

Appendix A. Results of Loadest Modeling, Flow-Weighted Concentrations, Yields, Drainage Areas, and Mean Annual Streamflows for Total Nitrogen, Total Phosphorus, and Suspended Sediment for Water Years 1997, 2000, and 2001

Table A1. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 1997.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	3,370	57,900	2,910	3,870	245	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NA	NA	NA	NA	NA	–
5	10663	Mohawk River at Hill Road, OR	NA	NA	NA	NA	NA	–
6	10376	McKenzie River at Coburg Road, OR	NA	NA	NA	NA	NA	–
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	31,200	8,240,000	25,700	37,500	3,020	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	5,930	345,000	4,820	7,210	612	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	1,820	73,200	1,340	2,410	273	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	75,100	57,300,000	60,700	92,000	8,000	365
12	11490	Powder River at Hwy 7 (Baker City), OR	279	499	237	326	22.9	365
13	11478	John Day River at Service Creek, OR	6,310	1,020,000	4,510	8,600	1,050	365
14	10555	Willamette River at Marion Street (Salem), OR	140,000	142,000,000	117,000	167,000	12,600	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	178	38.5	164	192	6.92	365
16	14201300	Zollner Creek near Mt. Angel, OR	3,370	75,900	2,800	4,020	311	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NA	NA	NA	NA	NA	–
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	25,300	406,000	23,800	26,800	763	365
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	2,280	10,800	2,080	2,490	105	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	17,200	795,000	15,400	19,150	955	365
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	2,400	13,200	2,120	2,710	150	365
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	416	2,075	332	516	47.2	365
28	3701391	Tualatin River at Rood Bridge Road, OR	15,300	584,000	13,600	17,200	916	365
29	3701528	Tualatin River at Golf Course Road, OR	4,480	39,700	4,000	5,000	254	365
30	3810015	Gales Creek at New Hwy 47, OR	1,480	5,270	1,310	1,660	89.6	365
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	294,000	344,000,000	256,000	336,000	20,500	365
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	312,000	420,000,000	270,000	359,000	22,500	365
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	295,000	1,240,000,000	230,000	373,000	36,500	365
38	14128910	Columbia River at Warrendale, OR	514,000	997,000,000	453,000	582,000	33,000	365
39	10411	Deschutes River at Deschutes River Park, OR	29,800	899,000,000	4,070	108,000	30,000	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	719,000	6,260,000,000	573,000	892,000	81,500	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	1,180	24,700	887	1,540	167	365
42	12012	Hood River at footbridge downstream of I-84, OR	3,350	143,000	2,650	4,180	392	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	5,690	204,000	4,830	6,660	468	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	868,000	1,110,000,000	799,000	940,000	35,900	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	2,560	17,000	2,290	2,850	144	365
46	32A070	Walla Walla River near Touchet, WA	3,680	43,900	3,250	4,160	235	365
47	13353200	Snake River at Burbank, WA	310,000	180,000,000	283,000	339,000	14,300	365
48	37A090	Yakima River at Kiona, WA	27,300	1,460,000	24,800	30,000	1,300	365
49	12510500	Yakima River at Kiona, WA	29,500	4,100,000	25,600	33,800	2,070	365
50	12505450	Granger Drain at Granger, WA	NA	NA	NA	NA	NA	–

Table A1. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 1997.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	1,230,000	0.80	NC	NA	779
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NC	NC	NC	880	162
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NC	NC	NC	12,000	434
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NC	NC	NC	3,490	6,720
5	10663	Mohawk River at Hill Road, OR	NC	NC	NC	460	883
6	10376	McKenzie River at Coburg Road, OR	NC	NC	NC	NA	6,900
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	11,400,000	.34	3,320	8,890	17,200
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	2,160,000	.91	5,200	1,080	1,210
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NC	NC	NC	239	688
10	10508	Deschutes River at Lower Bridge, OR	663,000	.23	316	5,440	1,460
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	27,400,000	.65	5,650	12,600	21,600
12	11490	Powder River at Hwy 7 (Baker City), OR	102,000	.33	292	902	158
13	11478	John Day River at Service Creek, OR	2,300,000	.36	449	13,300	3,230
14	10555	Willamette River at Marion Street (Salem), OR	51,200,000	.71	6,940	19,100	36,600
15	14200400	Little Abiqua Creek near Scotts Mills, OR	64,800	.68	6,590	25.5	48.7
16	14201300	Zollner Creek near Mt. Angel, OR	1,230,000	12.8	81,900	38.9	48.8
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NC	NC	NC	818	NA
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NC	NC	NC	1,760	4,080
19	3701002	Tualatin River at Weiss Bridge, OR	9,240,000	1.93	13,000	1,840	2,430
20	3840012	Fanno Creek at Durham Road, OR	NC	NC	NC	80.7	–
21	14206950	Fanno Creek near Durham, OR	NC	NC	NC	80.7	–
22	3701715	Tualatin River at Cherry Grove, OR	NC	NC	NC	97.3	292
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	831,000	3.09	15,500	139	137
24	3701333	Tualatin River at Farmington Bridge Road, OR	6,280,000	1.61	11,200	1,460	1,980
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	876,000	.84	6,950	327	530
26	11386	John Day River at Hwy 206, OR	NC	NC	NC	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	152,000	.42	3,810	103	182
28	3701391	Tualatin River at Rood Bridge Road, OR	5,590,000	1.62	11,800	1,230	1,760
29	3701528	Tualatin River at Golf Course Road, OR	1,640,000	.93	7,550	561	893
30	3810015	Gales Creek at New Hwy 47, OR	541,000	.82	7,180	195	335
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	107,000,000	1.01	9,610	28,900	53,800
32	3820012	Rock Creek at Hwy 8, OR	NC	NC	NC	193	–
33	14211720	Willamette River at Portland, OR	114,000,000	1.08	10,200	28,900	53,800
34	3850006	Dawson Creek at Brookwood, OR	NC	NC	NC	9.7	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NC	NC	NC	10.2	–
36	3824072	Bronson Creek at Saltzman, OR	NC	NC	NC	5.23	–
37	10332	Willamette River at SP&S Railroad Bridge (Portland), OR	108,000,000	1.02	NC	NA	53,800
38	14128910	Columbia River at Warrendale, OR	188,000,000	.36	789	616,000	264,000
39	10411	Deschutes River at Deschutes River Park, OR	10,900,000	.69	1,010	27,800	7,970
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	263,000,000	.49	NC	624,000	272,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	431,000	.28	968	1,150	777
42	12012	Hood River at footbridge downstream of I-84, OR	1,220,000	.41	NC	NA	1,520
43	11489	Umatilla River at Westland Road (Hermiston), OR	2,080,000	1.03	NC	NA	1,030
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	317,000,000	.48	1,250	658,000	338,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	934,000	.50	5,980	405	957
46	32A070	Walla Walla River near Touchet, WA	1,340,000	.64	798	4,370	1,060
47	13353200	Snake River at Burbank, WA	317,000,000	.48	1,250	658,000	338,000
48	37A090	Yakima River at Kiona, WA	9,970,000	.83	1,780	14,500	6,070
49	12510500	Yakima River at Kiona, WA	5,380	.90	1,920	14,500	6,070
50	12505450	Granger Drain at Granger, WA	NC	NC	NC	160	–

Table A1. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 1997.—Continued

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Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	162,000	462,000,000	124,000	208,000	21,800	365
52	13351000	Palouse River at Hooper, WA	54,400	15,700,000	45,900	64,000	4,630	365
53	34A070	Palouse River at Hooper, WA	51,900	46,000,000	39,300	67,300	7,150	365
54	41A070	Crab Creek near Beverly, WA	3,630	14,700	3,380	3,880	127	365
55	12471400	Lind Coulee Westway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	2,370	6,810	2,200	2,550	88.1	365
57	10A070	Puyallup River at Meridian Street, WA	9,480	286,000	8,400	10,700	576	365
58	12108500	Newaukum Creek near Black Diamond, WA	1,360	5,230	1,220	1,520	77.1	365
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NA	NA	NA	NA	NA	–
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	829	6,160	676	1,000	84.6	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	1,350	4,540	1,210	1,490	71.9	365
63	09A190	Green River at Kanaskat, WA	1,480	13,600	1,240	1,740	128	365
64	45A070	Wenatchee River at Wenatchee, WA	4,150	54,700	3,680	4,660	251	365
65	12113375	Springbrook Creek at Tukwila, WA	257	49.3	243	272	7.60	365
66	09A080	Green River at Tukwila, WA	5,620	66,200	5,100	6,190	278	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	7,880	169,000	7,030	8,800	451	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NA	NA	NA	NA	NA	–
69	46A070	Entiat River near Entiat, WA	463	2,900	360	585	57.3	365
70	45A110	Wenatchee River near Leavenworth, WA	2,830	80,300	2,270	3,480	308	365
71	16C090	Duckabush River near Brinnon, WA	138	204	107	174	17.0	365
72	12128000	Thorton Creek near Seattle, WA	120	22.1	110	130	5.16	365
73	54A120	Spokane River at Riverside State Park, WA	23,300	1,240,000	21,000	25,700	1,190	365
74	07D050	Snoqualmie River near Monroe, WA	10,400	122,000	9,680	11,200	382	365
75	07C070	Skykomish River at Monroe, WA	5,310	48,900	4,840	5,830	253	365
76	07A090	Snohomish River at Snohomish, WA	23,100	938,000	21,000	25,300	1,090	365
77	53A070	Columbia River at Grand Coulee, WA	153,000	47,400,000	139,000	168,000	7,400	365
78	48A070	Methow River near Pateros, WA	1,780	12,700	1,550	2,030	122	365
79	49A070	Okanogan River at Malott, WA	5,700	194,000	4,840	6,660	465	365
80	48A140	Methow River at Twisp, WA	1,320	9,090	1,120	1,530	104	365
81	03A060	Skagit River near Mount Vernon, WA	20,500	1,180,000	18,200	22,900	1,210	365
82	03B050	Samish River near Burlington, WA	1,750	4,880	1,620	1,900	72.9	365
83	12213140	Nooksack River at Brennan, WA	21,900	2,140,000	18,900	25,100	1,570	365
84	01A050	Nooksack River at Brennan, WA	15,600	561,000	14,000	17,300	812	365
85	12210700	Nooksack River at North Cedarville, WA	10,500	1,020,000	8,490	12,800	1,100	365
86	12400520	Columbia River at Northport, WA	NA	NA	NA	NA	NA	–
87	61A070	Columbia River at Northport, WA	108,000	17,600,000	99,700	117,000	4,370	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	2,370	8,400	2,190	2,570	95.9	365
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NA	NA	NA	NA	NA	–
90	13094000	Snake River near Buhl, ID	67,800	4,880,000	63,400	72,400	2,290	365
91	13154500	Snake River at King Hill, ID	112,000	6,330,000	107,000	117,000	2,690	365
92	13203510	Boise River below Diversion Dam near Boise, ID	6,470	382,000	5,330	7,790	628	365
93	13206000	Boise River at Glenwood, ID	6,190	245,000	5,250	7,240	507	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	745	7,800	572	953	97.4	365
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	NA	NA	NA	NA	NA	–
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NA	NA	NA	NA	NA	–
99	12419000	Spokane River near Post Falls, ID	NA	NA	NA	NA	NA	–
100	13010065	Snake River at Flagg Ranch, WY	3,770	894,000	2,130	6,190	1,050	365

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Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	29,500	0.18	2,260	67,800	164,000
52	13351000	Palouse River at Hooper, WA	9,930	6.32	8,060	6,380	1,600
53	34A070	Palouse River at Hooper, WA	19,000,000	6.03	7,700	6,380	1,600
54	41A070	Crab Creek near Beverly, WA	1,320,000	2.29	3,430	999	293
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NC	NC	NC	1,840	–
56	13A060	Deschutes River at East Street Bridge, WA	866,000	.76	8,410	267	575
57	10A070	Puyallup River at Meridian Street, WA	346,000	.41	3,760	2,380	4,340
58	12108500	Newaukum Creek near Black Diamond, WA	498,000	3.02	18,200	71.1	83.7
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NC	NC	NC	1,190	40.1
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	1,500
61	16A070	Skokomish River near Potlatch, WA	303,000	.10	2,310	339	1,500
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	491,000	1.28	7,350	173	195
63	09A190	Green River at Kanaskat, WA	539,000	.20	2,270	616	1,390
64	45A070	Wenatchee River at Wenatchee, WA	1,520,000	.17	1,140	3,440	4,540
65	12113375	Springbrook Creek at Tukwila, WA	93,900	1.05	4,700	51.7	45.2
66	09A080	Green River at Tukwila, WA	2,050,000	.55	4,300	1,240	1,900
67	12113390	Duwamish River at Golf Course at Tukwila, WA	2,880,000	.68	6,240	1,190	2,150
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NC	NC	NC	147	677
69	46A070	Entiat River near Entiat, WA	169,000	.12	407	1,070	700
70	45A110	Wenatchee River near Leavenworth, WA	1,030,000	.13	1,550	1,720	4,190
71	16C090	Duckabush River near Brinnon, WA	50,300	.05	757	172	507
72	12128000	Thorton Creek near Seattle, WA	43,800	1.75	3,880	29.2	12.7
73	54A120	Spokane River at Riverside State Park, WA	8,500,000	.42	1,700	13,000	10,400
74	07D050	Snoqualmie River near Monroe, WA	3,800,000	.38	5,550	1,770	5,040
75	07C070	Skykomish River at Monroe, WA	1,940,000	.18	2,530	1,980	5,580
76	07A090	Snohomish River at Snohomish, WA	8,440,000	.32	4,930	4,440	13,300
77	53A070	Columbia River at Grand Coulee, WA	55,700,000	.20	5,000	28,900	155,000
78	48A070	Methow River near Pateros, WA	650,100	.16	362	4,660	2,130
79	49A070	Okanogan River at Malott, WA	2,080,000	.21	1,200	4,500	5,120
80	48A140	Methow River at Twisp, WA	480,000	.13	363	3,430	1,920
81	03A060	Skagit River near Mount Vernon, WA	7,470,000	.17	3,210	6,020	21,800
82	03B050	Samish River near Burlington, WA	641,000	.96	7,430	223	340
83	12213140	Nooksack River at Brennan, WA	7,980,000	.42	10,200	2,020	9,720
84	01A050	Nooksack River at Brennan, WA	5,700,000	.55	7,730	1,910	5,280
85	12210700	Nooksack River at North Cedarville, WA	3,820,000	.45	6,500	1,520	4,340
86	12400520	Columbia River at Northport, WA	NC	NC	NC	156,000	131,000
87	61A070	Columbia River at Northport, WA	39,400,000	.15	650	156,000	131,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	870,000	4.03	22,700	98.6	109
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NC	NC	NC	623	175
90	13094000	Snake River near Buhl, ID	24,700,000	1.14	842	76,100	11,100
91	13154500	Snake River at King Hill, ID	40,800,000	1.22	1,140	92,900	16,900
92	13203510	Boise River below Diversion Dam near Boise, ID	2,360,000	.32	877	6,980	3,690
93	13206000	Boise River at Glenwood, ID	2,260,000	.34	814	7,180	3,380
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	272,000	.33	3,200	220	416
95	12414900	St. Maries River near Santa, ID	NC	NC	NC	706	–
96	12414500	St. Joe River at Calder, ID	NC	NC	NC	2,680	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	NC	NC	NC	738	846
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NC	NC	NC	2,330	2,740
99	12419000	Spokane River near Post Falls, ID	NC	NC	NC	10,200	10,300
100	13010065	Snake River at Flagg Ranch, WY	1,370,000	.45	2,690	1,320	1,540

Table A2. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 1997.

