27	2.65	48.5		16	0.0882	23.9	57.9	348	4780	
Residential	8	1.26	6.83	12.1	21.2	60.7	E	16	1.31	2.62	13.5	15.8	55.1	
Agriculture	9	0.152	0.509	1.86	1.94	4.17	E	16	0.497	0.892	3.45	5.36	1620	
Forest/Field/Other	8	80.3	184	184	188	2920	E	16	15.9	172	172	277	6570	E
South Sound (East)														
Commercial/Industrial	6	0.0879	1.34	1.94	2.26	41.5		16	0.0754	20.4	49.5	298	4090	
Residential	8	1.62	8.81	15.6	27.4	78.3	E	16	1.69	3.38	17.5	20.3	71.0	
Agriculture	9	0.265	0.886	3.24	3.37	7.26	E	16	0.865	1.55	6.00	9.34	2820	
Forest/Field/Other	8	75.6	173	173	177	2750	E	16	14.9	162	162	261	6190	E
South Sound (West)														
Commercial/Industrial	6	0.0317	0.484	0.701	0.815	14.9		16	0.0272	7.37	17.9	107	1470	
Residential	8	0.807	4.38	7.76	13.6	38.9	E	16	0.841	1.68	8.69	10.1	35.3	
Agriculture	9	0.0713	0.239	0.873	0.908	1.95	E	16	0.233	0.419	1.62	2.52	759	
Forest/Field/Other	8	46.7	107	107	109	1700	E	16	9.23	100	100	161	3820	E
Hood Canal (South)														
Commercial/Industrial	6	0.00192	0.0294	0.0425	0.0495	0.907		16	0.00165	0.447	1.08	6.51	89.5	
Residential	8	0.292	1.59	2.81	4.93	14.1	E	16	0.304	0.609	3.15	3.66	12.8	
Agriculture	9	0.0110	0.0370	0.135	0.141	0.303	E	16	0.0361	0.0648	0.250	0.389	118	
Forest/Field/Other	8	85.4	196	196	200	3110	E	16	16.9	183	183	295	6980	E
Hood Canal (North)														
Commercial/Industrial	6	0.00143	0.0218	0.0315	0.0367	0.672		16	0.00122	0.332	0.803	4.83	66.3	
Residential	8	0.152	0.824	1.46	2.56	7.32	E	16	0.158	0.316	1.63	1.90	6.64	
Agriculture	9	0.00172	0.00577	0.0211	0.0219	0.0472	E	16	0.00563	0.0101	0.0391	0.0608	18.3	
Forest/Field/Other	8	10.9	24.9	24.9	25.4	396	E	16	2.15	23.4	23.4	37.5	890	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0236	0.360	0.521	0.606	11.1		16	0.0202	5.48	13.3	79.8	1100	
Residential	8	0.451	2.45	4.33	7.60	21.7	E	16	0.469	0.939	4.85	5.65	19.7	
Agriculture	9	0.00518	0.0173	0.0633	0.0659	0.142	E	16	0.0169	0.0304	0.117	0.183	55.1	
Forest/Field/Other	8	8.21	18.8	18.8	19.2	299	E	16	1.62	17.6	17.6	28.3	671	E
Admiralty Inlet														
Commercial/Industrial	6	0.00350	0.0534	0.0773	0.0900	1.65		16	0.00300	0.813	1.97	11.8	163	
Residential	8	0.154	0.838	1.48	2.60	7.44	E	16	0.161	0.321	1.66	1.93	6.75	
Agriculture	9	0.0410	0.137	0.502	0.523	1.12	E	16	0.134	0.241	0.931	1.45	437	
Forest/Field/Other	8	8.23	18.9	18.9	19.2	300	E	16	1.63	17.7	17.7	28.4	674	E
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0222	0.339	0.490	0.570	10.5		16	0.0190	5.16	12.5	75.1	1030	
Residential	8	0.423	2.30	4.07	7.13	20.4	E	16	0.440	0.881	4.55	5.30	18.5	
Agriculture	9	0.175	0.585	2.14	2.23	4.79	E	16	0.572	1.03	3.97	6.17	1860	
Forest/Field/Other	8	107	246	246	251	3910	E	16	21.2	230	230	370	8770	E
Strait of Georgia														
Commercial/Industrial	6	0.0503	0.768	1.11	1.29	23.7		16	0.0431	11.7	28.3	170	2340	
Residential	8	0.912	4.95	8.77	15.4	44.0	E	16	0.950	1.90	9.82	11.4	39.9	
Agriculture	9	1.10	3.68	13.5	14.0	30.2	E	16	3.60	6.46	25.0	38.8	11700	
Forest/Field/Other	8	102	234	234	239	3720	E	16	20.2	219	219	352	8350	E
Whidbey Island														
Commercial/Industrial	6	0.0311	0.475	0.687	0.799	14.6		16	0.0266	7.22	17.5	105	1440	
Residential	8	1.29	6.98	12.4	21.7	62.0	E	16	1.34	2.68	13.8	16.1	56.3	
Agriculture	9	0.660	2.21	8.07	8.40	18.1	E	16	2.16	3.87	15.0	23.3	7020	
Forest/Field/Other	8	324	742	742	757	11800	E	16	64.0	695	695	1120	26500	E
San Juan Islands														
Commercial/Industrial	6	0.0189	0.288	0.417	0.485	8.90		16	0.0162	4.39	10.6	63.9	878	
Residential	8	0.307	1.67	2.95	5.17	14.8	E	16	0.319	0.639	3.30	3.84	13.4	
Agriculture	9	0.143	0.478	1.75	1.82	3.91	E	16	0.466	0.838	3.24	5.03	1520	
Forest/Field/Other	8	18.2	41.7	41.7	42.5	663	E	16	3.60	39.1	39.1	62.8	1490	E
Puget Sound														
Commercial/Industrial	6	0.849	13.0	18.8	21.8	400		16	0.728	197	478	2870	39500	
Residential	8	12.9	70.0	124	217	622	E	16	13.4	26.9	139	161	564	
Agriculture	9	3.07	10.3	37.5	39.1	84.1	E	16	10.0	18.0	69.6	108	32700	
Forest/Field/Other	8	1090	2500	2500	2550	39700	E	16	215	2340	2340	3760	89200	E

g/year: grams per year

PBDE: polybrominated diphenyl ethers

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-15. Absolute loading rates for total PAHs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.0572	0.111	0.116	0.186	0.272	E	24	0.494	4.43	6.94	9.39	22.6	
Residential	8					< 4.34	U	24	1.29	1.46	2.74	2.91	23.2	E
Agriculture	8					< 0.0852	U	24	0.0384	0.0390	0.0692	0.0791	0.208	E
Forest/Field/Other	8					< 14.4	U	24	3.28	3.36	6.49	6.76	11.4	E
Port Gardner														
Commercial/Industrial	6	0.0155	0.0300	0.0316	0.0503	0.0738	E	24	0.134	1.20	1.88	2.55	6.14	
Residential	8					< 2.18	U	24	0.647	0.734	1.38	1.46	11.7	E
Agriculture	8					< 0.562	U	24	0.253	0.257	0.456	0.522	1.37	E
Forest/Field/Other	8					< 55.9	U	24	12.7	13.0	25.1	26.2	44.3	E
Elliott Bay														
Commercial/Industrial	6	0.0450	0.0871	0.0917	0.146	0.214	E	24	0.389	3.48	5.46	7.39	17.8	
Residential	8					< 1.53	U	24	0.454	0.515	0.966	1.03	8.19	E
Agriculture	8					< 0.219	U	24	0.0984	0.100	0.177	0.203	0.534	E
Forest/Field/Other	8					< 11.9	U	24	2.70	2.76	5.34	5.56	9.41	E
Commencement Bay														
Commercial/Industrial	6	0.0256	0.0495	0.0521	0.0830	0.122	E	24	0.221	1.98	3.10	4.20	10.1	
Residential	8					< 1.94	U	24	0.575	0.651	1.22	1.30	10.4	E
Agriculture	8					< 0.297	U	24	0.134	0.136	0.241	0.276	0.726	E
Forest/Field/Other	8					< 29.4	U	24	6.70	6.85	13.2	13.8	23.3	E
South Sound (East)														
Commercial/Industrial	6	0.0219	0.0423	0.0445	0.0709	0.104	E	24	0.189	1.69	2.65	3.59	8.65	
Residential	8					< 2.50	U	24	0.741	0.840	1.58	1.67	13.4	E
Agriculture	8					< 0.517	U	24	0.233	0.237	0.420	0.481	1.26	E
Forest/Field/Other	8					< 27.7	U	24	6.31	6.45	12.5	13.0	22.0	E
South Sound (West)														
Commercial/Industrial	6	0.00788	0.0152	0.0160	0.0256	0.0375	E	24	0.0681	0.610	0.956	1.29	3.12	
Residential	8					< 1.24	U	24	0.369	0.418	0.784	0.833	6.65	E
Agriculture	8					< 0.139	U	24	0.0628	0.0639	0.113	0.129	0.341	E
Forest/Field/Other	8					< 17.1	U	24	3.90	3.99	7.71	8.03	13.6	E
Hood Canal (South)														
Commercial/Industrial	6	0.000478	0.000925	0.000974	0.00155	0.00228	E	24	0.00413	0.0370	0.0580	0.0785	0.189	
Residential	8					< 0.450	U	24	0.133	0.151	0.284	0.301	2.41	E
Agriculture	8					< 0.0216	U	24	0.00972	0.00988	0.0175	0.0200	0.0527	E
Forest/Field/Other	8					< 31.3	U	24	7.12	7.29	14.1	14.7	24.8	E
Hood Canal (North)														
Commercial/Industrial	6	0.000355	0.000686	0.000722	0.00115	0.00169	E	24	0.00306	0.0274	0.0430	0.0582	0.140	
Residential	8					< 0.234	U	24	0.0693	0.0785	0.147	0.157	1.25	E
Agriculture	8					< 0.00337	U	24	0.00152	0.00154	0.00273	0.00313	0.00823	E
Forest/Field/Other	8					< 3.99	U	24	0.908	0.928	1.79	1.87	3.16	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.00586	0.0113	0.0119	0.0190	0.0279	E	24	0.0506	0.453	0.710	0.962	2.32	
Residential	8					< 0.694	U	24	0.206	0.233	0.438	0.465	3.72	E
Agriculture	8					< 0.0101	U	24	0.00456	0.00464	0.00821	0.00940	0.0247	E
Forest/Field/Other	8					< 3.01	U	24	0.685	0.700	1.35	1.41	2.39	E
Admiralty Inlet														
Commercial/Industrial	6	0.000870	0.00168	0.00177	0.00282	0.00414	E	24	0.00751	0.0673	0.105	0.143	0.344	
Residential	8					< 0.237	U	24	0.0705	0.0798	0.150	0.159	1.27	E
Agriculture	8					< 0.0802	U	24	0.0361	0.0367	0.0651	0.0745	0.196	E
Forest/Field/Other	8					< 3.02	U	24	0.687	0.703	1.36	1.41	2.39	E
Strait of Juan de Fuca														
Commercial/Industrial	6	0.00551	0.0107	0.0112	0.0179	0.0262	E	24	0.0476	0.426	0.668	0.905	2.18	
Residential	8					< 0.651	U	24	0.193	0.219	0.411	0.436	3.49	E
Agriculture	8					< 0.342	U	24	0.154	0.157	0.278	0.318	0.835	E
Forest/Field/Other	8					< 39.3	U	24	8.95	9.15	17.7	18.4	31.2	E
Strait of Georgia														
Commercial/Industrial	6	0.0125	0.0242	0.0255	0.0406	0.0595	E	24	0.108	0.967	1.52	2.05	4.95	
Residential	8					< 1.40	U	24	0.417	0.472	0.886	0.941	7.52	E
Agriculture	8					< 2.15	U	24	0.969	0.985	1.75	2.00	5.25	E
Forest/Field/Other	8					< 37.5	U	24	8.52	8.71	16.8	17.5	29.7	E
Whidbey Island														
Commercial/Industrial	6	0.00773	0.0149	0.0157	0.0251	0.0368	E	24	0.0667	0.598	0.937	1.27	3.06	
Residential	8					< 1.98	U	24	0.588	0.666	1.25	1.33	10.6	E
Agriculture	8					< 1.29	U	24	0.581	0.591	1.05	1.20	3.15	E
Forest/Field/Other	8					< 119	U	24	27.0	27.6	53.4	55.6	94.1	E
San Juan Islands														
Commercial/Industrial	6	0.00469	0.00907	0.00955	0.0152	0.0223	E	24	0.0405	0.363	0.569	0.770	1.86	
Residential	8					< 0.472	U	24	0.140	0.159	0.298	0.316	2.53	E
Agriculture	8					< 0.279	U	24	0.126	0.128	0.226	0.259	0.681	E
Forest/Field/Other	8					< 6.68	U	24	1.52	1.55	3.00	3.13	5.29	E
Puget Sound														
Commercial/Industrial	6	0.211	0.408	0.430	0.685	1.00	E	24	1.82	16.3	25.6	34.6	83.5	
Residential	8					< 19.9	U	24	5.89	6.67	12.5	13.3	106	E
Agriculture	8					< 6.00	U	24	2.70	2.75	4.87	5.57	14.6	E
Forest/Field/Other	8					< 400	U	24	91.0	93.1	180	187	317	E