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Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	515	3,960	401	652	64.1	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	2,060	60,700	1,620	2,590	250	365
5	10663	Mohawk River at Hill Road, OR	307	1,520	235	395	40.8	365
6	10376	McKenzie River at Coburg Road, OR	2,300	41,400	1,920	2,740	209	365
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	9,750	896,000	7,940	11,800	999	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	668	3,240	559	791	59.1	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	124	26.9	114	135	5.35	365
10	10508	Deschutes River at Lower Bridge, OR	547	815	492	606	29.1	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	14,100	1,420,000	11,700	16,700	1,260	365
12	11490	Powder River at Hwy 7 (Baker City), OR	55.8	53.6	42.5	71.8	7.50	365
13	11478	John Day River at Service Creek, OR	1,750	78,400	1,250	2,396	294	365
14	10555	Willamette River at Marion Street (Salem), OR	24,400	3,950,000	20,518	28,800	2,110	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	6.38	.92	4.60	8.62	1.03	365
16	14201300	Zollner Creek near Mt. Angel, OR	155	398	111	211	25.6	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NA	NA	NA	NA	NA	–
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	2,110	9,370	1,890	2,350	117	365
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	72.2	118	51.5	98.4	12.0	365
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	189	1,960	116	292	45.0	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	1,580	17,600	1,312	1,880	145	365
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	240	248	204	281	19.7	365
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	29.2	142	12.3	59.0	12.2	365
28	3701391	Tualatin River at Rood Bridge Road, OR	1,070	1,830	973	1,180	51.5	365
29	3701528	Tualatin River at Golf Course Road, OR	482	541	428	540	28.5	365
30	3810015	Gales Creek at New Hwy 47, OR	235	166	204	268	16.3	365
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	41,500	2,920,000	37,910	45,400	1,910	365
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	43,300	13,900,000	35,600	52,000	4,160	365
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	42,500	9,730,000	36,600	49,200	3,240	365
38	14128910	Columbia River at Warrendale, OR	54,300	28,800,000	43,900	66,400	5,750	365
39	10411	Deschutes River at Deschutes River Park, OR	6,260	97,400,000	374	30,000	9,870	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	162,000	500,000,000	122,000	211,000	22,700	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	245	351	207	287	20.2	365
42	12012	Hood River at footbridge downstream of I-84, OR	803	71,600	389	1,480	282	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	1,300	49,900	897	1,820	235	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	111,000	76,900,000	94,000	131,300	9,530	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	137	506	93.7	194	25.6	365
46	32A070	Walla Walla River near Touchet, WA	774	12,600	563	1,040	121	365
47	13353200	Snake River at Burbank, WA	31,900	7,290,000	26,600	38,000	2,900	365
48	37A090	Yakima River at Kiona, WA	4,760	88,800	4,170	5,410	315	365
49	12510500	Yakima River at Kiona, WA	6,320	743,000	4,780	8,210	876	365
50	12505450	Granger Drain at Granger, WA	NA	NA	NA	NA	NA	–

Table A2. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 1997.—Continued

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2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	2,060	60,700	1,620	2,590	250	365
5	10663	Mohawk River at Hill Road, OR	307	1,520	235	395	40.8	365
6	10376	McKenzie River at Coburg Road, OR	2,300	41,400	1,920	2,740	209	365
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	9,750	896,000	7,940	11,800	999	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	668	3,240	559	791	59.1	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	124	26.9	114	135	5.35	365
10	10508	Deschutes River at Lower Bridge, OR	547	815	492	606	29.1	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	14,100	1,420,000	11,700	16,700	1,260	365
12	11490	Powder River at Hwy 7 (Baker City), OR	55.8	53.6	42.5	71.8	7.50	365
13	11478	John Day River at Service Creek, OR	1,750	78,400	1,250	2,396	294	365
14	10555	Willamette River at Marion Street (Salem), OR	24,400	3,950,000	20,518	28,800	2,110	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	6.38	.92	4.60	8.62	1.03	365
16	14201300	Zollner Creek near Mt. Angel, OR	155	398	111	211	25.6	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NA	NA	NA	NA	NA	–
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	2,110	9,370	1,890	2,350	117	365
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	72.2	118	51.5	98.4	12.0	365
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	189	1,960	116	292	45.0	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	1,580	17,600	1,312	1,880	145	365
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	240	248	204	281	19.7	365
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	29.2	142	12.3	59.0	12.2	365
28	3701391	Tualatin River at Rood Bridge Road, OR	1,070	1,830	973	1,180	51.5	365
29	3701528	Tualatin River at Golf Course Road, OR	482	541	428	540	28.5	365
30	3810015	Gales Creek at New Hwy 47, OR	235	166	204	268	16.3	365
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	41,500	2,920,000	37,910	45,400	1,910	365
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	43,300	13,900,000	35,600	52,000	4,160	365
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	42,500	9,730,000	36,600	49,200	3,240	365
38	14128910	Columbia River at Warrendale, OR	54,300	28,800,000	43,900	66,400	5,750	365
39	10411	Deschutes River at Deschutes River Park, OR	6,260	97,400,000	374	30,000	9,870	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	162,000	500,000,000	122,000	211,000	22,700	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	245	351	207	287	20.2	365
42	12012	Hood River at footbridge downstream of I-84, OR	803	71,600	389	1,480	282	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	1,300	49,900	897	1,820	235	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	111,000	76,900,000	94,000	131,300	9,530	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	137	506	93.7	194	25.6	365
46	32A070	Walla Walla River near Touchet, WA	774	12,600	563	1,040	121	365
47	13353200	Snake River at Burbank, WA	31,900	7,290,000	26,600	38,000	2,900	365
48	37A090	Yakima River at Kiona, WA	4,760	88,800	4,170	5,410	315	365
49	12510500	Yakima River at Kiona, WA	6,320	743,000	4,780	8,210	876	365
50	12505450	Granger Drain at Granger, WA	NA	NA	NA	NA	NA	–

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Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	12,100	5,320,000	8,090	17,500	2,420	365
52	13351000	Palouse River at Hooper, WA	5,500	699,000	3,700	7,860	1,070	365
53	34A070	Palouse River at Hooper, WA	2,110	126,000	1,470	2,930	373	365
54	41A070	Crab Creek near Beverly, WA	156	94	137	177	10.2	365
55	12471400	Lind Coulee Westway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	214	701	163	275	28.7	365
57	10A070	Puyallup River at Meridian Street, WA	3,180	400,000	2,000	4,810	723	365
58	12108500	Newaukum Creek near Black Diamond, WA	157	848	102	231	32.8	365
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NA	NA	NA	NA	NA	NA
60	12061500	Skokomish River near Potlatch, WA	893	187,000	209	2,540	632	365
61	16A070	Skokomish River near Potlatch, WA	451	15,300	243	768	135	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	67.6	196	42.5	102	15.4	365
63	09A190	Green River at Kanaskat, WA	199	441	158	248	22.8	365
64	45A070	Wenatchee River at Wenatchee, WA	769	13,700	551	1,040	126	365
65	12113375	Springbrook Creek at Tukwila, WA	40.7	9.32	34.6	47.56	3.31	365
66	09A080	Green River at Tukwila, WA	787	4,200	657	934	70.8	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	1,000	10,600	790	1,254	119	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	80.2	684	34.3	161	32.9	365
69	46A070	Entiat River near Entiat, WA	152	728	103	216	28.9	365
70	45A110	Wenatchee River near Leavenworth, WA	573	10,200	390	813	109	365
71	16C090	Duckabush River near Brinnon, WA	60.3	719	23.1	130	28.0	365
72	12128000	Thorton Creek near Seattle, WA	8.25	1.98	5.48	11.94	1.66	365
73	54A120	Spokane River at Riverside State Park, WA	2,410	70,900	1,900	3,020	286	365
74	07D050	Snoqualmie River near Monroe, WA	958	9,210	762	1,190	109	365
75	07C070	Skykomish River at Monroe, WA	734	9,900	542	973	110	365
76	07A090	Snohomish River at Snohomish, WA	2,450	72,300	1,920	3,080	297	365
77	53A070	Columbia River at Grand Coulee, WA	14,500	5,740,000	10,000	20,300	2,620	365
78	48A070	Methow River near Pateros, WA	475	8,830	306	706	102	365
79	49A070	Okanogan River at Malott, WA	2,220	129,000	1,570	3,050	381	365
80	48A140	Methow River at Twisp, WA	331	4,720	208	500	75.1	365
81	03A060	Skagit River near Mount Vernon, WA	5,600	795,000	3,870	7,830	1,010	365
82	03B050	Samish River near Burlington, WA	111	280	80.5	148	17.4	365
83	12213140	Nooksack River at Brennan, WA	6,200	2,320,000	3,510	10,160	1,710	365
84	01A050	Nooksack River at Brennan, WA	5,550	1,790,000	3,120	9,160	1,550	365
85	12210700	Nooksack River at North Cedarville, WA	4,530	9,170,000	1,030	13,100	3,270	365
86	12400520	Columbia River at Northport, WA	6,770	956,000	4,970	9,000	1,030	365
87	61A070	Columbia River at Northport, WA	9,800	1,500,000	7,470	12,600	1,320	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	64.0	321	34.2	110	19.5	365
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NA	NA	NA	NA	NA	–
90	13094000	Snake River near Buhl, ID	6,090	419,000	4,880	7,520	674	365
91	13154500	Snake River at King Hill, ID	7,750	346,000	6,620	9,020	612	365
92	13203510	Boise River below Diversion Dam near Boise, ID	NA	NA	NA	NA	NA	NA
93	13206000	Boise River at Glenwood, ID	843	12,900	638	1,090	116	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	19.1	3.64	15.2	23.80	2.21	365
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	194	626	144	255	28.2	365
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	450	77,709	286	676	100	365
99	12419000	Spokane River near Post Falls, ID	NA	NA	NA	NA	NA	–
100	13010065	Snake River at Flag Ranch, WY	1,230	138,000	614	2,210	413	365

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51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	12,100	5,320,000	8,090	17,500	2,420	365
52	13351000	Palouse River at Hooper, WA	5,500	699,000	3,700	7,860	1,070	365
53	34A070	Palouse River at Hooper, WA	2,110	126,000	1,470	2,930	373	365
54	41A070	Crab Creek near Beverly, WA	156	94	137	177	10.2	365
55	12471400	Lind Coulee Westway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	214	701	163	275	28.7	365
57	10A070	Puyallup River at Meridian Street, WA	3,180	400,000	2,000	4,810	723	365
58	12108500	Newaukum Creek near Black Diamond, WA	157	848	102	231	32.8	365
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NA	NA	NA	NA	NA	NA
60	12061500	Skokomish River near Potlatch, WA	893	187,000	209	2,540	632	365
61	16A070	Skokomish River near Potlatch, WA	451	15,300	243	768	135	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	67.6	196	42.5	102	15.4	365
63	09A190	Green River at Kanaskat, WA	199	441	158	248	22.8	365
64	45A070	Wenatchee River at Wenatchee, WA	769	13,700	551	1,040	126	365
65	12113375	Springbrook Creek at Tukwila, WA	40.7	9.32	34.6	47.56	3.31	365
66	09A080	Green River at Tukwila, WA	787	4,200	657	934	70.8	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	1,000	10,600	790	1,254	119	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	80.2	684	34.3	161	32.9	365
69	46A070	Entiat River near Entiat, WA	152	728	103	216	28.9	365
70	45A110	Wenatchee River near Leavenworth, WA	573	10,200	390	813	109	365
71	16C090	Duckabush River near Brinnon, WA	60.3	719	23.1	130	28.0	365
72	12128000	Thorton Creek near Seattle, WA	8.25	1.98	5.48	11.94	1.66	365
73	54A120	Spokane River at Riverside State Park, WA	2,410	70,900	1,900	3,020	286	365
74	07D050	Snoqualmie River near Monroe, WA	958	9,210	762	1,190	109	365
75	07C070	Skykomish River at Monroe, WA	734	9,900	542	973	110	365
76	07A090	Snohomish River at Snohomish, WA	2,450	72,300	1,920	3,080	297	365
77	53A070	Columbia River at Grand Coulee, WA	14,500	5,740,000	10,000	20,300	2,620	365
78	48A070	Methow River near Pateros, WA	475	8,830	306	706	102	365
79	49A070	Okanogan River at Malott, WA	2,220	129,000	1,570	3,050	381	365
80	48A140	Methow River at Twisp, WA	331	4,720	208	500	75.1	365
81	03A060	Skagit River near Mount Vernon, WA	5,600	795,000	3,870	7,830	1,010	365
82	03B050	Samish River near Burlington, WA	111	280	80.5	148	17.4	365
83	12213140	Nooksack River at Brennan, WA	6,200	2,320,000	3,510	10,160	1,710	365
84	01A050	Nooksack River at Brennan, WA	5,550	1,790,000	3,120	9,160	1,550	365
85	12210700	Nooksack River at North Cedarville, WA	4,530	9,170,000	1,030	13,100	3,270	365
86	12400520	Columbia River at Northport, WA	6,770	956,000	4,970	9,000	1,030	365
87	61A070	Columbia River at Northport, WA	9,800	1,500,000	7,470	12,600	1,320	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	64.0	321	34.2	110	19.5	365
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NA	NA	NA	NA	NA	–
90	13094000	Snake River near Buhl, ID	6,090	419,000	4,880	7,520	674	365
91	13154500	Snake River at King Hill, ID	7,750	346,000	6,620	9,020	612	365
92	13203510	Boise River below Diversion Dam near Boise, ID	NA	NA	NA	NA	NA	NA
93	13206000	Boise River at Glenwood, ID	843	12,900	638	1,090	116	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	19.1	3.64	15.2	23.80	2.21	365
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	194	626	144	255	28.2	365
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	450	77,709	286	676	100	365
99	12419000	Spokane River near Post Falls, ID	NA	NA	NA	NA	NA	–
100	13010065	Snake River at Flag Ranch, WY	1,230	138,000	614	2,210	413	365

Table A3. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 1997.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; ton/yr, ton per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	39.1	28.5	29.4	50.9	5.50	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	80.6	450	46.3	131	21.7	365
5	10663	Mohawk River at Hill Road, OR	71.1	650	32.3	137	27.1	365
6	10376	McKenzie River at Coburg Road, OR	267	12,900	108	556	117	365
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	1,150	66,200	709	1,780	274	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	121	851	72.0	191	30.5	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	9.9	2.27	7.2	13.3	1.55	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	2,080	239,000	1,240	3,280	523	365
12	11490	Powder River at Hwy 7 (Baker City), OR	7.01	3.03	4.2	11.1	1.78	365
13	11478	John Day River at Service Creek, OR	321	22,600	113	725	161	365
14	10555	Willamette River at Marion Street (Salem), OR	3,780	597,000	2,410	5,640	828	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	1.92	.16	1.2	2.92	.44	365
16	14201300	Zollner Creek near Mt. Angel, OR	36.9	97.2	15.3	75.3	15.6	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NA	NA	NA	NA	NA	–
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	NA	NA	NA	NA	NA	–
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	69.9	4,020	10.5	244	66.4	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	NA	NA	NA	NA	NA	–
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NA	NA	NA	NA	NA	–
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NA	NA	NA	NA	NA	–
28	3701391	Tualatin River at Rood Bridge Road, OR	NA	NA	NA	NA	NA	–
29	3701528	Tualatin River at Golf Course Road, OR	NA	NA	NA	NA	NA	–
30	3810015	Gales Creek at New Hwy 47, OR	NA	NA	NA	NA	NA	–
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	6,430	823,000	4,600	8,770	1,070	365
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	18,900	6,960,000	13,700	25,400	3,010	365
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	9,300	4,440,000	5,700	14,300	2,220	365
38	14128910	Columbia River at Warrendale, OR	19,600	3,390,000	16,100	23,700	1,950	365
39	10411	Deschutes River at Deschutes River Park, OR	439	31,500	184	891	184	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	32,000	101,000,000	16,600	56,100	10,200	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	25.6	529	4.1	87.0	23.4	365
42	12012	Hood River at footbridge downstream of I-84, OR	61.1	1,100	18.4	152	35.5	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	1,100	150,000	442	2,290	482	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	58,800	29,900,000	47,700	71,800	6,150	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	33.7	83.1	16.9	60.4	11.2	365
46	32A070	Walla Walla River near Touchet, WA	477	111,000	104	1,410	355	365
47	13353200	Snake River at Burbank, WA	5,120	221,000	4,190	6,190	510	365
48	37A090	Yakima River at Kiona, WA	2,430	165,000	1,690	3,390	435	365
49	12510500	Yakima River at Kiona, WA	4,520	1,710,000	2,460	7,640	1,330	365
50	12505450	Granger Drain at Granger, WA	NA	NA	NA	NA	NA	–

Table A3. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 1997.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; ton/yr, ton per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	14,300	18.6	NC	NA	779
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NC	NC	NC	880	162
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NC	NC	NC	12,000	434
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	29,400	4.45	21.9	3,490	6,720
5	10663	Mohawk River at Hill Road, OR	25,900	29.9	146	460	883
6	10376	McKenzie River at Coburg Road, OR	97,500	14.4	NC	NA	6,900
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	421,000	24.9	123	8,890	17,200
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	44,100	37.0	106	1,080	1,210
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NC	NC	NC	239	688
10	10508	Deschutes River at Lower Bridge, OR	3,610	2.51	1.72	5,440	1,460
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	760,000	35.8	157	12,600	21,600
12	11490	Powder River at Hwy 7 (Baker City), OR	2,560	16.4	7.35	902	158
13	11478	John Day River at Service Creek, OR	117,000	36.8	22.8	13,300	3,230
14	10555	Willamette River at Marion Street (Salem), OR	1,380,000	38.3	187	19,100	36,600
15	14200400	Little Abiqua Creek near Scotts Mills, OR	700	14.6	71.1	25.5	48.7
16	14201300	Zollner Creek near Mt. Angel, OR	13,500	365	13,500	38.9	48.8
17	10640	Pudding River at Hwy 211 (Woodburn), OR	NC	NC	NC	818	–
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NC	NC	NC	1,760	4,080
19	3701002	Tualatin River at Weiss Bridge, OR	NC	NC	NC	1,840	2,430
20	3840012	Fanno Creek at Durham Road, OR	NC	NC	NC	80.7	–
21	14206950	Fanno Creek near Durham, OR	NC	NC	NC	80.7	–
22	3701715	Tualatin River at Cherry Grove, OR	NC	NC	NC	97.3	292
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	25,500	190	476	139	137
24	3701333	Tualatin River at Farmington Bridge Road, OR	NC	NC	NC	1,460	1,990
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NC	NC	NC	327	530
26	11386	John Day River at Hwy 206, OR	NC	NC	NC	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NC	NC	NC	103	182
28	3701391	Tualatin River at Rood Bridge Road, OR	NC	NC	NC	1,230	1,760
29	3701528	Tualatin River at Golf Course Road, OR	NC	NC	NC	561	893
30	3810015	Gales Creek at New Hwy 47, OR	NC	NC	NC	195	335
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	2,350,000	44.4	210	29,000	53,800
32	3820012	Rock Creek at Hwy 8, OR	NC	NC	NC	193	–
33	14211720	Willamette River at Portland, OR	6,890,000	130	617	29,000	53,800
34	3850006	Dawson Creek at Brookwood, OR	NC	NC	NC	9.7	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NC	NC	NC	10.2	–
36	3824072	Bronson Creek at Saltzman, OR	NC	NC	NC	5.23	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	3,390,000	64.1	NC	NA	53,800
38	14128910	Columbia River at Warrendale, OR	7,160,000	27.6	30.1	616,000	264,000
39	10411	Deschutes River at Deschutes River Park, OR	160,000	20.4	14.9	28,800	7,970
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	11,700,000	43.7	NC	NA	272,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	9,330	12.2	21.0	1,150	777
42	12012	Hood River at footbridge downstream of I-84, OR	22,300	14.9	NC	NA	1,520
43	11489	Umatilla River at Westland Road (Hermiston), OR	401,000	397	NC	NA	1,030
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	21,500,000	64.5	84.5	658,000	338,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	12,300	13.1	78.7	405	957
46	32A070	Walla Walla River near Touchet, WA	174,000	166	103	4,370	1,060
47	13353200	Snake River at Burbank, WA	1,870,000	22.5	18.4	262,000	84,200
48	37A090	Yakima River at Kiona, WA	888,000	149	158	14,500	6,070
49	12510500	Yakima River at Kiona, WA	1,650,000	276	294	14,500	6,070
50	12505450	Granger Drain at Granger, WA	NC	NC	NC	160	–

Table A3. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 1997.—Continued

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Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	2,020	56,400	1,580	2,550	248	365
52	13351000	Palouse River at Hooper, WA	10,800	9,240,000	3,410	26,200	6,020	365
53	34A070	Palouse River at Hooper, WA	3,390	3,100,000	946	8,790	2,100	365
54	41A070	Crab Creek near Beverly, WA	33.1	6.77	27.9	38.9	2.81	365
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	107	1,360	47.5	209	42.0	365
57	10A070	Puyallup River at Meridian Street, WA	3,520	3,590,000	951	9,300	2,240	365
58	12108500	Newaukum Creek near Black Diamond, WA	5.92	1.87	3.5	9.38	1.51	365
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NA	NA	NA	NA	NA	–
60	12061500	Skokomish River near Potlatch, WA	1,840	1,032,417	268	6,520	1,790	365
61	16A070	Skokomish River near Potlatch, WA	1,360	842,000	281	4,120	1,050	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	38.8	253	14.4	85.1	18.5	365
63	09A190	Green River at Kanaskat, WA	55.0	89.2	36.2	80.0	11.2	365
64	45A070	Wenatchee River at Wenatchee, WA	406	11,400	224	680	118	365
65	12113375	Springbrook Creek at Tukwila, WA	5.39	.95	3.5	8.01	1.17	365
66	09A080	Green River at Tukwila, WA	218	943	157	295	35.3	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	525	5,910	370	725	91.0	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	43.6	343	14.3	103	23.3	365
69	46A070	Entiat River near Entiat, WA	43.8	61.6	28.8	63.9	8.98	365
70	45A110	Wenatchee River near Leavenworth, WA	165	1,250	102	254	39.1	365
71	16C090	Duckabush River near Brinnon, WA	34.2	1,520	3.5	139	40.9	365
72	12128000	Thorton Creek near Seattle, WA	2.39	1.22	.7	6.02	1.41	365
73	54A120	Spokane River at Riverside State Park, WA	393	13,300	202	691	126	365
74	07D050	Snoqualmie River near Monroe, WA	581	11,500	360	888	136	365
75	07C070	Skykomish River at Monroe, WA	520	18,300	261	933	174	365
76	07A090	Snohomish River at Snohomish, WA	1,520	54,300	1,050	2,130	275	365
77	53A070	Columbia River at Grand Coulee, WA	679	7,250	522	869	88.8	365
78	48A070	Methow River near Pateros, WA	204	2,330	118	328	54.0	365
79	49A070	Okanogan River at Malott, WA	961	13,600	724	1,250	134	365
80	48A140	Methow River at Twisp, WA	118	822	67.6	193	32.3	365
81	03A060	Skagit River near Mount Vernon, WA	4,550	1,130,000	2,610	7,400	1,230	365
82	03B050	Samish River near Burlington, WA	31.1	43.0	19.0	48.1	7.48	365
83	12213140	Nooksack River at Brennan, WA	6,690	1,570,000	4,340	9,880	1,420	365
84	01A050	Nooksack River at Brennan, WA	4,280	1,460,000	2,190	7,590	1,400	365
85	12210700	Nooksack River at North Cedarville, WA	7,260	11,900,000	2,220	17,900	4,150	365
86	12400520	Columbia River at Northport, WA	3,600	390,000	2,480	5,050	659	365
87	61A070	Columbia River at Northport, WA	2,100	169,000	1,390	3,040	424	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	14.8	11.4	9.0	22.9	3.58	365
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NA	NA	NA	NA	NA	–
90	13094000	Snake River near Buhl, ID	2,100	219,000	1,280	3,160	482	365
91	13154500	Snake River at King Hill, ID	2,140	129,000	1,500	2,960	373	365
92	13203510	Boise River below Diversion Dam near Boise, ID	78.0	392	45.6	125	20.4	365
93	13206000	Boise River at Glenwood, ID	311	7,480	173	518	88.8	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NA	NA	NA	NA	NA	–
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	NA	NA	NA	NA	NA	–
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	333	8,270	168	593	110	365
99	12419000	Spokane River near Post Falls, ID	NA	NA	NA	NA	NA	–
100	13010065	Snake River at Flagg Ranch, WY	1,740	245,000	881	3,100	572	365

Table A3. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 1997.—Continued

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Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	737,000	4.56	28.2	67,800	164,000
52	13351000	Palouse River at Hooper, WA	3,940,000	2,510	1,601	6,380	1,600
53	34A070	Palouse River at Hooper, WA	1,240,000	788	503	6,380	1,600
54	41A070	Crab Creek near Beverly, WA	12,100	41.9	31.3	999	293
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NC	NC	NC	1,840	–
56	13A060	Deschutes River at East Street Bridge, WA	39,100	69.0	380	267	575
57	10A070	Puyallup River at Meridian Street, WA	1,290,000	301	1,400	2,380	4,340
58	12108500	Newaukum Creek near Black Diamond, WA	2,160	26.2	78.8	71.1	83.7
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	NC	NC	NC	1,190	40.1
60	12061500	Skokomish River near Potlatch, WA	672,000	455	5,130	339	1,500
61	16A070	Skokomish River near Potlatch, WA	497,000	336	3,790	339	1,500
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	14,200	73.8	212	173	195
63	09A190	Green River at Kanaskat, WA	20,100	14.6	84.4	616	1,390
64	45A070	Wenatchee River at Wenatchee, WA	148,000	33.2	112	3,440	4,540
65	12113375	Springbrook Creek at Tukwila, WA	1,970	44.2	98.6	51.7	45.2
66	09A080	Green River at Tukwila, WA	79,600	42.5	167	1,240	1,900
67	12113390	Duwamish River at Golf Course at Tukwila, WA	192,000	90.5	416	1,190	2,150
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	15,900	23.8	280	147	677
69	46A070	Entiat River near Entiat, WA	16,000	23.2	38.6	1,080	700
70	45A110	Wenatchee River near Leavenworth, WA	60,300	14.6	90.8	1,720	4,190
71	16C090	Duckabush River near Brinnon, WA	12,500	25.0	188	172	507
72	12128000	Thorton Creek near Seattle, WA	874	69.9	77.5	29.2	12.7
73	54A120	Spokane River at Riverside State Park, WA	143,000	14.1	28.7	13,000	10,400
74	07D050	Snoqualmie River near Monroe, WA	212,000	42.7	310	1,770	5,040
75	07C070	Skykomish River at Monroe, WA	190,000	34.5	248	1,980	5,580
76	07A090	Snohomish River at Snohomish, WA	555,000	42.4	324	4,440	13,300
77	53A070	Columbia River at Grand Coulee, WA	248,000	1.74	22.2	28,900	145,000
78	48A070	Methow River near Pateros, WA	74,400	35.5	41.4	4,660	2,130
79	49A070	Okanogan River at Malott, WA	351,000	69.6	202	4,500	5,120
80	48A140	Methow River at Twisp, WA	43,200	22.8	32.7	3,430	1,920
81	03A060	Skagit River near Mount Vernon, WA	1,660,000	77.3	715	6,020	21,800
82	03B050	Samish River near Burlington, WA	11,400	33.9	132	223	340
83	12213140	Nooksack River at Brennan, WA	2,440,000	255	3,130	2,020	9,720
84	01A050	Nooksack River at Brennan, WA	1,560,000	301	2,120	1,910	5,280
85	12210700	Nooksack River at North Cedarville, WA	2,650,000	621	4,500	1,530	4,340
86	12400520	Columbia River at Northport, WA	1,310,000	10.2	21.7	156,000	131,000
87	61A070	Columbia River at Northport, WA	765,000	5.95	12.7	156,000	131,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	5,400	50.3	142	98.6	109
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	NC	NC	NC	623	175
90	13094000	Snake River near Buhl, ID	754,000	69.2	25.6	76,100	11,100
91	13154500	Snake River at King Hill, ID	782,000	46.9	21.8	92,900	16,900
92	13203510	Boise River below Diversion Dam near Boise, ID	28,500	7.83	10.6	6,980	3,690
93	13206000	Boise River at Glenwood, ID	114,000	34.1	41.0	7,180	3,380
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NC	NC	NC	220	416
95	12414900	St. Maries River near Santa, ID	NC	NC	NC	706	–
96	12414500	St. Joe River at Calder, ID	NC	NC	NC	2,680	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	NC	NC	NC	738	846
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	122,000	45.0	135	2,320	2,740
99	12419000	Spokane River near Post Falls, ID	NC	NC	NC	10,200	10,300
100	13010065	Snake River at Flag Ranch, WY	635,000	419	1,240	1,320	1,540

Table A4. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2000.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	1,730	4,100	1,600	1,870	67.6	366
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NA	NA	NA	NA	NA	–
5	10663	Mohawk River at Hill Road, OR	NA	NA	NA	NA	NA	–
6	10376	McKenzie River at Coburg Road, OR	NA	NA	NA	NA	NA	–
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	15,800	809,000	13,900	17,800	991	366
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	3,040	55,200	2,580	3,560	250	366
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	1,220	18,400	974	1,510	137	366
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	38,100	5,060,000	33,400	43,300	2,540	366
12	11490	Powder River at Hwy 7 (Baker City), OR	213	154	189	240	13.0	366
13	11478	John Day River at Service Creek, OR	2,490	58,700	2,020	3,040	260	366
14	10555	Willamette River at Marion Street (Salem), OR	65,900	10,600,000	59,000	73,400	3,670	366
15	14200400	Little Abiqua Creek near Scotts Mills, OR	129	16.0	120	138	4.66	366
16	14201300	Zollner Creek near Mt. Angel, OR	1,330	4,900	1,170	1,510	87.1	366
17	10640	Pudding River at Hwy 211 (Woodburn), OR	11,700	1,170,000	9,660	14,100	1,140	366
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	16,600	92,800	15,800	17,300	392	366
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	1,300	838	1,240	1,360	30.3	366
24	3701333	Tualatin River at Farmington Bridge Road, OR	10,500	180,000	9,630	11,400	460	366
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	1,400	3,170	1,250	1,560	77.8	366
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	187	50.3	172	203	7.92	366
28	3701391	Tualatin River at Rood Bridge Road, OR	7,190	82,600	6,500	7,920	362	366
29	3701528	Tualatin River at Golf Course Road, OR	2,560	8,710	2,320	2,820	128	365
30	3810015	Gales Creek at New Hwy 47, OR	842	993	756	934	45.6	366
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	152,000	53,100,000	136,000	168,000	8,270	366
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	160,000	38,000,000	146,000	175,000	7,340	366
34	3850006	Dawson Creek at Brookwood, OR	39.8	2.44	36.3	43.6	1.88	366
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	20.1	.47	18.5	21.8	.84	366
36	3824072	Bronson Creek at Saltzman, OR	7.51	.05	6.96	8.09	.29	366
37	10332	Willamette River at SP&S Railroad Bridge, OR	157,000	132,000,000	134,000	182,000	12,200	366
38	14128910	Columbia River at Warrendale, OR	424,000	1,030,000,000	363,000	493,000	33,000	366
39	10411	Deschutes River at Deschutes River Park, OR	10,600	332,000	9,430	11,800	604	366
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	455,000	1,120,000,000	389,000	529,000	35,600	366
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	766	6,700	608	951	87.7	366
42	12012	Hood River at footbridge downstream of I-84, OR	NA	NA	NA	NA	NA	–
43	11489	Umatilla River at Westland Road (Hermiston), OR	3,980	52,400	3,530	4,480	243	366
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	572,000	423,000,000	529,000	617,000	22,300	366
45	27D090	East Fork Lewis River near Dollar Corner, WA	1,850	8,740	1,650	2,060	105	366
46	32A070	Walla Walla River near Touchet, WA	2,430	15,900	2,160	2,730	145	366
47	13353200	Snake River at Burbank, WA	171,000	56,900,000	156,000	187,000	7,970	366
48	37A090	Yakima River at Kiona, WA	19,400	489,000	17,900	21,000	780	366
49	12510500	Yakima River at Kiona, WA	21,000	817,000	19,200	22,900	955	366
50	12505450	Granger Drain at Granger, WA	816	645	766	868	26.2	366

Table A4. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	1,730	4,100	1,600	1,870	67.6	366
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NA	NA	NA	NA	NA	–
5	10663	Mohawk River at Hill Road, OR	NA	NA	NA	NA	NA	–
6	10376	McKenzie River at Coburg Road, OR	NA	NA	NA	NA	NA	–
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	15,800	809,000	13,900	17,800	991	366
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	3,040	55,200	2,580	3,560	250	366
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	1,220	18,400	974	1,510	137	366
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	38,100	5,060,000	33,400	43,300	2,540	366
12	11490	Powder River at Hwy 7 (Baker City), OR	213	154	189	240	13.0	366
13	11478	John Day River at Service Creek, OR	2,490	58,700	2,020	3,040	260	366
14	10555	Willamette River at Marion Street (Salem), OR	65,900	10,600,000	59,000	73,400	3,670	366
15	14200400	Little Abiqua Creek near Scotts Mills, OR	129	16.0	120	138	4.66	366
16	14201300	Zollner Creek near Mt. Angel, OR	1,330	4,900	1,170	1,510	87.1	366
17	10640	Pudding River at Hwy 211 (Woodburn), OR	11,700	1,170,000	9,660	14,100	1,140	366
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	16,600	92,800	15,800	17,300	392	366
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	1,300	838	1,240	1,360	30.3	366
24	3701333	Tualatin River at Farmington Bridge Road, OR	10,500	180,000	9,630	11,400	460	366
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	1,400	3,170	1,250	1,560	77.8	366
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	187	50.3	172	203	7.92	366
28	3701391	Tualatin River at Rood Bridge Road, OR	7,190	82,600	6,500	7,920	362	366
29	3701528	Tualatin River at Golf Course Road, OR	2,560	8,710	2,320	2,820	128	365
30	3810015	Gales Creek at New Hwy 47, OR	842	993	756	934	45.6	366
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	152,000	53,100,000	136,000	168,000	8,270	366
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	160,000	38,000,000	146,000	175,000	7,340	366
34	3850006	Dawson Creek at Brookwood, OR	39.8	2.44	36.3	43.6	1.88	366
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	20.1	.47	18.5	21.8	.84	366
36	3824072	Bronson Creek at Saltzman, OR	7.51	.05	6.96	8.09	.29	366
37	10332	Willamette River at SP&S Railroad Bridge, OR	157,000	132,000,000	134,000	182,000	12,200	366
38	14128910	Columbia River at Warrendale, OR	424,000	1,030,000,000	363,000	493,000	33,000	366
39	10411	Deschutes River at Deschutes River Park, OR	10,600	332,000	9,430	11,800	604	366
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	455,000	1,120,000,000	389,000	529,000	35,600	366
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	766	6,700	608	951	87.7	366
42	12012	Hood River at footbridge downstream of I-84, OR	NA	NA	NA	NA	NA	–
43	11489	Umatilla River at Westland Road (Hermiston), OR	3,980	52,400	3,530	4,480	243	366
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	572,000	423,000,000	529,000	617,000	22,300	366
45	27D090	East Fork Lewis River near Dollar Corner, WA	1,850	8,740	1,650	2,060	105	366
46	32A070	Walla Walla River near Touchet, WA	2,430	15,900	2,160	2,730	145	366
47	13353200	Snake River at Burbank, WA	171,000	56,900,000	156,000	187,000	7,970	366
48	37A090	Yakima River at Kiona, WA	19,400	489,000	17,900	21,000	780	366
49	12510500	Yakima River at Kiona, WA	21,000	817,000	19,200	22,900	955	366
50	12505450	Granger Drain at Granger, WA	816	645	766	868	26.2	366