kg/year: kilograms per year

PAHs: polycyclic aromatic hydrocarbons

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-16. Absolute loading rates for carcinogenic PAHs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6					< 0.114	U	24	0.237	2.37	3.34	4.37	10.4	
Residential	8					< 2.39	U	24	1.35	1.38	2.10	2.79	8.35	E
Agriculture	8					< 0.0427	U	24	0.0384	0.0388	0.0392	0.0752	0.0791	E
Forest/Field/Other	8					< 7.14	U	24					< 13.5	U
Port Gardner														
Commercial/Industrial	6					< 0.0310	U	24	0.0643	0.643	0.906	1.18	2.82	
Residential	8					< 1.20	U	24	0.679	0.693	1.05	1.40	4.20	E
Agriculture	8					< 0.282	U	24	0.253	0.256	0.259	0.496	0.522	E
Forest/Field/Other	8					< 27.7	U	24					< 52.2	U
Elliott Bay														
Commercial/Industrial	6					< 0.0900	U	24	0.187	1.87	2.63	3.44	8.19	
Residential	8					< 0.842	U	24	0.476	0.486	0.740	0.985	2.95	E
Agriculture	8					< 0.110	U	24	0.0984	0.0996	0.101	0.193	0.203	E
Forest/Field/Other	8					< 5.87	U	24					< 11.1	U
Commencement Bay														
Commercial/Industrial	6					< 0.0511	U	24	0.106	1.06	1.49	1.95	4.65	
Residential	8					< 1.07	U	24	0.603	0.615	0.937	1.25	3.73	E
Agriculture	8					< 0.149	U	24	0.134	0.135	0.137	0.262	0.276	E
Forest/Field/Other	8					< 14.6	U	24					< 27.5	U
South Sound (East)														
Commercial/Industrial	6					< 0.0437	U	24	0.0907	0.907	1.28	1.67	3.98	
Residential	8					< 1.37	U	24	0.777	0.793	1.21	1.61	4.81	E
Agriculture	8					< 0.259	U	24	0.233	0.236	0.238	0.457	0.481	E
Forest/Field/Other	8					< 13.7	U	24					< 25.9	U
South Sound (West)														
Commercial/Industrial	6					< 0.0157	U	24	0.0327	0.327	0.460	0.602	1.43	
Residential	8					< 0.683	U	24	0.387	0.394	0.601	0.799	2.39	E
Agriculture	8					< 0.0699	U	24	0.0628	0.0635	0.0642	0.123	0.129	E
Forest/Field/Other	8					< 8.48	U	24					< 16.0	U
Hood Canal (South)														
Commercial/Industrial	6					< 0.000955	U	24	0.00198	0.0198	0.0279	0.0365	0.0870	
Residential	8					< 0.247	U	24	0.140	0.143	0.217	0.289	0.866	E
Agriculture	8					< 0.0108	U	24	0.00972	0.00983	0.00994	0.0191	0.0200	E
Forest/Field/Other	8					< 15.5	U	24					< 29.2	U
Hood Canal (North)														
Commercial/Industrial	6					< 0.000708	U	24	0.00147	0.0147	0.0207	0.0271	0.0645	
Residential	8					< 0.128	U	24	0.0727	0.0741	0.113	0.150	0.450	E
Agriculture	8					< 0.00169	U	24	0.00152	0.00153	0.00155	0.00297	0.00313	E
Forest/Field/Other	8					< 1.97	U	24					< 3.72	U
Sinclair/Dyes Inlet														
Commercial/Industrial	6					< 0.0117	U	24	0.0243	0.243	0.342	0.447	1.07	
Residential	8					< 0.382	U	24	0.216	0.220	0.336	0.446	1.34	E
Agriculture	8					< 0.00507	U	24	0.00456	0.00461	0.00466	0.00894	0.00940	E
Forest/Field/Other	8					< 1.49	U	24					< 2.81	U
Admiralty Inlet														
Commercial/Industrial	6					< 0.00174	U	24	0.00361	0.0361	0.0508	0.0664	0.158	
Residential	8					< 0.131	U	24	0.0739	0.0754	0.115	0.153	0.457	E
Agriculture	8					< 0.0402	U	24	0.0361	0.0365	0.0369	0.0708	0.0745	E
Forest/Field/Other	8					< 1.49	U	24					< 2.82	U
Strait of Juan de Fuca														
Commercial/Industrial	6					< 0.0110	U	24	0.0229	0.229	0.322	0.421	1.00	
Residential	8					< 0.358	U	24	0.203	0.207	0.315	0.419	1.25	E
Agriculture	8					< 0.171	U	24	0.154	0.156	0.157	0.302	0.318	E
Forest/Field/Other	8					< 19.5	U	24					< 36.7	U
Strait of Georgia														
Commercial/Industrial	6					< 0.0250	U	24	0.0519	0.519	0.730	0.954	2.27	
Residential	8					< 0.772	U	24	0.437	0.446	0.679	0.903	2.70	E
Agriculture	8					< 1.08	U	24	0.969	0.980	0.991	1.90	2.00	E
Forest/Field/Other	8					< 18.5	U	24					< 35.0	U
Whidbey Island														
Commercial/Industrial	6					< 0.0154	U	24	0.0320	0.320	0.451	0.590	1.41	
Residential	8					< 1.09	U	24	0.616	0.629	0.957	1.27	3.81	E
Agriculture	8					< 0.647	U	24	0.581	0.588	0.594	1.14	1.20	E
Forest/Field/Other	8					< 58.8	U	24					< 111	U
San Juan Islands														
Commercial/Industrial	6					< 0.00937	U	24	0.0195	0.195	0.274	0.358	0.854	
Residential	8					< 0.260	U	24	0.147	0.150	0.228	0.304	0.909	E
Agriculture	8					< 0.140	U	24	0.126	0.127	0.128	0.246	0.259	E
Forest/Field/Other	8					< 3.30	U	24					< 6.23	U
Puget Sound														
Commercial/Industrial	6					< 0.422	U	24	0.875	8.75	12.3	16.1	38.4	
Residential	8					< 10.9	U	24	6.18	6.30	9.60	12.8	38.2	E
Agriculture	8					< 3.01	U	24	2.70	2.73	2.76	5.29	5.57	E
Forest/Field/Other	8					< 198	U	24					< 373	U

kg/year: kilograms per year

PAHs: polycyclic aromatic hydrocarbons

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-17. Absolute loading rates for low molecular weight PAHs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.0566	0.0572	0.0572	0.116	0.148	E	24	0.182	0.328	0.534	0.968	3.92	
Residential	8					< 2.39	U	24	1.35	1.36	1.39	2.71	12.6	E
Agriculture	8					< 0.0427	U	24	0.0384	0.0388	0.0392	0.0594	0.191	E
Forest/Field/Other	8					< 7.14	U	24	3.28	3.31	3.36	5.98	11.4	E
Port Gardner														
Commercial/Industrial	6	0.0153	0.0155	0.0155	0.0314	0.0402	E	24	0.0493	0.0890	0.145	0.262	1.06	
Residential	8					< 1.20	U	24	0.679	0.684	0.697	1.36	6.34	E
Agriculture	8					< 0.282	U	24	0.253	0.256	0.259	0.392	1.26	E
Forest/Field/Other	8					< 27.7	U	24	12.7	12.8	13.0	23.1	44.3	E
Elliott Bay														
Commercial/Industrial	6	0.0446	0.0450	0.0450	0.0911	0.117	E	24	0.143	0.258	0.420	0.762	3.09	
Residential	8					< 0.842	U	24	0.476	0.480	0.489	0.956	4.45	E
Agriculture	8					< 0.110	U	24	0.0984	0.0996	0.101	0.152	0.489	E
Forest/Field/Other	8					< 5.87	U	24	2.70	2.73	2.76	4.91	9.41	E
Commencement Bay														
Commercial/Industrial	6	0.0253	0.0256	0.0256	0.0517	0.0664	E	24	0.0813	0.147	0.238	0.433	1.75	
Residential	8					< 1.07	U	24	0.603	0.607	0.619	1.21	5.63	E
Agriculture	8					< 0.149	U	24	0.134	0.135	0.137	0.207	0.666	E
Forest/Field/Other	8					< 14.6	U	24	6.70	6.76	6.85	12.2	23.3	E
South Sound (East)														
Commercial/Industrial	6	0.0216	0.0219	0.0219	0.0442	0.0568	E	24	0.0695	0.125	0.204	0.370	1.50	
Residential	8					< 1.37	U	24	0.777	0.783	0.798	1.56	7.26	E
Agriculture	8					< 0.259	U	24	0.233	0.236	0.238	0.361	1.16	E
Forest/Field/Other	8					< 13.7	U	24	6.31	6.37	6.45	11.5	22.0	E
South Sound (West)														
Commercial/Industrial	6	0.00780	0.00788	0.00788	0.0159	0.0205	E	24	0.0251	0.0452	0.0735	0.133	0.541	
Residential	8					< 0.683	U	24	0.387	0.389	0.397	0.776	3.61	E
Agriculture	8					< 0.0699	U	24	0.0628	0.0635	0.0642	0.0972	0.312	E
Forest/Field/Other	8					< 8.48	U	24	3.90	3.94	3.99	7.10	13.6	E
Hood Canal (South)														
Commercial/Industrial	6	0.000473	0.000478	0.000478	0.000968	0.00124	E	24	0.00152	0.00274	0.00446	0.00809	0.0328	
Residential	8					< 0.247	U	24	0.140	0.141	0.144	0.281	1.31	E
Agriculture	8					< 0.0108	U	24	0.00972	0.00983	0.00994	0.0150	0.0483	E
Forest/Field/Other	8					< 15.5	U	24	7.12	7.19	7.29	13.0	24.8	E
Hood Canal (North)														
Commercial/Industrial	6	0.000351	0.000355	0.000355	0.000717	0.000920	E	24	0.00113	0.00203	0.00331	0.00600	0.0243	
Residential	8					< 0.128	U	24	0.0727	0.0732	0.0746	0.146	0.678	E
Agriculture	8					< 0.00169	U	24	0.00152	0.00153	0.00155	0.00235	0.00754	E
Forest/Field/Other	8					< 1.97	U	24	0.908	0.916	0.928	1.65	3.16	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.00580	0.00586	0.00586	0.0119	0.0152	E	24	0.0186	0.0336	0.0546	0.0991	0.402	
Residential	8					< 0.382	U	24	0.216	0.217	0.222	0.433	2.02	E
Agriculture	8					< 0.00507	U	24	0.00456	0.00461	0.00466	0.00706	0.0227	E
Forest/Field/Other	8					< 1.49	U	24	0.685	0.691	0.700	1.25	2.39	E
Admiralty Inlet														
Commercial/Industrial	6	0.000861	0.000870	0.000870	0.00176	0.00226	E	24	0.00277	0.00499	0.00811	0.0147	0.0596	
Residential	8					< 0.131	U	24	0.0739	0.0744	0.0759	0.148	0.690	E
Agriculture	8					< 0.0402	U	24	0.0361	0.0365	0.0369	0.0559	0.180	E
Forest/Field/Other	8					< 1.49	U	24	0.687	0.694	0.703	1.25	2.39	E
Strait of Juan de Fuca														
Commercial/Industrial	6	0.00546	0.00551	0.00551	0.0112	0.0143	E	24	0.0175	0.0316	0.0514	0.0933	0.378	
Residential	8					< 0.358	U	24	0.203	0.204	0.208	0.407	1.89	E
Agriculture	8					< 0.171	U	24	0.154	0.156	0.157	0.238	0.766	E
Forest/Field/Other	8					< 19.5	U	24	8.95	9.03	9.15	16.3	31.2	E
Strait of Georgia														
Commercial/Industrial	6	0.0124	0.0125	0.0125	0.0253	0.0325	E	24	0.0398	0.0717	0.117	0.212	0.857	
Residential	8					< 0.772	U	24	0.437	0.440	0.449	0.877	4.08	E
Agriculture	8					< 1.08	U	24	0.969	0.980	0.991	1.50	4.82	E
Forest/Field/Other	8					< 18.5	U	24	8.52	8.60	8.71	15.5	29.7	E
Whidbey Island														
Commercial/Industrial	6	0.00765	0.00773	0.00773	0.0156	0.0201	E	24	0.0246	0.0443	0.0720	0.131	0.530	
Residential	8					< 1.09	U	24	0.616	0.620	0.633	1.24	5.75	E
Agriculture	8					< 0.647	U	24	0.581	0.588	0.594	0.899	2.89	E
Forest/Field/Other	8					< 58.8	U	24	27.0	27.3	27.6	49.2	94.1	E
San Juan Islands														
Commercial/Industrial	6	0.00464	0.00469	0.00469	0.00949	0.0122	E	24	0.0149	0.0269	0.0438	0.0794	0.322	
Residential	8					< 0.260	U	24	0.147	0.148	0.151	0.295	1.37	E
Agriculture	8					< 0.140	U	24	0.126	0.127	0.128	0.195	0.625	E
Forest/Field/Other	8					< 3.30	U	24	1.52	1.53	1.55	2.77	5.29	E
Puget Sound														
Commercial/Industrial	6	0.209	0.211	0.211	0.427	0.548	E	24	0.671	1.21	1.97	3.57	14.5	
Residential	8					< 10.9	U	24	6.18	6.22	6.34	12.4	57.7	E
Agriculture	8					< 3.01	U	24	2.70	2.73	2.76	4.18	13.4	E
Forest/Field/Other	8					< 198	U	24	91.0	91.9	93.1	166	317	E