Table A4. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	144,000	121,000,000	123,000	168,000	11,400	366
52	13351000	Palouse River at Hooper, WA	18,500	983,000	16,300	21,000	1,210	366
53	34A070	Palouse River at Hooper, WA	18,300	1,860,000	15,400	21,500	1,540	366
54	41A070	Crab Creek near Beverly, WA	NA	NA	NA	NA	NA	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	2,720	4,320	2,590	2,860	69.3	366
56	13A060	Deschutes River at East Street Bridge, WA	1,730	2,250	1,630	1,830	52.5	366
57	10A070	Puyallup River at Meridian Street, WA	6,500	89,800	5,880	7,170	330	366
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	874	911	810	942	33.9	366
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	638	3,070	527	766	61.0	366
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	1,060	7,480	874	1,270	101	366
64	45A070	Wenatchee River at Wenatchee, WA	2,780	12,600	2,540	3,030	124	366
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	3,850	25,500	3,510	4,210	179	366
67	12113390	Duwamish River at Golf Course at Tukwila, WA	5,200	59,700	4,680	5,770	278	366
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NA	NA	NA	NA	NA	–
69	46A070	Entiat River near Entiat, WA	315	836	259	379	30.5	366
70	45A110	Wenatchee River near Leavenworth, WA	1,630	11,500	1,400	1,880	122	366
71	16C090	Duckabush River near Brinnon, WA	121	154	94.8	152	14.5	366
72	12128000	Thorton Creek near Seattle, WA	92.7	8.17	86.5	99.2	3.20	366
73	54A120	Spokane River at Riverside State Park, WA	21,600	764,000	19,800	23,500	952	366
74	07D050	Snoqualmie River near Monroe, WA	8,060	62,600	7,520	8,630	282	366
75	07C070	Skykomish River at Monroe, WA	4,610	40,500	4,170	5,090	235	366
76	07A090	Snohomish River at Snohomish, WA	19,000	574,000	17,400	20,800	878	366
77	53A070	Columbia River at Grand Coulee, WA	111,000	16,900,000	102,000	120,000	4,540	366
78	48A070	Methow River near Pateros, WA	1,100	2,170	1,000	1,200	50.8	366
79	49A070	Okanogan River at Malott, WA	2,780	15,700	2,520	3,060	138	366
80	48A140	Methow River at Twisp, WA	838	1,730	751	932	46.2	366
81	03A060	Skagit River near Mount Vernon, WA	15,700	561,000	14,000	17,500	879	366
82	03B050	Samish River near Burlington, WA	1,520	2,240	1,420	1,620	51.0	366
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	12,400	266,000	11,300	13,500	567	366
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	75,700	288,000,000	47,700	114,000	17,100	366
87	61A070	Columbia River at Northport, WA	80,300	4,290,000	76,000	84,700	2,230	366
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	1,370	838	1,310	1,430	31.5	366
90	13094000	Snake River near Buhl, ID	42,300	1,120,000	40,100	44,500	1,120	366
91	13154500	Snake River at King Hill, ID	82,200	1,330,000	79,600	84,900	1,340	366
92	13203510	Boise River below Diversion Dam near Boise, ID	1,670	8,420	1,490	1,870	95.9	366
93	13206000	Boise River at Glenwood, ID	2,040	6,670	1,870	2,210	87.5	366
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	281	1,590	205	375	43.5	366
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	947	1,940	855	1,050	49.1	366
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NA	NA	NA	NA	NA	–
99	12419000	Spokane River near Post Falls, ID	6,600	327,000	5,510	7,850	600	366
100	13010065	Snake River at Flagg Ranch, WY	1,130	30,900	763	1,610	216	366

Table A4. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2000.—Continued

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Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	144,000	121,000,000	123,000	168,000	11,400	366
52	13351000	Palouse River at Hooper, WA	18,500	983,000	16,300	21,000	1,210	366
53	34A070	Palouse River at Hooper, WA	18,300	1,860,000	15,400	21,500	1,540	366
54	41A070	Crab Creek near Beverly, WA	NA	NA	NA	NA	NA	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	2,720	4,320	2,590	2,860	69.3	366
56	13A060	Deschutes River at East Street Bridge, WA	1,730	2,250	1,630	1,830	52.5	366
57	10A070	Puyallup River at Meridian Street, WA	6,500	89,800	5,880	7,170	330	366
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	874	911	810	942	33.9	366
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	638	3,070	527	766	61.0	366
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	1,060	7,480	874	1,270	101	366
64	45A070	Wenatchee River at Wenatchee, WA	2,780	12,600	2,540	3,030	124	366
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	3,850	25,500	3,510	4,210	179	366
67	12113390	Duamish River at Golf Course at Tukwila, WA	5,200	59,700	4,680	5,770	278	366
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NA	NA	NA	NA	NA	–
69	46A070	Entiat River near Entiat, WA	315	836	259	379	30.5	366
70	45A110	Wenatchee River near Leavenworth, WA	1,630	11,500	1,400	1,880	122	366
71	16C090	Duckabush River near Brinnon, WA	121	154	94.8	152	14.5	366
72	12128000	Thorton Creek near Seattle, WA	92.7	8.17	86.5	99.2	3.20	366
73	54A120	Spokane River at Riverside State Park, WA	21,600	764,000	19,800	23,500	952	366
74	07D050	Snoqualmie River near Monroe, WA	8,060	62,600	7,520	8,630	282	366
75	07C070	Skykomish River at Monroe, WA	4,610	40,500	4,170	5,090	235	366
76	07A090	Snohomish River at Snohomish, WA	19,000	574,000	17,400	20,800	878	366
77	53A070	Columbia River at Grand Coulee, WA	111,000	16,900,000	102,000	120,000	4,540	366
78	48A070	Methow River near Pateros, WA	1,100	2,170	1,000	1,200	50.8	366
79	49A070	Okanogan River at Malott, WA	2,780	15,700	2,520	3,060	138	366
80	48A140	Methow River at Twisp, WA	838	1,730	751	932	46.2	366
81	03A060	Skagit River near Mount Vernon, WA	15,700	561,000	14,000	17,500	879	366
82	03B050	Samish River near Burlington, WA	1,520	2,240	1,420	1,620	51.0	366
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	12,400	266,000	11,300	13,500	567	366
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	75,700	288,000,000	47,700	114,000	17,100	366
87	61A070	Columbia River at Northport, WA	80,300	4,290,000	76,000	84,700	2,230	366
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	1,370	838	1,310	1,430	31.5	366
90	13094000	Snake River near Buhl, ID	42,300	1,120,000	40,100	44,500	1,120	366
91	13154500	Snake River at King Hill, ID	82,200	1,330,000	79,600	84,900	1,340	366
92	13203510	Boise River below Diversion Dam near Boise, ID	1,670	8,420	1,490	1,870	95.9	366
93	13206000	Boise River at Glenwood, ID	2,040	6,670	1,870	2,210	87.5	366
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	281	1,590	205	375	43.5	366
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	947	1,940	855	1,050	49.1	366
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NA	NA	NA	NA	NA	–
99	12419000	Spokane River near Post Falls, ID	6,600	327,000	5,510	7,850	600	366
100	13010065	Snake River at Flagg Ranch, WY	1,130	30,900	763	1,610	216	366

Table A5. Results of loadest modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 2000.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	193	151	168	219	13.0	366
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	69.0	21.3	59.9	79.0	4.87	366
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	393	613	344	447	26.3	366
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	741	1,160	673	815	36.3	366
5	10663	Mohawk River at Hill Road, OR	96.5	87.2	78.3	118	10.1	366
6	10376	McKenzie River at Coburg Road, OR	1,200	2,030	1,110	1,300	49.9	366
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	3,980	27,600	3,600	4,380	200	366
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	337	465	295	385	23.0	366
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	104	10.6	97.6	111	3.44	366
10	10508	Deschutes River at Lower Bridge, OR	510	322	474	547	18.7	366
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	6,140	70,500	5,570	6,760	305	366
12	11490	Powder River at Hwy 7 (Baker City), OR	34.3	10.2	28.2	41.4	3.37	366
13	11478	John Day River at Service Creek, OR	612	2,480	511	727	55.1	366
14	10555	Willamette River at Marion Street (Salem), OR	9,360	152,000	8,510	10,300	449	366
15	14200400	Little Abiqua Creek near Scotts Mills, OR	4.54	.34	3.40	5.95	.65	366
16	14201300	Zollner Creek near Mt. Angel, OR	36.0	5.88	30.0	42.8	3.26	366
17	10640	Pudding River at Hwy 211 (Woodburn), OR	575	3,490	462	706	62.4	366
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	449	4,900	317	619	77.3	366
19	3701002	Tualatin River at Weiss Bridge, OR	1,170	1,500	1,070	1,270	50.9	366
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	38.5	21.1	28.8	50.4	5.51	366
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	46.7	8.76	40.7	53.2	3.17	366
24	3701333	Tualatin River at Farmington Bridge Road, OR	983	3,380	858	1,120	67.5	366
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	127	36.6	111	145	8.52	366
26	11386	John Day River at Hwy 206, OR	808	12,000	598	1,070	120	366
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	14.8	5.96	10.4	20.6	2.63	366
28	3701391	Tualatin River at Rood Bridge Road, OR	474	223	439	512	18.7	366
29	3701528	Tualatin River at Golf Course Road, OR	232	87.1	209	257	12.1	365
30	3810015	Gales Creek at New Hwy 47, OR	112	32.3	96.1	129	8.50	366
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	16,500	190,000	15,500	17,500	504	366
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	16,300	483,000	14,700	18,100	854	366
34	3850006	Dawson Creek at Brookwood, OR	3.78	.01	3.57	4.00	.11	366
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	1.95	.00	1.81	2.09	.07	366
36	3824072	Bronson Creek at Saltzman, OR	.74	.00	.65	.82	.04	366
37	10332	Willamette River at SP&S Railroad Bridge, OR	18,100	383,000	16,800	19,400	680	366
38	14128910	Columbia River at Warrendale, OR	30,400	5,430,000	25,700	35,600	2,550	366
39	10411	Deschutes River at Deschutes River Park, OR	3,170	41,300	2,770	3,610	216	366
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	43,800	3,810,000	39,900	48,000	2,080	366
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	146	81.1	128	166	9.76	366
42	12012	Hood River at footbridge downstream of I-84, OR	NA	NA	NA	NA	NA	–
43	11489	Umatilla River at Westland Road (Hermiston), OR	379	925	318	448	33.2	366
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	54,600	9,360,000	48,100	61,800	3,490	366
45	27D090	East Fork Lewis River near Dollar Corner, WA	127	483	83.5	185	26.0	366
46	32A070	Walla Walla River near Touchet, WA	499	2,510	398	617	56.2	366
47	13353200	Snake River at Burbank, WA	13,300	1,130,000	11,200	15,600	1,130	366
48	37A090	Yakima River at Kiona, WA	2,420	6,230	2,240	2,600	91.1	366
49	12510500	Yakima River at Kiona, WA	2,630	22,300	2,330	2,960	159	366
50	12505450	Granger Drain at Granger, WA	65.0	14.5	57.5	73.1	3.97	366

Table A5. Results of loadest modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	70,500	0.21	NC	NA	166
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	25,200	.10	74.0	880	134
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	144,000	.24	31.1	12,000	302
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	271,000	.03	201	3,490	4,200
5	10663	Mohawk River at Hill Road, OR	35,300	.03	198	460	554
6	10376	McKenzie River at Coburg Road, OR	440,000	.04	NC	NA	5,070
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	1,460,000	.07	423	8,890	11,300
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	124,000	.08	296	1,080	743
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	38,100	.04	412	239	515
10	10508	Deschutes River at Lower Bridge, OR	187,000	.08	88.6	5,440	1,250
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	2,250,000	.08	462	12,600	14,200
12	11490	Powder River at Hwy 7 (Baker City), OR	12,600	.06	36.0	902	109
13	11478	John Day River at Service Creek, OR	224,000	.07	43.5	13,300	1,680
14	10555	Willamette River at Marion Street (Salem), OR	3,420,000	.07	463	19,100	23,700
15	14200400	Little Abiqua Creek near Scotts Mills, OR	1,660	.02	168	25.5	37.1
16	14201300	Zollner Creek near Mt. Angel, OR	13,200	.36	875	38.9	18.4
17	10640	Pudding River at Hwy 211 (Woodburn), OR	210,000	.13	664	818	825
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	164,000	.03	241	1,760	2,830
19	3701002	Tualatin River at Weiss Bridge, OR	426,000	.15	599	1,840	1,410
20	3840012	Fanno Creek at Durham Road, OR	NC	NC	NC	80.7	–
21	14206950	Fanno Creek near Durham, OR	NC	NC	NC	80.7	–
22	3701715	Tualatin River at Cherry Grove, OR	14,100	.05	374	97.3	148
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	17,100	.12	318	139	69.3
24	3701333	Tualatin River at Farmington Bridge Road, OR	360,000	.16	638	1,460	1,130
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	46,500	.06	368	327	392
26	11386	John Day River at Hwy 206, OR	296,000	.08	NC	NA	1,770
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	5,430	.02	136	103	111
28	3701391	Tualatin River at Rood Bridge Road, OR	174,000	.09	365	1,230	972
29	3701528	Tualatin River at Golf Course Road, OR	84,700	.07	391	561	610
30	3810015	Gales Creek at New Hwy 47, OR	40,900	.09	543	195	221
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	6,030,000	.09	539	28,900	35,100
32	3820012	Rock Creek at Hwy 8, OR	NC	NC	NC	193	–
33	14211720	Willamette River at Portland, OR	5,980,000	.09	533	28,900	35,100
34	3850006	Dawson Creek at Brookwood, OR	1,380	.13	370	9.66	5.44
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	712	.11	180	10.2	3.36
36	3824072	Bronson Creek at Saltzman, OR	269	.14	133	5.23	1.00
37	10332	Willamette River at SP&S Railroad Bridge, OR	6,610,000	.10	NC	NA	35,100
38	14128910	Columbia River at Warrendale, OR	11,100,000	.03	46.6	616,000	185,000
39	10411	Deschutes River at Deschutes River Park, OR	1,160,000	.09	108	27,800	6,450
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	16,000,000	.05	NC	NA	177,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	53,600	.05	120	1,150	518
42	12012	Hood River at footbridge downstream of I-84, OR	NC	NC	NC	NA	1,030
43	11489	Umatilla River at Westland Road (Hermiston), OR	139,000	.13	NC	NA	545
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	20,000,000	.04	78.5	658,000	232,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	46,400	.03	296	405	771
46	32A070	Walla Walla River near Touchet, WA	182,000	.16	108	4,370	572
47	13353200	Snake River at Burbank, WA	4,860,000	.05	47.9	262,000	46,600
48	37A090	Yakima River at Kiona, WA	885,000	.12	157	14,500	3,770
49	12510500	Yakima River at Kiona, WA	963,000	.13	171	14,500	3,770
50	12505450	Granger Drain at Granger, WA	23,800	.30	384	160	40.4

Table A5. Results of loadest modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	8,220	1,360,000	6,040	10,900	1,250	366
52	13351000	Palouse River at Hooper, WA	1,110	10,600	869	1,410	138	366
53	34A070	Palouse River at Hooper, WA	849	7,180	677	1,050	95.8	366
54	41A070	Crab Creek near Beverly, WA	NA	NA	NA	NA	NA	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	132	390	96.5	176	20.4	366
56	13A060	Deschutes River at East Street Bridge, WA	178	310	143	220	19.7	366
57	10A070	Puyallup River at Meridian Street, WA	2,750	317,000	1,650	4,300	680	366
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	44.5	12.1	37.1	53.1	4.09	366
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	396	5,030	262	576	80.4	366
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	162	283	128	203	19.2	366
64	45A070	Wenatchee River at Wenatchee, WA	420	1,550	339	514	44.7	366
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	608	3,420	488	749	66.5	366
67	12113390	Duwamish River at Golf Course at Tukwila, WA	726	6,850	550	942	100	366
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	32.8	31.8	19.8	51.3	8.10	366
69	46A070	Entiat River near Entiat, WA	74.1	84.3	56.7	95.2	9.83	366
70	45A110	Wenatchee River near Leavenworth, WA	314	1,270	243	399	40.0	366
71	16C090	Duckabush River near Brinnon, WA	48.4	145	27.5	79.2	13.3	366
72	12128000	Thorton Creek near Seattle, WA	6.24	.44	4.85	7.90	.78	366
73	54A120	Spokane River at Riverside State Park, WA	1,870	25,600	1,550	2,250	179	366
74	07D050	Snoqualmie River near Monroe, WA	784	5,890	624	973	89.2	366
75	07C070	Skykomish River at Monroe, WA	531	4,040	403	688	73.0	366
76	07A090	Snohomish River at Snohomish, WA	1,820	32,000	1,450	2,250	206	366
77	53A070	Columbia River at Grand Coulee, WA	9,880	1,340,000	7,510	12,800	1,340	366
78	48A070	Methow River near Pateros, WA	166	280	132	206	19.0	366
79	49A070	Okanogan River at Malott, WA	659	2,240	558	772	54.6	366
80	48A140	Methow River at Twisp, WA	153	380	115	200	21.8	366
81	03A060	Skagit River near Mount Vernon, WA	4,070	605,000	2,480	6,310	985	366
82	03B050	Samish River near Burlington, WA	57.4	67.6	42.3	76.1	8.65	366
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	2,940	154,000	2,130	3,970	471	366
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	3,140	512,000	1,950	4,790	729	366
87	61A070	Columbia River at Northport, WA	6,550	359,000	5,340	7,950	666	366
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	55.1	2.53	51.5	59.0	1.91	366
90	13094000	Snake River near Buhl, ID	2,690	30,200	2,340	3,080	187	366
91	13154500	Snake River at King Hill, ID	3,710	16,500	3,430	4,000	145	366
92	13203510	Boise River below Diversion Dam near Boise, ID	124	1,120	70.8	203	34.0	366
93	13206000	Boise River at Glenwood, ID	458	686	404	517	28.7	366
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	10.1	.96	8.03	12.6	1.16	366
95	12414900	St. Maries River near Santa, ID	87.3	213	61.0	121	15.4	366
96	12414500	St. Joe River at Calder, ID	119	263	88.6	156	17.4	366
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	110	61.2	91.9	131	10.0	366
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	193	828	127	282	39.5	366
99	12419000	Spokane River near Post Falls, ID	439	1,180	367	521	39.3	366
100	13010065	Snake River at Flagg Ranch, WY	266	2,290	167	402	60.2	366

Table A5. Results of loadest modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	3,010,000	0.01	115	67,800	120,000
52	13351000	Palouse River at Hooper, WA	408,000	.28	165	6,380	736
53	34A070	Palouse River at Hooper, WA	311,000	.21	126	6,380	736
54	41A070	Crab Creek near Beverly, WA	NC	NC	NC	999	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	48,300	.12	67.7	1,840	209
56	13A060	Deschutes River at East Street Bridge, WA	65,300	.07	632	267	449
57	10A070	Puyallup River at Meridian Street, WA	1,010,000	.15	1,090	2,380	3,430
58	12108500	Newaukum Creek near Black Diamond, WA	NC	NC	NC	71.1	61.9
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	16,300	.13	35.4	1,190	61.6
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	1,310
61	16A070	Skokomish River near Potlatch, WA	145,000	.06	1,100	339	1,310
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NC	NC	NC	173	124
63	09A190	Green River at Kanaskat, WA	59,400	.03	249	616	953
64	45A070	Wenatchee River at Wenatchee, WA	154,000	.02	115	3,440	3,370
65	12113375	Springbrook Creek at Tukwila, WA	NC	NC	NC	51.7	45.6
66	09A080	Green River at Tukwila, WA	223,000	.08	465	1,240	1,400
67	12113390	Duwamish River at Golf Course at Tukwila, WA	266,000	.08	575	1,190	1,590
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	12,000	.01	211	147	535
69	46A070	Entiat River near Entiat, WA	27,100	.03	65.2	1,070	522
70	45A110	Wenatchee River near Leavenworth, WA	115,000	.02	172	1,720	3,190
71	16C090	Duckabush River near Brinnon, WA	17,700	.02	266	172	432
72	12128000	Thorton Creek near Seattle, WA	2,280	.11	202	29.2	10.5
73	54A120	Spokane River at Riverside State Park, WA	685,000	.05	137	13,000	7,030
74	07D050	Snoqualmie River near Monroe, WA	287,000	.04	418	1,770	3,930
75	07C070	Skykomish River at Monroe, WA	194,000	.02	253	1,980	4,620
76	07A090	Snohomish River at Snohomish, WA	665,000	.03	387	4,440	10,500
77	53A070	Columbia River at Grand Coulee, WA	3,610,000	.02	323	28,900	113,000
78	48A070	Methow River near Pateros, WA	60,600	.02	33.6	4,660	1,440
79	49A070	Okanogan River at Malott, WA	241,000	.04	138	4,500	2,930
80	48A140	Methow River at Twisp, WA	56,100	.02	42.3	3,430	1,310
81	03A060	Skagit River near Mount Vernon, WA	1,490,000	.04	639	6,020	17,500
82	03B050	Samish River near Burlington, WA	21,000	.04	243	223	288
83	12213140	Nooksack River at Brennan, WA	NC	NC	NC	2,020	4,250
84	01A050	Nooksack River at Brennan, WA	1,080,000	.13	1,460	1,910	4,250
85	12210700	Nooksack River at North Cedarville, WA	NC	NC	NC	1,520	–
86	12400520	Columbia River at Northport, WA	1,150,000	.01	19.0	156,000	106,000
87	61A070	Columbia River at Northport, WA	2,400,000	.01	39.8	156,000	106,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NC	NC	NC	98.6	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	20,200	.09	83.6	623	115
90	13094000	Snake River near Buhl, ID	985,000	.11	33.4	76,100	4,670
91	13154500	Snake River at King Hill, ID	1,360,000	.07	37.7	92,900	9,990
92	13203510	Boise River below Diversion Dam near Boise, ID	45,500	.02	16.8	6,980	1,300
93	13206000	Boise River at Glenwood, ID	168,000	.10	60.2	7,180	865
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	3,700	.01	43.4	220	231
95	12414900	St. Maries River near Santa, ID	32,000	.04	117	706	391
96	12414500	St. Joe River at Calder, ID	43,500	.01	42.0	2,680	2,380
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	40,300	.03	141	738	584
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	70,800	.02	78.6	2,330	2,030
99	12419000	Spokane River near Post Falls, ID	161,000	.01	40.9	10,200	6,850
100	13010065	Snake River at Flagg Ranch, WY	97,400	.06	190	1,320	839

Table A6. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2000.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (ton/d)	Variance (ton/d)	Lower 95 (ton/d)	Upper 95 (ton/d)	SEP (ton/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	30.8	11.2	24.4	38.3	3.54	366
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	32.8	21.4	24.2	43.5	4.94	366
5	10663	Mohawk River at Hill Road, OR	20.4	34.2	10.4	36.1	6.62	366
6	10376	McKenzie River at Coburg Road, OR	88.1	393	51.4	141	23.2	366
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	227	594	173	293	30.9	366
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	60.3	120	40.2	87.1	12.0	366
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	9.04	1.11	7.08	11.4	1.09	366
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	521	2,760	402	664	67.0	366
12	11490	Powder River at Hwy 7 (Baker City), OR	4.61	.61	3.20	6.42	0.82	366
13	11478	John Day River at Service Creek, OR	64.3	139	42.1	94.1	13.3	366
14	10555	Willamette River at Marion Street (Salem), OR	1,050	11,400	816	1,320	129	366
15	14200400	Little Abiqua Creek near Scotts Mills, OR	.93	.03	0.58	1.42	0.22	366
16	14201300	Zollner Creek near Mt. Angel, OR	3.07	.13	2.15	4.24	0.53	366
17	10640	Pudding River at Hwy 211 (Woodburn), OR	27.5	11.6	21.1	35.3	3.63	366
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	264	73,500	29.2	1,040	300	366
19	3701002	Tualatin River at Weiss Bridge, OR	NA	NA	NA	NA	NA	–
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	NA	NA	NA	NA	NA	–
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	3.74	.55	2.30	5.75	0.88	366
24	3701333	Tualatin River at Farmington Bridge Road, OR	NA	NA	NA	NA	NA	–
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NA	NA	NA	NA	NA	–
26	11386	John Day River at Hwy 206, OR	120	706	71.9	189	30.1	366
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NA	NA	NA	NA	NA	–
28	3701391	Tualatin River at Rood Bridge Road, OR	NA	NA	NA	NA	NA	–
29	3701528	Tualatin River at Golf Course Road, OR	NA	NA	NA	NA	NA	–
30	3810015	Gales Creek at New Hwy 47, OR	NA	NA	NA	NA	NA	–
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	1,340	8,180	1,110	1,600	124	366
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	2,780	29,500	2,340	3,270	239	366
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	1,440	14,900	1,180	1,740	143	366
38	14128910	Columbia River at Warrendale, OR	3,560	116,000	2,930	4,300	351	366
39	10411	Deschutes River at Deschutes River Park, OR	192	642	144	250	27.2	366
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	4,800	138,000	4,050	5,650	410	366
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	8.04	3.26	4.90	12.5	1.94	366
42	12012	Hood River at footbridge downstream of I-84, OR	NA	NA	NA	NA	NA	–
43	11489	Umatilla River at Westland Road (Hermiston), OR	70.2	101	49.1	97.3	12.3	366
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	14,600	746,000	12,700	16,700	1,040	366
45	27D090	East Fork Lewis River near Dollar Corner, WA	27.9	76.8	11.5	57.3	11.9	366
46	32A070	Walla Walla River near Touchet, WA	162	3,880	65.3	336	70.5	366
47	13353200	Snake River at Burbank, WA	1,220	9,750	1,020	1,450	108	366
48	37A090	Yakima River at Kiona, WA	375	872	311	449	35.2	366
49	12510500	Yakima River at Kiona, WA	468	2,730	366	589	56.9	366
50	12505450	Granger Drain at Granger, WA	18.1	8.88	12.8	24.9	3.11	366

Table A6. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (ton/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	11,300	68.7	NC	NA	166
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NC	NC	NC	880	134
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NC	NC	NC	12,000	302
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	12,000	2.89	8.89	3,490	4,200
5	10663	Mohawk River at Hill Road, OR	7,470	13.7	41.9	460	554
6	10376	McKenzie River at Coburg Road, OR	32,300	6.45	NC	NA	5,070
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	83,100	7.43	24.2	8,890	11,300
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	22,100	30.1	52.9	1,080	743
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NC	NC	NC	239	515
10	10508	Deschutes River at Lower Bridge, OR	3,310	2.69	1.57	5,440	1,250
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	191,000	13.6	39.2	12,600	14,200
12	11490	Powder River at Hwy 7 (Baker City), OR	1,690	15.7	4.83	902	109
13	11478	John Day River at Service Creek, OR	23,500	14.2	4.57	13,300	1,680
14	10555	Willamette River at Marion Street (Salem), OR	383,000	16.3	51.8	19,100	23,700
15	14200400	Little Abiqua Creek near Scotts Mills, OR	342	9.34	34.7	25.5	37.1
16	14201300	Zollner Creek near Mt. Angel, OR	1,120	61.8	74.6	38.9	18.4
17	10640	Pudding River at Hwy 211 (Woodburn), OR	10,100	12.4	31.7	818	825
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	96,400	34.5	141	1,760	2,830
19	3701002	Tualatin River at Weiss Bridge, OR	NC	NC	NC	1,840	1,410
20	3840012	Fanno Creek at Durham Road, OR	NC	NC	NC	80.7	–
21	14206950	Fanno Creek near Durham, OR	NC	NC	NC	80.7	–
22	3701715	Tualatin River at Cherry Grove, OR	NC	NC	NC	97.3	148
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	1,370	20.0	25.4	139	69.3
24	3701333	Tualatin River at Farmington Bridge Road, OR	NC	NC	NC	1,460	1,130
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NC	NC	NC	327	392
26	11386	John Day River at Hwy 206, OR	44,000	25.2	NC	NA	1,770
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NC	NC	NC	103	111
28	3701391	Tualatin River at Rood Bridge Road, OR	NC	NC	NC	1,230	972
29	3701528	Tualatin River at Golf Course Road, OR	NC	NC	NC	561	610
30	3810015	Gales Creek at New Hwy 47, OR	NC	NC	NC	195	221
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	490,000	14.2	43.8	28,900	35,100
32	3820012	Rock Creek at Hwy 8, OR	NC	NC	NC	193	–
33	14211720	Willamette River at Portland, OR	1,020,000	29.3	90.7	28,900	35,100
34	3850006	Dawson Creek at Brookwood, OR	NC	NC	NC	9.66	5.44
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NC	NC	NC	10.2	3.36
36	3824072	Bronson Creek at Saltzman, OR	NC	NC	NC	5.23	1.00
37	10332	Willamette River at SP&S Railroad Bridge, OR	527,000	15.2	NC	NA	35,100
38	14128910	Columbia River at Warrendale, OR	1,300,000	7.13	5.47	616,000	185,000
39	10411	Deschutes River at Deschutes River Park, OR	70,200	11.0	6.53	27,800	6,450
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	1,760,000	10.0	NC	NA	177,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	2,940	5.75	6.59	1,150	518
42	12012	Hood River at footbridge downstream of I-84, OR	NC	NC	NC	NA	1,030
43	11489	Umatilla River at Westland Road (Hermiston), OR	25,700	47.7	NC	NA	545
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	5,350,000	23.4	21.0	658,000	232,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	10,200	13.4	65.2	405	771
46	32A070	Walla Walla River near Touchet, WA	59,100	105	35.0	4,370	572
47	13353200	Snake River at Burbank, WA	447,000	9.72	4.40	262,000	46,600
48	37A090	Yakima River at Kiona, WA	137,000	36.9	24.4	14,500	3,770
49	12510500	Yakima River at Kiona, WA	171,000	46.1	30.4	14,500	3,770
50	12505450	Granger Drain at Granger, WA	6,630	166	107	160	40.4

Table A6. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (ton/d)	Variance (ton/d)	Lower 95 (ton/d)	Upper 95 (ton/d)	SEP (ton/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	906	2,450	805	1,020	54.2	366
52	13351000	Palouse River at Hooper, WA	363	3,360	189	634	115	366
53	34A070	Palouse River at Hooper, WA	254	2,640	144	418	70.5	366
54	41A070	Crab Creek near Beverly, WA	NA	NA	NA	NA	NA	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	65.7	898	24.7	143	31.0	366
56	13A060	Deschutes River at East Street Bridge, WA	69.9	353	36.2	123	22.3	366
57	10A070	Puyallup River at Meridian Street, WA	3,760	4,760,000	807	11,200	2,840	366
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	7.35	3.16	3.38	14.0	2.76	366
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	450	37,300	157	1,030	229	366
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	38.5	60.2	22.8	60.8	9.76	366
64	45A070	Wenatchee River at Wenatchee, WA	127	325	90.8	174	21.2	366
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	164	944	105	246	36.3	366
67	12113390	Duwamish River at Golf Course at Tukwila, WA	267	2,060	172	397	57.7	366
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	16.3	18.5	6.90	32.9	6.77	366
69	46A070	Entiat River near Entiat, WA	18.1	5.01	13.5	23.7	2.60	366
70	45A110	Wenatchee River near Leavenworth, WA	66.9	75.1	48.9	89.2	10.3	366
71	16C090	Duckabush River near Brinnon, WA	19.3	145	4.38	56.0	14.0	366
72	12128000	Thorton Creek near Seattle, WA	1.04	.04	.64	1.61	.25	366
73	54A120	Spokane River at Riverside State Park, WA	201	1,460	125	308	46.8	366
74	07D050	Snoqualmie River near Monroe, WA	385	3,780	256	559	77.6	366
75	07C070	Skykomish River at Monroe, WA	287	4,100	159	478	82.0	366
76	07A090	Snohomish River at Snohomish, WA	899	14,600	641	1,230	150	366
77	53A070	Columbia River at Grand Coulee, WA	393	531	344	447	26.3	366
78	48A070	Methow River near Pateros, WA	32.9	13.2	25.1	42.4	4.41	366
79	49A070	Okanogan River at Malott, WA	242	365	200	291	23.3	366
80	48A140	Methow River at Twisp, WA	22.3	6.44	16.8	29.0	3.13	366
81	03A060	Skagit River near Mount Vernon, WA	3,700	1,450,000	1,540	7,550	1,570	366
82	03B050	Samish River near Burlington, WA	31.1	43.1	18.5	49.2	7.89	366
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	2,300	162,000	1,480	3,410	496	366
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	928	11,600	728	1,170	112	366
87	61A070	Columbia River at Northport, WA	729	1,660	643	824	46.1	366
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	17.6	3.25	13.8	22.1	2.12	366
90	13094000	Snake River near Buhl, ID	362	4,470	247	514	68.5	366
91	13154500	Snake River at King Hill, ID	354	581	306	409	26.3	366
92	13203510	Boise River below Diversion Dam near Boise, ID	16.8	5.09	12.5	22.2	2.47	366
93	13206000	Boise River at Glenwood, ID	22.1	9.21	16.1	29.6	3.45	366
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NA	NA	NA	NA	NA	–
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	36.2	60.3	23.0	54.4	8.04	366
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	34.6	21.0	19.0	58.1	10.1	366
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	102	628	44.5	201	40.7	366
99	12419000	Spokane River near Post Falls, ID	36.5	10.2	30.0	43.9	3.56	366
100	13010065	Snake River at Flagg Ranch, WY	137	593	82.0	215	34.1	366

Table A6. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2000.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (ton/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	332,000	2.80	12.6	67,800	120,000
52	13351000	Palouse River at Hooper, WA	133,000	183	53.8	6,380	736
53	34A070	Palouse River at Hooper, WA	93,100	128	37.7	6,380	736
54	41A070	Crab Creek near Beverly, WA	NC	NC	NC	999	–
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	24,100	117	33.7	1,840	209
56	13A060	Deschutes River at East Street Bridge, WA	25,600	57.8	248	267	449
57	10A070	Puyallup River at Meridian Street, WA	1,380,000	407	1,490	2,380	3,430
58	12108500	Newaukum Creek near Black Diamond, WA	NC	NC	NC	71.1	61.9
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	2,690	44.2	5.85	1,190	61.6
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	1,310
61	16A070	Skokomish River near Potlatch, WA	165,000	128	1,250	339	1,310
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NC	NC	NC	173	124
63	09A190	Green River at Kanaskat, WA	14,100	15.0	59.1	616	953
64	45A070	Wenatchee River at Wenatchee, WA	46,600	14.0	35.0	3,440	3,370
65	12113375	Springbrook Creek at Tukwila, WA	NC	NC	NC	51.7	45.6
66	09A080	Green River at Tukwila, WA	60,200	43.6	126	1,240	1,400
67	12113390	Duwamish River at Golf Course at Tukwila, WA	97,800	62.5	211	1,190	1,590
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	5,970	11.3	105	147	535
69	46A070	Entiat River near Entiat, WA	6,610	12.8	15.9	1,070	522
70	45A110	Wenatchee River near Leavenworth, WA	24,500	7.76	36.7	1,720	3,190
71	16C090	Duckabush River near Brinnon, WA	7,080	16.6	106	172	432
72	12128000	Thorton Creek near Seattle, WA	380	36.7	33.6	29.2	10.5
73	54A120	Spokane River at Riverside State Park, WA	73,700	10.6	14.7	13,000	7,030
74	07D050	Snoqualmie River near Monroe, WA	141,000	36.3	206	1,770	3,930
75	07C070	Skykomish River at Monroe, WA	105,000	23.0	137	1,980	4,620
76	07A090	Snohomish River at Snohomish, WA	329,000	31.8	191	4,440	10,500
77	53A070	Columbia River at Grand Coulee, WA	144,000	1.29	12.9	28,900	113,000
78	48A070	Methow River near Pateros, WA	12,000	8.48	6.68	4,660	1,440
79	49A070	Okanogan River at Malott, WA	88,700	30.6	50.9	4,500	2,930
80	48A140	Methow River at Twisp, WA	8,160	6.33	6.15	3,430	1,310
81	03A060	Skagit River near Mount Vernon, WA	1,360,000	78.5	581	6,020	17,500
82	03B050	Samish River near Burlington, WA	11,400	40.1	132	223	288
83	12213140	Nooksack River at Brennan, WA	NC	NC	NC	2,020	4,250
84	01A050	Nooksack River at Brennan, WA	840,000	200	1,140	1,910	4,250
85	12210700	Nooksack River at North Cedarville, WA	NC	NC	NC	1,520	–
86	12400520	Columbia River at Northport, WA	340,000	3.26	5.63	156,000	106,000
87	61A070	Columbia River at Northport, WA	267,000	2.56	4.43	156,000	106,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NC	NC	NC	98.6	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	6,460	56.9	26.8	623	115
90	13094000	Snake River near Buhl, ID	133,000	28.8	4.50	76,100	4,670
91	13154500	Snake River at King Hill, ID	130,000	13.1	3.60	92,900	9,990
92	13203510	Boise River below Diversion Dam near Boise, ID	6,150	4.80	2.28	6,980	1,300
93	13206000	Boise River at Glenwood, ID	8,090	9.47	2.91	7,180	865
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NC	NC	NC	220	231
95	12414900	St. Maries River near Santa, ID	NC	NC	NC	706	391
96	12414500	St. Joe River at Calder, ID	13,300	5.64	12.8	2,680	2,380
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	12,700	21.9	44.3	738	584
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	37,300	18.6	41.4	2,330	2,030
99	12419000	Spokane River near Post Falls, ID	13,400	1.97	3.39	10,200	6,850
100	13010065	Snake River at Flagg Ranch, WY	50,100	60.5	97.6	1,320	839