kg/year: kilograms per year

PAHs: polycyclic aromatic hydrocarbons

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-18. Absolute loading rates for high molecular weight PAHs by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.0572	0.0700	0.114	0.116	0.124	E	24	0.494	4.24	5.99	8.59	18.7	
Residential	8					< 4.34	U	24	1.29	1.36	2.30	2.79	15.6	E
Agriculture	8					< 0.0852	U	24	0.0174	0.0388	0.0392	0.0752	0.0791	E
Forest/Field/Other	8					< 14.4	U	24					< 13.5	U
Port Gardner														
Commercial/Industrial	6	0.0155	0.0190	0.0308	0.0316	0.0335	E	24	0.134	1.15	1.62	2.33	5.07	
Residential	8					< 2.18	U	24	0.647	0.684	1.16	1.40	7.83	E
Agriculture	8					< 0.562	U	24	0.115	0.256	0.259	0.496	0.522	E
Forest/Field/Other	8					< 55.9	U	24					< 52.2	U
Elliott Bay														
Commercial/Industrial	6	0.0450	0.0551	0.0894	0.0917	0.0974	E	24	0.389	3.33	4.72	6.76	14.7	
Residential	8					< 1.53	U	24	0.454	0.480	0.813	0.985	5.49	E
Agriculture	8					< 0.219	U	24	0.0447	0.0996	0.101	0.193	0.203	E
Forest/Field/Other	8					< 11.9	U	24					< 11.1	U
Commencement Bay														
Commercial/Industrial	6	0.0256	0.0313	0.0508	0.0521	0.0553	E	24	0.221	1.89	2.68	3.84	8.36	
Residential	8					< 1.94	U	24	0.575	0.607	1.03	1.25	6.95	E
Agriculture	8					< 0.297	U	24	0.0607	0.135	0.137	0.262	0.276	E
Forest/Field/Other	8					< 29.4	U	24					< 27.5	U
South Sound (East)														
Commercial/Industrial	6	0.0219	0.0268	0.0434	0.0445	0.0473	E	24	0.189	1.62	2.29	3.28	7.15	
Residential	8					< 2.50	U	24	0.741	0.783	1.33	1.61	8.97	E
Agriculture	8					< 0.517	U	24	0.106	0.236	0.238	0.457	0.481	E
Forest/Field/Other	8					< 27.7	U	24					< 25.9	U
South Sound (West)														
Commercial/Industrial	6	0.00788	0.00965	0.0156	0.0160	0.0171	E	24	0.0681	0.584	0.826	1.18	2.58	
Residential	8					< 1.24	U	24	0.369	0.389	0.660	0.799	4.46	E
Agriculture	8					< 0.139	U	24	0.0285	0.0635	0.0642	0.123	0.129	E
Forest/Field/Other	8					< 17.1	U	24					< 16.0	U
Hood Canal (South)														
Commercial/Industrial	6	0.000478	0.000585	0.000949	0.000974	0.00103	E	24	0.00413	0.0354	0.0501	0.0718	0.156	
Residential	8					< 0.450	U	24	0.133	0.141	0.239	0.289	1.61	E
Agriculture	8					< 0.0216	U	24	0.00441	0.00983	0.00994	0.0191	0.0200	E
Forest/Field/Other	8					< 31.3	U	24					< 29.2	U
Hood Canal (North)														
Commercial/Industrial	6	0.000355	0.000434	0.000704	0.000722	0.000767	E	24	0.00306	0.0263	0.0371	0.0532	0.116	
Residential	8					< 0.234	U	24	0.0693	0.0732	0.124	0.150	0.838	E
Agriculture	8					< 0.00337	U	24	0.000688	0.00153	0.00155	0.00297	0.00313	E
Forest/Field/Other	8					< 3.99	U	24					< 3.72	U
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.00586	0.00717	0.0116	0.0119	0.0127	E	24	0.0506	0.434	0.613	0.880	1.92	
Residential	8					< 0.694	U	24	0.206	0.217	0.369	0.446	2.49	E
Agriculture	8					< 0.0101	U	24	0.00207	0.00461	0.00466	0.00894	0.00940	E
Forest/Field/Other	8					< 3.01	U	24					< 2.81	U
Admiralty Inlet														
Commercial/Industrial	6	0.000870	0.00106	0.00173	0.00177	0.00188	E	24	0.00751	0.0644	0.0911	0.131	0.284	
Residential	8					< 0.237	U	24	0.0705	0.0744	0.126	0.153	0.852	E
Agriculture	8					< 0.0802	U	24	0.0164	0.0365	0.0369	0.0708	0.0745	E
Forest/Field/Other	8					< 3.02	U	24					< 2.82	U
Strait of Juan de Fuca														
Commercial/Industrial	6	0.00551	0.00675	0.0109	0.0112	0.0119	E	24	0.0476	0.408	0.577	0.828	1.80	
Residential	8					< 0.651	U	24	0.193	0.204	0.346	0.419	2.34	E
Agriculture	8					< 0.342	U	24	0.0699	0.156	0.157	0.302	0.318	E
Forest/Field/Other	8					< 39.3	U	24					< 36.7	U
Strait of Georgia														
Commercial/Industrial	6	0.0125	0.0153	0.0248	0.0255	0.0270	E	24	0.108	0.926	1.31	1.88	4.09	
Residential	8					< 1.40	U	24	0.417	0.440	0.746	0.903	5.04	E
Agriculture	8					< 2.15	U	24	0.439	0.980	0.991	1.90	2.00	E
Forest/Field/Other	8					< 37.5	U	24					< 35.0	U
Whidbey Island														
Commercial/Industrial	6	0.00773	0.00946	0.0153	0.0157	0.0167	E	24	0.0667	0.572	0.809	1.16	2.53	
Residential	8					< 1.98	U	24	0.588	0.620	1.05	1.27	7.11	E
Agriculture	8					< 1.29	U	24	0.264	0.588	0.594	1.14	1.20	E
Forest/Field/Other	8					< 119	U	24					< 111	U
San Juan Islands														
Commercial/Industrial	6	0.00469	0.00574	0.00931	0.00955	0.0101	E	24	0.0405	0.347	0.491	0.704	1.53	
Residential	8					< 0.472	U	24	0.140	0.148	0.251	0.304	1.70	E
Agriculture	8					< 0.279	U	24	0.0570	0.127	0.128	0.246	0.259	E
Forest/Field/Other	8					< 6.68	U	24					< 6.23	U
Puget Sound														
Commercial/Industrial	6	0.211	0.258	0.419	0.430	0.457	E	24	1.82	15.6	22.1	31.7	69.0	
Residential	8					< 19.9	U	24	5.89	6.22	10.5	12.8	71.3	E
Agriculture	8					< 6.00	U	24	1.23	2.73	2.76	5.29	5.57	E
Forest/Field/Other	8					< 400	U	24					< 373	U

kg/year: kilograms per year

PAHs: polycyclic aromatic hydrocarbons

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-19. Absolute loading rates for bis(2-ethylhexyl) phthalate by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6					< 1.87	U	24	3.16	5.85	13.5	30.6	59.3	
Residential	8	17.4	17.4	18.5	18.5	2600	E	24	19.5	22.3	22.3	25.1	65.6	E
Agriculture	8					< 0.724	U	24	0.553	0.633	0.633	0.696	1.42	E
Forest/Field/Other	8					< 123	U	24	40.5	54.1	54.1	55.4	244	E
Port Gardner														
Commercial/Industrial	6					< 0.507	U	24	0.856	1.59	3.65	8.31	16.1	
Residential	8	8.74	8.74	9.28	9.28	1310	E	24	9.83	11.2	11.2	12.6	33.0	E
Agriculture	8					< 4.77	U	24	3.64	4.17	4.17	4.59	9.39	E
Forest/Field/Other	8					< 476	U	24	157	210	210	215	944	E
Elliott Bay														
Commercial/Industrial	6					< 1.47	U	24	2.49	4.61	10.6	24.1	46.6	
Residential	8	6.13	6.13	6.51	6.51	918	E	24	6.89	7.88	7.88	8.86	23.2	E
Agriculture	8					< 1.86	U	24	1.42	1.62	1.62	1.79	3.65	E
Forest/Field/Other	8					< 101	U	24	33.3	44.5	44.5	45.5	200	E
Commencement Bay														
Commercial/Industrial	6					< 0.836	U	24	1.41	2.62	6.02	13.7	26.5	
Residential	8	7.76	7.76	8.24	8.24	1160	E	24	8.72	9.97	9.97	11.2	29.3	E
Agriculture	8					< 2.53	U	24	1.93	2.21	2.21	2.43	4.97	E
Forest/Field/Other	8					< 251	U	24	82.7	110	110	113	497	E
South Sound (East)														
Commercial/Industrial	6					< 0.715	U	24	1.21	2.24	5.15	11.7	22.6	
Residential	8	10.0	10.0	10.6	10.6	1500	E	24	11.2	12.9	12.9	14.5	37.8	E
Agriculture	8					< 4.40	U	24	3.36	3.84	3.84	4.23	8.65	E
Forest/Field/Other	8					< 236	U	24	77.9	104	104	106	469	E
South Sound (West)														
Commercial/Industrial	6					< 0.258	U	24	0.435	0.806	1.86	4.22	8.16	
Residential	8	4.98	4.98	5.29	5.29	745	E	24	5.59	6.39	6.39	7.19	18.8	E
Agriculture	8					< 1.18	U	24	0.905	1.04	1.04	1.14	2.33	E
Forest/Field/Other	8					< 146	U	24	48.1	64.3	64.3	65.8	290	E
Hood Canal (South)														
Commercial/Industrial	6					< 0.0156	U	24	0.0264	0.0489	0.113	0.256	0.495	
Residential	8	1.80	1.80	1.91	1.91	270	E	24	2.03	2.31	2.31	2.60	6.80	E
Agriculture	8					< 0.183	U	24	0.140	0.160	0.160	0.176	0.361	E
Forest/Field/Other	8					< 267	U	24	87.9	117	117	120	529	E
Hood Canal (North)														
Commercial/Industrial	6					< 0.0116	U	24	0.0196	0.0363	0.0835	0.190	0.367	
Residential	8	0.935	0.935	0.993	0.993	140	E	24	1.05	1.20	1.20	1.35	3.53	E
Agriculture	8					< 0.0286	U	24	0.0219	0.0250	0.0250	0.0275	0.0563	E
Forest/Field/Other	8					< 34.0	U	24	11.2	15.0	15.0	15.3	67.4	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6					< 0.192	U	24	0.323	0.599	1.38	3.14	6.07	
Residential	8	2.78	2.78	2.95	2.95	416	E	24	3.12	3.57	3.57	4.02	10.5	E
Agriculture	8					< 0.0860	U	24	0.0657	0.0752	0.0752	0.0827	0.169	E
Forest/Field/Other	8					< 25.6	U	24	8.45	11.3	11.3	11.6	50.9	E
Admiralty Inlet														
Commercial/Industrial	6					< 0.0284	U	24	0.0480	0.0890	0.205	0.466	0.901	
Residential	8	0.951	0.951	1.01	1.01	142	E	24	1.07	1.22	1.22	1.37	3.59	E
Agriculture	8					< 0.682	U	24	0.520	0.596	0.596	0.655	1.34	E
Forest/Field/Other	8					< 25.7	U	24	8.48	11.3	11.3	11.6	51.0	E
Strait of Juan de Fuca														
Commercial/Industrial	6					< 0.180	U	24	0.304	0.564	1.30	2.95	5.71	
Residential	8	2.61	2.61	2.77	2.77	390	E	24	2.93	3.35	3.35	3.77	9.85	E
Agriculture	8					< 2.91	U	24	2.22	2.54	2.54	2.79	5.72	E
Forest/Field/Other	8					< 335	U	24	110	147	147	151	664	E
Strait of Georgia														
Commercial/Industrial	6					< 0.409	U	24	0.690	1.28	2.94	6.70	12.9	
Residential	8	5.62	5.62	5.97	5.97	842	E	24	6.32	7.22	7.22	8.13	21.2	E
Agriculture	8					< 18.3	U	24	14.0	16.0	16.0	17.6	36.0	E
Forest/Field/Other	8					< 319	U	24	105	140	140	144	633	E
Whidbey Island														
Commercial/Industrial	6					< 0.253	U	24	0.427	0.790	1.82	4.14	8.00	
Residential	8	7.93	7.93	8.42	8.42	1190	E	24	8.92	10.2	10.2	11.5	30.0	E
Agriculture	8					< 11.0	U	24	8.37	9.58	9.58	10.5	21.6	E
Forest/Field/Other	8					< 1010	U	24	333	445	445	456	2010	E
San Juan Islands														
Commercial/Industrial	6					< 0.153	U	24	0.259	0.480	1.10	2.51	4.86	
Residential	8	1.89	1.89	2.01	2.01	283	E	24	2.13	2.43	2.43	2.73	7.14	E
Agriculture	8					< 2.37	U	24	1.81	2.07	2.07	2.28	4.66	E
Forest/Field/Other	8					< 56.9	U	24	18.8	25.0	25.0	25.6	113	E
Puget Sound														
Commercial/Industrial	6					< 6.90	U	24	11.7	21.6	49.7	113	219	
Residential	8	79.5	79.5	84.4	84.4	11900	E	24	89.4	102	102	115	300	E
Agriculture	8					< 51.0	U	24	38.9	44.6	44.6	49.0	100	E
Forest/Field/Other	8					< 3410	U	24	1120	1500	1500	1540	6760	E

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-20. Absolute loading rates for triclopyr by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.269	0.304	0.356	0.356	0.444	E	24	0.946	1.22	1.27	1.66	3.79	E
Residential	8					< 14.1	U	24	7.82	8.43	8.66	10.7	78.2	
Agriculture	8	0.0939	0.130	0.131	0.149	3.23	E	24	0.230	0.241	0.245	0.265	3.79	E
Forest/Field/Other	8					< 44.7	U	24	13.5	20.6	21.0	21.6	283	E
Port Gardner														
Commercial/Industrial	6	0.0728	0.0823	0.0965	0.0965	0.120	E	24	0.256	0.331	0.345	0.450	1.03	E
Residential	8					< 7.11	U	24	3.93	4.24	4.36	5.39	39.3	
Agriculture	8	0.619	0.857	0.863	0.983	21.3	E	24	1.51	1.59	1.61	1.74	25.0	E
Forest/Field/Other	8					< 173	U	24	52.2	79.9	81.2	83.6	1100	E
Elliott Bay														
Commercial/Industrial	6	0.211	0.239	0.280	0.280	0.350	E	24	0.745	0.963	1.00	1.31	2.99	E
Residential	8					< 4.99	U	24	2.76	2.98	3.06	3.78	27.6	
Agriculture	8	0.241	0.334	0.336	0.383	8.29	E	24	0.590	0.617	0.628	0.679	9.73	E
Forest/Field/Other	8					< 36.7	U	24	11.1	17.0	17.2	17.8	233	E
Commencement Bay														
Commercial/Industrial	6	0.120	0.136	0.159	0.159	0.198	E	24	0.423	0.547	0.569	0.742	1.70	E
Residential	8					< 6.31	U	24	3.49	3.77	3.87	4.78	34.9	
Agriculture	8	0.327	0.454	0.457	0.520	11.3	E	24	0.802	0.839	0.855	0.923	13.2	E
Forest/Field/Other	8					< 91.2	U	24	27.5	42.1	42.8	44.1	578	E
South Sound (East)														
Commercial/Industrial	6	0.103	0.116	0.136	0.136	0.170	E	24	0.362	0.467	0.487	0.634	1.45	E
Residential	8					< 8.14	U	24	4.50	4.86	4.99	6.17	45.0	
Agriculture	8	0.570	0.790	0.795	0.906	19.6	E	24	1.40	1.46	1.49	1.61	23.0	E
Forest/Field/Other	8					< 85.9	U	24	25.9	39.7	40.3	41.5	545	E
South Sound (West)														
Commercial/Industrial	6	0.0370	0.0418	0.0490	0.0490	0.0612	E	24	0.130	0.169	0.176	0.229	0.523	E
Residential	8					< 4.05	U	24	2.24	2.42	2.48	3.07	22.4	
Agriculture	8	0.154	0.213	0.214	0.244	5.29	E	24	0.376	0.394	0.401	0.433	6.21	E
Forest/Field/Other	8					< 53.1	U	24	16.0	24.5	24.9	25.7	337	E
Hood Canal (South)														
Commercial/Industrial	6	0.00225	0.00254	0.00298	0.00298	0.00371	E	24	0.00791	0.0102	0.0106	0.0139	0.0317	E
Residential	8					< 1.47	U	24	0.811	0.874	0.898	1.11	8.11	
Agriculture	8	0.0238	0.0329	0.0332	0.0378	0.818	E	24	0.0582	0.0609	0.0620	0.0670	0.961	E
Forest/Field/Other	8					< 97.0	U	24	29.2	44.8	45.5	46.9	615	E
Hood Canal (North)														
Commercial/Industrial	6	0.00166	0.00188	0.00221	0.00221	0.00275	E	24	0.00586	0.00758	0.00789	0.0103	0.0235	E
Residential	8					< 0.761	U	24	0.421	0.454	0.466	0.577	4.21	
Agriculture	8	0.00371	0.00514	0.00518	0.00590	0.128	E	24	0.00909	0.00951	0.00969	0.0105	0.150	E
Forest/Field/Other	8					< 12.4	U	24	3.72	5.71	5.79	5.97	78.3	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0275	0.0311	0.0364	0.0364	0.0455	E	24	0.0969	0.125	0.130	0.170	0.388	E
Residential	8					< 2.26	U	24	1.25	1.35	1.39	1.71	12.5	
Agriculture	8	0.0112	0.0155	0.0156	0.0177	0.384	E	24	0.0273	0.0286	0.0291	0.0314	0.451	E
Forest/Field/Other	8					< 9.32	U	24	2.81	4.30	4.37	4.51	59.1	E
Admiralty Inlet														
Commercial/Industrial	6	0.00408	0.00461	0.00541	0.00541	0.00675	E	24	0.0144	0.0186	0.0194	0.0252	0.0576	E
Residential	8					< 0.774	U	24	0.428	0.462	0.474	0.586	4.28	
Agriculture	8	0.0884	0.122	0.123	0.140	3.04	E	24	0.216	0.227	0.231	0.249	3.57	E
Forest/Field/Other	8					< 9.35	U	24	2.82	4.32	4.39	4.52	59.3	E
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0259	0.0293	0.0343	0.0343	0.0428	E	24	0.0912	0.118	0.123	0.160	0.365	E
Residential	8					< 2.12	U	24	1.17	1.27	1.30	1.61	11.7	
Agriculture	8	0.377	0.522	0.525	0.599	13.0	E	24	0.922	0.966	0.983	1.06	15.2	E
Forest/Field/Other	8					< 122	U	24	36.7	56.2	57.1	58.9	772	E
Strait of Georgia														
Commercial/Industrial	6	0.0587	0.0663	0.0778	0.0778	0.0970	E	24	0.207	0.267	0.278	0.363	0.829	E
Residential	8					< 4.57	U	24	2.53	2.73	2.80	3.47	25.3	
Agriculture	8	2.37	3.28	3.31	3.77	81.5	E	24	5.80	6.07	6.18	6.68	95.8	E
Forest/Field/Other	8					< 116	U	24	35.0	53.6	54.4	56.1	735	E
Whidbey Island														
Commercial/Industrial	6	0.0363	0.0410	0.0481	0.0481	0.0600	E	24	0.128	0.165	0.172	0.224	0.512	E
Residential	8					< 6.45	U	24	3.57	3.85	3.95	4.89	35.7	
Agriculture	8	1.42	1.97	1.98	2.26	48.9	E	24	3.48	3.64	3.71	4.00	57.4	E
Forest/Field/Other	8					< 368	U	24	111	170	172	178	2330	E
San Juan Islands														
Commercial/Industrial	6	0.0220	0.0249	0.0292	0.0292	0.0364	E	24	0.0776	0.100	0.104	0.136	0.311	E
Residential	8					< 1.54	U	24	0.851	0.918	0.943	1.17	8.51	
Agriculture	8	0.307	0.426	0.429	0.488	10.6	E	24	0.752	0.788	0.802	0.866	12.4	E
Forest/Field/Other	8					< 20.7	U	24	6.23	9.55	9.70	9.99	131	E
Puget Sound														
Commercial/Industrial	6	0.991	1.12	1.31	1.31	1.64	E	24	3.49	4.51	4.70	6.12	14.0	E
Residential	8					< 64.7	U	24	35.8	38.6	39.6	49.0	358	
Agriculture	8	6.61	9.15	9.22	10.5	227	E	24	16.2	16.9	17.2	18.6	267	E
Forest/Field/Other	8					< 1240	U	24	373	572	581	599	7850	E