100 Nutrient and Suspended-Sediment Transport and Trends, Columbia River and Puget Sound Basins, 1993–2003

Table A7. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2001.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	1,380	2,870	1,270	1,490	56.5	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NA	NA	NA	NA	NA	–
5	10663	Mohawk River at Hill Road, OR	NA	NA	NA	NA	NA	–
6	10376	McKenzie River at Coburg Road, OR	NA	NA	NA	NA	NA	–
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	7,550	232,000	6,610	8,600	508	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	767	2,660	666	880	54.8	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	806	7,720	646	993	88.7	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	17,000	1,330,000	14,700	19,500	1,230	365
12	11490	Powder River at Hwy 7 (Baker City), OR	121	46.2	107	135	7.28	365
13	11478	John Day River at Service Creek, OR	1,120	11,200	917	1,360	114	365
14	10555	Willamette River at Marion Street (Salem), OR	28,600	2,360,000	25,500	32,000	1,640	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	48.2	1.29	45.6	50.9	1.34	365
16	14201300	Zollner Creek near Mt. Angel, OR	296	179	266	329	16.1	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	3,440	98,300	2,850	4,120	326	365
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NA	NA	NA	NA	NA	–
19	3701002	Tualatin River at Weiss Bridge, OR	6,070	18,200	5,770	6,380	155	365
20	3840012	Fanno Creek at Durham Road, OR	122	5.88	115	128	3.16	365
21	14206950	Fanno Creek near Durham, OR	120	18.5	111	131	5.20	365
22	3701715	Tualatin River at Cherry Grove, OR	62.3	17.9	53.5	72.2	4.76	365
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	815	263	783	849	17.0	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	4,240	34,200	3,870	4,630	193	365
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	290	147	263	319	14.5	365
26	11386	John Day River at Hwy 206, OR	NA	NA	NA	NA	NA	–
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	59.5	12.8	52.6	67.1	3.68	365
28	3701391	Tualatin River at Rood Bridge Road, OR	1,160	2,840	1,040	1,290	62.3	365
29	3701528	Tualatin River at Golf Course Road, OR	482	381	437	530	23.8	365
30	3810015	Gales Creek at New Hwy 47, OR	139	25.3	127	151	6.14	365
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	63,200	10,900,000	56,600	70,500	3,560	365
32	3820012	Rock Creek at Hwy 8, OR	217	23.0	205	229	6.24	365
33	14211720	Willamette River at Portland, OR	59,500	6,790,000	54,200	65,300	2,840	365
34	3850006	Dawson Creek at Brookwood, OR	11.3	.13	10.4	12.3	.48	365
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	5.91	.03	5.51	6.33	.21	365
36	3824072	Bronson Creek at Saltzman, OR	1.50	.00	1.39	1.62	.06	365
37	10332	Willamette River at SP&S Railroad Bridge, OR	65,100	35,200,000	54,000	77,800	6,090	365
38	14128910	Columbia River at Warrendale, OR	514,000	996,000,000	453,000	582,000	33,000	365
39	10411	Deschutes River at Deschutes River Park, OR	7,070	172,000	6,270	7,950	430	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	266,000	877,000,000	212,000	331,000	30,400	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	498	2,180	405	607	51.6	365
42	12012	Hood River at footbridge downstream of I-84, OR	917	6,460	764	1,090	83.9	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	3,070	33,700	2,710	3,470	194	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	316,000	234,000,000	286,000	349,000	16,000	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	781	836	720	847	32.4	365
46	32A070	Walla Walla River near Touchet, WA	788	1,090	718	864	37.2	365
47	13353200	Snake River at Burbank, WA	NA	NA	NA	NA	NA	–
48	37A090	Yakima River at Kiona, WA	9,990	210,000	9,060	11,000	491	365
49	12510500	Yakima River at Kiona, WA	10,500	203,000	9,640	11,500	476	365
50	12505450	Granger Drain at Granger, WA	644	303	609	680	18.1	365

Table A7. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	502,000	2.27	NC	NA	112
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NC	NC	NC	880	67.1
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NC	NC	NC	12,000	94.6
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	NC	NC	NC	3,490	2,400
5	10663	Mohawk River at Hill Road, OR	NC	NC	NC	460	193
6	10376	McKenzie River at Coburg Road, OR	NC	NC	NC	NA	2,900
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	2,760,000	.24	803	8,890	5,820
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	280,000	.64	673	1,080	221
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NC	NC	NC	239	260
10	10508	Deschutes River at Lower Bridge, OR	294,000	.17	140	5,440	883
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	6,210,000	.47	1,280	12,600	6,750
12	11490	Powder River at Hwy 7 (Baker City), OR	44,000	.37	126	902	60.3
13	11478	John Day River at Service Creek, OR	410,000	.24	79.9	13,300	877
14	10555	Willamette River at Marion Street (Salem), OR	10,400,000	.47	1,420	19,100	11,200
15	14200400	Little Abiqua Creek near Scotts Mills, OR	17,600	.49	1,790	25.5	18.1
16	14201300	Zollner Creek near Mt. Angel, OR	108,000	11.4	7,210	38.9	4.83
17	10640	Pudding River at Hwy 211 (Woodburn), OR	1,260,000	1.91	3,980	818	334
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	NC	NC	NC	1,760	1,500
19	3701002	Tualatin River at Weiss Bridge, OR	2,210,000	2.62	3,120	1,840	429
20	3840012	Fanno Creek at Durham Road, OR	44,400	1.17	1,420	80.7	19.3
21	14206950	Fanno Creek near Durham, OR	44,000	1.16	1,410	80.7	19.3
22	3701715	Tualatin River at Cherry Grove, OR	22,800	.18	606	97.3	65.5
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	298,000	3.91	5,550	139	38.7
24	3701333	Tualatin River at Farmington Bridge Road, OR	1,550,000	2.58	2,750	1,460	305
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	106,000	.41	839	327	130
26	11386	John Day River at Hwy 206, OR	NC	NC	NC	NA	916
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	21,700	.22	545	103	50.0
28	3701391	Tualatin River at Rood Bridge Road, OR	424,000	.93	894	1,230	231
29	3701528	Tualatin River at Golf Course Road, OR	176,000	.58	811	561	155
30	3810015	Gales Creek at New Hwy 47, OR	50,700	.43	674	195	60.6
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	23,100,000	.73	2,070	28,900	16,000
32	3820012	Rock Creek at Hwy 8, OR	79,200	1.06	1,060	193	37.8
33	14211720	Willamette River at Portland, OR	21,700,000	.69	1,940	28,900	16,000
34	3850006	Dawson Creek at Brookwood, OR	4,120	1.16	1,100	9.7	1.80
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	2,160	.82	547	10.2	1.34
36	3824072	Bronson Creek at Saltzman, OR	548	1.39	272	5.23	0.20
37	10332	Willamette River at SP&S Railroad Bridge, OR	23,800,000	.75	NC	NA	16,000
38	14128910	Columbia River at Warrendale, OR	188,000,000	.81	NC	616,000	118,000
39	10411	Deschutes River at Deschutes River Park, OR	2,580,000	.27	241	27,800	4,850
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	97,200,000	.44	NC	NA	112,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	182,000	.27	409	1,150	343
42	12012	Hood River at footbridge downstream of I-84, OR	335,000	.31	NC	NA	541
43	11489	Umatilla River at Westland Road (Hermiston), OR	1,120,000	1.53	NC	NA	372
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	115,000,000	.42	454	658,000	140,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	285,000	.35	1,820	405	411
46	32A070	Walla Walla River near Touchet, WA	288,000	.36	171	4,370	409
47	13353200	Snake River at Burbank, WA	NC	NC	NC	262,000	24,700
48	37A090	Yakima River at Kiona, WA	3,650,000	1.21	650	14,500	1,530
49	12510500	Yakima River at Kiona, WA	3,850,000	1.28	686	14,500	1,530
50	12505450	Granger Drain at Granger, WA	235,000	4.32	3,810	160	27.6

Table A7. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	92,200	91,000,000	74,600	113,000	9,740	365
52	13351000	Palouse River at Hooper, WA	4,180	53,700	3,690	4,720	264	365
53	34A070	Palouse River at Hooper, WA	3,910	76,900	3,350	4,540	305	365
54	41A070	Crab Creek near Beverly, WA	2,570	4,460	2,430	2,720	72.5	365
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	695	240	663	729	16.9	365
57	10A070	Puyallup River at Meridian Street, WA	3,470	17,900	3,190	3,760	146	365
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	250	54.3	234	265	7.95	365
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	259	189	230	291	15.6	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	474	510	424	528	26.5	365
64	45A070	Wenatchee River at Wenatchee, WA	1,510	3,610	1,390	1,650	66.3	365
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	2,170	6,490	2,000	2,350	88.1	365
67	12113390	Duamish River at Golf Course at Tukwila, WA	2,930	17,000	2,660	3,220	143	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NA	NA	NA	NA	NA	–
69	46A070	Entiat River near Entiat, WA	166	169	140	195	13.8	365
70	45A110	Wenatchee River near Leavenworth, WA	660	1,890	563	770	52.9	365
71	16C090	Duckabush River near Brinnon, WA	55.2	13.8	46.7	64.8	4.63	365
72	12128000	Thorton Creek near Seattle, WA	68.8	4.01	64.3	73.4	2.31	365
73	54A120	Spokane River at Riverside State Park, WA	15,400	576,000	13,900	17,000	802	365
74	07D050	Snoqualmie River near Monroe, WA	4,790	20,400	4,490	5,110	157	365
75	07C070	Skykomish River at Monroe, WA	2,350	5,900	2,180	2,530	90.6	365
76	07A090	Snohomish River at Snohomish, WA	10,900	136,000	10,100	11,800	427	365
77	53A070	Columbia River at Grand Coulee, WA	72,200	9,010,000	66,000	78,800	3,260	365
78	48A070	Methow River near Pateros, WA	600	594	549	653	26.5	365
79	49A070	Okanogan River at Malott, WA	1,140	2,190	1,040	1,250	53.1	365
80	48A140	Methow River at Twisp, WA	428	345	388	470	21.1	365
81	03A060	Skagit River near Mount Vernon, WA	7,130	115,000	6,420	7,890	373	365
82	03B050	Samish River near Burlington, WA	769	251	735	804	17.4	365
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	6,740	74,400	6,180	7,350	299	365
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	NA	NA	NA	NA	NA	–
87	61A070	Columbia River at Northport, WA	54,300	2,300,000	51,200	57,500	1,620	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	1,050	502	1,000	1,100	24.5	365
90	13094000	Snake River near Buhl, ID	29,700	741,000	27,900	31,500	897	365
91	13154500	Snake River at King Hill, ID	66,500	1,210,000	64,100	68,900	1,230	365
92	13203510	Boise River below Diversion Dam near Boise, ID	947	4,600	818	1,090	69.5	365
93	13206000	Boise River at Glenwood, ID	1,620	4,680	1,480	1,770	72.1	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	133	478	91.8	185	24.0	365
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	NA	NA	NA	NA	NA	–
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	472	606	422	525	26.3	365
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NA	NA	NA	NA	NA	–
99	12419000	Spokane River near Post Falls, ID	2,590	41,900	2,190	3,040	216	365
100	13010065	Snake River at Flagg Ranch, WY	525	7,000	339	776	112	365

Table A7. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total nitrogen in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	33,700,000	0.21	1,290	67,800	80,700
52	13351000	Palouse River at Hooper, WA	1,530,000	2.96	620	6,380	262
53	34A070	Palouse River at Hooper, WA	1,430,000	2.77	580	6,380	262
54	41A070	Crab Creek near Beverly, WA	939,000	2.37	2,430	999	201
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NC	NC	NC	1,840	–
56	13A060	Deschutes River at East Street Bridge, WA	254,000	.72	2,460	267	178
57	10A070	Puyallup River at Meridian Street, WA	1,270,000	.27	1,380	2,380	2,350
58	12108500	Newaukum Creek near Black Diamond, WA	NC	NC	NC	71.1	33.7
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	91,100	1.72	199	1,190	26.8
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	646
61	16A070	Skokomish River near Potlatch, WA	94,600	.07	722	339	646
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NC	NC	NC	173	71.9
63	09A190	Green River at Kanaskat, WA	173,000	.15	728	616	573
64	45A070	Wenatchee River at Wenatchee, WA	552,000	.18	416	3,440	1,590
65	12113375	Springbrook Creek at Tukwila, WA	NC	NC	NC	51.7	29.7
66	09A080	Green River at Tukwila, WA	793,000	.47	1,660	1,240	851
67	12113390	Duwamish River at Golf Course at Tukwila, WA	1,070,000	.56	2,320	1,190	965
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	NC	NC	NC	147	300
69	46A070	Entiat River near Entiat, WA	60,600	.15	146	1,070	209
70	45A110	Wenatchee River near Leavenworth, WA	241,000	.08	363	1,720	1,570
71	16C090	Duckabush River near Brinnon, WA	20,100	.04	303	172	229
72	12128000	Thorton Creek near Seattle, WA	25,100	1.57	2,220	29.2	8.11
73	54A120	Spokane River at Riverside State Park, WA	5,620,000	.95	1,120	13,000	3,010
74	07D050	Snoqualmie River near Monroe, WA	1,750,000	.36	2,560	1,770	2,440
75	07C070	Skykomish River at Monroe, WA	858,000	.16	1,120	1,980	2,690
76	07A090	Snohomish River at Snohomish, WA	3,990,000	.32	2,330	4,440	6,310
77	53A070	Columbia River at Grand Coulee, WA	26,400,000	.18	2,360	28,900	74,400
78	48A070	Methow River near Pateros, WA	219,000	.19	122	4,660	576
79	49A070	Okanogan River at Malott, WA	418,000	.16	240	4,500	1,330
80	48A140	Methow River at Twisp, WA	156,000	.16	118	3,430	508
81	03A060	Skagit River near Mount Vernon, WA	2,600,000	.13	1,120	6,020	10,500
82	03B050	Samish River near Burlington, WA	281,000	.90	3,260	223	158
83	12213140	Nooksack River at Brennan, WA	NC	NC	NC	2,020	2,540
84	01A050	Nooksack River at Brennan, WA	2,460,000	.49	3,340	1,910	2,540
85	12210700	Nooksack River at North Cedarville, WA	NC	NC	NC	1,520	–
86	12400520	Columbia River at Northport, WA	NC	NC	NC	156,000	74,000
87	61A070	Columbia River at Northport, WA	19,800,000	.14	329	156,000	74,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NC	NC	NC	98.6	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	383,000	2.50	1,590	623	77.7
90	13094000	Snake River near Buhl, ID	10,800,000	2.56	368	76,100	2,150
91	13154500	Snake River at King Hill, ID	24,300,000	1.68	676	92,900	7,330
92	13203510	Boise River below Diversion Dam near Boise, ID	346,000	.21	128	6,980	817
93	13206000	Boise River at Glenwood, ID	592,000	.60	213	7,180	503
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	48,400	.19	570	220	132
95	12414900	St. Maries River near Santa, ID	NC	NC	NC	706	155
96	12414500	St. Joe River at Calder, ID	NC	NC	NC	2,680	1,130
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	172,000	.38	604	738	232
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	NC	NC	NC	2,330	763
99	12419000	Spokane River near Post Falls, ID	945,000	.18	241	10,200	2,690
100	13010065	Snake River at Flagg Ranch, WY	192,000	.18	375	1,320	528