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-21. Absolute loading rates for nonylphenol by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6					< 3.85	U	24	3.16	6.13	6.33	6.41	6.72	E
Residential	8					< 71.6	U	24					< 91.8	U
Agriculture	8					< 1.41	U	24					< 2.60	U
Forest/Field/Other	8					< 245	U	24					< 250	U
Port Gardner														
Commercial/Industrial	6					< 1.04	U	24	0.856	1.66	1.71	1.74	1.82	E
Residential	8					< 36.0	U	24					< 46.2	U
Agriculture	8					< 9.27	U	24					< 17.1	U
Forest/Field/Other	8					< 948	U	24					< 969	U
Elliott Bay														
Commercial/Industrial	6					< 3.03	U	24	2.49	4.82	4.98	5.04	5.29	E
Residential	8					< 25.3	U	24					< 32.4	U
Agriculture	8					< 3.61	U	24					< 6.67	U
Forest/Field/Other	8					< 201	U	24					< 206	U
Commencement Bay														
Commercial/Industrial	6					< 1.72	U	24	1.41	2.74	2.83	2.86	3.00	E
Residential	8					< 32.0	U	24					< 41.0	U
Agriculture	8					< 4.91	U	24					< 9.08	U
Forest/Field/Other	8					< 500	U	24					< 510	U
South Sound (East)														
Commercial/Industrial	6					< 1.47	U	24	1.21	2.34	2.42	2.45	2.57	E
Residential	8					< 41.2	U	24					< 52.9	U
Agriculture	8					< 8.55	U	24					< 15.8	U
Forest/Field/Other	8					< 471	U	24					< 481	U
South Sound (West)														
Commercial/Industrial	6					< 0.531	U	24	0.435	0.845	0.872	0.883	0.926	E
Residential	8					< 20.5	U	24					< 26.3	U
Agriculture	8					< 2.30	U	24					< 4.26	U
Forest/Field/Other	8					< 291	U	24					< 297	U
Hood Canal (South)														
Commercial/Industrial	6					< 0.0322	U	24	0.0264	0.0512	0.0529	0.0535	0.0562	E
Residential	8					< 7.42	U	24					< 9.52	U
Agriculture	8					< 0.356	U	24					< 0.659	U
Forest/Field/Other	8					< 531	U	24					< 543	U
Hood Canal (North)														
Commercial/Industrial	6					< 0.0239	U	24	0.0196	0.0380	0.0392	0.0397	0.0416	E
Residential	8					< 3.85	U	24					< 4.94	U
Agriculture	8					< 0.0556	U	24					< 0.103	U
Forest/Field/Other	8					< 67.7	U	24					< 69.2	U
Sinclair/Dyes Inlet														
Commercial/Industrial	6					< 0.394	U	24	0.323	0.628	0.648	0.656	0.688	E
Residential	8					< 11.4	U	24					< 14.7	U
Agriculture	8					< 0.167	U	24					< 0.309	U
Forest/Field/Other	8					< 51.1	U	24					< 52.2	U
Admiralty Inlet														
Commercial/Industrial	6					< 0.0585	U	24	0.0480	0.0932	0.0962	0.0974	0.102	E
Residential	8					< 3.92	U	24					< 5.03	U
Agriculture	8					< 1.32	U	24					< 2.45	U
Forest/Field/Other	8					< 51.2	U	24					< 52.4	U
Strait of Juan de Fuca														
Commercial/Industrial	6					< 0.371	U	24	0.304	0.591	0.610	0.617	0.647	E
Residential	8					< 10.7	U	24					< 13.8	U
Agriculture	8					< 5.65	U	24					< 10.4	U
Forest/Field/Other	8					< 667	U	24					< 682	U
Strait of Georgia														
Commercial/Industrial	6					< 0.841	U	24	0.690	1.34	1.38	1.40	1.47	E
Residential	8					< 23.2	U	24					< 29.7	U
Agriculture	8					< 35.5	U	24					< 65.7	U
Forest/Field/Other	8					< 636	U	24					< 649	U
Whidbey Island														
Commercial/Industrial	6					< 0.520	U	24	0.427	0.828	0.854	0.865	0.907	E
Residential	8					< 32.7	U	24					< 41.9	U
Agriculture	8					< 21.3	U	24					< 39.4	U
Forest/Field/Other	8					< 2010	U	24					< 2060	U
San Juan Islands														
Commercial/Industrial	6					< 0.316	U	24	0.259	0.503	0.519	0.525	0.551	E
Residential	8					< 7.79	U	24					< 9.99	U
Agriculture	8					< 4.61	U	24					< 8.52	U
Forest/Field/Other	8					< 113	U	24					< 116	U
Puget Sound														
Commercial/Industrial	6					< 14.2	U	24	11.7	22.6	23.3	23.6	24.8	E
Residential	8					< 327	U	24					< 420	U
Agriculture	8					< 99.0	U	24					< 183	U
Forest/Field/Other	8					< 6790	U	24					< 6940	U

kg/year: kilograms per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-22. Absolute loading rates for total DDT by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (kg/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.00116	0.00116	0.00116	0.0190	0.0277	E	24	0.00395	0.0303	0.0494	0.0844	0.888	E
Residential	8					< 0.0455	U	24					< 0.726	U
Agriculture	8					< 0.000939	U	24	0.000791	0.000950	0.00989	0.00989	0.0103	E
Forest/Field/Other	8					< 0.144	U	24	0.0676	0.0730	0.845	0.879	1.69	E
Port Gardner														
Commercial/Industrial	6	0.000316	0.000316	0.000316	0.00515	0.00750	E	24	0.00107	0.00821	0.0134	0.0229	0.241	E
Residential	8					< 0.0229	U	24					< 0.365	U
Agriculture	8					< 0.00619	U	24	0.00522	0.00626	0.0652	0.0652	0.0677	E
Forest/Field/Other	8					< 0.559	U	24	0.262	0.283	3.27	3.40	6.54	E
Elliott Bay														
Commercial/Industrial	6	0.000917	0.000917	0.000917	0.0150	0.0218	E	24	0.00311	0.0238	0.0389	0.0665	0.699	E
Residential	8					< 0.0161	U	24					< 0.256	U
Agriculture	8					< 0.00241	U	24	0.00203	0.00244	0.0254	0.0254	0.0264	E
Forest/Field/Other	8					< 0.119	U	24	0.0556	0.0600	0.694	0.723	1.39	E
Commencement Bay														
Commercial/Industrial	6	0.000521	0.000521	0.000521	0.00849	0.0124	E	24	0.00177	0.0135	0.0221	0.0377	0.397	E
Residential	8					< 0.0203	U	24					< 0.324	U
Agriculture	8					< 0.00327	U	24	0.00276	0.00331	0.0345	0.0345	0.0358	E
Forest/Field/Other	8					< 0.294	U	24	0.138	0.149	1.72	1.79	3.45	E
South Sound (East)														
Commercial/Industrial	6	0.000445	0.000445	0.000445	0.00726	0.0106	E	24	0.00151	0.0116	0.0189	0.0323	0.339	E
Residential	8					< 0.0262	U	24					< 0.418	U
Agriculture	8					< 0.00570	U	24	0.00481	0.00577	0.0600	0.0600	0.0624	E
Forest/Field/Other	8					< 0.277	U	24	0.130	0.140	1.62	1.69	3.25	E
South Sound (West)														
Commercial/Industrial	6	0.000160	0.000160	0.000160	0.00262	0.00381	E	24	0.000545	0.00417	0.00681	0.0116	0.122	E
Residential	8					< 0.0130	U	24					< 0.208	U
Agriculture	8					< 0.00154	U	24	0.00129	0.00155	0.0162	0.0162	0.0168	E
Forest/Field/Other	8					< 0.171	U	24	0.0803	0.0867	1.00	1.04	2.01	E
Hood Canal (South)														
Commercial/Industrial	6	0.00000974	0.00000974	0.00000974	0.000159	0.000231	E	24	0.0000330	0.000253	0.000413	0.000706	0.00742	E
Residential	8					< 0.00472	U	24					< 0.0753	U
Agriculture	8					< 0.000238	U	24	0.000200	0.000240	0.00250	0.00250	0.00260	E
Forest/Field/Other	8					< 0.313	U	24	0.147	0.158	1.83	1.91	3.67	E
Hood Canal (North)														
Commercial/Industrial	6	0.00000722	0.00000722	0.00000722	0.000118	0.000171	E	24	0.0000245	0.000188	0.000306	0.000523	0.00550	E
Residential	8					< 0.00245	U	24					< 0.0391	U
Agriculture	8					< 0.000037	U	24	0.0000313	0.0000375	0.000391	0.000391	0.000406	E
Forest/Field/Other	8					< 0.0399	U	24	0.0187	0.0202	0.234	0.243	0.467	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.000119	0.000119	0.000119	0.00195	0.00283	E	24	0.000405	0.00310	0.00506	0.00865	0.0909	E
Residential	8					< 0.00729	U	24					< 0.116	U
Agriculture	8					< 0.000112	U	24	0.0000940	0.000113	0.00117	0.00117	0.00122	E
Forest/Field/Other	8					< 0.0301	U	24	0.0141	0.0152	0.176	0.183	0.352	E
Admiralty Inlet														
Commercial/Industrial	6	0.0000177	0.0000177	0.0000177	0.000289	0.000420	E	24	0.0000601	0.000460	0.000751	0.00128	0.0135	E
Residential	8					< 0.00249	U	24					< 0.0398	U
Agriculture	8					< 0.000884	U	24	0.000745	0.000894	0.00931	0.00931	0.00967	E
Forest/Field/Other	8					< 0.0302	U	24	0.0141	0.0153	0.177	0.184	0.354	E
Straits of Juan de Fuca														
Commercial/Industrial	6	0.000112	0.000112	0.000112	0.00183	0.00267	E	24	0.000381	0.00292	0.00476	0.00814	0.0856	E
Residential	8					< 0.00684	U	24					< 0.109	U
Agriculture	8					< 0.00377	U	24	0.00318	0.00381	0.0397	0.0397	0.0412	E
Forest/Field/Other	8					< 0.393	U	24	0.184	0.199	2.30	2.40	4.60	E
Straits of Georgia														
Commercial/Industrial	6	0.000255	0.000255	0.000255	0.00415	0.00604	E	24	0.000864	0.00662	0.0108	0.0185	0.194	E
Residential	8					< 0.0147	U	24					< 0.235	U
Agriculture	8					< 0.0237	U	24	0.0200	0.0240	0.250	0.250	0.259	E
Forest/Field/Other	8					< 0.375	U	24	0.175	0.190	2.19	2.28	4.38	E
Whidbey Island														
Commercial/Industrial	6	0.000157	0.000157	0.000157	0.00257	0.00373	E	24	0.000534	0.00409	0.00667	0.0114	0.120	E
Residential	8					< 0.0208	U	24					< 0.332	U
Agriculture	8					< 0.0142	U	24	0.0120	0.0144	0.150	0.150	0.156	E
Forest/Field/Other	8					< 1.19	U	24	0.556	0.601	6.95	7.23	13.9	E
San Juan Islands														
Commercial/Industrial	6	0.0000955	0.0000955	0.0000955	0.00156	0.00227	E	24	0.000324	0.00248	0.00405	0.00693	0.0728	E
Residential	8					< 0.00496	U	24					< 0.0791	U
Agriculture	8					< 0.00307	U	24	0.00259	0.00311	0.0324	0.0324	0.0336	E
Forest/Field/Other	8					< 0.0668	U	24	0.0313	0.0338	0.391	0.407	0.782	E
Puget Sound														
Commercial/Industrial	6	0.00430	0.00430	0.00430	0.0701	0.102	E	24	0.0146	0.112	0.182	0.312	3.28	E
Residential	8					< 0.208	U	24					< 3.32	U
Agriculture	8					< 0.0661	U	24	0.0557	0.0668	0.696	0.696	0.723	E
Forest/Field/Other	8					< 4.00	U	24	1.87	2.02	23.4	24.4	46.8	E

kg/year: kilograms per year

DDT: dichlorodiphenyltrichloroethane

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-23. Absolute loading rates for oil and grease by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (MT/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	2.34	2.34	2.34	2.34	4.67	E	24	7.93	7.93	7.93	15.8	31.6	E
Residential	8	43.4	43.4	43.4	65.0	86.7	E	24	55.9	55.9	55.9	55.9	279	E
Agriculture	8	0.852	0.852	0.852	0.852	2.56	E	24	1.58	1.58	1.58	1.58	15.8	E
Forest/Field/Other	8	144	144	144	216	1080	E	24	135	135	135	135	676	E
Port Gardner														
Commercial/Industrial	6	0.633	0.633	0.633	0.633	1.27	E	24	2.15	2.15	2.15	4.28	8.56	E
Residential	8	21.8	21.8	21.8	32.7	43.6	E	24	28.1	28.1	28.1	28.1	140	E
Agriculture	8	5.62	5.62	5.62	5.62	16.9	E	24	10.4	10.4	10.4	10.4	104	E
Forest/Field/Other	8	559	559	559	836	4180	E	24	522	522	522	522	2620	E
Elliott Bay														
Commercial/Industrial	6	1.84	1.84	1.84	1.84	3.68	E	24	6.25	6.25	6.25	12.4	24.9	E
Residential	8	15.3	15.3	15.3	22.9	30.6	E	24	19.7	19.7	19.7	19.7	98.5	E
Agriculture	8	2.19	2.19	2.19	2.19	6.56	E	24	4.06	4.06	4.06	4.06	40.6	E
Forest/Field/Other	8	119	119	119	178	888	E	24	111	111	111	111	556	E
Commencement Bay														
Commercial/Industrial	6	1.04	1.04	1.04	1.04	2.09	E	24	3.55	3.55	3.55	7.06	14.1	E
Residential	8	19.4	19.4	19.4	29.0	38.7	E	24	25.0	25.0	25.0	25.0	125	E
Agriculture	8	2.97	2.97	2.97	2.97	8.92	E	24	5.52	5.52	5.52	5.52	55.2	E
Forest/Field/Other	8	294	294	294	441	2200	E	24	275	275	275	275	1380	E
South Sound (East)														
Commercial/Industrial	6	0.893	0.893	0.893	0.893	1.79	E	24	3.03	3.03	3.03	6.04	12.1	E
Residential	8	25.0	25.0	25.0	37.4	49.9	E	24	32.2	32.2	32.2	32.2	161	E
Agriculture	8	5.17	5.17	5.17	5.17	15.5	E	24	9.61	9.61	9.61	9.61	96.1	E
Forest/Field/Other	8	277	277	277	415	2080	E	24	259	259	259	259	1300	E
South Sound (West)														
Commercial/Industrial	6	0.322	0.322	0.322	0.322	0.644	E	24	1.09	1.09	1.09	2.18	4.35	E
Residential	8	12.4	12.4	12.4	18.6	24.8	E	24	16.0	16.0	16.0	16.0	79.9	E
Agriculture	8	1.39	1.39	1.39	1.39	4.19	E	24	2.59	2.59	2.59	2.59	25.9	E
Forest/Field/Other	8	171	171	171	257	1280	E	24	160	160	160	160	803	E
Hood Canal (South)														
Commercial/Industrial	6	0.0195	0.0195	0.0195	0.0195	0.0391	E	24	0.0663	0.0663	0.0663	0.132	0.264	E
Residential	8	4.50	4.50	4.50	6.74	8.99	E	24	5.80	5.80	5.80	5.80	28.9	E
Agriculture	8	0.216	0.216	0.216	0.216	0.648	E	24	0.401	0.401	0.401	0.401	4.01	E
Forest/Field/Other	8	313	313	313	469	2340	E	24	292	292	292	292	1470	E
Hood Canal (North)														
Commercial/Industrial	6	0.0145	0.0145	0.0145	0.0145	0.0290	E	24	0.0492	0.0492	0.0492	0.0979	0.196	E
Residential	8	2.34	2.34	2.34	3.50	4.67	E	24	3.01	3.01	3.01	3.01	15.0	E
Agriculture	8	0.0337	0.0337	0.0337	0.0337	0.101	E	24	0.0626	0.0626	0.0626	0.0626	0.626	E
Forest/Field/Other	8	39.9	39.9	39.9	59.7	299	E	24	37.2	37.2	37.2	37.2	187	E
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.239	0.239	0.239	0.239	0.479	E	24	0.812	0.812	0.812	1.62	3.23	E
Residential	8	6.94	6.94	6.94	10.4	13.9	E	24	8.94	8.94	8.94	8.94	44.6	E
Agriculture	8	0.101	0.101	0.101	0.101	0.304	E	24	0.188	0.188	0.188	0.188	1.88	E
Forest/Field/Other	8	30.1	30.1	30.1	45.1	225	E	24	28.1	28.1	28.1	28.1	141	E
Admiralty Inlet														
Commercial/Industrial	6	0.0355	0.0355	0.0355	0.0355	0.0710	E	24	0.121	0.121	0.121	0.240	0.480	E
Residential	8	2.37	2.37	2.37	3.56	4.74	E	24	3.06	3.06	3.06	3.06	15.3	E
Agriculture	8	0.802	0.802	0.802	0.802	2.41	E	24	1.49	1.49	1.49	1.49	14.9	E
Forest/Field/Other	8	30.2	30.2	30.2	45.2	226	E	24	28.2	28.2	28.2	28.2	141	E
Strait of Juan de Fuca														
Commercial/Industrial	6	0.225	0.225	0.225	0.225	0.450	E	24	0.765	0.765	0.765	1.52	3.04	E
Residential	8	6.51	6.51	6.51	9.76	13.0	E	24	8.39	8.39	8.39	8.39	41.9	E
Agriculture	8	3.42	3.42	3.42	3.42	10.3	E	24	6.35	6.35	6.35	6.35	63.5	E
Forest/Field/Other	8	393	393	393	589	2940	E	24	367	367	367	367	1840	E
Strait of Georgia														
Commercial/Industrial	6	0.511	0.511	0.511	0.511	1.02	E	24	1.73	1.73	1.73	3.45	6.90	E
Residential	8	14.0	14.0	14.0	21.0	28.1	E	24	18.1	18.1	18.1	18.1	90.3	E
Agriculture	8	21.5	21.5	21.5	21.5	64.6	E	24	40.0	40.0	40.0	40.0	400	E
Forest/Field/Other	8	375	375	375	561	2800	E	24	350	350	350	350	1750	E
Whidbey Island														
Commercial/Industrial	6	0.315	0.315	0.315	0.315	0.631	E	24	1.07	1.07	1.07	2.13	4.27	E
Residential	8	19.8	19.8	19.8	29.7	39.6	E	24	25.5	25.5	25.5	25.5	127	E
Agriculture	8	12.9	12.9	12.9	12.9	38.7	E	24	24.0	24.0	24.0	24.0	240	E
Forest/Field/Other	8	1190	1190	1190	1780	8890	E	24	1110	1110	1110	1110	5560	E
San Juan Islands														
Commercial/Industrial	6	0.192	0.192	0.192	0.192	0.383	E	24	0.651	0.651	0.651	1.30	2.59	E
Residential	8	4.72	4.72	4.72	7.07	9.44	E	24	6.08	6.08	6.08	6.08	30.4	E
Agriculture	8	2.79	2.79	2.79	2.79	8.38	E	24	5.18	5.18	5.18	5.18	51.8	E
Forest/Field/Other	8	66.8	66.8	66.8	99.9	500	E	24	62.3	62.3	62.3	62.3	313	E
Puget Sound														
Commercial/Industrial	6	8.62	8.62	8.62	8.62	17.2	E	24	29.3	29.3	29.3	58.3	117	E
Residential	8	199	199	199	297	397	E	24	256	256	256	256	1280	E
Agriculture	8	60.0	60.0	60.0	60.0	180	E	24	111	111	111	111	1110	E
Forest/Field/Other	8	4000	4000	4000	5990	29900	E	24	3730	3730	3730	3730	18700	E

MT/year: metric tons per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-24. Absolute loading rates for lube oil (TPH-DOG) by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (MT/year)												
	Baseflow						Storm Event						Non-Detect Frequency Flag
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	
Main Basin													
Commercial/Industrial	6					< 0.420	U	24	0.633	1.03	2.96	4.75	8.66
Residential	8					< 9.09	U	24	4.19	4.33	4.46	4.61	10.1
Agriculture	8	0.0683	0.0683	0.0683	0.0874	0.188	E	24	0.119	0.123	0.127	0.128	0.633
Forest/Field/Other	8					< 25.2	U	24	10.1	10.3	10.8	11.1	40.5
Port Gardner													
Commercial/Industrial	6					< 0.114	U	24	0.171	0.278	0.803	1.29	2.35
Residential	8					< 4.57	U	24	2.11	2.18	2.25	2.32	5.07
Agriculture	8	0.450	0.450	0.450	0.576	1.24	E	24	0.782	0.809	0.835	0.845	4.17
Forest/Field/Other	8					< 97.7	U	24	39.3	39.8	41.8	43.1	157
Elliott Bay													
Commercial/Industrial	6					< 0.331	U	24	0.498	0.808	2.33	3.74	6.82
Residential	8					< 3.21	U	24	1.48	1.53	1.58	1.63	3.56
Agriculture	8	0.175	0.175	0.175	0.224	0.481	E	24	0.304	0.315	0.325	0.329	1.62
Forest/Field/Other	8					< 20.7	U	24	8.33	8.45	8.88	9.14	33.3
Commencement Bay													
Commercial/Industrial	6					< 0.188	U	24	0.283	0.459	1.32	2.12	3.87
Residential	8					< 4.06	U	24	1.87	1.93	1.99	2.06	4.50
Agriculture	8	0.238	0.238	0.238	0.305	0.654	E	24	0.414	0.428	0.442	0.447	2.21
Forest/Field/Other	8					< 51.5	U	24	20.7	21.0	22.0	22.7	82.7
South Sound (East)													
Commercial/Industrial	6					< 0.161	U	24	0.242	0.392	1.13	1.81	3.31
Residential	8					< 5.24	U	24	2.41	2.49	2.57	2.65	5.81
Agriculture	8	0.415	0.415	0.415	0.531	1.14	E	24	0.720	0.745	0.769	0.778	3.84
Forest/Field/Other	8					< 48.5	U	24	19.5	19.7	20.8	21.4	77.9
South Sound (West)													
Commercial/Industrial	6					< 0.0579	U	24	0.0872	0.141	0.408	0.654	1.19
Residential	8					< 2.60	U	24	1.20	1.24	1.28	1.32	2.89
Agriculture	8	0.112	0.112	0.112	0.143	0.307	E	24	0.194	0.201	0.207	0.210	1.04
Forest/Field/Other	8					< 30.0	U	24	12.0	12.2	12.8	13.2	48.1
Hood Canal (South)													
Commercial/Industrial	6					< 0.00351	U	24	0.00529	0.00858	0.0248	0.0397	0.0724
Residential	8					< 0.943	U	24	0.434	0.449	0.463	0.478	1.05
Agriculture	8	0.0173	0.0173	0.0173	0.0221	0.0475	E	24	0.0300	0.0311	0.0321	0.0325	0.160
Forest/Field/Other	8					< 54.8	U	24	22.0	22.3	23.4	24.1	87.9
Hood Canal (North)													
Commercial/Industrial	6					< 0.00260	U	24	0.00392	0.00636	0.0184	0.0294	0.0537
Residential	8					< 0.489	U	24	0.225	0.233	0.240	0.248	0.543
Agriculture	8	0.00270	0.00270	0.00270	0.00345	0.00741	E	24	0.00469	0.00485	0.00501	0.00507	0.0250
Forest/Field/Other	8					< 6.98	U	24	2.80	2.84	2.99	3.07	11.2
Sinclair/Dyes Inlet													
Commercial/Industrial	6					< 0.0430	U	24	0.0648	0.105	0.303	0.486	0.887
Residential	8					< 1.45	U	24	0.670	0.693	0.714	0.737	1.61
Agriculture	8	0.00811	0.00811	0.00811	0.0104	0.0223	E	24	0.0141	0.0146	0.0150	0.0152	0.0752
Forest/Field/Other	8					< 5.26	U	24	2.11	2.14	2.25	2.32	8.45
Admiralty Inlet													
Commercial/Industrial	6					< 0.00638	U	24	0.00962	0.0156	0.0450	0.0721	0.132
Residential	8					< 0.498	U	24	0.229	0.237	0.244	0.252	0.552
Agriculture	8	0.0643	0.0643	0.0643	0.0823	0.177	E	24	0.112	0.116	0.119	0.121	0.596
Forest/Field/Other	8					< 5.28	U	24	2.12	2.15	2.26	2.33	8.48
Strait of Juan de Fuca													
Commercial/Industrial	6					< 0.0405	U	24	0.0610	0.0989	0.285	0.457	0.835
Residential	8					< 1.36	U	24	0.628	0.650	0.670	0.692	1.51
Agriculture	8	0.274	0.274	0.274	0.351	0.753	E	24	0.476	0.492	0.508	0.514	2.54
Forest/Field/Other	8					< 68.8	U	24	27.6	28.0	29.4	30.3	110
Strait of Georgia													
Commercial/Industrial	6					< 0.0918	U	24	0.138	0.224	0.647	1.04	1.89
Residential	8					< 2.94	U	24	1.35	1.40	1.44	1.49	3.26
Agriculture	8	1.72	1.72	1.72	2.21	4.73	E	24	2.99	3.10	3.20	3.23	16.0
Forest/Field/Other	8					< 65.5	U	24	26.3	26.7	28.0	28.9	105
Whidbey Island													
Commercial/Industrial	6					< 0.0567	U	24	0.0854	0.139	0.400	0.641	1.17
Residential	8					< 4.15	U	24	1.91	1.98	2.04	2.10	4.60
Agriculture	8	1.03	1.03	1.03	1.32	2.84	E	24	1.80	1.86	1.92	1.94	9.58
Forest/Field/Other	8					< 208	U	24	83.4	84.5	88.9	91.5	333
San Juan Islands													
Commercial/Industrial	6					< 0.0344	U	24	0.0519	0.0842	0.243	0.389	0.710
Residential	8					< 0.990	U	24	0.456	0.471	0.486	0.502	1.10
Agriculture	8	0.224	0.224	0.224	0.286	0.614	E	24	0.388	0.402	0.415	0.420	2.07
Forest/Field/Other	8					< 11.7	U	24	4.69	4.75	5.00	5.15	18.8
Puget Sound													
Commercial/Industrial	6					< 1.55	U	24	2.33	3.79	10.9	17.5	32.0
Residential	8					< 41.6	U	24	19.2	19.8	20.4	21.1	46.1
Agriculture	8	4.81	4.81	4.81	6.15	13.2	E	24	8.35	8.64	8.91	9.02	44.6
Forest/Field/Other	8					< 700	U	24	281	285	299	308	1120