Table A8. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound Basins, water year 2001.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	137	95.7	118	158	10.3	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	29.5	2.31	26.5	32.8	1.60	365
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	128	34.4	116	141	6.43	365
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	332	146	307	357	12.8	365
5	10663	Mohawk River at Hill Road, OR	18.8	1.18	16.6	21.1	1.15	365
6	10376	McKenzie River at Coburg Road, OR	600	393	560	643	21.1	365
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	1,470	3,330	1,350	1,600	64.2	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	87.1	23.9	77.2	97.8	5.27	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	58.0	7.77	52.6	63.8	2.85	365
10	10508	Deschutes River at Lower Bridge, OR	364	124	342	388	11.8	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	2,270	10,300	2,060	2,490	108	365
12	11490	Powder River at Hwy 7 (Baker City), OR	16.7	1.91	14.0	19.9	1.50	365
13	11478	John Day River at Service Creek, OR	231	160	202	262	15.5	365
14	10555	Willamette River at Marion Street (Salem), OR	3,050	14,600	2,800	3,310	130	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	1.75	.03	1.41	2.15	0.19	365
16	14201300	Zollner Creek near Mt. Angel, OR	6.01	.09	5.31	6.77	0.37	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	196	306	163	234	18.3	365
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	160	129	139	185	11.8	365
19	3701002	Tualatin River at Weiss Bridge, OR	313	159	285	342	14.7	365
20	3840012	Fanno Creek at Durham Road, OR	14.3	.14	13.3	15.3	.50	365
21	14206950	Fanno Creek near Durham, OR	15.2	.59	13.7	16.8	.79	365
22	3701715	Tualatin River at Cherry Grove, OR	6.17	.23	5.19	7.28	.54	365
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	18.8	.37	17.5	20.2	.67	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	366	846	309	431	31.2	365
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	26.1	1.40	23.4	28.9	1.41	365
26	11386	John Day River at Hwy 206, OR	213	541	164	270	27.1	365
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	6.47	.62	4.96	8.29	0.85	365
28	3701391	Tualatin River at Rood Bridge Road, OR	96.8	10.9	89.5	104	3.81	365
29	3701528	Tualatin River at Golf Course Road, OR	38.3	2.50	34.8	42.1	1.86	365
30	3810015	Gales Creek at New Hwy 47, OR	11.8	.17	10.8	12.8	.50	365
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	6,320	28,500	5,970	6,680	182	365
32	3820012	Rock Creek at Hwy 8, OR	28.5	.18	27.5	29.6	.55	365
33	14211720	Willamette River at Portland, OR	5,850	72,700	5,300	6,440	292	365
34	3850006	Dawson Creek at Brookwood, OR	1.12	.00	1.06	1.18	.03	365
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	.70	.00	.66	.74	.02	365
36	3824072	Bronson Creek at Saltzman, OR	.16	.00	.14	.17	.01	365
37	10332	Willamette River at SP&S Railroad Bridge, OR	6,610	66,900	6,100	7,150	268	365
38	14128910	Columbia River at Warrendale, OR	14,800	2,800,000	11,700	18,500	1,740	365
39	10411	Deschutes River at Deschutes River Park, OR	2,230	17,300	1,970	2,520	140	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	21,900	2,050,000	19,200	24,900	1,460	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	91.0	24.6	80.5	102	5.59	365
42	12012	Hood River at footbridge downstream of I-84, OR	191	1,370	122	285	41.8	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	205	216	176	238	16.0	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	26,800	4,550,000	22,600	31,500	2,270	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	42.5	18.8	33.6	53.0	4.95	365
46	32A070	Walla Walla River near Touchet, WA	125	38.7	112	140	6.96	365
47	13353200	Snake River at Burbank, WA	NA	NA	NA	NA	NA	NA
48	37A090	Yakima River at Kiona, WA	930	1,210	858	1,010	38.1	365
49	12510500	Yakima River at Kiona, WA	970	2,330	874	1,070	50.8	365
50	12505450	Granger Drain at Granger, WA	33.6	3.17	30.0	37.4	1.88	365

Table A8. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound Basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	50,000	0.23	NC	NA	112
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	10,800	.08	31.7	880	67.1
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	46,700	.25	10.1	12,000	94.6
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	121,000	.03	89.9	3,490	2,400
5	10663	Mohawk River at Hill Road, OR	6,850	.02	38.5	460	193
6	10376	McKenzie River at Coburg Road, OR	219,000	.04	NC	NA	2,900
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	537,000	.05	157	8,890	5,820
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	31,800	.07	76.4	1,080	221
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	21,200	.04	229	239	260
10	10508	Deschutes River at Lower Bridge, OR	133,000	.08	63.3	5,440	883
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	827,000	.06	171	12,600	6,750
12	11490	Powder River at Hwy 7 (Baker City), OR	6,110	.05	17.5	902	60.3
13	11478	John Day River at Service Creek, OR	84,200	.05	16.4	13,300	877
14	10555	Willamette River at Marion Street (Salem), OR	1,110,000	.05	151	19,100	11,200
15	14200400	Little Abiqua Creek near Scotts Mills, OR	640	.02	65.0	25.5	18.1
16	14201300	Zollner Creek near Mt. Angel, OR	2,190	.23	146	38.9	4.83
17	10640	Pudding River at Hwy 211 (Woodburn), OR	71,500	.11	226	818	334
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	58,500	.02	86.0	1,760	1,500
19	3701002	Tualatin River at Weiss Bridge, OR	114,000	.14	161	1,840	429
20	3840012	Fanno Creek at Durham Road, OR	5,210	.14	167	80.7	19.3
21	14206950	Fanno Creek near Durham, OR	5,550	.15	178	80.7	19.3
22	3701715	Tualatin River at Cherry Grove, OR	2,250	.02	60.0	97.3	65.5
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	6,870	.09	128	139	38.7
24	3701333	Tualatin River at Farmington Bridge Road, OR	134,000	.22	237	1,460	305
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	9,510	.04	75.4	327	130
26	11386	John Day River at Hwy 206, OR	77,600	.04	NC	NA	916
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	2,360	.02	59.2	103	50.0
28	3701391	Tualatin River at Road Bridge Road, OR	35,300	.08	74.6	1,230	231
29	3701528	Tualatin River at Golf Course Road, OR	14,000	.05	64.6	561	155
30	3810015	Gales Creek at New Hwy 47, OR	4,310	.04	57.3	195	60.6
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	2,310,000	.07	207	28,900	16,000
32	3820012	Rock Creek at Hwy 8, OR	10,400	.14	140	193	37.8
33	14211720	Willamette River at Portland, OR	2,140,000	.07	191	28,900	16,000
34	3850006	Dawson Creek at Brookwood, OR	409	.12	110	9.7	1.80
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	257	.10	65.1	10.2	1.34
36	3824072	Bronson Creek at Saltzman, OR	57.1	.15	28.3	5.23	.20
37	10332	Willamette River at SP&S Railroad Bridge, OR	2,410,000	.08	NC	NA	16,000
38	14128910	Columbia River at Warrendale, OR	5,410,000	.02	NC	616,000	118,000
39	10411	Deschutes River at Deschutes River Park, OR	815,000	.09	76.0	27,800	4,850
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	8,010,000	.04	NC	NA	112,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	33,200	.05	74.6	1,150	343
42	12012	Hood River at footbridge downstream of I-84, OR	69,600	.07	NC	NA	541
43	11489	Umatilla River at Westland Road (Hermiston), OR	74,900	.10	NC	NA	372
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	9,780,000	.04	38.5	658,000	140,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	15,500	.02	99.2	405	411
46	32A070	Walla Walla River near Touchet, WA	45,800	.06	27.2	4,370	409
47	13353200	Snake River at Burbank, WA	NC	NC	NC	262,000	24,700
48	37A090	Yakima River at Kiona, WA	340,000	.11	60.5	14,500	1,530
49	12510500	Yakima River at Kiona, WA	354,000	.12	63.1	14,500	1,530
50	12505450	Granger Drain at Granger, WA	12,300	.23	199	160	27.6

Table A8. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound Basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (lb/d)	Variance (lb/d)	Lower 95 (lb/d)	Upper 95 (lb/d)	SEP (lb/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	4,370	833,000	2,810	6,490	943	365
52	13351000	Palouse River at Hooper, WA	204	367	163	253	22.9	365
53	34A070	Palouse River at Hooper, WA	245	539	199	299	25.6	365
54	41A070	Crab Creek near Beverly, WA	102	25.0	91.5	113	5.45	365
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	36.4	3.30	32.7	40.4	1.97	365
57	10A070	Puyallup River at Meridian Street, WA	1,090	9,110	890	1,320	111	365
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	13.0	.63	11.4	14.8	0.86	365
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	85.1	28.7	73.4	98	6.34	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	74.0	27.0	63.0	86.5	6.00	365
64	45A070	Wenatchee River at Wenatchee, WA	138	142	113	168	14.1	365
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	210	107	188	233	11.7	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	291	413	247	340	23.7	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	8.75	1.77	6.15	12.1	1.52	365
69	46A070	Entiat River near Entiat, WA	22.3	4.88	17.8	27.5	2.47	365
70	45A110	Wenatchee River near Leavenworth, WA	105	132	80.7	134	13.5	365
71	16C090	Duckabush River near Brinnon, WA	13.9	2.27	10.8	17.7	1.77	365
72	12128000	Thorton Creek near Seattle, WA	4.67	.23	3.61	5.95	.60	365
73	54A120	Spokane River at Riverside State Park, WA	821	6,290	666	1,000	85.5	365
74	07D050	Snoqualmie River near Monroe, WA	311	332	272	355	21.1	365
75	07C070	Skykomish River at Monroe, WA	185	200	155	218	16.2	365
76	07A090	Snohomish River at Snohomish, WA	677	2,100	581	786	52.4	365
77	53A070	Columbia River at Grand Coulee, WA	5,310	411,000	4,000	6,910	742	365
78	48A070	Methow River near Pateros, WA	46.9	18.0	37.6	57.7	5.14	365
79	49A070	Okanogan River at Malott, WA	204	191	173	240	17.2	365
80	48A140	Methow River at Twisp, WA	42.4	22.3	32.2	54.9	5.78	365
81	03A060	Skagit River near Mount Vernon, WA	970	4,500	824	1,130	78.9	365
82	03B050	Samish River near Burlington, WA	24.0	3.17	20.4	28.1	1.95	365
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	668	1,830	568	780	54.3	365
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	NA	NA	NA	NA	NA	–
87	61A070	Columbia River at Northport, WA	4,040	208,000	3,160	5,080	490	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	32.0	1.04	29.8	34.3	1.16	365
90	13094000	Snake River near Buhl, ID	1,580	14,600	1,340	1,840	127	365
91	13154500	Snake River at King Hill, ID	2,920	11,800	2,690	3,160	120	365
92	13203510	Boise River below Diversion Dam near Boise, ID	74.5	580	38.0	132	24.3	365
93	13206000	Boise River at Glenwood, ID	402	807	346	464	30.2	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	5.18	.28	4.00	6.61	.67	365
95	12414900	St. Maries River near Santa, ID	25.5	14.5	18.3	34.6	4.17	365
96	12414500	St. Joe River at Calder, ID	51.3	35.5	39.4	65.8	6.75	365
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	48.2	13.7	40.8	56.6	4.04	365
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	32.8	8.06	25.2	42.0	4.31	365
99	12419000	Spokane River near Post Falls, ID	152	140	128	181	13.5	365
100	13010065	Snake River at Flagg Ranch, WY	126	501	76.0	198	31.2	365

Table A8. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for total phosphorus in the Columbia River and Puget Sound Basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; lb/d, pound per day; lb/yr, pound per year; mg/L, milligram per liter; lb/mi²/yr, pound per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (lb/yr)	Flow-weighted concentration (mg/L)	Yield (lb/mi ² /yr)	Drainage area (km ²)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	1,590,000	0.01	60.9	67,800	80,700
52	13351000	Palouse River at Hooper, WA	74,600	.14	30.3	6,380	262
53	34A070	Palouse River at Hooper, WA	89,400	.17	36.3	6,380	262
54	41A070	Crab Creek near Beverly, WA	37,100	.09	96.3	999	201
55	12471400	Lind Coulee Westway at SR 17 near Warden, WA	NC	NC	NC	1,840	–
56	13A060	Deschutes River at East Street Bridge, WA	13,300	.04	129	267	178
57	10A070	Puyallup River at Meridian Street, WA	398,000	.09	433	2,380	2,350
58	12108500	Newaukum Creek near Black Diamond, WA	NC	NC	NC	71.1	33.7
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	4,760	.09	10.4	1,190	26.8
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	646
61	16A070	Skokomish River near Potlatch, WA	31,100	.02	237	339	646
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NC	NC	NC	173	71.9
63	09A190	Green River at Kanaskat, WA	27,000	.02	114	616	573
64	45A070	Wenatchee River at Wenatchee, WA	50,500	.02	38.1	3,440	1,590
65	12113375	Springbrook Creek at Tukwila, WA	NC	NC	NC	51.7	29.7
66	09A080	Green River at Tukwila, WA	76,500	.05	160	1,240	851
67	12113390	Duwamish River at Golf Course at Tukwila, WA	106,000	.06	230	1,190	965
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	3,200	.01	56.3	147	300
69	46A070	Entiat River near Entiat, WA	8,140	.02	19.6	1,070	209
70	45A110	Wenatchee River near Leavenworth, WA	38,200	.01	57.5	1,720	1,570
71	16C090	Duckabush River near Brinnon, WA	5,080	.01	76.5	172	229
72	12128000	Thorton Creek near Seattle, WA	1,710	.11	151	29.2	8.11
73	54A120	Spokane River at Riverside State Park, WA	300,000	.05	59.9	13,000	3,010
74	07D050	Snoqualmie River near Monroe, WA	114,000	.02	166	1,770	2,440
75	07C070	Skykomish River at Monroe, WA	67,400	.01	88.0	1,980	2,690
76	07A090	Snohomish River at Snohomish, WA	247,000	.02	144	4,440	6,310
77	53A070	Columbia River at Grand Coulee, WA	1,940,000	.01	174	28,900	74,400
78	48A070	Methow River near Pateros, WA	17,100	.02	9.5	4,660	576
79	49A070	Okanogan River at Malott, WA	74,500	.03	42.9	4,500	1,330
80	48A140	Methow River at Twisp, WA	15,500	.02	11.7	3,430	508
81	03A060	Skagit River near Mount Vernon, WA	354,000	.02	152	6,020	10,500
82	03B050	Samish River near Burlington, WA	8,760	.03	102	223	158
83	12213140	Nooksack River at Brennan, WA	NC	NC	NC	2,020	2,540
84	01A050	Nooksack River at Brennan, WA	244,000	.05	331	1,910	2,540
85	12210700	Nooksack River at North Cedarville, WA	NC	NC	NC	1,520	–
86	12400520	Columbia River at Northport, WA	NC	NC	NC	156,000	74,000
87	61A070	Columbia River at Northport, WA	1,470,000	.01	24.4	156,000	74,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NC	NC	NC	98.6	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	11,700	.08	48.5	623	77.7
90	13094000	Snake River near Buhl, ID	576,000	.14	19.6	76,100	2,150
91	13154500	Snake River at King Hill, ID	1,060,000	.07	29.7	92,900	7,330
92	13203510	Boise River below Diversion Dam near Boise, ID	27,200	.02	10.1	6,980	817
93	13206000	Boise River at Glenwood, ID	147,000	.15	52.9	7,180	503
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	1,890	.01	22.3	220	132
95	12414900	St. Maries River near Santa, ID	9,320	.03	34.2	706	155
96	12414500	St. Joe River at Calder, ID	18,700	.01	18.1	2,680	1,130
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	17,600	.04	61.8	738	232
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	12,000	.01	13.3	2,330	763
99	12419000	Spokane River near Post Falls, ID	55,600	.01	14.2	10,200	2,690
100	13010065	Snake River at Flagg Ranch, WY	46,100	.04	90.1	1,320	528

Table A9. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2001.

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (ton/d)	Variance (ton/d)	Lower 95 (ton/d)	Upper 95 (ton/d)	SEP (ton/d)	Number of days
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	24.0	7.82	18.7	30.3	2.95	365
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NA	NA	NA	NA	NA	–
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NA	NA	NA	NA	NA	–
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	12.8	1.49	10.3	15.6	1.34	365
5	10663	Mohawk River at Hill Road, OR	1.82	.05	1.38	2.36	.25	365
6	10376	McKenzie River at Coburg Road, OR	15.0	2.75	11.9	18.8	1.77	365
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	38.0	8.05	32.1	44.6	3.18	365
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	8.77	1.06	6.63	11.4	1.21	365
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NA	NA	NA	NA	NA	–
10	10508	Deschutes River at Lower Bridge, OR	5.58	.25	4.60	6.70	.54	365
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	91.0	37.6	77.6	106	7.27	365
12	11490	Powder River at Hwy 7 (Baker City), OR	1.62	.06	1.13	2.24	.28	365
13	11478	John Day River at Service Creek, OR	17.5	4.28	12.9	23.4	2.69	365
14	10555	Willamette River at Marion Street (Salem), OR	156	173	129	187	14.6	365
15	14200400	Little Abiqua Creek near Scotts Mills, OR	.19	.00	.14	.25	.03	365
16	14201300	Zollner Creek near Mt. Angel, OR	.18	.00	.14	.22	.02	365
17	10640	Pudding River at Hwy 211 (Woodburn), OR	7.43	.48	6.05	9.02	.76	365
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	5.48	.25	4.47	6.65	.56	365
19	3701002	Tualatin River at Weiss Bridge, OR	NA	NA	NA	NA	NA	–
20	3840012	Fanno Creek at Durham Road, OR	NA	NA	NA	NA	NA	–
21	14206950	Fanno Creek near Durham, OR	1.45	.07	.96	2.11	.29	365
22	3701715	Tualatin River at Cherry Grove, OR	NA	NA	NA	NA	NA	–
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	.72	.00	.59	0.87	.07	365
24	3701333	Tualatin River at Farmington Bridge Road, OR	NA	NA	NA	NA	NA	–
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NA	NA	NA	NA	NA	–
26	11386	John Day River at Hwy 206, OR	27.6	18.1	18.2	40.1	5.59	365
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NA	NA	NA	NA	NA	–
28	3701391	Tualatin River at Rood Bridge Road, OR	NA	NA	NA	NA	NA	–
29	3701528	Tualatin River at Golf Course Road, OR	NA	NA	NA	NA	NA	–
30	3810015	Gales Creek at New Hwy 47, OR	NA	NA	NA	NA	NA	–
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	228	129	202	256	13.8	365
32	3820012	Rock Creek at Hwy 8, OR	NA	NA	NA	NA	NA	–
33	14211720	Willamette River at Portland, OR	326	323	288	368	20.3	365
34	3850006	Dawson Creek at Brookwood, OR	NA	NA	NA	NA	NA	–
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NA	NA	NA	NA	NA	–
36	3824072	Bronson Creek at Saltzman, OR	NA	NA	NA	NA	NA	–
37	10332	Willamette River at SP&S Railroad Bridge, OR	237	208	208	269	15.5	365
38	14128910	Columbia River at Warrendale, OR	904	28,300	617	1,280	169	365
39	10411	Deschutes River at Deschutes River Park, OR	88.6	122	67.7	114	11.8	365
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	1,430	15,700	1,190	1,700	131	365
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	4.26	.53	2.86	6.12	.84	365
42	12012	Hood River at footbridge downstream of I-84, OR	24.0	82.2	8.50	54.3	12.0	365
43	11489	Umatilla River at Westland Road (Hermiston), OR	21.5	6.87	15.8	28.7	3.30	365
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	3,600	68,400	3,070	4,200	288	365
45	27D090	East Fork Lewis River near Dollar Corner, WA	4.09	.18	3.05	5.37	.59	365
46	32A070	Walla Walla River near Touchet, WA	23.4	15.6	15.7	33.5	4.56	365
47	13353200	Snake River at Burbank, WA	NA	NA	NA	NA	NA	–
48	37A090	Yakima River at Kiona, WA	46.8	16.9	38.7	56.1	4.45	365
49	12510500	Yakima River at Kiona, WA	44.9	13.2	37.8	53.0	3.88	365
50	12505450	Granger Drain at Granger, WA	6.60	0.79	4.91	8.67	0.96	365

Table A9. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (ton/mi ² /yr)	Drainage area (ft ² /s)	Annual mean flow (ft ³ /s)
1	10729	Owyhee River at Hwy. 201 Bridge (Owyhee), OR	8,750	79.4	NC	NA	112
2	MAL113	North Fork Malheur River approximately 2 miles upstream of Beulah Reservoir, OR	NC	NC	NC	880	67.1
3	MAL144	Malheur River at Ford Street (1.1 miles) upstream of Bully Creek, OR	NC	NC	NC	12,000	94.6
4	10386	Middle Fork Willamette River at Jasper Bridge, OR	4,660	1.98	3.46	3,490	2,400
5	10663	Mohawk River at Hill Road, OR	665	3.50	3.74	460	193
6	10376	McKenzie River at Coburg Road, OR	5,490	1.92	NC	NA	2,900
7	10355	Willamette River at Hwy 99E (Harrisburg), OR	13,900	2.42	4.04	8,890	5,820
8	11140	Long Tom River at Stow Pit Road (Monroe), OR	3,200	14.7	7.69	1,080	221
9	12657	McKenzie River at Hwy 126 downstream of Clear Lake, OR	NC	NC	NC	239	260
10	10508	Deschutes River at Lower Bridge, OR	2,040	2.34	.97	5,440	883
11	10350	Willamette River at Albany (Eastbound Hwy 20 Bridge), OR	33,200	5.00	6.85	12,600	6,750
12	11490	Powder River at Hwy 7 (Baker City), OR	590	9.96	1.69	902	60.3
13	11478	John Day River at Service Creek, OR	6,410	7.40	1.25	13,300	877
14	10555	Willamette River at Marion Street (Salem), OR	57,000	5.16	7.72	19,100	11,200
15	14200400	Little Abiqua Creek near Scotts Mills, OR	67.6	3.89	6.86	25.5	18.1
16	14201300	Zollner Creek near Mt. Angel, OR	65.7	13.8	4.38	38.9	4.83
17	10640	Pudding River at Hwy 211 (Woodburn), OR	2,710	8.25	8.58	818	334
18	13070	Clackamas River at Mciver Park (Upper Boat Ramp), OR	2,000	1.35	2.94	1,760	1,500
19	3701002	Tualatin River at Weiss Bridge, OR	NC	NC	NC	1840	429
20	3840012	Fanno Creek at Durham Road, OR	NC	NC	NC	80.7	19.3
21	14206950	Fanno Creek near Durham, OR	529	27.9	17.0	80.7	19.3
22	3701715	Tualatin River at Cherry Grove, OR	NC	NC	NC	97.3	65.5
23	11321	Johnson Creek at SE 17th Avenue (Portland), OR	262	6.90	4.89	139	38.7
24	3701333	Tualatin River at Farmington Bridge Road, OR	NC	NC	NC	1460	305
25	3701612	Tualatin River at Springhill Road Bridge (Dilley), OR	NC	NC	NC	327	130
26	11386	John Day River at Hwy 206, OR	10,100	11.2	NC	NA	916
27	3805048	Scoggins Creek below Hagg Lake at Stimson Bridge, OR	NC	NC	NC	103	50.0
28	3701391	Tualatin River at Rood Bridge Road, OR	NC	NC	NC	1,230	231
29	3701528	Tualatin River at Golf Course Road, OR	NC	NC	NC	561	155
30	3810015	Gales Creek at New Hwy 47, OR	NC	NC	NC	195	60.6
31	10611	Willamette River at Hawthorne Bridge (Portland), OR	83,200	5.28	7.45	28,900	16,000
32	3820012	Rock Creek at Hwy 8, OR	NC	NC	NC	193	37.8
33	14211720	Willamette River at Portland, OR	119,000	7.55	10.7	28,900	16,000
34	3850006	Dawson Creek at Brookwood, OR	NC	NC	NC	9.7	1.80
35	3824020	Bronson Creek at Bronson Park downstream of Sunset Hwy, OR	NC	NC	NC	10.2	1.34
36	3824072	Bronson Creek at Saltzman, OR	NC	NC	NC	5.23	.20
37	10332	Willamette River at SP&S Railroad Bridge, OR	86,500	5.49	NC	NA	16,000
38	14128910	Columbia River at Warrendale, OR	330,000	2.84	1.39	616,000	118,000
39	10411	Deschutes River at Deschutes River Park, OR	32,300	6.77	3.02	27,800	4,850
40	10616	Columbia River at Marker #47 (upstream of Willamette River), OR	521,000	4.73	NC	NA	112,000
41	10406	Umatilla River at Hwy 11 (Pendleton), OR	1,560	4.60	3.49	1,150	343
42	12012	Hood River at footbridge downstream of I-84, OR	8,770	16.4	NC	NA	541
43	11489	Umatilla River at Westland Road (Hermiston), OR	7,850	21.4	NC	NA	372
44	14246900	Columbia River at Beaver Army Terminal near Quincy, OR	1,320,000	9.53	5.18	658,000	140,000
45	27D090	East Fork Lewis River near Dollar Corner, WA	1,490	3.69	9.6	405	411
46	32A070	Walla Walla River near Touchet, WA	8,530	21.2	5.06	4,370	409
47	13353200	Snake River at Burbank, WA	NC	NC	NC	262000	24,700
48	37A090	Yakima River at Kiona, WA	17,100	11.3	3.04	14,500	1,530
49	12510500	Yakima River at Kiona, WA	16,400	10.9	2.92	14,500	1,530
50	12505450	Granger Drain at Granger, WA	2,410	88.7	39.0	160	27.6

Table A9. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Flux (ton/d)	Variance (ton/d)	Lower 95 (ton/d)	Upper 95 (ton/d)	SEP (ton/d)	Number of days
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	511	2,340	421	616	49.7	365
52	13351000	Palouse River at Hooper, WA	20.8	9.57	13.0	31.7	4.82	365
53	34A070	Palouse River at Hooper, WA	21.5	9.74	14.6	30.5	4.09	365
54	41A070	Crab Creek near Beverly, WA	24.2	3.02	20.7	28.2	1.91	365
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NA	NA	NA	NA	NA	–
56	13A060	Deschutes River at East Street Bridge, WA	1.92	.01	1.65	2.22	.14	365
57	10A070	Puyallup River at Meridian Street, WA	489	5,380	305	743	112	365
58	12108500	Newaukum Creek near Black Diamond, WA	NA	NA	NA	NA	NA	–
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	.29	0.00	.21	0.41	.05	365
60	12061500	Skokomish River near Potlatch, WA	NA	NA	NA	NA	NA	–
61	16A070	Skokomish River near Potlatch, WA	11.6	1.19	8.49	15.6	1.81	365
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NA	NA	NA	NA	NA	–
63	09A190	Green River at Kanaskat, WA	5.09	.10	4.19	6.12	.49	365
64	45A070	Wenatchee River at Wenatchee, WA	36.2	22.2	25.2	50.5	6.47	365
65	12113375	Springbrook Creek at Tukwila, WA	NA	NA	NA	NA	NA	–
66	09A080	Green River at Tukwila, WA	30.9	3.60	26.1	36.3	2.60	365
67	12113390	Duwamish River at Golf Course at Tukwila, WA	57.2	34.6	44.6	72.2	7.04	365
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	1.88	.07	1.21	2.79	.40	365
69	46A070	Entiat River near Entiat, WA	3.63	.18	2.62	4.91	.59	365
70	45A110	Wenatchee River near Leavenworth, WA	21.0	5.81	15.0	28.5	3.44	365
71	16C090	Duckabush River near Brinnon, WA	1.65	.04	1.00	2.57	.40	365
72	12128000	Thorton Creek near Seattle, WA	.65	.01	.39	1.02	.16	365
73	54A120	Spokane River at Riverside State Park, WA	44.9	40.7	30.1	64.4	8.77	365
74	07D050	Snoqualmie River near Monroe, WA	78.9	20.1	65.9	93.6	7.08	365
75	07C070	Skykomish River at Monroe, WA	41.9	12.6	33.4	51.8	4.71	365
76	07A090	Snohomish River at Snohomish, WA	165	122	138	196	14.6	365
77	53A070	Columbia River at Grand Coulee, WA	209	202	180	241	15.6	365
78	48A070	Methow River near Pateros, WA	7.46	.62	5.45	9.96	1.15	365
79	49A070	Okanogan River at Malott, WA	64.5	22.2	51.9	79.2	6.99	365
80	48A140	Methow River at Twisp, WA	5.06	.26	3.64	6.87	.83	365
81	03A060	Skagit River near Mount Vernon, WA	385	1,310	307	477	43.4	365
82	03B050	Samish River near Burlington, WA	6.36	.45	4.87	8.16	.84	365
83	12213140	Nooksack River at Brennan, WA	NA	NA	NA	NA	NA	–
84	01A050	Nooksack River at Brennan, WA	329	512	259	412	38.9	365
85	12210700	Nooksack River at North Cedarville, WA	NA	NA	NA	NA	NA	–
86	12400520	Columbia River at Northport, WA	NA	NA	NA	NA	NA	–
87	61A070	Columbia River at Northport, WA	380	413	337	427	23.1	365
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NA	NA	NA	NA	NA	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	5.21	.20	4.31	6.25	.49	365
90	13094000	Snake River near Buhl, ID	108	306	77.2	147	18.0	365
91	13154500	Snake River at King Hill, ID	190	158	165	219	13.7	365
92	13203510	Boise River below Diversion Dam near Boise, ID	10.4	2.18	7.65	13.9	1.59	365
93	13206000	Boise River at Glenwood, ID	6.70	.71	5.10	8.65	.91	365
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NA	NA	NA	NA	NA	–
95	12414900	St. Maries River near Santa, ID	NA	NA	NA	NA	NA	–
96	12414500	St. Joe River at Calder, ID	11.7	4.77	7.87	16.9	2.30	365
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	3.30	.10	2.47	4.33	.48	365
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	7.27	.96	4.68	10.8	1.57	365
99	12419000	Spokane River near Post Falls, ID	11.4	.90	9.39	13.7	1.10	365
100	13010065	Snake River at Flagg Ranch, WY	46.5	70.1	25.1	79.1	13.9	365

Table A9. Results of LOADEST modeling, flow-weighted concentrations, yields, drainage areas, and mean annual streamflows for suspended sediment in the Columbia River and Puget Sound basins, water year 2001.—Continued

[**Flux**, estimate of average daily load for water year. **Variance**, variance of the flux. **Lower 95**, lower estimate of 95 percent confidence interval for flux. **Upper 95**, upper estimate of 95 percent confidence interval for flux. **Abbreviations**: SEP, standard error of prediction; ID, Idaho; OR, Oregon; WA, Washington; WY, Wyoming; ton/d, ton per day; ton/yr, ton per year; mg/L, milligram per liter; ton/mi²/yr, ton per square mile per year; km², square kilometer; ft³/s, cubic foot per second; NA, not available; NC, not calculated; –, not applicable]

Map index No.	Site No.	Site name	Load (ton/yr)	Flow-weighted concentration (mg/L)	Yield (ton/mi ² /yr)	Drainage area (ft ² /s)	Annual mean flow (ft ³ /s)
51	12472900	Columbia River at Vernita Bridge near Priest Rapids Dam, WA	187,000	2.35	7.13	67,800	80,700
52	13351000	Palouse River at Hooper, WA	7,590	29.4	3.08	6,380	262
53	34A070	Palouse River at Hooper, WA	7,830	30.4	3.18	6,380	262
54	41A070	Crab Creek near Beverly, WA	8,840	44.6	22.9	999	201
55	12471400	Lind Coulee Wastway at SR 17 near Warden, WA	NC	NC	NC	1,840	–
56	13A060	Deschutes River at East Street Bridge, WA	701	4.00	6.81	267	178
57	10A070	Puyallup River at Meridian Street, WA	178,000	77.1	194	2,380	2,350
58	12108500	Newaukum Creek near Black Diamond, WA	NC	NC	NC	71.1	33.7
59	12464770	Crab Creek at Rocky Ford Road near Ritzville, WA	108	4.01	.23	1,190	26.8
60	12061500	Skokomish River near Potlatch, WA	NC	NC	NC	339	646
61	16A070	Skokomish River near Potlatch, WA	4,250	6.66	32.4	339	646
62	12112600	Big Soos Creek above Hatchery near Auburn, WA	NC	NC	NC	173	71.9
63	09A190	Green River at Kanaskat, WA	1,860	3.29	7.81	616	573
64	45A070	Wenatchee River at Wenatchee, WA	13,200	8.44	10.0	3,440	1,590
65	12113375	Springbrook Creek at Tukwila, WA	NC	NC	NC	51.7	29.7
66	09A080	Green River at Tukwila, WA	11,300	13.5	23.7	1,240	851
67	12113390	Duwamish River at Golf Course at Tukwila, WA	20,900	22.0	45.3	1,190	965
68	12056500	North Fork Skokomish River below Staircase Rapids near Hoodport, WA	685	2.32	12.1	147	300
69	46A070	Entiat River near Entiat, WA	1,330	6.44	3.20	1,070	209
70	45A110	Wenatchee River near Leavenworth, WA	7,650	4.96	11.5	1,720	1,570
71	16C090	Duckabush River near Brinnon, WA	603	2.67	9.07	172	229
72	12128000	Thorton Creek near Seattle, WA	237	29.7	21.0	29.2	8.11
73	54A120	Spokane River at Riverside State Park, WA	16,400	5.53	3.28	13,000	3,010
74	07D050	Snoqualmie River near Monroe, WA	28,800	12.0	42.1	1,770	2,440
75	07C070	Skykomish River at Monroe, WA	15,300	5.77	20.0	1,980	2,690
76	07A090	Snohomish River at Snohomish, WA	60,300	9.69	35.2	4,440	6,310
77	53A070	Columbia River at Grand Coulee, WA	76,200	1.04	6.83	28,900	74,400
78	48A070	Methow River near Pateros, WA	2,720	4.80	1.51	4,660	576
79	49A070	Okanogan River at Malott, WA	23,500	18.0	13.5	4,500	1,330
80	48A140	Methow River at Twisp, WA	1,850	3.69	1.40	3,430	508
81	03A060	Skagit River near Mount Vernon, WA	141,000	13.6	60.5	6,020	10,500
82	03B050	Samish River near Burlington, WA	2,320	14.9	26.9	223	158
83	12213140	Nooksack River at Brennan, WA	NC	NC	NC	2,020	2,540
84	01A050	Nooksack River at Brennan, WA	120,000	48.0	163	1,910	2,540
85	12210700	Nooksack River at North Cedarville, WA	NC	NC	NC	1,520	–
86	12400520	Columbia River at Northport, WA	NC	NC	NC	156,000	74,000
87	61A070	Columbia River at Northport, WA	139,000	1.90	2.3	156,000	74,000
88	12212100	Fishtrap Creek at Flynn Road at Lynden, WA	NC	NC	NC	98.6	–
89	13092747	Rock Creek above Hwy 30/93 crossing at Twin Falls, ID	1,900	24.9	7.91	623	77.7
90	13094000	Snake River near Buhl, ID	39,500	18.6	1.34	76,100	2,150
91	13154500	Snake River at King Hill, ID	69,400	9.61	1.94	92,900	7,330
92	13203510	Boise River below Diversion Dam near Boise, ID	3,800	4.72	1.41	6,980	817
93	13206000	Boise River at Glenwood, ID	2,450	4.94	0.88	7,180	503
94	13238322	North Fork Payette River below Fischer Creek near McCall, ID	NC	NC	NC	220	132
95	12414900	St. Maries River near Santa, ID	NC	NC	NC	706	155
96	12414500	St. Joe River at Calder, ID	4,290	3.84	4.14	2,680	1,130
97	12413470	South Fork Coeur d' Alene River near Pinehurst, ID	1,210	5.27	4.23	738	232
98	12413000	North Fork Coeur d' Alene River at Enaville, ID	2,650	3.53	2.96	2,330	763
99	12419000	Spokane River near Post Falls, ID	4,160	1.57	1.06	10,200	2,690
100	13010065	Snake River at Flagg Ranch, WY	17,000	32.7	33.2	1,320	528

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