MT/year: metric tons per year

TPH-DOG: total petroleum hydrocarbons, extract of oil and grease (lube oil)

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-25. Absolute loading rates for total suspended solids by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (MT/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	5.84	5.84	5.84	23.4	23.4	E	24	79.3	277	395	559	1700	
Residential	8	217	434	650	972	2820		24	838	1820	3910	6980	32900	
Agriculture	8	4.27	8.52	12.8	17.1	29.9		24	7.91	23.6	43.6	121	395	
Forest/Field/Other	8	1440	1440	1440	2160	5050		24	338	1690	4730	8920	134000	
Port Gardner														
Commercial/Industrial	6	1.58	1.58	1.58	6.33	6.33	E	24	21.5	75.0	107	152	460	
Residential	8	109	218	327	489	1420		24	422	915	1970	3510	16600	
Agriculture	8	28.2	56.2	84.3	112	197		24	52.2	156	287	796	2600	
Forest/Field/Other	8	5590	5590	5590	8360	19500		24	1310	6540	18300	34500	518000	
Elliott Bay														
Commercial/Industrial	6	4.60	4.60	4.60	18.4	18.4	E	24	62.5	218	311	440	1340	
Residential	8	76.5	153	229	343	994		24	296	642	1380	2460	11600	
Agriculture	8	11.0	21.9	32.8	43.8	76.8		24	20.3	60.6	112	310	1010	
Forest/Field/Other	8	1190	1190	1190	1780	4150		24	278	1390	3890	7330	110000	
Commencement Bay														
Commercial/Industrial	6	2.61	2.61	2.61	10.4	10.4	E	24	35.5	124	177	250	758	
Residential	8	96.9	194	290	434	1260		24	374	812	1740	3120	14700	
Agriculture	8	14.9	29.7	44.6	59.5	104		24	27.6	82.4	152	421	1380	
Forest/Field/Other	8	2940	2940	2940	4410	10300		24	689	3450	9640	18200	273000	
South Sound (East)														
Commercial/Industrial	6	2.23	2.23	2.23	8.93	8.93	E	24	30.3	106	151	214	648	
Residential	8	125	250	374	560	1620		24	483	1050	2250	4020	19000	
Agriculture	8	25.9	51.7	77.7	104	182		24	48.1	144	265	733	2400	
Forest/Field/Other	8	2770	2770	2770	4150	9700		24	649	3250	9080	17100	257000	
South Sound (West)														
Commercial/Industrial	6	0.804	0.804	0.804	3.22	3.22	E	24	10.9	38.1	54.5	77.0	234	
Residential	8	62.1	124	186	278	807		24	240	521	1120	2000	9440	
Agriculture	8	6.99	13.9	20.9	27.9	49.0		24	12.9	38.7	71.3	198	646	
Forest/Field/Other	8	1710	1710	1710	2570	5990		24	401	2010	5610	10600	159000	
Hood Canal (South)														
Commercial/Industrial	6	0.0488	0.0488	0.0488	0.195	0.195	E	24	0.663	2.31	3.30	4.67	14.2	
Residential	8	22.5	45.0	67.4	101	292		24	86.9	189	405	724	3420	
Agriculture	8	1.08	2.16	3.24	4.32	7.58		24	2.00	5.98	11.0	30.6	99.9	
Forest/Field/Other	8	3130	3130	3130	4690	11000		24	733	3670	10300	19400	290000	
Hood Canal (North)														
Commercial/Industrial	6	0.0362	0.0362	0.0362	0.145	0.145	E	24	0.492	1.71	2.45	3.46	10.5	
Residential	8	11.7	23.4	35.0	52.3	152		24	45.1	97.9	210	376	1770	
Agriculture	8	0.169	0.337	0.506	0.675	1.18		24	0.313	0.934	1.72	4.77	15.6	
Forest/Field/Other	8	399	399	399	597	1400		24	93.4	467	1310	2470	37000	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.598	0.598	0.598	2.39	2.39	E	24	8.12	28.3	40.5	57.2	174	
Residential	8	34.7	69.4	104	156	451		24	134	291	625	1120	5270	
Agriculture	8	0.507	1.01	1.52	2.03	3.55		24	0.940	2.81	5.18	14.3	46.9	
Forest/Field/Other	8	301	301	301	451	1050		24	70.5	352	986	1860	27900	
Admiralty Inlet														
Commercial/Industrial	6	0.0887	0.0887	0.0887	0.355	0.355	E	24	1.21	4.20	6.01	8.50	25.8	
Residential	8	11.9	23.7	35.6	53.2	154		24	45.9	99.5	214	382	1800	
Agriculture	8	4.02	8.02	12.0	16.1	28.2		24	7.45	22.2	41.0	114	371	
Forest/Field/Other	8	302	302	302	452	1060		24	70.7	354	989	1870	28000	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.563	0.563	0.563	2.25	2.25	E	24	7.65	26.7	38.1	53.9	163	
Residential	8	32.6	65.1	97.6	146	423		24	126	273	586	1050	4950	
Agriculture	8	17.1	34.2	51.3	68.5	120		24	31.8	94.8	175	485	1580	
Forest/Field/Other	8	3930	3930	3930	5890	13800		24	921	4600	12900	24300	364000	
Strait of Georgia														
Commercial/Industrial	6	1.28	1.28	1.28	5.11	5.11	E	24	17.3	60.4	86.4	122	371	
Residential	8	70.2	140	210	315	912		24	271	588	1260	2260	10700	
Agriculture	8	108	215	323	431	755		24	200	597	1100	3050	9960	
Forest/Field/Other	8	3750	3750	3750	5610	13100		24	877	4380	12300	23100	347000	
Whidbey Island														
Commercial/Industrial	6	0.788	0.788	0.788	3.15	3.15	E	24	10.7	37.3	53.4	75.5	229	
Residential	8	99.0	198	297	444	1290		24	383	830	1780	3190	15000	
Agriculture	8	64.7	129	194	258	453		24	120	358	660	1830	5970	
Forest/Field/Other	8	11900	11900	11900	17800	41500		24	2780	13900	38900	73400	1100000	
San Juan Islands														
Commercial/Industrial	6	0.479	0.479	0.479	1.92	1.92	E	24	6.51	22.7	32.4	45.9	139	
Residential	8	23.6	47.2	70.7	106	307		24	91.2	198	425	760	3590	
Agriculture	8	14.0	27.9	41.9	55.9	98.0		24	25.9	77.4	143	395	1290	
Forest/Field/Other	8	668	668	668	999	2340		24	156	782	2190	4130	61800	
Puget Sound														
Commercial/Industrial	6	21.5	21.5	21.5	86.2	86.2	E	24	293	1020	1460	2060	6260	
Residential	8	993	1990	2970	4450	12900		24	3830	8320	17900	32000	151000	
Agriculture	8	301	600	900	1200	2110		24	557	1660	3070	8500	27800	
Forest/Field/Other	8	40000	40000	40000	59900	140000		24	9370	46800	131000	247000	3710000	

MT/year: metric tons per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-26. Absolute loading rates for total phosphorus by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (MT/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.161	0.325	0.680	0.888	0.932		24	0.895	1.35	1.73	2.34	4.59	
Residential	8	4.66	5.99	7.05	18.6	70.0		24	8.69	12.0	18.8	31.9	77.0	
Agriculture	8	0.203	0.349	0.559	0.850	0.980		24	0.375	0.997	1.63	2.13	5.23	
Forest/Field/Other	8	5.49	6.85	10.8	18.3	21.0		24	4.60	8.18	16.4	24.4	142	
Port Gardner														
Commercial/Industrial	6	0.0436	0.0880	0.184	0.241	0.253		24	0.243	0.365	0.470	0.635	1.24	
Residential	8	2.35	3.01	3.55	9.37	35.2		24	4.37	6.02	9.46	16.0	38.8	
Agriculture	8	1.34	2.30	3.69	5.60	6.46		24	2.47	6.57	10.7	14.1	34.4	
Forest/Field/Other	8	21.2	26.5	41.8	70.8	81.2		24	17.8	31.7	63.4	94.4	551	
Elliott Bay														
Commercial/Industrial	6	0.127	0.256	0.535	0.699	0.733		24	0.705	1.06	1.36	1.85	3.61	
Residential	8	1.65	2.11	2.49	6.57	24.7		24	3.07	4.22	6.64	11.2	27.2	
Agriculture	8	0.521	0.895	1.43	2.18	2.51		24	0.962	2.56	4.18	5.47	13.4	
Forest/Field/Other	8	4.51	5.63	8.88	15.0	17.2		24	3.78	6.72	13.4	20.0	117	
Commencement Bay														
Commercial/Industrial	6	0.0719	0.145	0.304	0.397	0.416		24	0.400	0.602	0.774	1.05	2.05	
Residential	8	2.08	2.67	3.15	8.32	31.3		24	3.88	5.35	8.40	14.2	34.4	
Agriculture	8	0.708	1.22	1.95	2.96	3.42		24	1.31	3.48	5.69	7.44	18.2	
Forest/Field/Other	8	11.2	14.0	22.0	37.3	42.8		24	9.38	16.7	33.4	49.7	290	
South Sound (East)														
Commercial/Industrial	6	0.0615	0.124	0.260	0.339	0.356		24	0.342	0.515	0.662	0.896	1.75	
Residential	8	2.68	3.45	4.06	10.7	40.3		24	5.00	6.89	10.8	18.3	44.4	
Agriculture	8	1.23	2.12	3.40	5.16	5.95		24	2.28	6.06	9.90	13.0	31.7	
Forest/Field/Other	8	10.5	13.2	20.8	35.1	40.3		24	8.84	15.7	31.4	46.9	273	
South Sound (West)														
Commercial/Industrial	6	0.0222	0.0447	0.0937	0.122	0.128		24	0.123	0.186	0.239	0.323	0.632	
Residential	8	1.34	1.71	2.02	5.34	20.1		24	2.49	3.43	5.39	9.13	22.1	
Agriculture	8	0.332	0.571	0.915	1.39	1.60		24	0.614	1.63	2.67	3.49	8.55	
Forest/Field/Other	8	6.52	8.14	12.8	21.7	24.9		24	5.46	9.72	19.4	29.0	169	
Hood Canal (South)														
Commercial/Industrial	6	0.00134	0.00271	0.00568	0.00742	0.00779		24	0.00748	0.0113	0.0145	0.0196	0.0383	
Residential	8	0.483	0.621	0.731	1.93	7.26		24	0.901	1.24	1.95	3.30	7.99	
Agriculture	8	0.0514	0.0884	0.142	0.215	0.248		24	0.0950	0.253	0.413	0.540	1.32	
Forest/Field/Other	8	11.9	14.9	23.4	39.7	45.5		24	9.98	17.8	35.5	52.9	309	
Hood Canal (North)														
Commercial/Industrial	6	0.000997	0.00201	0.00421	0.00550	0.00577		24	0.00555	0.00835	0.0107	0.0145	0.0284	
Residential	8	0.251	0.322	0.379	1.00	3.77		24	0.468	0.644	1.01	1.72	4.15	
Agriculture	8	0.00802	0.0138	0.0221	0.0336	0.0387		24	0.0148	0.0394	0.0645	0.0843	0.207	
Forest/Field/Other	8	1.52	1.89	2.99	5.06	5.79		24	1.27	2.26	4.52	6.74	39.3	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0165	0.0332	0.0696	0.0909	0.0954		24	0.0917	0.138	0.177	0.240	0.470	
Residential	8	0.746	0.958	1.13	2.98	11.2		24	1.39	1.92	3.01	5.10	12.3	
Agriculture	8	0.0241	0.0415	0.0664	0.101	0.116		24	0.0446	0.118	0.194	0.253	0.621	
Forest/Field/Other	8	1.14	1.43	2.25	3.81	4.37		24	0.959	1.71	3.41	5.09	29.7	
Admiralty Inlet														
Commercial/Industrial	6	0.00245	0.00493	0.0103	0.0135	0.0142		24	0.0136	0.0205	0.0263	0.0356	0.0697	
Residential	8	0.255	0.328	0.386	1.02	3.83		24	0.475	0.655	1.03	1.74	4.22	
Agriculture	8	0.191	0.329	0.527	0.800	0.923		24	0.353	0.939	1.53	2.01	4.92	
Forest/Field/Other	8	1.15	1.43	2.26	3.83	4.39		24	0.962	1.71	3.42	5.10	29.8	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0155	0.0313	0.0655	0.0856	0.0898		24	0.0863	0.130	0.167	0.226	0.442	
Residential	8	0.700	0.899	1.06	2.80	10.5		24	1.30	1.80	2.82	4.78	11.6	
Agriculture	8	0.814	1.40	2.24	3.41	3.93		24	1.51	4.00	6.54	8.56	21.0	
Forest/Field/Other	8	15.0	18.7	29.4	49.8	57.1		24	12.5	22.3	44.6	66.4	388	
Strait of Georgia														
Commercial/Industrial	6	0.0352	0.0709	0.149	0.194	0.204		24	0.196	0.294	0.379	0.512	1.00	
Residential	8	1.51	1.94	2.28	6.03	22.7		24	2.81	3.87	6.09	10.3	24.9	
Agriculture	8	5.12	8.81	14.1	21.5	24.7		24	9.47	25.2	41.2	53.9	132	
Forest/Field/Other	8	14.2	17.8	28.0	47.5	54.4		24	11.9	21.2	42.5	63.3	369	
Whidbey Island														
Commercial/Industrial	6	0.0217	0.0438	0.0918	0.120	0.126		24	0.121	0.182	0.234	0.316	0.619	
Residential	8	2.13	2.73	3.22	8.51	32.0		24	3.96	5.46	8.59	14.5	35.2	
Agriculture	8	3.07	5.28	8.47	12.9	14.8		24	5.68	15.1	24.7	32.3	79.1	
Forest/Field/Other	8	45.1	56.4	88.9	150	172		24	37.8	67.3	135	201	1170	
San Juan Islands														
Commercial/Industrial	6	0.0132	0.0266	0.0558	0.0728	0.0764		24	0.0734	0.110	0.142	0.192	0.376	
Residential	8	0.508	0.652	0.767	2.03	7.62		24	0.945	1.30	2.05	3.47	8.39	
Agriculture	8	0.664	1.14	1.83	2.78	3.21		24	1.23	3.27	5.34	6.99	17.1	
Forest/Field/Other	8	2.54	3.17	5.00	8.46	9.70		24	2.13	3.78	7.57	11.3	65.8	
Puget Sound														
Commercial/Industrial	6	0.593	1.20	2.51	3.28	3.44		24	3.30	4.97	6.39	8.65	16.9	
Residential	8	21.3	27.4	32.3	85.3	320		24	39.7	54.8	86.1	146	353	
Agriculture	8	14.3	24.6	39.4	59.8	69.0		24	26.4	70.2	115	150	368	
Forest/Field/Other	8	152	190	299	507	581		24	127	227	454	676	3940	

MT/year: metric tons per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

Table Q-27. Absolute loading rates for nitrate + nitrite nitrogen by land use for the 14 study areas that comprise the Puget Sound Basin.

	Absolute Loading Rates (MT/year)													
	Baseflow							Storm Event						
	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag	n	Minimum	25th Percentile	Median	75th Percentile	Maximum	Non-Detect Frequency Flag
Main Basin														
Commercial/Industrial	6	0.304	0.502	2.69	10.5	10.9		24	1.74	4.39	6.88	10.8	17.6	
Residential	8	154	182	222	605	1120		24	67.1	207	277	478	1090	
Agriculture	8	0.192	0.481	0.922	1.58	2.00		24	0.475	2.58	8.11	20.4	174	
Forest/Field/Other	8	12.9	36.0	64.3	229	743		24	18.3	81.2	154	206	771	
Port Gardner														
Commercial/Industrial	6	0.0823	0.136	0.728	2.84	2.96		24	0.472	1.19	1.86	2.94	4.77	
Residential	8	77.4	91.5	112	304	561		24	33.7	104	139	240	548	
Agriculture	8	1.26	3.17	6.07	10.4	13.2		24	3.13	17.0	53.4	134	1150	
Forest/Field/Other	8	50.1	140	249	886	2880		24	70.8	314	596	799	2990	
Elliott Bay														
Commercial/Industrial	6	0.239	0.395	2.11	8.25	8.59		24	1.37	3.46	5.41	8.54	13.9	
Residential	8	54.3	64.2	78.5	213	394		24	23.7	73.1	97.8	169	384	
Agriculture	8	0.492	1.23	2.36	4.05	5.14		24	1.22	6.62	20.8	52.3	447	
Forest/Field/Other	8	10.6	29.6	52.8	188	611		24	15.0	66.7	127	170	634	
Commencement Bay														
Commercial/Industrial	6	0.136	0.225	1.20	4.69	4.88		24	0.778	1.96	3.07	4.85	7.87	
Residential	8	68.7	81.2	99.3	270	498		24	29.9	92.4	124	213	486	
Agriculture	8	0.669	1.68	3.21	5.51	6.99		24	1.66	9.00	28.3	71.1	607	
Forest/Field/Other	8	26.4	73.5	131	467	1520		24	37.3	166	314	421	1570	
South Sound (East)														
Commercial/Industrial	6	0.116	0.192	1.03	4.01	4.17		24	0.665	1.68	2.63	4.15	6.73	
Residential	8	88.6	105	128	348	643		24	38.6	119	160	275	627	
Agriculture	8	1.17	2.92	5.60	9.59	12.2		24	2.88	15.7	49.2	124	1060	
Forest/Field/Other	8	24.9	69.2	123	440	1430		24	35.1	156	296	397	1480	
South Sound (West)														
Commercial/Industrial	6	0.0418	0.0692	0.370	1.44	1.50		24	0.240	0.605	0.948	1.49	2.43	
Residential	8	44.1	52.1	63.7	173	320		24	19.2	59.3	79.4	137	312	
Agriculture	8	0.314	0.787	1.51	2.58	3.28		24	0.777	4.22	13.3	33.3	285	
Forest/Field/Other	8	15.4	42.8	76.3	272	883		24	21.7	96.4	183	245	916	
Hood Canal (South)														
Commercial/Industrial	6	0.00254	0.00420	0.0225	0.0876	0.0913		24	0.0145	0.0367	0.0575	0.0907	0.147	
Residential	8	16.0	18.9	23.1	62.7	116		24	6.95	21.5	28.7	49.6	113	
Agriculture	8	0.0486	0.122	0.233	0.400	0.507		24	0.120	0.653	2.05	5.16	44.1	
Forest/Field/Other	8	28.1	78.2	139	497	1610		24	39.7	176	334	448	1670	
Hood Canal (North)														
Commercial/Industrial	6	0.00188	0.00311	0.0166	0.0650	0.0677		24	0.0108	0.0272	0.0426	0.0672	0.109	
Residential	8	8.29	9.79	12.0	32.6	60.1		24	3.61	11.1	14.9	25.7	58.6	
Agriculture	8	0.00759	0.0190	0.0364	0.0624	0.0792		24	0.0188	0.102	0.321	0.806	6.88	
Forest/Field/Other	8	3.58	9.96	17.8	63.3	205		24	5.06	22.4	42.6	57.1	213	
Sinclair/Dyes Inlet														
Commercial/Industrial	6	0.0311	0.0514	0.275	1.07	1.12		24	0.178	0.449	0.704	1.11	1.80	
Residential	8	24.6	29.1	35.6	96.8	179		24	10.7	33.1	44.4	76.5	174	
Agriculture	8	0.0228	0.0572	0.109	0.187	0.238		24	0.0564	0.306	0.963	2.42	20.7	
Forest/Field/Other	8	2.70	7.52	13.4	47.7	155		24	3.81	16.9	32.1	43.0	161	
Admiralty Inlet														
Commercial/Industrial	6	0.00461	0.00763	0.0408	0.159	0.166		24	0.0264	0.0667	0.105	0.165	0.268	
Residential	8	8.43	9.95	12.2	33.1	61.1		24	3.67	11.3	15.2	26.2	59.6	
Agriculture	8	0.181	0.453	0.867	1.49	1.89		24	0.447	2.43	7.63	19.2	164	
Forest/Field/Other	8	2.71	7.54	13.4	47.9	156		24	3.83	17.0	32.2	43.2	161	
Strait of Juan de Fuca														
Commercial/Industrial	6	0.0293	0.0484	0.259	1.01	1.05		24	0.168	0.423	0.663	1.05	1.70	
Residential	8	23.1	27.3	33.4	90.8	168		24	10.1	31.1	41.6	71.7	163	
Agriculture	8	0.770	1.93	3.70	6.33	8.04		24	1.91	10.4	32.5	81.8	699	
Forest/Field/Other	8	35.3	98.2	175	624	2030		24	49.8	221	420	562	2100	
Strait of Georgia														
Commercial/Industrial	6	0.0663	0.110	0.587	2.29	2.39		24	0.380	0.959	1.50	2.37	3.85	
Residential	8	49.8	58.8	71.9	196	361		24	21.7	67.0	89.7	155	352	
Agriculture	8	4.84	12.1	23.3	39.8	50.6		24	12.0	65.1	205	514	4390	
Forest/Field/Other	8	33.6	93.5	167	594	1930		24	47.5	211	400	536	2000	
Whidbey Island														
Commercial/Industrial	6	0.0410	0.0678	0.363	1.42	1.47		24	0.235	0.593	0.929	1.46	2.38	
Residential	8	70.3	83.0	101	276	509		24	30.6	94.5	127	218	497	
Agriculture	8	2.90	7.29	13.9	23.9	30.3		24	7.19	39.1	123	309	2640	
Forest/Field/Other	8	106	296	529	1880	6110		24	150	668	1270	1700	6340	
San Juan Islands														
Commercial/Industrial	6	0.0249	0.0412	0.220	0.860	0.896		24	0.143	0.360	0.564	0.890	1.44	
Residential	8	16.8	19.8	24.2	65.8	121		24	7.30	22.5	30.2	52.0	119	
Agriculture	8	0.628	1.58	3.02	5.17	6.56		24	1.55	8.45	26.5	66.7	570	
Forest/Field/Other	8	5.99	16.7	29.7	106	344		24	8.46	37.6	71.2	95.5	357	
Puget Sound														
Commercial/Industrial	6	1.12	1.85	9.91	38.7	40.3		24	6.42	16.2	25.4	40.0	65.0	
Residential	8	704	832	1020	2770	5110		24	307	947	1270	2190	4980	
Agriculture	8	13.5	33.9	64.8	111	141		24	33.4	182	571	1430	12300	
Forest/Field/Other	8	359	999	1780	6340	20600		24	507	2250	4270	5720	21400	

MT/year: metric tons per year

n: water quality sample size

Non-detect frequency flag

E: 50 percent or more of the data are non-detect values; reported values are considered estimates with relatively low accuracy.

U: All of the data are non-detect values; reported values were computed based on the maximum reporting limit.

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